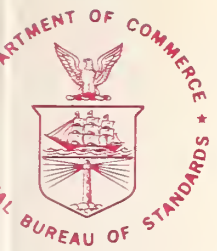

NBS SPECIAL PUBLICATION 428

U.S. DEPARTMENT OF COMMERCE / National Bureau of Standards

Bibliography of Infrared Spectroscopy through 1960

Part 3

NATIONAL BUREAU OF STANDARDS

The National Bureau of Standards [1] was established by an act of Congress March 3, 1901. The Bureau's overall goal is to strengthen and advance the Nation's science and technology and facilitate their effective application for public benefit. To this end, the Bureau conducts research and provides: (1) a basis for the Nation's physical measurement system, (2) scientific and technological services for industry and government, (3) a technical basis for equity in trade, and (4) technical services to promote public safety. The Bureau consists of the Institute for Basic Standards, the Institute for Materials Research, the Institute for Applied Technology, the Institute for Computer Sciences and Technology, and the Office for Information Programs.

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Office of Standard Reference Data — Office of Information Activities — Office of Technical Publications — Library — Office of International Relations.

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[1] Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D.C. 20234.
[2] Part of the Center for Radiation Research.
[3] Located at Boulder, Colorado 80302.
[4] Part of the Center for Building Technology.

Bibliography of Infrared Spectroscopy through 1960

Part 3

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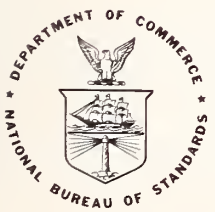

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CONTENTS

INTRODUCTION

This infrared bibliography is based on a systematic search of the literature on infrared spectroscopy up to the end of 1960. The literature search has been made by going through journals as well as through Chemical Abstracts. The extent of coverage of various journals is shown in lists A, B and C at the end of the Introduction.

As a general rule, any paper of interest in the field of infrared spectroscopy is included. Examples of fringe areas include microwave spectra where rotational constants are given, papers on preparation of chemical compounds where infrared spectra are used for identification, papers on Beer's law, references to mathematical treatments such as group theory and statistical mechanics and so on. Papers on Raman spectroscopy have, however, not been included.

The bibliography has been divided into four sections: I, Organic Compounds; II, Inorganic Compounds (a, of non-metals; b, of metals); III, Polymeric Compounds; and IV, Minerals and Ores. The coverage in each section is as follows.

Section I : This section includes organic compounds containing C, H, D, T, halogens, N, O, P, S, As, B, Se and Si. Molecular complexes like $C_6H_6 \cdot I_2$, $C_4H_6 \cdot C_4H_2O_3$ and $CH_3NH_2 \cdot BF_3$ have also been included in this section; the inorganic components in the molecular complexes are also made up of the elements mentioned earlier.

Section II(a) : In this section, inorganic compounds containing C, H, D, T, halogens, N, O, P, S, As, B, Se, Si and noble gases have been included. Molecular complexes with inorganic components like $BF_3 \cdot NH_3$ and $H_2SO_4 \cdot HNO_3$ are also included in this section; the complexes also contain the elements mentioned earlier.

Section II(b) : In this section, simple and complex compounds of elements not covered in II(a) are included, the elements being arranged alphabetically. Molecular complexes like $SnCl_4 \cdot C_4H_8O_2$ are included in the appropriate sub-section dealing with the metallic element (Sn in this case). Complexes like $NaUO_2(C_2H_3O_2)_3$, $K_4Fe(CN)_6$, $K_3Co(CN)_5NO$, and $K\,PtCl_3(NH_3)$ are included under uranium, iron, cobalt and platinum, respectively, and not under sodium or potassium. A complex like $\left[Co(NH_3)_6\right]^{+3}\left[Cr(CN)_6\right]^{3-}$ (written as $CoC_6H_{18}N_{12}Cr$) would come under the element which comes first in alphabetical order (Co in this case). After the first IIb element, the elements of sections I and IIa are written followed by the other IIb element.

Section III : Molecules like polystyrene $(C_6H_8)_n$, polyethylene $(C_2H_4)_n$, paraldehyde, $(CH_2O)_n$, as well as other polymeric molecules where n is not exactly known are included in this section.

Section IV : Most of the minerals and ores are included in this section.

The bibliography is arranged in the order of empirical formulae of compounds in each of the above categories. The information on each compound is given under the following headings: Empirical formula; Name; Range; State; Remark and Reference.

Empirical Formula : In sections I and II(a), the following order of elements is followed in writing the empirical formulae; C, H, D, T, Br, Cl, F, I, N, O, P, S, As, B, Se and Si (followed by noble gases in section IIa). The following examples would serve to illustrate the order of arrangement.

$C_{13}H_2Cl_{10}N_2O$, $C_{13}H_3F_5N_2O_6$, $C_{13}H_4Cl_2F_6N_2O$, $C_{13}H_4Cl_8N_2O$, $C_{13}H_4F_{20}O_4$, $C_{13}H_5Cl_7N_2O$ .....; CHN, CO_2, H_2O, D_2O...

Compounds with the same empirical formulae are arranged according to the alphabetic order of the names. In section I, compounds are arranged in the order of increasing number of C atoms. In section II(a), C-compounds are followed by hydrogen compounds which are followed by deuterium compounds and so on. In section II(b), compounds are listed according to the alphabetic order of the element symbols (e.g., Ca comes before Cu). The following examples illustrate the manner in which empirical formulae are given in this section: (i) oxalate complex of Cobalt(III) CoC_6O_{12}: (ii) acetylacetone complex of cobalt(III): $CoC_{15}H_{21}O_6$. In section III, the arrangement is similar to sections I and II in the monomer part of the system. The arrangement in section IV can be made clear by taking the example of spodumene $Li_2O{\cdot}Al_2O_3{\cdot}4SiO_2$. The empirical formula of spodumene is shown as $Al_2O_{12}Si_4Li_2$. The first element in the formula is the one that comes first alphabetically among the metallic elements (of section IIb); this is followed by other elements belonging to sections I, IIa and IIb.

Name of the Compound : In naming compounds, the IUPAC rules have been generally followed, although for some compounds trivial names have also been used when these are well known. The names of transition metal complexes have been simplified in the following manner:

$Pd_2C_{36}H_{30}Cl_4P_2$	Chlorotriphenylphosphinepalladium(II)-μ-dichlorochlorotriphenylphosphinepalladium(II)	Palladium(II)-chloride, triphenylphosphine complex

Ligands are written in the alphabetical order of their names.

Range : This gives the range of the wavelength over which the measurements are carried out. Whenever the range is not mentioned in the paper or abstract, we have omitted this information. When units are not mentioned, they are in cm^{-1}.

State : This defines the physical state of the compound in which the measurements are carried out. The code used is as follows: S = solid, mull, crystal, pellet or film; L = liquid; G = gas or vapor; Sol = solution.

Remark : This column indicates what the paper is about in a couple of words. The abbreviations used in this column are as follows:

Absorp, Abs	-	Absorption
Act	-	Activation
Amp	-	Amplitude
Anal	-	Analysis
Assign	-	Assignments
Assoc	-	Association
Calc	-	Calculation
Char	-	Characteristic
Compar	-	Comparison
Compd	-	Compound
Config	-	Configuration
Const	-	Constants
Corr	-	Correlation
Decomp	-	Decomposition
Depol	-	Depolarization

Dispers	-	Dispersion
Disso	-	Dissociation
Dist	-	Distance
Distinct	-	Distinction
Elect	-	Electron
Excit	-	Excitation
Ext coeff	-	Extinction coefficient
Fact	-	Factor
FC	-	Force constants
Freq	-	Frequencies
Gr	-	Group
H bond	-	Hydrogen bond
I	-	Intensity
Ident	-	Identification
Int	-	Internal
Intermol	-	Intermolecular
IR	-	Infrared
Iso	-	Isomerism
Mag	-	Magnetic
Micro	-	Microwave
Mol	-	Molecular
Mom inert	-	Moment of Inertia
NCA	-	Normal coordinate analysis
OD	-	Optical Density
Pert	-	Perturbation

Pot func	-	Potential function
Prep	-	Preparation
Prop	-	Properties
Press	-	Pressure
Qual	-	Qualitative
Quant	-	Quantitative
Quant mech	-	Quantum mechanics
Ref	-	Reference
Refl	-	Reflectance
Rot vib	-	Rotation vibration
Sens	-	Sensitive
Sp	-	Specific
Spec	-	Spectrum
Struc, Struct	-	Structure
Substi	-	Substitution
Taut	-	Tautomerism
Temp	-	Temperature
Theo	-	Theoretical
Thermo	-	Thermodynamics
Trans	-	Transmission
Vib	-	Vibrations

Reference : This column gives the literature reference. The reference is complete except that only the name of the first author is given. The reference is arranged in the order: Author, Journal, Volume, Year and Page. The codes used for the journals are given in the accompanying lists A, B and C. A typical reference is as follows: Herzberg, JCP 17 (1949) 1099. For any given compound,

references are generally arranged in chronological order. In cases where there are more than one reference in the same year, the references are arranged according to the alphabetical order of the authors.

LIST OF JOURNALS COVERED

List 'A'

(Journals covered till the end of 1960)

Code	Journal
AC	Anal. Chem.
ACS	Acta Chem. Scandinavica
AJC	Australian J. Chem.
AJP	Australian J. Phys.
AJSR	Australian J. Sc. Res.
AMS	Am. Sci.
APS	Appl. Spectroscopy
BCSJ	Bull. Chem.Soc. Japan
CJC	Can. J. Chem.
CJP	Can. J. Physics
CJR	Can. J. Research (A series)
CR	Chem. Rev.
CS	Current Science
IJP	Ind. J. Phys.
JACS	J. Am. Chem. Soc.

Code	Journal
JAP	J. Appl. Phys.
JCP	J. Chem. Phys.
JCS	J. Chem. Soc.
JINC	J. Inorg. & Nucl. Chem.
JMP	J. Mol. Phys.
JMS	J. Mol. Spect.
JOC	J. Org. Chem.
JOSA	J. Opt. Soc. Am.
JPC	J. Phys. Chem.
JPS	J. Polymer Sci.
JRNB	J. Res. NBS
JSI	J. Sci. Instr.
MC	Makcromol Chem.
MP	Mol. Phys.
N	Nature
OS	Opt. Spectroscopiya
PIAS	Proc. Ind. Acad. Sci.
POL	Polymer
PR	Phys. Rev.
PRS	Proc. Roy. Soc. (London)
RMP	Rev. Mod. Phys.
RSI	Rev. Sci. Instr.
SA	Spect. Acta
TE	Tetrahedron
TFS	Trans. Faraday Soc.

List 'B'

(Journals covered through a search in Chemical Abstracts for the years 1958-1961)

A	Ann
AAN	Atti Accad Nazl Lincei, Rend. Classe, Sci. Fis; mat. e. nat.
ABB	Arch. Biochem. Biophys.
ACR	Acta Cryst
AF	Arikiv Fysik
AM	Am. Minerologist
ANA	Analyst
ANC	Angew. Chem.
ANCR	Ann. Chim. (Rome)
ARK	Arkiv. Kemi
ARS	Anales real soc espan fis y quim (Madrid) Ser.
BAPS	Bull. Am. Phys. Soc.
BASU	Bull. Acad. Sci. U.S.S.R., Phys. Ser.
BSCF	Bull. Soc. Chim. France
CCA	Creat Chem. Acta
CCCC	Collection Czechoslov. Chem. Sommuns.
CIL	Chem. Ind (London)
CPBT	Chem. Pharm. Bull. (Tokyo)
CPR	Compt. Rend.
DA	Dissertation Abstr.
DANS	Doklady Akad Nauk. SSSR

FTT	Fiz Tverdogo Tela
GCI	Gazz Chim. ital.
HCA	Helv. Chim. Acta
IANS	Izvest. Akad. Nauk. SSSR Ser. Fiz.
JAFC	J. Agr. Food Chem.
JAOC	J. Am. Oil Chemists Soc.
JAPCL	J. Appl. Chem. (London)
JAPS	J. Appl. Polymer Sci.
JBC	J. Biological Chem.
JCE	Journal of Chemical Education
JCSJ	J. Chem. Soc. Japan
JIIS	J. Indian Inst. Sci.
JPR	J. Phys. radium
JPRC	J. Pract. Chem.
JPSJ	J. Phys. Soc. Japan
JSIR	J. Sci. Ind. Res.
KKZ	Kogyo Kagaku Zasshi
NC	Nuovo Cimento
NKZ	Nippon Kagaku Zasshi
NWS	Naturwissenschaften
P	Physica
PCS	Phys. and Chem. of Solids
PPSL	Proc. Phys. Soc. (London)
PRCS	Proc. Chem. Soc.
QRL	Quarterly Revs. (London)
RTC	Rec. Trav. Chim.

SK	Soumen Kemistilehti
TEL	Tetrahedron Letters
UFZ	Ukrain Fiz. Zhur
ZAC	Z. anal. Chem.
ZAUA	Z. anorg. U. allgem. Chem.
ZE	Z. Electrochem.
ZN	Z. Naturforsch
ZOK	Zhur. Obshchei. Khim.
ZP	Z. Physik.

List 'C'

(Journals covered by the NBS Group in their data collection up to (approx) 1956, but not included in Lists A and B)

AMAF	Akriv Mat. Astron. Fysik
ASS	Ann. Soc. Sci. Bruxells
BBA	Biochim et. Biophy. Acta
BBS	Bull B S
CIC	Chem. in Canada
DFS	Disc. Far. Soc.
IE	Ind. Eng. Chem.
IEC	Ind. Eng. Chem. (Anal. Ed.)
JA	Jap. Analyst
JP	J. Physique
JPCC	J. Phys. & Coll. Chem.
JPJ	J. Pharm. Japan

PNAS	Proc. NAS
RPCJ	Rev. Phys. Chem. Jap.
ZPC	Z. Physik. Chem. Frankfurt

$C_{22}H_{34}O_8$	3-n-Propyl-4,5,6-tri-carbethoxy-6-carbethoxy-methylcyclohexene	-	-	Band freq	Hogsed	JACS	75 (1953)	4846
$C_{22}H_{34}O_{13}$	Dipentaerithritol hexaacetate	1075-1125	Sol	Anal	Jaffe	AC	23 (1951)	1164
$C_{22}H_{35}ClO_4$	Ethyl 3α-chloro-5,19-dihydroxyetiocholanate	-	Sol	Ident, Production	Herzig	JOC	17 (1952)	724
$C_{22}H_{35}N_3O_5$	5α-Pregnane-3β,17α,21-triol-11,20-dione-20-semicarbazone	-	-	Group freq	Chamberlin	JACS	77 (1955)	1221
$C_{22}H_{36}OS$	Androstan-17-one trimethylene-hemithioketal	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3704
$C_{22}H_{36}O_4$	Ethyl 3α,11β-dihydroxy-etianate	-	-	Spec, Ident	Belleau	JACS	74 (1952)	2816
$C_{22}H_{36}O_8$	Dimethyl hexahydro-homophthalate bimolecular	2-12 μ	S	Spec	Sheehan	JACS	72 (1950)	4614
$C_{22}H_{37}NO_2$	Tetrahydropiveatchine	-	-	Ident	Djerassi	JACS	76 (1954)	5889
$C_{22}H_{37}N_3O_5$	5α-Pregnane-3β,11β,17α,21-tetrol-20-one-20-semicarbazone	-	-	Group freq	Chamberlin	JACS	77 (1955)	1221
$C_{22}H_{38}$	2-Phenylhexadecane	2-15.5 μ	L	Spec, Struct	Lenneman	JOC	19 (1954)	463
$C_{22}H_{38}O_3$	Bisnorallocholane-3β,16β,22-triol	-	S	Freq	Klass	JACS	77 (1955)	3829
$C_{22}H_{38}O_3$	4-Tert-butylperoxy-2,4,6-tri-tert-butyl-cyclohexa-2,5-dienone	5.7-6.2 μ	Sol	Group study	Bickel	JCS	- (1953)	3211
$C_{22}H_{38}O_4$	Octadecanediol maleate	1050-1800	-	Spec	Barnes	IEC	15 (1943)	659

$C_{22}H_{38}O_5$	Bisnorallocholane-2α, 3β,15β,16β,22-pentaol	-	S	Band freq	Klass	JACS	77 (1955)	3829
$C_{22}H_{39}O_4P$	Diisobutyl p-(2-ethyl-phenyl) phenyl phosphate	-	-	Group freq	Bellamy	JCS	- (1952)	1701
$C_{22}H_{39}O_4P$	Di-t-butyl(2-ethyl-hexyl) phenyl phosphate	-	-	Group freq	Bell	JACS	76 (1954)	5185
$C_{22}H_{40}O_2$	Behenolic acid	0.9-3μ	Sol	Spec	Holman	AC	28 (1956)	1533
$C_{22}H_{40}O_2$	3,3,18,18-tetramethyl-1,2-cyclooctadecane-dione	-	L,S	Band freq	Leonard	JACS	72 (1950)	5388
$C_{22}H_{40}O_4$	12-Acetoxyelaidyl acetate	2-12μ	Sol	Substitution effect	McCutchon	JAOC	36 (1959)	450
$C_{22}H_{40}O_4$	Nonyl fumarate	2-16μ	L,Sol	Spec, Ident	Walton	AC	28 (1956)	1388
$C_{22}H_{40}O_4$	Nonyl maleate	2-16μ	L,Sol	Spec, Ident	Walton	AC	28 (1956)	1388
$C_{22}H_{40}Si$	Phenyl-n-hexadecylsilane	2-16μ	Sol	Group freq	Kniseley	SA	15 (1959)	651
$C_{22}H_{41}NO_3$	4-Ricinelaidoyl-morpholine	2-16μ	Sol	Spec, Freq	Dupuy	JAOC	35 (1958)	99
$C_{22}H_{41}NO_3$	4-Ricineleoyl-morpholine	2-16μ	Sol	Spec, Freq	Dupuy	JAOC	35 (1958)	99
$C_{22}H_{41}N_2PS$	N,N-Di-n-butylbenzene-thiophosphonicdiamide	2-21μ	S	Spec, Anal	Daasch	AC	23 (1951)	853
$C_{22}H_{42}$	1-(4-Methylcyclohexyl)-1-(2-methyl-5-isobutyl-cyclohexyl)-2-methyl-propane	7-15μ	L	Spec	Pines	JACS	72 (1950)	1563
$C_{22}H_{42}O_2$	Stearyl methacrylate	2-15μ	L	Spec, Assign	Walton	JACS	79 (1957)	3985
$C_{22}H_{42}O_3$	Butyl ricinoleate	2.4-3.4μ	S	Spec, Band freq	Allison	AC	24 (1952)	630

$C_{22}H_{42}O_4$	Di-2-ethylhexyl adipate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{22}H_{42}O_4$	Di-n-hexyl sebacate	2-16 μ	Sol	Spec	Stahl	JACS	74 (1952)	5487
$C_{22}H_{42}O_5$	Diethylene glycol mono-ricinoleate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{22}H_{42}O_6$	Triethylene glycol di-2-ethyl hexoate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{22}H_{43}NO_2$	4-Stearoylmorpholine	2-16 μ	Sol	Spec, Freq	Dupuy	JAOC	35 (1958)	99
$C_{22}H_{43}NO_3$	4-(12-Hydroxystearoyl) morpholine	2-16 μ	Sol	Spec, Freq	Dupuy	JAOC	35 (1958)	99
$C_{22}H_{44}O_2$	n-Butyl stearate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
		5-7 μ	Sol	Quant Anal	Kiley	AC	29 (1957)	1895
$C_{22}H_{44}O_2$	19,19-Dimethyleicosanoic acid	-	-	Spec	Sobotka	JACS	72 (1950)	5139
$C_{22}H_{44}O_2$	n-Docosanoic acid	2-15 μ	S	Spec, Qual anal	Meiklejohn	AC	29 (1957)	329
$C_{22}H_{44}Si$	Diallyl-n-hexadecyl-silane	2-16 μ	Sol	Group freq	Kniseley	SA	15 (1959)	651
$C_{22}H_{45}O_3B$	Di-(2-Octyl)-monocyclo-hexyl borate	700-1700	L	Spec, Freq	Werner	AJC	9 (1956)	137
$C_{22}H_{46}$	n-Docosane	750-1200	S	Struct	Snyder	JCP	27 (1957)	969
		650-800	S,L	Freq	Martin	SA	12 (1958)	12
		700-1500	S	Freq, Assign	Snyder	JMS	4 (1960)	411
$C_{22}H_{46}ClN$	(2-Cyclohexylethyl)-dodecyldimethyl-ammonium chloride	-	-	Freq, Purity	Cella	JACS	77 (1955)	4264
$C_{22}H_{48}N_6$	N,N'-Di-n-butyl-N,N'-bis-(2-n-butylamino-ethyl)oxamidine	3-6.5 μ	Sol	Spec, Group freq	Woodburn	JOC	17 (1952)	1235
$C_{22}H_{48}O_6B_2$	Tetrapentylethylene diborate	6-14 μ	L,S	Group freq, Struct	Blau	JCS	- (1960)	380

$C_{22}H_{58}O_3Si_6$	Dodecamethyl-3,10,17-trioxa-2,4,9,11,16,18-hexasilanonadecane	-	-	Group freq	Sommer	JACS	77 (1955)	2482

C_{23} COMPOUNDS

$C_{23}H_{14}O_2$	4-Hydroxy-1-phenyl-2,3-benzofluorenone	2-16 μ	S	Spec	Bader	JACS	75 (1953)	730
$C_{23}H_{14}O_2$	4-Hydroxy-9-phenyl-2,3-benzo-1-isofluorenone	2-16 μ	S	Spec	Bader	JACS	75 (1953)	730
$C_{23}H_{16}$	3'-Methyl-1:2,5:6-dibenzanthracene	670-3150 650-2000	S S	Spec, Freq Struct	Orr Cannon	JCS SA	- (1950) 4 (1951)	218 373
$C_{23}H_{16}$	4-Methylpicene	-	S	Spec	Phillips	JACS	77 (1955)	3856
$C_{23}H_{16}N_2O_3$	2-Benzoyl-1-cyano-1-(4-nitrophenyl)-3-phenylcyclopropane	2-16 μ	S	Spec, Struct	Allen	JOC	22 (1957)	1291
$C_{23}H_{16}N_2O_3$	1,4-Diphenyl-3-phthalimido-2-azetidinone	2-16 μ	Sol	Spec	Sheehan	JACS	73 (1951)	1204
$C_{23}H_{16}O$	2-Diphenylmethylene-1-naphthone	-	Sol	Group freq	Ettlinger	JACS	76 (1954)	2769
$C_{23}H_{17}N$	9-Amino-9-α-naphthylfluorene	6300-6800	Sol	Spec, Anal	Wulf	JACS	57 (1935)	1464
$C_{23}H_{17}NO$	2-Benzoyl-1-cyano-1,3-diphenylcyclopropane	2-16 μ	S	Spec, Struct	Allen	JOC	22 (1957)	1291
$C_{23}H_{17}NO_3$	1-Benzyl-4,4-diphenyl-2,3,5-pyrrolidinetrione	-	-	Spec	Skinner	JACS	72 (1950)	5569
$C_{23}H_{18}$	1,2,3-Triphenylcyclopentadiene(1,2,4-isomer also)	3-15 μ	Sol	Spec, Band freq	Panson	JACS	76 (1954)	2187

$C_{23}H_{18}N_2O$	α-(2'-Pyridyl)-β-(1-isoquinolyl)-propiophenone	-	-	Struct	Bockelheide	JACS	75 (1953)	3679
$C_{23}H_{18}N_2O_3$	α-(1-Benzyl-1,2-dihydro-2-pyridylidene)-γ-phthalimidoacetone	-	S	Group freq	Baker	JOC	20 (1955)	118
$C_{23}H_{18}N_2O_5$	L-erythro-2-Phenyl-4-benzoyloxymethyl-5-p-nitrophenyl-Δ^2-oxazoline	-	-	Freq	Moersch	JACS	76 (1954)	1703
$C_{23}H_{18}O_2$	1,2-Dibenzoyl-1-phenyl-cyclopropane	3-11 μ	Sol,S	Spec, Struct	Allen	JOC	22 (1957)	1291
$C_{23}H_{18}O_2$	1,2-Dibenzoyl-3-phenyl-cyclopropane	2-16 μ	S	Spec, Struct	Allen	JOC	22 (1957)	1291
$C_{23}H_{18}O_2$	1,5-Diketo-1,3,5-triphenyl-2-pentene	-	Sol	Band freq, Struct	Berson	JACS	74 (1952)	358
$C_{23}H_{18}O_3$	4-Hydroxy-4-methoxy-2,3,4-triphenylcrotonic acid lactone	-	Sol	Group freq	Yates	JACS	76 (1954)	5110
$C_{23}H_{19}F_3N_4O_2$	β,β,β-Trifluoropropionic acid, nitron salt	2-15.5 μ	-	Spec, Ident	Haszeldine	JCS	- (1952)	3483
$C_{23}H_{19}NO_2$	2-Benzoyl-1-carboxamido-1,3-diphenyl-cyclopropane	2-16 μ	S	Spec, Struct	Allen	JOC	22 (1957)	1291
$C_{23}H_{19}NO_4$	N,N-Dibenzoylglycine benzyl ester	2-8 μ	Sol	Spec, Group freq	Sheehan	JACS	74 (1952)	4555
$C_{23}H_{19}N_3O_2$	3-[β-Keto-γ-(1-benzyl-1,2-dihydro-2-pyridylidene)propyl]-4-quinazolone	-	S	Group freq	Baker	JOC	20 (1955)	118
$C_{23}H_{20}N_2O_2$	1,2-Dibenzoyl-1-phenyl-cyclopropanedioxime	3-11 μ	S	Ident	Allen	JOC	22 (1957)	1291

$C_{23}H_{20}N_2O_2$	1,2-Dibenzoyl-3-phenyl-cyclopropanedioxime	3-11 μ	S	Ident	Allen	JOC	22 (1957)	1291
$C_{23}H_{20}N_2O_2$	1,4-Diphenyl-3-phenyl-acetylamino-2-azetidinone	2-16 μ	Sol	Spec	Sheehan	JACS	73 (1951)	1204
$C_{23}H_{20}N_2O_2$	2-Phenyl-3-(1-phenyl-2-nitropropyl)indole	-	S	Freq	Noland	JACS	81 (1959)	1203
$C_{23}H_{20}N_2O_4S_2$	5,8-Dihydro-6-methyl-1,4-naphthoquinonedibenzene-sulfonimide	-	-	Group study	Adams	JACS	74 (1952)	2603
$C_{23}H_{20}N_2O_5S$	4-Carbomethoxy-5,5-dimethyl-2-phenyl-α-phthalimido-2-thiazolidine acetic acid β-lactam	2-11 μ	Sol	Spec, Band freq, Struct	Sheehan	JACS	73 (1951)	4373
$C_{23}H_{20}N_2O_6$	β,ξ-Diaminocaproic acid di(N-phthalyl)methyl ester	-	S	Ident, Band freq	VanTamelen	JACS	75 (1953)	2031
$C_{23}H_{20}N_2O_6S_2$	3-Acetyl-5-benzene-sulfonamido-1-benzene-sulfonyl-X-methyloxinole	-	-	Freq	Adams	JACS	75 (1953)	3403
$C_{23}H_{20}N_2O_7S$	4-Carbomethoxy-5,5-dimethyl-2-phenyl-α-phthalimido-2-thiazolidine acetic acid-β-lactam sulfone	2-11 μ	Sol	Spec, Band freq,	Sheehan	JACS	73 (1951)	4373
$C_{23}H_{20}O_2$	Benzhydryl p-methoxy-styryl ketone	-	-	Band freq	Marvel	JOC	16 (1951)	741
$C_{23}H_{20}O_2S$	9-(9-Allyfluorenyl) p-tolyl sulfone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{23}H_{20}O_{10}$	3',4',5,7-Tetraacetoxy-flavanone	1550-4000	S	Group freq	Hergert	JACS	75 (1953)	1622

$C_{23}H_{21}NO$	N-Benzyl-2-benzoyl-3-p-tolylazacyclopropane	700–4000	Sol	Spec, Freq	Adelfang	JACS	82 (1960)	4241
$C_{23}H_{21}NO$	cis-1-Benzyl-2-phenyl-3-p-toluylethyleneimine	650–3800 2–16 μ	S S	Table Spec, Freq	Cromwell Cromwell	JACS JACS	71 (1949) 73 (1951)	3337 1044
$C_{23}H_{21}NO$	trans-1-Benzyl-2-phenyl-3-p-toluylethylene-imine	650–3800 2–16 μ	S S	Table Spec, Freq	Cromwell Cromwell	JACS JACS	71 (1949) 73 (1951)	3337 1044
$C_{23}H_{21}NO$	1,3-Diphenyl-2-(methyl-benzylamino)-2-propen-1-one	650–3800	S	Table	Cromwell	JACS	71 (1949)	3337
$C_{23}H_{22}N_2O_4S_2$	5,8-Dihydro-6-methyl-naphthalene-1,4-dibenzene-sulfonamide	–	–	Group study	Adams	JACS	74 (1952)	2603
$C_{23}H_{22}N_2O_7S$	Methyl-5,5-dimethyl-2-phenyl-3-phthaloylglycyl-4-thiazolidine carboxylate sulfone	2–11 μ	Sol	Spec, Band freq, Struct	Sheehan	JACS	73 (1951)	4373
$C_{23}H_{22}O_2$	3,9-Dibenzylidene-1,2-cyclononanedione	–	S	Group freq	Leonard	JACS	75 (1953)	2714
$C_{23}H_{22}O_2$	3,7-Di-(p-methylbenzylidene)-1,2-cycloheptanedione	–	S	Group freq	Leonard	JACS	75 (1953)	4989
$C_{23}H_{22}O_2$	3,7-Di-(p-methylbenzyl) tropolone	– –	Sol Sol	Group freq Freq	Leonard Panson	JACS CR	75 (1953) 55 (1955)	4989 9
$C_{23}H_{22}O_2S$	9-(9-Isopropylfluorenyl)-p-tolylsulfone	1100–1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{23}H_{22}O_2S_2$	Ethyl β,β-bis-(phenyl-thio) hydrocinnamate	–	–	Group freq, Struct	Campaigne	JACS	76 (1954)	1272
$C_{23}H_{22}O_3$	5-Carbomethoxy-3,6-dimethyl-1,2-diphenyl-3,6-methano-7-oxocyclohexene	2–15 μ	S	Spec	Allen	JOC	20 (1955)	306

$C_{23}H_{22}O_3$	Ethyl mandelate benzhydryl ether	600-4000	Sol	Spec	Curtin	JACS	76 (1954)	494
$C_{23}H_{22}O_3$	Ethyl β,β, -phenyl-diphenylhydroxypro-pionate	2.7-3.1 μ	S,Sol	Spec, H bond	Davies	JCP	8 (1940)	577
$C_{23}H_{22}O_3$	Ethyl α,β,β-triphenyl-lactate	600-4000	Sol	Spec, Struct	Curtin	JACS	76 (1954)	494
$C_{23}H_{22}O_4$	3,7-Di-(p-methoxy-benzylidene)-1,2-cyclo-heptanedione	-	S	Group freq	Leonard	JACS	75 (1953)	4989
$C_{23}H_{22}O_4$	3,7-Di-(p-methoxybenzyl) tropolone	-	Sol	Group freq	Leonard	JACS	75 (1953)	4980
$C_{23}H_{22}O_6$	Rotenone	2-15 μ -	Sol Sol	Band freq, Struct Anal	Cupples Cupples	JACS AC	73 (1951) 24 (1952)	4023 1657
$C_{23}H_{23}NO$	N-Benzyl-5,6-diphenyl -3-hydroxymorpholine	-	-	Struct	Lutz	JACS	76 (1954)	4965
$C_{23}H_{24}N_2O_4S$	Benzyl benzyl-penicillinate	1100-3400	S	Spec	Cavallito	JOC	15 (1950)	815
$C_{23}H_{24}N_2O_5S$	Benzyl benzylpenicilli -nate monoxide	1000-3400	S	Spec	Cavallito	JOC	15 (1950)	815
$C_{23}H_{24}N_2O_7$	3-Carboxy-4-carbomethoxy-hydroxymethyl-1-phenyl-hydrazyl-5,6,7-trimethoxy 1,2,3,4-tetrahydronaph-thalene lactone	-	S	Band freq	Haworth	JCS	- (1954)	3611
$C_{23}H_{24}O_3$	Methyl 15-p-methoxyphenyl all trans-2,4,6,8,10,12, 14-pentadecaheptaenoate	-	S	Group freq, I	Allan	JCS	- (1955)	1874
$C_{23}H_{24}O_4$	Pimeloyldiacetophenone	1500-3500	S,Sol	Freq, Assign, Struct	Martin	JACS	80 (1958)	4891
$C_{23}H_{24}O_6$	Dihydrorotenone	2-15 μ -	Sol Sol	Band freq, Struct Anal	Cupples Cupples	JACS AC	73 (1951) 24 (1952)	4023 1657

$C_{23}H_{24}O_8$	Methyl 6,7-methylenedioxy-3,1-endo-methyleneoxy-1-(3,4,5-trimethoxyphenyl)-1,2,3,4-tetrahydronaphthalene-2-carboxylate	2-12 μ	Sol	Spec	Schrecker	JACS	74 (1952)	5672
$C_{23}H_{24}O_8$	β-Peltatin-B methyl ether	2-12.5 μ	Sol	Spec	Hartwell	JACS	74 (1952)	6285
		-	-	Struct, Config.	Schrecker	JACS	75 (1953)	5924
$C_{23}H_{25}NO_2$	N-Cyclohexyl-2-benzoyl-3-p-acetylphenylazacyclopropane	700-4000	Sol	Spec, Freq	Adelfang	JACS	82 (1960)	4241
$C_{23}H_{26}N_2O_4$	Brucine	650-4000	S	Spec	Moeller	JACS	77 (1955)	3182
$C_{23}H_{26}N_2O_4S_2$	N,N'-Dimethyl-N,N'-dibenzenesulfonyldiaminomesitylene	1500-4000	S	Spec	Adams	JACS	71 (1949)	1620
$C_{23}H_{26}O$	Bis-(1-phenylcyclopentyl) ketone	-	-	Struct	VanHeninger	JACS	74 (1952)	4861
$C_{23}H_{26}OSi$	Triphenylsilylbutyl methyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{23}H_{26}OSi$	Triphenylsilylmethyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{23}H_{26}OSi$	Triphenylsilylpropyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{23}H_{26}O_2$	1,5-Dimesityl-1,3-pentadien-1-ol-5-one	-	S	Band freq	Fuson	JACS	75 (1953)	5402
$C_{23}H_{26}O_2$	1,5-Dimesityl-2,4-pentadien-2-ol-1-one	-	-	Ident, Band freq	Fuson	JACS	75 (1953)	5950
		-	S	Band freq, I	Fuson	JACS	75 (1953)	5952
$C_{23}H_{26}O_5$	$\Delta^{5,13,15,17}$-Etiojervatetraene-3β-17-diol-11-one-3,17-diacetate	-	S	Group freq	Fried	JACS	75 (1953)	4929

$C_{23}H_{26}O_6$	Dihydrorotenol	-	Sol	H bond	Hilbert	JACS	58 (1936)	548
$C_{23}H_{26}O_7$	trans-3-Carbethoxy-4-(3',4'-dimethoxyphenyl)-6,7-dimethoxy-1-tetralone	-	Sol	Band freq	Walker	JACS	75 (1953)	3387
$C_{23}H_{27}D_7O_3$	Δ^5-Pregnenol-3β one-20-d_4-17,21-acetate-d_3	1300-1500	Sol	Spec	Jones	JACS	74 (1952)	5662
$C_{23}H_{27}NO_2$	Picrotoxadiene maleic anhydride N-phenylimide	2-13 μ	Sol	Spec, Band freq	Conroy	JACS	74 (1952)	3046
$C_{23}H_{27}NO_3$	Isoamyl p-(p-ethoxybenzalamino) cinnamate	2-12 μ	L	Spec	Taschek	JCP	6 (1938)	542
$C_{23}H_{27}NO_6$	Colchiceine ethyl ether	6.75-7.25 μ	Sol	Spec	Horowitz	JACS	74 (1952)	587
$C_{23}H_{27}NO_6$	Isocolchiceine ethyl ether	6.75-7.25 μ	Sol	Spec	Horowitz	JACS	74 (1952)	587
$C_{23}H_{27}N_5$	5-(5'-Isopropylamino-amylamino)-pyrido 3,2a phenazine	2.5-15 μ	S	Spec	Drake	JACS	73 (1951)	544
$C_{23}H_{28}N_2O_4$	O-Acetylyohibine	-	S	Freq	Huebner	JACS	77 (1955)	469
$C_{23}H_{28}N_2O_4$	Methyl anhydroreserpate	-	-	Band study	Huebner	JACS	77 (1955)	472
$C_{23}H_{28}N_2O_5$	Cimicidine	800-3500	Sol	Spec, Band freq	Rogers	JACS	74 (1952)	1987
		-	-	Group freq, Struct	Snyder	JACS	76 (1954)	4601
$C_{23}H_{28}N_2O_5 \cdot HCl$	Cimicidine hydrochloride	-	-	Band freq	Snyder	JACS	76 (1954)	4601
$C_{23}H_{28}N_2O_5$	N,N-Dimethylamino-colchicide	2-14 μ	S	Spec, Struct	Rappaport	JACS	76 (1954)	3693
$C_{23}H_{28}O$	1,3-Diduryl-2-propen-1-one	-	-	Ident	Fuson	JACS	75 (1953)	5952

$C_{23}H_{28}O_2$	1,3-Diduryl-1,2-propane-dione	-	S	Band freq, I	Fuson	JACS	75 (1953)	5952
$C_{23}H_{28}O_2$	1,3-Diduryl-1,3-propane-dione	-	-	Comparison	Fuson	JACS	75 (1953)	5952
$C_{23}H_{28}O_3$	1-2,4b-Dimethyl-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-7β-ol-1-one benzoate	-	S	Band freq	Sarett	JACS	75 (1953)	2112
$C_{23}H_{28}O_3$	Duryl 2-hydroxy-4-t-butylphenyl ketone acetate	-	-	Group freq	Fuson	JACS	77 (1955)	3781
$C_{23}H_{28}O_4$	Methyl-1-methyl-3-acetoxy-$\Delta^{1,3,5(10),6}$-estratetraene-17β-carboxylate	-	Sol	Band freq	Sandoval	JACS	77 (1955)	148
$C_{23}H_{28}O_4$	$\Delta^{4,9(11),16}$-Pregnatrien-21-ol-3,20-dione-21-acetate	-	S	Band freq	Allen	JACS	77 (1955)	1028
$C_{23}H_{28}O_5$	$\Delta^{4,16}$-Pregnadiene-2-ol-3,11,20-trione-21-acetate	-	S	Band freq	Allen	JACS	77 (1955)	1028
$C_{23}H_{28}O_6$	17α-21-Dihydroxy-1,4-pregnadiene-3,11,20-trione-21-acetate	2.5-3.5μ	Sol	Group study	Kabasakalian	AC	31 (1959)	375
$C_{23}H_{28}O_6$	1-(3',4'-Dimethoxyphenyl)-2-carbethoxy-6,7-dimethoxytetralin	-	Sol	Band study	Walker	JACS	75 (1953)	3387
$C_{23}H_{28}O_6$	dl-16α,17α-Oxido-3,11,20-triketo-21-hydroxy-Δ^4-pregnene 21-acetate	-	-	Ident	Barkley	JACS	76 (1954)	5017

$C_{23}H_{28}O_7$	Methyl α-retrodendrate dimethyl ether	-	Sol	Ident	Schrecker	JACS	77 (1955)	432
$C_{23}H_{28}O_7$	Δ^4-Pregnene-3,6,11,20-tetrone-17α,21-diol-21 acetate	-	Sol	Band freq	Sondheimer	JACS	76 (1954)	5020
$C_{23}H_{29}ClO_6$	4-Chlorocortisone acetate	1550-1800	S	Spec, Freq	Meda	SA	13 (1958)	75
$C_{23}H_{29}FO_6$	1-Dehydro-9α-Fluoro-hydrocortisone acetate	-	S	Band freq	Fried	JACS	77 (1955)	4181
		-	S	Group freq	Hirschmann	JACS	77 (1955)	3166
$C_{23}H_{29}FO_6$	6-Dehydro-9α-fluoro-hydrocortisone acetate	-	S	Group freq	Fried	JACS	77 (1955)	4181
		-	S	Group freq	Hirschmann	JACS	77 (1955)	3166
$C_{23}H_{29}FO_6$	4-Fluorocortisone acetate	1550-1800	S	Spec, Freq	Meda	SA	13 (1958)	75
$C_{23}H_{29}FO_6$	9α-Fluorocortisone acetate	-	S	Group freq	Fried	JACS	76 (1954)	1455
$C_{23}H_{29}N_3O_6$	cis-Bis(α,α-dimethyl-glutarimido)-nitro-mesitylene	-	Sol	Band freq, I	Adams	JACS	75 (1953)	2375
$C_{23}H_{29}N_3O_6$	trans-Bis-(α,α-dimethyl-glutarimido)-nitro-mesitylene	-	Sol	Band freq	Adams	JACS	75 (1953)	2375
$C_{23}H_{29-31}N_3O_7$	Xanthomycin-A	2-16 μ	Sol	Spec, Freq, Struct	Rao	JACS	76 (1954)	1335
$C_{23}H_{29-31}N_3O_7$ .HCl	Xanthomycin-A-hydrochloride	2-16 μ	S	Spec, Freq, Struct	Rao	JACS	76 (1954)	1335
$C_{23}H_{30}$	P,P'-Hexamethylene-1,5-diphenylpentane	3-12 μ	Sol	Spec	Steinberg	JACS	74 (1952)	5388
$C_{23}H_{30}D_4O_3$	Δ^5-Pregnenol-3β-one-20-d_4-17,21-acetate	-	Sol	Freq	Jones	JACS	74 (1952)	5662

$C_{23}H_{30}BrFO_6$	2-Bromo-9α-Fluoro-Δ^1-pregnene-11β,17α,21-triol-3,20-dione 21-acetate	-	S	Band freq	Fried	JACS	77 (1955)	4181
$C_{23}H_{30}BrFO_6$	2-Bromo-9α-fluoro-Δ^4-pregnene-11β,17α,21-triol-3,20-dione-21-acetate	-	Sol	Band freq	Fried	JACS	77 (1955)	4181
$C_{23}H_{30}N_2O_2$	Bis-(N-benzyl)-azel-amide	700-1700	S	Spec	Stafford	AC	21 (1949)	1454
$C_{23}H_{30}N_2O_3$	N-Carbethoxydeacetyl-aspidospermine	-	-	Group freq, I, Struct	Witkop	JACS	76 (1954)	5603
$C_{23}H_{30}N_2O_3$	N,O-Diacetylaspidosine	6.01-11.87 μ	Sol	Group freq, I, Struct	Witkop	JACS	76 (1954)	5603
$C_{23}H_{30}N_2O_4$	cis-Bis-(α,α-dimethyl-glutarimido)-mesitylene	-	Sol	Band freq	Adams	JACS	75 (1953)	2375
$C_{23}H_{30}N_2O_4$	trans-Bis-(α,α-dimethyl-glutarimido) mesitylene	-	Sol	Band freq	Adams	JACS	75 (1953)	2375
$C_{23}H_{30}N_2O_5$	Methyl reserpate	-	-	Ident	Klohs	JACS	77 (1955)	2241
$C_{23}H_{30}N_2O_5 \cdot HCl$	Dihydrocimicidine hydrochloride	-	-	Band freq	Snyder	JACS	76 (1954)	4601
$C_{23}H_{30}N_2O_{15}$	1-Deoxy-1-diazoketo-D-erythro-L-glucononulose heptaacetate	-	-	Freq	Wolfrom	JACS	77 (1955)	3096
$C_{23}H_{30}N_2O_{15}$	1-Deoxy-1-diazoketo-D-erythro-L-mannononulose heptaacetate	-	-	Freq	Wolfrom	JACS	77 (1955)	3096
$C_{23}H_{30}O$	Sym-Didurylacetone	-	-	Freq	Fuson	JACS	75 (1953)	5952
$C_{23}H_{30}O$	4,5-Dihydro-p-cyclohexyl-phenyl duryl ketone	-	-	Freq	Fuson	JACS	76 (1954)	911

$C_{23}H_{30}O$	1,5-Dimesityl-2-pentanone	-	-	Band freq	Fuson	JACS	75 (1953)	5950
$C_{23}H_{30}O$	$\Delta^{4,16}$-20-Ethynylpregnadienone-3	-	S,Sol	Freq	Tarpley	APS	9 (1955)	69
$C_{23}H_{30}O_3$	$\Delta^{5,13(17a),17(20)}$-17-Ethyletiojervatriene-3β-ol-11-one acetate	-	S	Freq	Fried	JACS	75 (1953)	4929
$C_{23}H_{30}O_4$	α-(3β-Acetoxy-5,7,9-estratrien-17-yl)-propionic acid	- -	Sol Sol	Group freq Band freq	Mosettig Scheer	JOC JACS	17 (1952) 77 (1955)	764 3300
$C_{23}H_{30}O_4$	21-Acetoxypregna-4,9(11)-diene-3,20-dione	-	Sol	Group freq, Ident	Casanova	JCS	- (1953)	2983
$C_{23}H_{30}O_4$	$\Delta^{3,5,16}$-Androstatriene-3, 17-diol diacetate	1700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{30}O_4$	dl-$\Delta^{5,16}$-Ethylenedioxy-pregnadiene-11,20-dione	-	S	Band freq	Poos	JACS	77 (1955)	1026
$C_{23}H_{30}O_4$	$\Delta^{1,3,5:10}$-3-Methoxy-17-(2-acetoxyacetyl)estratriene	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{23}H_{30}O_4$	$\Delta^{1,3,5:10}$-1-Methyl-17-carbomethoxyestratrienol-3-acetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{23}H_{30}O_4$	$\Delta^{1,3,5(10)}$-1-Methylestratrienediol-3,17-diacetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{23}H_{30}O_4$	Methyl-1-methyl-3-acetoxy-$\Delta^{1,3,5(10)}$-estratriene-17β-carboxylate	-	Sol	Band freq	Sandoval	JACS	77 (1955)	148

$C_{23}H_{30}O_4$	$\Delta^{?,?}$-Pregnadien-21-ol-3,20-dione acetate	–	Sol	Freq	Clarke	JACS	77 (1955)	661
		–	S	Group freq	Nobile	JACS	77 (1955)	4184
$C_{23}H_{30}O_4$	$\Delta^{4,16}$-Pregnadien-21-ol-3,20-dione-21-acetate	–	–	Struct	Cole	JOC	19 (1954)	131
		–	S	Group freq	Allen	JACS	77 (1955)	1028
$C_{23}H_{30}O_5$	11α-Acetoxy-16α,17α-Oxido-progesterone	–	–	Ident	Peterson	JACS	77 (1955)	4428
$C_{23}H_{30}O_5$	dl-3-Ethylenedioxy-5-pregnene-11,16,20-trione	–	S	Band freq	Arth	JACS	77 (1955)	3834
$C_{23}H_{30}O_5$	dl-3-Ethylenedioxy-13α-pregn-5-ene-11,16,20-trione	–	S	Freq	Arth	JACS	77 (1955)	3834
$C_{23}H_{30}O_5$	6-Oxodeoxycorticosterone 21-acetate	–	Sol	Group freq	Amendolla	JCS	– (1954)	1226
$C_{23}H_{30}O_5$	$\Delta^{4,7}$-Pregnadien-17α,21-diol-3,20-dione-21-acetate	–	S	Band freq	Antonucci	JACS	76 (1954)	2956
$C_{23}H_{30}O_5$	$\Delta^{4,9(11)}$-Pregnadien-17α,21-diol-3,20-dione-21-acetate	–	S	Group freq	Bernstein	JACS	75 (1953)	4830
$C_{23}H_{30}O_5$	$\Delta^{4,16}$-Pregnadien-11β,21-diol-3,20-dione-21-acetate	–	S	Band freq	Allen	JACS	77 (1955)	1028
$C_{23}H_{30}O_5$	Δ^4-Pregnenol-21-trione -3,11,20-acetate	1600–1800	Sol	Freq, Struct	Jones	JACS	71 (1949)	241
		1700–1800	–	Spec	Jones	CIC	2 (1950)	94
		–	Sol	Band freq	Jones	JACS	74 (1952)	2820
$C_{23}H_{30}O_5$	Δ^4-Pregnenol-21-trione -3,12,20-acetate	1700	Sol	Freq, Struct	Jones	JACS	71 (1949)	241

$C_{23}H_{30}O_5S$	Δ^4-Pregnene-3,11,20-trione-17α-ol-21-thiol-21-acetate	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3700
$C_{23}H_{30}O_6$	17aβ-Acetoxymethyl-D-homo-Δ^4-androsten-17a-ol-3,11,17-trione	-	Sol	Band freq	Batres	JACS	76 (1954)	5171
$C_{23}H_{30}O_6$	Aldosterone-21-acetate	2-12 μ	Sol	Spec	Simpson	HCA	37 (1954)	1163
		-	S	Band freq	Ham	JACS	77 (1955)	1637
$C_{23}H_{30}O_6$	dl-Cortisone acetate	-	-	Ident	Barkley	JACS	75 (1953)	4110
		-	-	Ident	Barkley	JACS	76 (1954)	5017
		-	S	Band freq, Ident	Bladon	JCS	- (1954)	125
		-	-	Band freq	Poos	JACS	76 (1954)	5031
		-	-	Ident	Hogg	JACS	77 (1955)	4436
$C_{23}H_{30}O_6$	17α,21-Dihydroxy-4-pregnene-3,11,20-trione-21-acetate	2.5-3.5 μ	-	Group study	Kabasakalian	AC	31 (1959)	375
$C_{23}H_{30}O_6$	Δ^4-Pregnenediol-17α,21-trione-3,11,20-acetate-21	-	Sol	Freq, Struct, Spec	Jones	JACS	74 (1952)	2820
		1550-1800	S	Spec, Freq	Meda	SA	13 (1958)	75
		-	-	Band study	Romo	JACS	75 (1953)	1277
		-	-	Ident	Oliveto	JACS	76 (1954)	6113
$C_{23}H_{30}O_6$	Δ^4-Pregnene-3,6,20-trione-17α,21-diol (6-Keto-substances)21-acetate	-	Sol	Band freq	Sondheimer	JACS	76 (1954)	5020
$C_{23}H_{30}O_7$	α-Kosin	3.13-12.3 μ	S	Freq, I	Birch	JCS	- (1952)	3102
$C_{23}H_{30}O_7$	β-Kosin	3.10-12.1 μ	S	Freq, I	Birch	JCS	- (1952)	3102
$C_{23}H_{30}O_7$	Δ^4-Pregnene-3,11,20-trione-6β,17α,21-triol-21 acetate	-	S	Band freq	Sondheimer	JACS	76 (1954)	5020
$C_{23}H_{31}D_3O_3$	Δ^5-Pregnenol-3β-one-20 acetate-d_3	1300-1500	Sol	Spec	Jones	JACS	74 (1952)	5662

$C_{23}H_{31}D_3O_3$	Δ^5-Pregnenol-3β-one-20 d_3-21-acetate	1300–1500	Sol	Spec	Jones	JACS	74 (1952)	5662
$C_{23}H_{31}BrO_4$	4-Bromodeoxycorti-costerone acetate	1550–1800	S	Spec, Freq	Meda	SA	13 (1958)	75
$C_{23}H_{31}BrO_6$	4-Bromo-17α-hydroxy-21-acetoxypregnane-3,11, 20-trione	–	–	Comparison	Holysz	JACS	75 (1953)	4432
$C_{23}H_{31}BrO_6$	4-Bromopregnane-17α,21-diol-3,11,20-trione	–	–	Ident	Hanze	JACS	76 (1954)	3179
	21-acetate	–	–	Ident	Oliveto	JACS	76 (1954)	6113
$C_{23}H_{31}FO_4$	4-Fluorodeoxycortico-sterone acetate	1550–1800	S	Freq	Meda	SA	13 (1958)	75
$C_{23}H_{31}FO_6$	Δ^1-5α-Dihydro-9α-fluorohydrocortisone acetate	–	S	Group freq	Hirschmann	JACS	77 (1955)	3166
$C_{23}H_{31}FO_6$	9α-Fluorohydrocortisone acetate	–	S	Group freq	Fried	JACS	76 (1954)	1455
$C_{23}H_{31}IO_3$	21-Iodo-$\Delta^{5,16}$-pregnadien-3β-ol-20-one acetate	–	Sol	Band freq	Djerassi	JACS	76 (1954)	1722
$C_{23}H_{31}NO_3$	3-(N-Morpholinyl)-3,5-androstadiene-11,17-dione	–	S	Group freq	Heyl	JACS	77 (1955)	488
$C_{23}H_{32}$	1,5-Dimesitylpentane	–	–	Ident	Fuson	JACS	75 (1953)	5950
$C_{23}H_{32}IN$	Duryl-p-tert-butylphenyl-N-methyl ketimine methiodide	–	–	Freq	Fuson	JACS	75 (1953)	5321
$C_{23}H_{32}N_2O_4$	16,17-[3,1-(3-Carboxy-2-pyrazolino)]-5-pregnen-3β-ol-20-one	–	–	Group study	Mueller	JACS	76 (1954)	3686

$C_{23}H_{32}O_2$	2-t-Amyl-4-methoxy-2,3-dihydrophenyl duryl ketone	-	-	Group freq	Fuson	JACS	76 (1954)	5466
$C_{23}H_{32}O_2$	Bis-(2-hydroxy-3-t-butyl-5-methylphenyl) methane	2.75-3.1 μ	S,Sol	Spec, H bond	Coggeshall	JACS	72 (1950)	2836
$C_{23}H_{32}O_2$	Di-(4-hydroxy-2 or 3-methyl-5-t-butylphenyl) methane	2.5-3.4 μ	S,Sol	Freq	Ambelang	JACS	75 (1953)	947
$C_{23}H_{32}O_2$	1,5-Dimesitylpentane-1,2-diol	-	-	Band freq	Fuson	JACS	75 (1953)	5950
$C_{23}H_{32}O_3$	Δ^5-3-Acetoxyetiocholenol-17-ethynyl-17	2800-3700	-	Spec	Jones	CIC	2 (1950)	94
$C_{23}H_{32}O_3$	3-Ethylenedioxy-$\Delta^{5,16}$-pregnadien-20-one	-	Sol	Band freq	Sondheimer	JACS	77 (1955)	192
$C_{23}H_{32}O_3$	17-Ethynyl-Δ^5-androstane-3β,17β-diol acetate-3	700-1400	S	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{32}O_3$	Δ^5-17-Ethynylandrostane-diol-3β, 17-acetate-3	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		1684-1784	Sol	Band study	Jones	JACS	74 (1952)	80
		-	Sol	Spec, Freq	Jones	JACS	74 (1952)	2820
$C_{23}H_{32}O_3$	20-Ketoall-$\Delta^{8;14,16}$-pregnadienol-3β acetate	-	Sol	Group freq, Ident	Mancera	JCS	- (1952)	1021
$C_{23}H_{32}O_3$	dl-3-Keto-16,17-dihydroxy-$\Delta^{4,9(11)}$-10-epi-D-homoandrostadiene acetonide	2-12 μ	Sol	Spec	Woodward	JACS	74 (1952)	4223
$C_{23}H_{32}O_3$	dl-3-Keto-16,17-dihydroxy-$\Delta^{4,9(11)}$-D-homoandrostadiene acetonide	2-12 μ	Sol	Spec	Woodward	JACS	74 (1952)	4223
$C_{23}H_{32}O_3$	$\Delta^{3,5}$-Pregnadien-7-one-20β-ol acetate	-	S	Band freq	Romo	JOC	17 (1952)	1413

$C_{23}H_{32}O_3$	$\Delta^{?,?}$-Pregnadien-3,20-dione-20-ethylene ketal	-	S	Band freq	Bernstein	JACS	76 (1954)	5674
$C_{23}H_{32}O_3$	$\Delta^{4,17(20)}$-Pregnadien-20-ol-3-one 20-acetate	-	Sol	Freq	Djerassi	JACS	77 (1955)	3826
$C_{23}H_{32}O_3$	$\Delta^{4,17(20)}$-Pregnadienol-21-one-3 acetate	-	Sol	Freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{23}H_{32}O_3$	$\Delta^{5,16}$-Pregnadienol-3β-one-20 acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		1580-3100	Sol	Group study	Jones	JACS	72 (1950)	86
		-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
		700-1400	S	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{32}O_3$	$\Delta^{5,17(20)}$-Pregnadien-3β-ol-21-al acetate	-	Sol	Band freq	Sondheimer	JACS	75 (1953)	5930
$C_{23}H_{32}O_3$	$\Delta^{7,16}$-Pregnadien-3α-ol-20-one acetate	-	Sol	Group freq	Velasco	JOC	18 (1953)	92
$C_{23}H_{32}O_3$	Δ^{4}-17-Vinylandrostenol-17β-one-3 acetate	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{23}H_{32}O_3S$	Δ^{4}-Pregnene-3,20-dione-21-thiol acetate	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3700
$C_{23}H_{32}O_4$	3β-Acetoxyallopregn-8(9)-ene-11,20-dione	-	Sol	Group freq	Barton	JCS	- (1954)	747
$C_{23}H_{32}O_4$	3β-Acetoxy-Δ^{16}-allo-pregnene-12,20-dione	-	-	Group freq	Mueller	JACS	75 (1953)	4888
$C_{23}H_{32}O_4$	17aα-Acetoxy-17a-methyl Δ^{4}-D-homoandrostene-3,17-dione	-	Sol	Group freq	Turner	JACS	75 (1953)	3484
$C_{23}H_{32}O_4$	16α-Acetoxy-Δ^{4}-pregnene-3,20-dione	-	S	Band freq	Bernstein	JACS	76 (1954)	5674
		-	-	Group freq	Hirschmann	JOC	20 (1955)	572

$C_{23}H_{32}O_4$	2α-Acetoxyprogesterone	-	Sol	Band freq	Sondheimer	JACS	75 (1953)	4712
$C_{23}H_{32}O_4$	6β-Acetoxyprogesterone	-	Sol	Group freq	Amendolla	JCS	- (1954)	1226
$C_{23}H_{32}O_4$	19-Acetoxyprogesterone	-	Sol	Group freq	Barber	JOC	19 (1954)	1758
$C_{23}H_{32}O_4$	Δ^1-Allopregnenol-21-dione-3,20 acetate	-	Sol	Freq, Spec, Struct	Jones	JACS	74 (1952)	2820
		745-1269	Sol	Table	Jones	JACS	77 (1955)	651
		700-1400	Sol	Band study	Jones	JACS	78 (1956)	1152
$C_{23}H_{32}O_4$	$\Delta^{5,9(11)}$-Androstadiene-3,17-dione bisethylene ketal	-	S	Group freq	Bernstein	JOC	19 (1954)	44
$C_{23}H_{32}O_4$	$\Delta^{2,16}$-Androstadiene-3, 17-diol diacetate	700-1400	Sol	Spec, Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{32}O_4$	Δ^5-Androstenol-3β-one-17 acetoacetate	-	Sol	Freq	Jones	JACS	74 (1952)	5648
$C_{23}H_{32}O_4$	16aβ-Carboxy-16,17-cyclo-propano-3 -hydroxy-5-pregnen-20-one	-	-	Freq	Mueller	JACS	76 (1954)	3686
$C_{23}H_{32}O_4$	Deoxycorticosterone acetate	1550-1800	S	Spec, Freq	Meda	SA	13 (1958)	75
$C_{23}H_{32}O_4$	3β,17-Diacetoxy-5,16-androstadiene	-	-	Band study	Moffett	JACS	74 (1952)	2183
$C_{23}H_{32}O_4$	3β,14-Dihydroxy-$\Delta^{16(17),20(22)}$-cardadienolide	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{23}H_{32}O_4$	Δ^5-16α,17α-Epoxypregnenol 3β-one-20 acetate	-	Sol	Band freq, Spec	Jones	JACS	74 (1952)	2820
$C_{23}H_{32}O_4$	Δ^5-3-Ethylenedioxy-pregnene-11,20-dione	-	-	Band freq	Constantin	JACS	75 (1953)	1716
		-	-	Band freq	John	JACS	76 (1954)	5026

$C_{23}H_{32}O_4$	dl-3-Ethylenedioxy-13α-pregn-5-ene-11,20-dione	-	S	Freq	Arth	JACS	77 (1955)	3834
$C_{23}H_{32}O_4$	dl-3-Ethylenedioxy-14β-pregn-5-ene-11,20-dione	-	S, Sol	Freq	Arth	JACS	77 (1955)	3834
$C_{23}H_{32}O_4$	dl-Δ^5 3-Ethylenedioxy-17α-pregnene-11,20-dione	-	-	Band freq	Johns	JACS	76 (1954)	5026
$C_{23}H_{32}O_4$	dl-3-Ethylenedioxy-5,16-pregnadiene-11β-ol-20-one	-	S	Freq	Arth	JACS	77 (1955)	3834
$C_{23}H_{32}O_4$	Methyl 3,11-diketobis-norchol-4-enate	-	S	Group freq	Bladon	JCS	- (1953)	2921
		-	-	Struct	Meister	JACS	76 (1954)	5679
$C_{23}H_{32}O_4$	$\Delta^{4,9(11)}$-Pregnadiene-3,20-dione-21-al dimethyl acetal	-	S	Group freq	Taub	JACS	76 (1954)	4094
$C_{23}H_{32}O_4$	Δ^4-Pregnenol-11α-dione-3,20-acetate	-	-	Ident	Paterson	JACS	74 (1952)	5933
$C_{23}H_{32}O_4$	Δ^4-Pregnenol-17β-dione 3,20-acetate	-	Sol	Band freq, Struct	Jones	JACS	74 (1952)	2820
$C_{23}H_{32}O_4$	Δ^4-Pregnenol-21-dione 3,20-acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		1580-3100	Sol	Group study	Jones	JACS	72 (1950)	86
		1700-1800	-	Spec	Jones	CIC	2 (1950)	94
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
		3500-3700	Sol	Spec, Band freq, Struct	Jones	JACS	74 (1952)	2820
		-	-	Group freq	Djerassi	JACS	75 (1953)	3700
		-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{23}H_{32}O_4$	Δ^{16}-Pregnen-3α-ol-11,20 dione acetate	-	Sol	Band freq	Rosenkrantz	JACS	75 (1953)	4430
$C_{23}H_{32}O_4$	Δ^4-Pregnen-3,20-dione -16α,17α-oxide-20-ethylene ketal	-	S	Band freq	Bernstein	JACS	76 (1954)	5674

$C_{23}H_{32}O_4$	16,17-Oxido-Δ^4-pregnen-20β-ol-3-one acetate	1600-1800	Sol	Band freq	Fuson	JACS	76 (1954)	2526
$C_{23}H_{32}O_4$	16α,17α-Oxido-Δ^5-pregnene-3β,21-diol-20-one-3-monoacetate	-	Sol	Band freq	Djerassi	JACS	76 (1954)	1722
$C_{23}H_{32}O_4S$	Δ^4-Pregnene-3,20-dione-17α-ol-21-thiol-21-acetate	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3700
$C_{23}H_{32}O_5$	3β-Acetoxy-5α-hydroxy-allo-9β-pregn-7-ene-11,20-dione	-	S	Group freq	Bladon	JCS	- (1953)	2921
$C_{23}H_{32}O_5$	17β-Acetoxyandrost-5-ene-3,16-dione-3-ethylene ketal	-	Sol	Band study	Bellamy	JCS	- (1957)	861
$C_{23}H_{32}O_5$	11α-Acetoxy-17α-hydroxy-Δ^4-pregnene-3,20-dione	-	-	Struct	Meister	JACS	75 (1953)	416
$C_{23}H_{32}O_5$	3β-Acetoxy-13α-hydroxy 12,13-seco-16-allopregnen-20-one-12-carboxylate 12,13-lactone	-	Sol	Band freq	Rochman	JACS	77 (1955)	2228
$C_{23}H_{32}O_5$	17aβ-Acetoxymethyl-D-homo-homo-Δ^4-androsten-17aα-ol-3,17-dione	-	Sol	Band freq	Batres	JACS	76 (1954)	5171
$C_{23}H_{32}O_5$	21-Acetoxy-4-pregnen-16α-ol-3,20-dione	-	-	Struct	Cole	JOC	19 (1954)	131
$C_{23}H_{32}O_5$	Andrenosterone diethylene ketal	-	S	Group freq	Bernstein	JACS	75 (1953)	1481
$C_{23}H_{32}O_5$	$\Delta^{8(9)}$-Allopregnene-7,20-dione-3β,11α-diol-3-monoacetate	- -	Sol Sol	Band study Freq	Djerassi Djerassi	JACS JACS	73 (1951) 74 (1952)	4496 3321

$C_{23}H_{32}O_5$	Δ^5-Androsten-17β-ol-3,11-dione acetate 3-ethylene ketal	-	S	Group freq	Bernstein	JOC	18 (1953)	1166
$C_{23}H_{32}O_5$	Cannogenin	-	-	Spec	Golab	HCA	42 (1959)	2418
$C_{23}H_{32}O_5$	3β,6β-Diacetoxy-Δ^4-androsten-17-one	-	Sol	Group freq	Amendolla	JCS	- (1954)	1226
$C_{23}H_{32}O_5$	3β,17β-Diacetoxy androst-5-en-16-one	-	Sol	Group study	Bellamy	JCS	- (1957)	861
$C_{23}H_{32}O_5$	6β,17β-Diacetoxy-Δ^4-androsten-3-one	-	-	Group freq	Eppstein	JACS	76 (1954)	3174
$C_{23}H_{32}O_5$	11α,17β-Diacetoxy-Δ^4-androsten-3-one	-	S	Group freq	Bernstein	JOC	18 (1953)	1166
		-	-	Group freq	Eppstein	JACS	76 (1954)	3174
$C_{23}H_{32}O_5$	11α,21-Dihydroxy-4-pregnene-3,20-dione acetate-21	-	-	Ident	Eppstein	JACS	75 (1953)	408
$C_{23}H_{32}O_5$	21,21-Dimethoxy-Δ^4-pregnene-3,11,20-trione	-	S	Ident	Mattox	JACS	74 (1952)	4340
		-	S	Group freq	Gould	JACS	75 (1953)	3593
$C_{23}H_{32}O_5$	2β,4b-Dimethyl-7-ethyl-enedioxy-2-acetonyl-1β formylmethyl-1,2,3,4,4aα, 4b,5,6,7,8,10,10aβ, dodecahydrophenanthrene-4-one	-	S	Band freq	Poos	JACS	77 (1955)	1026
$C_{23}H_{32}O_5$	6β-Hydroxydeoxycortico-sterone 21-acetate	-	Sol	Group freq	Amendolla	JCS	- (1954)	1226
		-	Sol	Band freq	Romo	JOC	19 (1954)	1509
$C_{23}H_{32}O_5$	8β-(9α)-X-Hydroxy-desoxycorticosterone 21-acetate	-	Sol	Group freq	Stone	JACS	77 (1955)	3926
$C_{23}H_{32}O_5$	2α-Hydroxytestosterone diacetate	-	Sol	Band freq	Sondheimer	JACS	75 (1953)	4712
		-	-	Ident	Clarke	JACS	77 (1955)	661
$C_{23}H_{32}O_5$	2β-Hydroxytestosterone diacetate	-	Sol	Band freq	Sondheimer	JACS	75 (1953)	4712
		-	-	Ident	Clarke	JACS	77 (1955)	661

$C_{23}H_{32}O_5$	6β-Hydroxytestosterone	-	Sol	Group freq	Amendolla	JCS	- (1954)	1226
	6,17-diacetate	-	Sol	Ident	Romo	JOC	19 (1954)	1509
$C_{23}H_{32}O_5$	9α,11α-Oxidoallopregnane	-	Sol	Freq	Djerassi	JACS	73 (1951)	4496
	7,20-dione-3β-ol acetate	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3505
$C_{23}H_{32}O_5$	16α,17α-Oxidoallopregnane -11α-ol-3,20-dione acetate	-	-	Band study	Romo	JACS	75 (1953)	1277
$C_{23}H_{32}O_5$	$\Delta^{4,16}$-Pregnadiene-11β,21-diol-3,20-dione-20 ethylene ketal	-	S	Band freq	Allen	JACS	77 (1955)	1028
$C_{23}H_{32}O_5$	Pregnanol-21-trione-3,11,	-	Sol	Assign	Jones	JACS	70 (1948)	2024
	20 acetate	1700	Sol	Freq, Struct	Jones	JACS	71 (1949)	241
$C_{23}H_{32}O_5$	Δ^4- Pregnenediol-11β,21-dione-3,20-acetate-21	-	Sol	Freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{23}H_{32}O_6$	3β-Acetoxy-13α-hydroxy-16α,17α-epoxy-12-carboxy -12,13-secoallopregnan-20-one-12,13-lactone	-	-	Ident	Rochman	JACS	77 (1955)	2228
$C_{23}H_{32}O_6$	17aβ-Acetoxymethyl-D-homo-Δ^4-androstene 11β,17aα-diol-3,17-dione	-	Sol	Ident	Batres	JACS	76 (1954)	5171
$C_{23}H_{32}O_6$	Allopregnane-3,11,20-trione-17α,21-diol-21-acetate	-	-	Spec, Struct	Oliveto	JACS	74 (1952)	2248
		-	-	Spec, Ident	Pataki	JACS	74 (1952)	5615
		-	-	Band study	Romo	JACS	75 (1953)	1277
		2.5-16μ	S,Sol	Spec, Freq	Dickson	JCS	- (1955)	443
		950-1350	S.Sol	Band study	Rosenkrantz	AC	28 (1956)	31
$C_{23}H_{32}O_6$	Dihydrocortisone acetate	-	-	Ident	Holysz	JACS	75 (1953)	4432
		-	-	Purity	Hanze	JACS	76 (1954)	3179
		-	-	Ident	Oliveto	JACS	76 (1954)	6113
$C_{23}H_{32}O_6$	11β,17α-Dihydroxypregnane-3,20-dione-11,17-diformate	-	-	Group freq	Oliveto	JACS	77 (1955)	3564

$C_{23}H_{32}O_6$	3,12-Diketo-7α-acetoxy-etiocholanic acid methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{23}H_{32}O_6$	17α-Hydroxycorticosterone -17-acetate	-	-	Ident	Fried	JACS	75 (1953)	2273
		-	-	Ident	Levin	JACS	75 (1953)	502
$C_{23}H_{32}O_6$	17α-Hydroxycorticosterone -21-acetate	-	-	Ident	Barkley	JACS	76 (1954)	5017
		-	-	Ident	Oliveto	JACS	77 (1955)	2224
		-	-	Ident	Oliveto	JACS	77 (1955)	3564
$C_{23}H_{32}O_6$	Methyl 3β-acetoxy-11:18-epoxy-18-keto-5α-etianate	2-12 μ	Sol	Spec	Simpson	HCA	37 (1954)	1200
$C_{23}H_{32}O_6$	Pregnan-17α,21-diol-3,11, 20-trione-21-acetate	-	Sol	Spec, Struct, Freq	Jones	JACS	74 (1952)	2820
		-	-	Spec	Oliveto	JACS	74 (1952)	2248
		-	-	Ident	Graber	JACS	76 (1954)	4474
		950-1350	S,Sol	Band study	Rosenkrantz	AC	28 (1956)	31
$C_{23}H_{32}O_6$	Δ^4-Pregnene-11α,17α,21-triol-3,20-dione 11-acetate	-	-	Confirmation of reaction	Oliveto	JACS	75 (1953)	3651
$C_{23}H_{32}O_6$	Δ^4-Pregnene-11β,17α,21-triol-3,20-dione 11-acetate	-	-	Confirmation of reaction	Oliveto	JACS	75 (1953)	5486
$C_{23}H_{32}O_6$	Δ^4-Pregnene-11β,17α,21-triol-3,20-dione 21-acetate	-	Sol	Freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{23}H_{32}O_6$	Δ^4-Pregnene-11α,17α,21-triol-3,20-dione 21-monoacetate	-	-	Band study	Romo	JACS	75 (1953)	1277
		-	-	Ident	Peterson	JACS	75 (1953)	412
$C_{23}H_{32}O_6$	3β,5,14-Trihydroxy-19-oxo-$\Delta^{20(22)}$-cardenolide	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{23}H_{32}O_7$	21-Acetoxy-5α,17α-dihydroxyallopregnane 3,11,20-trione	-	S	Group freq	Bladon	JCS	- (1954)	125

$C_{23}H_{32}O_7$	Methyl alloquassinolate	-	S	Freq	Hanson	JCS	- (1954)	4238
$C_{23}H_{32}O_8$	Allopregnane-3,11,20-trione-5α,6β,17α,21-tetrol acetate-21	-	S	Band freq	Sondheimer	JACS	76 (1954)	5020
$C_{23}H_{32}O_{11}$	2-Methyl-5-(1'-tetra-o-acetylglucopyranosyloxy-ethylidene)cyclohexanone	1377-1770	S	I	Briggs	JCS	- (1954)	4182
$C_{23}H_{33}BrO_4$	12α-Bromopregnanol-3α-dione-11,20 acetate	-	Sol	Group freq	Jones	JACS	74 (1952)	2828
$C_{23}H_{33}BrO_5$	16β-Bromo-3β-acetoxy-17α-hydroxyallopregnane-12,20-dione	-	-	Freq	Mueller	JACS	75 (1953)	4888
$C_{23}H_{33}BrO_5$	16-Bromoallopregnane-3β,17α-diol-12,20-dione-3-acetate	1700	Sol	Band study, Group freq	Rothman	JACS	77 (1955)	2229
$C_{23}H_{33}BrO_5$	21-Bromoallopregnane 3β,17α-diol-12,20-dione-3-acetate	1700	Sol	Band study, Group freq	Rothman	JACS	77 (1955)	2229
$C_{23}H_{33}BrO_5$	12α-Bromo-11-keto-3α-acetoxyetiocholanic acid methyl ester	-	Sol	Group freq	Jones	JACS	74 (1952)	2828
$C_{23}H_{33}ClO_5$	4-Chloro-17α-hydroxy-pregnane-3,11,20-trione 3-ethylene ketal	-	-	Struct	Levin	JACS	76 (1954)	546
$C_{23}H_{33}FO_6$	Allodihydro-9α-fluoro-hydrocortisone acetate	-	S,Sol	Group freq	Hirschmann	JACS	77 (1955)	3166
$C_{23}H_{33}NO_6$	Dimethyl oxoatisine dicarboxylate	-	-	Group freq	Pelletier	JACS	76 (1954)	4496
$C_{23}H_{33}N_5O_8$	Carbobenzoxy tetra-L-alanyl-L-alanine	-	S	Struct	Zahn	A	636 (1960)	132
$C_{23}H_{34}$	1-Tridecylnaphthalene	690-3248	L	Table, I	Anderson	JCS	- (1953)	443

$C_{23}H_{34}$	2-Tridecyclonaphthalene	720-3239	L	Table, I	Anderson	JCS	- (1953)	443
$C_{23}H_{34}N_2O.HClO_4$	d-6-(p-Methoxybenzyl) sparteine perchlorate	1038-1619	S	Table	Leonard	JACS	77 (1955)	1552
$C_{23}H_{24}O_2$	3-(Pentadecatrienyl-8',11',13')-veratrole	-	-	Struct	Sunthankar	JACS	76 (1954)	5070
$C_{23}H_{34}O_3$	20α-Acetoxy-Δ^4-pregnenone-3	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{23}H_{34}O_3$	$\Delta^{9(11)}$-Allopregnen-3β-20-one acetate	920-1292	Sol	Table	Jones	JACS	77 (1955)	651
$C_{23}H_{34}O_3$	Δ^{16}-Allopregnenol-3β-one 20-acetate	-	Sol	Group freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{23}H_{34}O_3$	3-Ethynylandrostan-3ξ, 17β-diol-17-acetate	3100-3400	S	Ident, Freq	Filler	CIL	- (1957)	1322
$C_{23}H_{34}O_3$	20-Ketoallo-$\Delta^{8;14}$-pregnenol-3β acetate	-	Sol	Group freq	Mancera	JCS	- (1952)	1021
$C_{23}H_{34}O_3$	$\Delta^{5,16}$-Pregnadien-3β-ol-20-one ethylene ketal	-	S	Band freq	Bernstein	JACS	76 (1954)	5674
$C_{23}H_{34}O_3$	Δ^4-Pregnen-20β-ol-3-one-acetate	-	Sol	Band freq	Sondheimer	JACS	75 (1953)	5930
		1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{23}H_{34}O_3$	Δ^5-Pregnenol-3β-one-20 acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
		1300-1500	Sol	Spec, Freq	Jones	JACS	74 (1952)	5662
		940-1289	Sol	Table	Jones	JACS	77 (1955)	651
		700-1400	Sol	Band study	Jones	JACS	78 (1956)	1152
$C_{23}H_{34}O_3$	Δ^5-17-Isopregnenol-3β-one-20 acetate	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{23}H_{34}O_3$	Δ^7-Pregnen-3α-ol-20-one acetate	-	Sol	Group freq	Velasco	JOC	18 (1953)	92

$C_{23}H_{34}O_3$	Δ^{11}-Pregnenol-3α-one-20 acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{23}H_{34}O_3$	Δ^{16}-Pregnenol-3α-one-20 acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		1580-3100	Sol	Spec	Jones	JACS	72 (1950)	86
$C_{23}H_{34}O_3$	Progesterone 3-monocycloethylene ketal	-	S,Sol	Freq	Sondheimer	JACS	77 (1955)	192
$C_{23}H_{34}O_3 \cdot H_2O$	17α,17aα-Epoxy-3β-acetoxy-17a-methyl-D-homoandrost-5-ene monohydrate	-	S	Group freq	Cremlyn	JCS	- (1953)	1847
$C_{23}H_{34}O_3S$	Allopregnane-3,20-dione-21-thiol acetate	-	Sol	Group freq	Djerassi	JACS	75 (1953)	3700
$C_{23}H_{34}O_3S$	Δ^5-Androsten-3β-ol-17-one acetate ethylene-hemithio ketal	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3704
$C_{23}H_{34}O_4$	3β-Acetoxyallopregnane-11,20-dione	-	Sol	Freq	Stork	JACS	73 (1951)	3546
		-	Sol	Group freq	Cameron	JCS	- (1953)	3864
		-	Sol	Band freq	Djerassi	JACS	75 (1953)	3505
		-	S,Sol	Group freq	Dickson	JCS	- (1955)	443
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{23}H_{34}O_4$	3β-Acetoxy-9β-allopregnane-11,20-dione	-	Sol	Group freq	Cameron	JCS	- (1953)	3864
$C_{23}H_{34}O_4$	3β-Acetoxyallopregnane-12,20-dione	-	-	Group freq	Mueller	JACS	75 (1953)	4888
		-	-	Band study	Rothman	JACS	77 (1955)	2229
$C_{23}H_{34}O_4$	Δ^5-3β-Acetoxyetiocholenic acid methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{23}H_{34}O_4$	Δ^5-Allopregnenediol-3β,17α-one-20-acetate-3	-	Sol	Band freq, Spec	Jones	JACS	74 (1952)	2820
$C_{23}H_{34}O_4$	Allopregnan-21-ol-3,20-dione acetate	-	Sol	Band freq, Spec	Jones	JACS	74 (1952)	2820
		-	-	Ident	Clarke	JACS	77 (1955)	661
		700-1400	Sol	Band study	Jones	JACS	78 (1956)	1152

		950–1350	S,Sol	Band study	Rosenkrantz	AC	28 (1956)	31
$C_{23}H_{34}O_4$	Δ^5-Androstenediol-3β,17α diacetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		1580–3100	Sol	I	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{23}H_{34}O_4$	Δ^5-Androstene-3β,17β-diol diacetate	700–1400	Sol	Band study	Jones	JACS	78 (1956)	1152
$C_{23}H_{34}O_4$	Δ^{16}-Androstene-3β,17-diol diacetate	700–1400	Sol	Band study	Jones	JACS	78 (1956)	1152
$C_{23}H_{34}O_4$	Δ^4-Androstene-3,17-dione -3,17-bisdioxolane	-	-	Group freq	Herzog	JACS	75 (1953)	4425
$C_{23}H_{34}O_4$	3,5-Cyclo-6α,17β-androstanediol diacetate	3-12 μ	Sol	Spec	Wagner	JOC	17 (1952)	529
$C_{23}H_{34}O_4$	3,5-Cyclo-6β,17β-androstanediol diacetate	3-12 μ	Sol	Spec	Wagner	JOC	17 (1952)	529
$C_{23}H_{34}O_4$	3β,17β-Diacetoxy-Δ^5-androstene	2.5-15 μ	Sol	Spec	Hirschmann	JACS	74 (1952)	5357
$C_{23}H_{34}O_4$	Digitonigenin	-	-	Spec	Golab	HCA	42 (1959)	2418
$C_{23}H_{34}O_4$	3β,14-Dihydroxy-$\Delta^{20(22)}$ cardenolide	1000–1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{23}H_{34}O_4$	16α,17α-Epoxyallopregnanol 3β-one-20 acetate	-	Sol	Band freq	Jones	JACS	74 (1952)	2820
$C_{23}H_{34}O_4$	3α,9α-Epoxy-11-ketobisnorcholanic acid methyl ester	1712	Sol	Freq, Struct	Jones	JACS	71 (1949)	241
$C_{23}H_{34}O_4$	dl-3-Ethylenedioxy-5,16-pregnadiene-11β,20ξ-diol	-	S	Freq	Arth	JACS	77 (1955)	3834
$C_{23}H_{34}O_4$	dl-Δ^5-3-Ethylenedioxy-pregnene-11β-ol-20-one	-	-	Band freq	Johns	JACS	76 (1954)	5026

$C_{23}H_{34}O_4$	dl-Δ^5-3-Ethylenedioxy-17-n-pregnene-11α-ol-20-one	-	-	Band freq	Johns	JACS	76 (1954)	5026
$C_{23}H_{34}O_4$	dl-Δ^5-3-Ethylenedioxy-17-isopregnene-11α-ol-20-one	-	-	Band freq	Johns	JACS	76 (1954)	5026
$C_{23}H_{34}O_4$	Δ^5-3-Ethylenedioxy-pregnene-20β-ol-11-one	-	-	Band freq	Constantin	JACS	75 (1953)	1716
$C_{23}H_{34}O_4$	3β-Hydroxy-16α-acetoxy-Δ^5-pregnen-20-one	-	S,Sol	Group freq	Hirschmann	JOC	20 (1955)	572
$C_{23}H_{34}O_4$	$\Delta^{9(11)}$-3α-Hydroxy-12-ketonorcholenic acid	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{23}H_{34}O_4$	Methyl 3α-Acetoxy-$\Delta^{9(11)}$ etiocholenate	25-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		2-12 μ	Sol	Spec	Woodward	JACS	74 (1952)	4223
$C_{23}H_{34}O_4$	17α-Methyl-3β-acetoxy 17aβ-hydroxy-Δ^5-D-homoandrostenone-17	2.5-15 μ	S	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{23}H_{34}O_4$	Methyl-3,11-diketobis-norallocholanate	-	-	Struct	Meister	JACS	76 (1954)	5679
$C_{23}H_{34}O_4$	Methyl-3,11-diketobis-norcholanate	-	-	Distinction from allo	Meister	JACS	76 (1954)	5679
$C_{23}H_{34}O_4$	Pregnanol-3α-dione-11, 20 acetate	1700	Sol	Freq	Jones	JACS	71 (1949)	241
		-	Sol	Band freq, Spec	Jones	JACS	74 (1952)	2820
		-	Sol	Band study	Mancera	JACS	75 (1953)	1286
		-	Sol	Band freq	Rosenkrantz	JACS	75 (1953)	4430
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{23}H_{34}O_4$	Pregnanol-3β-dione-16, 20 acetate	-	Sol	Band freq, Spec	Jones	JACS	74 (1952)	2820
$C_{23}H_{34}O_4$	Pregnan-11α-ol-3,20-dione acetate	-	Sol	Band study	Mancera	JACS	75 (1953)	1286

$C_{23}H_{34}O_4$	Pregnanol-21-dione-3, 20 acetate	-	Sol	Band freq, Spec	Jones	JACS	74 (1952)	2820
		-	-	Ident	Jones	JACS	77 (1955)	651
		767-1336	Sol	Table	Clarke	JACS	77 (1955)	661
		950-1350	S,Sol	Band study	Rosenkrantz	AC	28 (1956)	31
$C_{23}H_{34}O_4$	Δ^4-Pregnen-16α-ol-3,20 dione-20-ethylene ketal	-	S	Band freq	Bernstein	JACS	76 (1954)	5674
$C_{23}H_{34}O_4$	Δ^5-Pregnenediol-3β,17α-one-20-acetate-3	2.5-15 μ	S	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{23}H_{34}O_4$	Δ^5-Pregnenediol-3β,21-one-20-acetate-21	-	-	Assign	Jones	JACS	70 (1948)	2024
		-	Sol	Band freq, Spec	Jones	JACS	74 (1952)	2820
		2.5-3.5 μ	Sol	Group freq	Kabasakalian	AC	31 (1959)	375
$C_{23}H_{34}O_4S$	Pregnane-3,20-dione-17α-ol-21-thiol 21-acetate	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3700
$C_{23}H_{24}O_5$	3β-Acetoxy-5α-hydroxy-allopregnane-11,20-dione	-	S	Group freq	Bladon	JCS	- (1953)	2921
		-	S	Group freq, Ident	Bladon	JCS	- (1954)	125
$C_{23}H_{34}O_5$	3β-Acetoxy-5α-hydroxy-allo-9β-pregnane-11, 20-dione	-	S	Group freq	Bladon	JCS	- (1953)	2921
$C_{23}H_{34}O_5$	3β-Acetoxy-17α-hydroxy-allopregnane-12,20-dione	-	-	Band freq	Mueller	JACS	75 (1953)	4888
		1700	Sol	Spec, Group freq	Rothman	JACS	77 (1955)	2229
$C_{23}H_{34}O_5$	21-Acetoxy-Δ^4-pregnene-3β,6β-diol-20-one	-	Sol	Group freq	Amendolla	JCS	- (1954)	1226
$C_{23}H_{34}O_5$	Allopregnane-3β,17α-diol-11,20-dione-3-acetate	-	S	Group freq	Bladon	JCS	- (1954)	125
		770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{23}H_{34}O_5$	Allopregnane-7,20-dione 3β,11α-diol-3-acetate	-	S	Freq	Djerassi	JACS	73 (1951)	4496
		-	S	Freq	Djerassi	JACS	74 (1952)	3321
$C_{23}H_{34}O_5$	Allopregnane-11α,17α-diol-3,20-dione-11-acetate	-	-	Band study	Romo	JACS	75 (1953)	1277

$C_{23}H_{34}O_5$	Allopregnane-11α,21-diol-3,20-dione-11-monoacetate	-	Sol	Band freq	Sondheimer	JACS	75 (1953)	2601
$C_{23}H_{34}O_5$	Allopregnane-11β,21-diol-3,20-dione-21-acetate	950-1350	S,Sol	Band study	Rosenkrantz	AC	28 (1956)	31
$C_{23}H_{34}O_5$	Δ^5-Androsten-11α-ol-3,17-dione-3,17-diethylene ketal	-	S	Group freq	Bernstein	JACS	75 (1953)	1481
		-	S	Group freq	Bernstein	JOC	18 (1953)	1166
		-	S	Ident	Bernstein	JOC	19 (1954)	41
$C_{23}H_{34}O_5$	Δ^5-Androsten-11β-ol-3,17-dione-3,17-diethylene ketal	-	S	Group freq	Bernstein	JOC	18 (1953)	166
$C_{23}H_{34}O_5$	dl-3β,11β-Diacetoxy-androstan-17-one	-	-	Ident	Johnson	JACS	76 (1954)	3353
$C_{23}H_{34}O_5$	3β,16α-Diacetoxyandro-stan-17-one	-	-	Ident, Band freq	Leeds	JACS	76 (1954)	2943
$C_{23}H_{34}O_5$	3β,17α-Diacetoxyandro-stan-16-one	-	-	Band freq	Leeds	JACS	76 (1954)	2943
$C_{23}H_{34}O_5$	6β,17β-Diacetoxyandro-stan-3-one	-	Sol	Band freq	Rosenkrantz	JACS	76 (1954)	5024
$C_{23}H_{34}O_5$	3β,17β-Diacetoxy-16α,17α-epoxyandrostane	-	-	Band freq	Leeds	JACS	76 (1954)	2943
$C_{23}H_{34}O_5$	3,6-Diethylenedioxy-androstan-17-one	-	Sol	Band freq	Rosenkrantz	JACS	76 (1954)	5024
$C_{23}H_{34}O_5$	21,21-Dimethoxypregnan-3,11,20-trione	-	S	Group freq, Assign	Gould	JACS	75 (1953)	3593
$C_{23}H_{34}O_5$	Etiocholanediol-3α,17α-one-11-diacetate	1712	Sol	Freq, Struct	Jones	JACS	71 (1949)	241
$C_{23}H_{34}O_5$	Etiocholanediol-3α,17β-one-11 diacetate	2.5-13 μ	Sol	Freq, Struct	Rosenkrantz	JACS	75 (1953)	903
		-	Sol	Freq	Page	JCS	- (1955)	2017
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237

$C_{23}H_{34}O_5$	Comphogenin	600–4000	Sol	Spec	Watson	AJC	10 (1957)	79
$C_{23}H_{34}O_5$	Methyl 3α-acetoxy-11-ketoetiocholanate	2–12 μ	Sol	Group freq	Woodward	JACS	74 (1952)	4223
$C_{23}H_{34}O_5$	Methyl 5α-hydroxy-3,11-diketobisnorallo-cholanate	-	S	Group freq	Bladon	JCS	- (1953)	2921
$C_{23}H_{34}O_5$	Pregnanediol-3α,21-dione--11,20-acetate-21	- 1700	- Sol	Assign Freq, Struct	Jones Jones	JACS JACS	70 (1948) 71 (1949)	2024 241
$C_{23}H_{34}O_5$	Pregnane-5α,21-diol -3,20-dione-21-acetate	-	S	Band freq	Bernstein	JACS	77 (1955)	2233
$C_{23}H_{34}O_5$	Pregnane-11α,21-diol-3, 20-dione 11-monoacetate	-	Sol	Freq	Sondheimer	JACS	75 (1953)	2601
$C_{23}H_{34}O_5$	Pregnanediol-12β-21-dione-3,20-acetate-21	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{23}H_{34}O_5$	Pregnane-17α,21-Diol-3,20-dione-21-acetate	950–1350	S,Sol	Band study	Rosenkrantz	AC	28 (1956)	31
$C_{23}H_{34}O_5$	Δ^4-Pregnen-11β-ol-3,20-dione-21-al dimethyl -acetal	-	Sol	Group freq	Taub	JACS	76 (1954)	4094
$C_{23}H_{34}O_5$	Δ^4-Pregnenetriol-17α,20, 21-one-3-acetate-21	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{23}H_{34}O_6$	3α-Acetoxy-21,21-di--hydroxy-17α-pregnane-11,20-dione	-	S	Spec	Mattox	JACS	74 (1952)	4340
$C_{23}H_{34}O_6$	3β-Acetoxy-9α,17α-dihydroxyallopregnane-11,20-dione	-	S	Group freq	Barton	JCS	- (1954)	747
$C_{23}H_{34}O_6$	21-Acetoxypregnan-3α,17α-diol-11,20-dione	-	-	Spec	Hershberg	JACS	74 (1952)	3849

$C_{23}H_{34}O_6$	Allopregnane-11α,17α,21-triol-3,20-dione 21-monoacetate	-	-	Band study	Romo	JACS	75 (1953)	1277
$C_{23}H_{34}O_6$	3β,6β-Diacetoxyandrostan-5α-ol-17-one	-	Sol	Group freq	Amendolla	JCS	- (1954)	1226
$C_{23}H_{34}O_6$	Dimethyl 3β-acetoxy-Δ^5-etiobilienate	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{23}H_{34}O_6$	Methyl 3β-Acetoxy-9α-hydroxy-11-keto-etiocholanate	-	S	Band freq	Hirschmann	JACS	75 (1953)	2361
$C_{23}H_{34}O_6$	Pregnane-3β,17α,21-triol-11,20-dione-21-acetate	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{23}H_{34}O_6$	5α-Pregnane-3β,17α,21-triol-11,20-dione 21-acetate	- 770-3700	- S	Group freq Freq, I	Chamberlin Rosenkrantz	JACS JACS	77 (1955) 77 (1955)	1221 2237
$C_{23}H_{34}O_6$	Δ^4-Pregnene-11α,17α,21-triol-3,20-dione 20-ethylene ketal	-	S	Band study	Sondheimer	JACS	75 (1953)	1282
$C_{23}H_{34}O_6$	11β,17α,21-Trihydroxy-pregnane-3,20-dione 21-acetate	- - 950-1350	- - S,Sol	Ident Ident Band study	Oliveto Oliveto Rosenkrantz	JACS JACS AC	77 (1955) 77 (1955) 28 (1956)	3564 2224 31
$C_{23}H_{34}O_6$	3α,11β,17α-Trihydroxy-pregnan-20-one-11,17-diformate	-	-	Reference for comparison	Oliveto	JACS	77 (1955)	3564
$C_{23}H_{34}O_7$	Allopregnane-3,20-dione-5α,6β,17α,21-tetrol 21-monoacetate	-	S	Band freq	Sondheimer	JACS	76 (1954)	5020
$C_{23}H_{34}O_7$	Pregnane-5α,11β,17α,21-tetrol-3,20-dione 21-acetate	1245-3530	S	Band freq	Bernstein	JACS	77 (1955)	2233
$C_{23}H_{34}O_8$	Ouabagenin	2-16 μ	-	Spec, Ident	Djerassi	JOC	19 (1954)	1351

$C_{23}H_{35}BrO_4$	16-Bromoallopregnane -3β,17α-diol-20-one 3-acetate	1700	Sol	Spec, Group freq	Rothman	JACS	77 (1955)	2229
$C_{23}H_{35}BrO_4$	21-Bromopregnanediol -3α,17α-one-20-acetate-3	-	Sol	Band freq, Struct, Spec	Jones	JACS	74 (1952)	2820
		-	Sol	Band freq, Spec	Jones	JACS	74 (1952)	2828
$C_{23}H_{35}BrO_5$	4-Bromopregnane-11β,17α-diol-3,20-dione-3-ethylene ketal	-	-	Ident	Oliveto	JACS	77 (1955)	2224
$C_{23}H_{35}ClO_2$	3β-Chloro-20α-acetoxy-Δ^5 pregnene	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{23}H_{35}NO_6$	Dimethyl oxoisoatisine dicarboxylate	-	-	Group freq	Pelletier	JACS	76 (1954)	4496
$C_{23}H_{36}O_2$	20α-Acetoxy-Δ^5-pregnene	-	S,Sol	Struct	Daus	JACS	75 (1953)	3840
$C_{23}H_{36}O_2$	Isolanostenyl acetate	11-14 μ	Sol	Spec	Barton	JCS	- (1951)	3147
$C_{23}H_{36}O_2$	Δ^5-20-Isonorcholenol 3β-one-22	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{23}H_{36}O_2$	3-(Pentadecadienyl-8',11') -veratrole	-	-	Struct	Sunthankar	JACS	76 (1954)	5070
$C_{23}H_{36}O_2$	Δ^5-Pregnen-3β-ol acetate	700-1400	Sol	Spec, Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{36}O_3$	Allopregnanol-3α-one-20 acetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		1195-1280	Sol	I	Jones	JACS	73 (1951)	3215
		700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{36}O_3$	Allopregnanol-3β-one 20 acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		1190-1280	Sol	I	Jones	JACS	73 (1951)	3215
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
		2-12 μ	Sol	Ident	Woodward	JACS	74 (1952)	4223
		915-1290	Sol	Table	Jones	JACS	77 (1955)	651
		-	-	Ident	Ramirez	JACS	77 (1955)	134

		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{36}O_3$	Allopregnanol-20α-one-3 acetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
		700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152
		950-1350	S,Sol	Band study	Rosenkrantz	AC	28 (1956)	31
$C_{23}H_{36}O_3$	Allopregnane-20β-ol-3-one acetate	700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{36}O_3$	Allopregnan-21-ol-20-one acetate	-	-	Ident	Clarke	JACS	77 (1955)	661
		700-1400	Sol	Spec, Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{36}O_3$	Enol-20-ethylether of 3α-hydroxypregnane-11,20-dione	-	Sol	Band freq, Struct	Bellean	JACS	74 (1952)	2816
$C_{23}H_{36}O_3$	3-Ethylenedioxy-Δ^5-pregnen-20β-ol	-	Sol	Band study	Sondheimer	JACS	77 (1955)	192
$C_{23}H_{36}O_3$	17-Ethyletiojervane-3β-ol-11-one acetate	-	S	Group freq	Fried	JACS	75 (1953)	4929
$C_{23}H_{36}O_3$	3β-Hydroxy-20α-acetoxy-Δ^5-pregnene	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{23}H_{36}O_3$	Δ^{11}-3α-Hydroxybisnor-cholenic acid methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{23}H_{36}O_3$	3β-Hydroxy-17aβ-methyl-D-homoandrostan-17-one acetate	-	Sol	Group freq	Ramirez	JACS	77 (1955)	134
$C_{23}H_{36}O_3$	17-Isopregnan-3α-ol-20-one acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
		700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152

$C_{23}H_{36}O_3$	3β-Methoxy-16β,17β-dihydroxy-Δ^5-androstene-16,17-acetonide	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{23}H_{36}O_3$	Pregnanol-3α-one-20 acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		1190-1270	Sol	Band study, I	Jones	JACS	73 (1951)	3215
		-	Sol	Band study	Mancera	JACS	75 (1953)	1286
		946-1289	Sol	Table	Jones	JACS	77 (1955)	651
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{36}O_3$	Pregnanol-3β-one-20 acetate	1190-1275	Sol	Band study, I	Jones	JACS	73 (1951)	3215
		1600-3700	Sol	Spec, Struct	Jones	JACS	74 (1952)	2820
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
		946-1289	Sol	Table	Jones	JACS	77 (1955)	651
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{36}O_3$	Pregnan-20α-ol-3-one-20 acetate	950-1350	S,Sol	Band study	Rosenkrantz	AC	28 (1956)	31
$C_{23}H_{36}O_4$	Allopregnanediol-3β, 17 -one-20-acetate-3	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
		-	-	Ident	Soloway	JACS	76 (1954)	2941
		770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{23}H_{36}O_4$	Allopregnanediol-3β 21-one-20-acetate-21	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{23}H_{36}O_4$	Allopregnanediol-17α,20-one-3-acetate-20	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{23}H_{36}O_4$	Allopregnane-3β,11α-diol-20-one,11-monoacetate	-	-	Ident	Mancera	JOC	17 (1952)	1066
$C_{23}H_{36}O_4$	Androstanediol-3α,17α diacetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
$C_{23}H_{36}O_4$	Androstane-3α,17β-diol 3,17-diacetate	770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152

$C_{23}H_{36}O_4$	Androstanediol-3β,17α diacetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{23}H_{36}O_4$	Androstane-3β,17β-diol 3,17-diacetate	770–3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{23}H_{36}O_4$	6β,17β-Diacetoxyandrostane	-	S	Band freq	Rosenkrantz	JACS	76 (1954)	5024
$C_{23}H_{36}O_4$	Δ^5-3β,17α-dihydroxy-bisnorcholenic acid methyl ester	1600–3700	Sol	Spec, Freq, Struct	Jones	JACS	74 (1952)	2820
$C_{23}H_{36}O_4$	Etiocholane-3α,17β-diol 3,17-diacetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		770–3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700–1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{36}O_4$	Etiocholane-3β,17β-diol diacetate	700–1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{36}O_4$	3α-Hydroxy-11-ketobis-norcholanic acid methyl ester	1712	Sol	Freq, Struct	Jones	JACS	71 (1949)	241
		-	Sol	Freq	Cole	JACS	74 (1952)	5571
$C_{23}H_{36}O_4$	Methyl 3β-acetoxy-alloetianate	-	-	Spec	Bellean	JACS	74 (1952)	2816
$C_{23}H_{36}O_4$	Methyl 3α-hydroxy-12-ketobisnorcholanate	-	S,Sol	Freq	Tarpley	APS	9 (1955)	69
$C_{23}H_{36}O_4$	Pregnanediol-3α,11β-one -20-acetate-3	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{23}H_{36}O_4$	Pregnanediol-3α,17α-one-20-acetate-3	-	-	Assign	Jones	JACS	70 (1948)	2024
		-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
		2.5–13 μ	Sol	Freq, Struct	Rosenkrantz	JACS	75 (1953)	903
		-	Sol	Freq	Page	JCS	- (1955)	2017
		770–3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{23}H_{36}O_4$	Pregnanediol-3β,17α-one 20-acetate-3	1600–3700	Sol	Spec, Band freq, Struct	Jones	JACS	74 (1952)	2820
		-	Sol	Freq	Jones	JACS	74 (1952)	2820

		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{23}H_{36}O_4$	Pregnanediol-3α,21-one-20-acetate-21	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	5648
$C_{23}H_{36}O_4$	Pregnanediol-3β,21-one-20-acetate-21	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Freq	Jones	JACS	74 (1952)	2820
$C_{23}H_{36}O_4$	Δ^5-Pregnene-3β,16α-diol-20-one ethylene ketal	-	S	Band freq	Bernstein	JACS	76 (1954)	5674
$C_{23}H_{36}O_4S$	Pregnane-3α,17α-diol-20-one-21-thiol-21-acetate	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3700
$C_{23}H_{36}O_5$	Allopregnane-3β,11α,21-triol-20-one 11-monoacetate	-	Sol	Freq	Sondheimer	JACS	75 (1953)	2601
$C_{23}H_{36}O_5$	2β,4b-Dimethyl-1β-(2-hydroxyethyl)-2-acetonyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4α-ol	-	-	Freq	Johns	JACS	76 (1954)	5026
$C_{23}H_{36}O_5$	dl-3-Ethylenedioxy-5-pregnene-11α,16ξ,20ξ-triol	-	S	Freq	Arth	JACS	77 (1955)	3834
$C_{23}H_{36}O_5$	Etiocholanetriol-3α,11,17-diacetate-3,17	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{23}H_{36}O_5$	3α-Hydroxy-12α-acetoxy-etiocholanic acid methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{23}H_{36}O_5$	Methyl 3β-acetoxy-11β-hydroxy-5α-etianate	2-12 μ	Sol	Spec	Simpson	HCA	37 (1954)	1200
$C_{23}H_{36}O_5$	Methyl 3β,5α-dihydroxy-11-ketobisnorallocholanate	-	S	Group freq	Bladon	JCS	- (1953)	2921

$C_{23}H_{36}O_5$	Pregnane-3α,11β,17α-triol-20-one-11-acetate	-	-	Ident	Oliveto	JACS	75 (1953)	5486
$C_{23}H_{36}O_5$	Pregnanetriol-3α,12α,21-one-20-acetate-21	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{23}H_{36}O_5$	Pregnanetriol-3α,12β,21-one-20-acetate-21	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{23}H_{36}O_5$	Pregnane-11β,17α,20β-triol-3-one-20-acetate	-	-	Ident	Oliveto	JACS	77 (1955)	2224
$C_{23}H_{36}O_5$	Pregnane-11β,17α-diol-3,20-dione-3-ethylene ketal	-	-	I	Oliveto	JACS	77 (1955)	2224
$C_{23}H_{36}O_5$	Δ^4-Pregnene-11β,20β-diol-3-one-21-al dimethyl acetal	-	-	Ident	Taub	JACS	76 (1954)	4094
$C_{23}H_{36}O_6$	17α-Acetoxypregnane-3β,5α,6β-triol-20-one	-	S	Group freq	Amendolla	JCS	- (1954)	1226
$C_{23}H_{36}O_6$	Allopregnane-3β,11α,17α,21-tetrol-20-one 11-monoacetate	-	-	Band freq	Romo	JACS	75 (1953)	1277
$C_{23}H_{36}O_6$	Allopregnane-3β,11α,17α,21-tetrol-20-one 21-monoacetate	-	-	Band study	Romo	JACS	75 (1953)	1277
$C_{23}H_{36}O_6$	3α,12α-Dihydroxy-7α-acetoxyetiocholanic acid, methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{23}H_{36}O_6$	17α,21-Dihydroxy-3,3-dimethoxyallopregnane-11,20-dione	-	S	Group freq	Page	JCS	- (1955)	2017
$C_{23}H_{38}N_4O_4$	2-Heptadecanone-2,4-dinitrophenyl-hydrazone	2-15 μ	S	Spec, Ident	Jones	AC	28 (1956)	191

$C_{23}H_{38}O_2$	Allopregnan-3α-ol acetate	700–1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{38}O_2$	Allopregnan-3β-ol acetate	700–1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{38}O_2$	Allopregnan-20α-ol acetate	700–1400	Sol	Spec, Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{38}O_2$	Allopregnan-20β-ol acetate	700–1400	Sol	Spec, Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{38}O_2$	cis-3-(Pentadecenyl-8') veratrole	-	-	Band study	Sunthankar	JACS	76 (1954)	5070
$C_{23}H_{38}O_2$	Pregnan-3α-ol acetate	700–1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{38}O_2$	Pregnan-3β-ol acetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		700–1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{38}O_2$	Pregnanol-20α acetate	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{23}H_{38}O_3$	Allopregnane-3α,20α-diol acetate-3	700–1400	Sol	Band study, Ident	Jones	JACS	78 (1956)	1152
		650–1350	Sol	Discussion, Generalization	Jones	JACS	80 (1958)	6121
$C_{23}H_{38}O_3$	Allopregnane-3α,20α-diol acetate-20	700–1400	Sol	Ident	Jones	JACS	78 (1956)	1152
		650–1350	Sol	Discussion, Struct	Jones	JACS	80 (1958)	6121
$C_{23}H_{38}O_3$	Allopregnane-3β,20β-diol acetate	700–1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{38}O_3$	3α-Hydroxybisnorcholanic acid methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Freq	Cole	JACS	74 (1952)	5571
$C_{23}H_{38}O_3$	Pregnane-3α,20α-diol acetate	700–1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{23}H_{38}O_3$	Pregnanediol-3α,20α-monoacetate-20	-	Sol	Group freq	Jones	JACS	72 (1950)	956

$C_{23}H_{38}O_4$	3α,20β-Dihydroxypregnan-11-one-11-ethylene ketal	-	-	Absorption study	Magerlin	JACS	77 (1955)	1904
$C_{23}H_{38}O_4$	Pregnane-3α,11α-diol 20-one 20-ethylene ketal	-	Sol	Group study	Sondheimer	JACS	75 (1953)	1282
$C_{23}H_{38}O_4$	Pregnanetriol-3α,12α,20α-acetate-12	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{23}H_{38}O_4$	Pregnanetriol-3α,12α,20β-acetate-12	1600-3700	Sol	Spec, Band freq, Struct	Jones	JACS	74 (1952)	2820
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
$C_{23}H_{38}O_4$	Pregnanetriol-3α,12α,20α-acetate-20	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{23}H_{38}O_5$	3β-Acetoxy-9β-allopregnane-5α,11ξ,20ξ-triol	-	-	Struct	Bladon	JCS	- (1953)	2921
$C_{23}H_{38}O_5$	Pregnanediol-3α,20-one 11 diacetate	1700	Sol	Freq, Struct	Jones	JACS	71 (1949)	241
$C_{23}H_{38}O_5$	Pregnanediol-3α,20 (epi)-one-11 diacetate	1700	Sol	Freq, Struct	Jones	JACS	71 (1949)	241
$C_{23}H_{39}N$	Δ^5-Dimethylaminopregnene	-	-	Group freq, Struct	Haworth	JCS	- (1953)	1102
$C_{23}H_{40}$	9-Phenylheptadecane	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
$C_{23}H_{40}O$	2,6-Di-tt-octyl-4-methylphenol	3 μ	S,L, Sol	H bond	Sears	JACS	71 (1949)	4110
$C_{23}H_{42}O_3$	Tetrahydrofurfuryl oleate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{23}H_{42}Si$	Benzyl-n-hexadecylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{23}H_{42}Si$	Benzyl di-n-octylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{23}H_{44}O_2$	Amyl oleate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179

$C_{23}H_{46}$	9-Cyclohexyl-heptadecane	9-14 μ	L	Spec	Fred	AC	21 (1949)	900
$C_{23}H_{48}$	n-Tricosane	9-14 μ	Sol,S	Struct	Snyder	JCP	27 (1957)	969
		700-1500	S	Freq, Assign	Snyder	JMS	4 (1960)	411
$C_{23}H_{48}Si$	Allyl di-n-decylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{23}H_{48}Si$	Cyclopentamethylene-dinonylsilane	2-35 μ	L	Assign	Oshesky	JACS	79 (1957)	2057
$C_{23}H_{50}NO_7P$	Palmitoylglycollecithin	2-16 μ	S	Spec	Bear	JACS	75 (1953)	5533

C_{24} COMPOUNDS

$C_{24}H_{10}$	1,12-Diphenyl-1,3,5,7,9,11-dodecahexayne	-	Sol	Group freq, I	Armitage	JCS	- (1954)	147
$C_{24}H_{12}N_6$	2,4,6-Tri-(o-cyanophenyl)-1,3,5-triazine	2-16 μ	S	Spec	Ross	JACS	72 (1950)	3302
$C_{24}H_{12}O_2$	1,2,6,7-Dibenzpyrene-3,8-quinone	-	S	Band freq	Hadzi	JACS	73 (1951)	5460
$C_{24}H_{14}$	3,4,8,9-Benzpyrene	650-2010	S	Spec	Cannon	SA	4 (1951)	373
$C_{24}H_{14}$	4,5,8,9-Dibenzpyrene	650-2010	S	Spec	Cannon	SA	4 (1951)	373
$C_{24}H_{14}$	3,4(2',3')naphthapyrene	650-2030	S	Spec	Cannon	SA	4 (1951)	373
$C_{24}H_{14}O_3$	2-(1-Pyrenoyl)benzoic acid	5.5-6.5 μ	Sol	Band study, Ident	Sawicki	AC	31 (1959)	523
$C_{24}H_{15}Cl_3N_2O_4S_2$	3,3',5-Trichlorodiphenoquinone dibenzenesulfonimide	-	-	Group study	Adams	JACS	74 (1952)	3033
$C_{24}H_{16}$	5-Phenyl-1,2-benzanthracene	660-2010	S	Spec	Cannon	SA	4 (1951)	373

$C_{24}H_{16}$	6-Phenyl-1,2-benzanthracene	650-2020	S	Spec	Cannon	SA	4 (1951)	373
$C_{24}H_{16}Cl_2N_2O_4S_2$	3,3'-Dichlorodiphenoquinonedibenzenesulfonimide	-	-	Band freq	Adams	JACS	74 (1952)	3033
$C_{24}H_{16}Cl_4N_2O_4S_2$	N-(2,3,5,6-Tetrachloro-4-benzenesulfonamidophenyl)-N-(phenyl)benzenesulfonamide	-	-	Group freq	Adams	JACS	74 (1952)	5557
$C_{24}H_{16}O_4$	3,10-Diacetoxyperylene	692-1764	S	Table	Brown	JCS	- (1954)	1280
$C_{24}H_{16}O_{10}$	2,5-Diacetoxy-3,6-p-dicarboxyphenyl-1,4-benzoquinone	5-15 μ	S	Spec, Struct	Edwards	JAPC	10 (1960)	246
$C_{24}H_{17}ClN_2O_4S_2$	3-Chlorodiphenoquinonedibenzenesulfonimide	-	-	Group freq	Adams	JACS	74 (1952)	3033
$C_{24}H_{17}Cl_3N_4$	2-Amino-5-p-chloroanilino-p-benzoquinone-di-p-chloro anil	-	-	Ident	Hughes	JCS	- (1954)	4630
$C_{24}H_{17}F_3N_4$	2-Amino-5-p-fluoroanilino-p-benzoquinone-di-p-fluoro anil	-	-	Ident	Hughes	JCS	- (1954)	4630
$C_{24}H_{17}I_3N_4$	2-Amino-5-p-iodoanilino-p-benzoquinone-di-p-iodo anil	-	-	Ident	Hughes	JCS	- (1954)	4630
$C_{24}H_{17}N_3$	2,3-Di-[3'-indyl]indole	2-12 μ	Sol	Spec	Witkop	JACS	73 (1951)	713
$C_{24}H_{17}N_3.HCl$	2,3-Di-[3'-indyl]-ψ-indole hydrochloride	2-10 μ	S	Spec, Struct, Assign	Witkop	JACS	73 (1951)	713
$C_{24}H_{17}N_3O$	2,2-Bis-[3'-indyl] indoxyl	2-12 μ	Sol	Spec, Iso	Witkop	JACS	73 (1951)	713
$C_{24}H_{18}$	9,10-Dimethyl-1,2,5,6 dibenzanthracene	650-2000	S	Spec	Cannon	SA	4 (1951)	373

$C_{24}H_{18}$	1-Phenyl-2-(3-xenyl) benzene	5-38 μ	S	Spec, Freq, Assign	Stewart	JRNB	60 (1958)	125
$C_{24}H_{18}$	1-Phenyl-3-(4-xenyl) benzene	5-38 μ	S	Spec, Freq, Assign	Stewart	JRNB	60 (1958)	125
$C_{24}H_{18}$	0,0'-Quaterphenyl	2-25 μ	S,Sol	Spec, Assign	Dale	ACS	11 (1957)	640
		5-38 μ	S	Spec, Freq, Assign	Stewart	JRNB	60 (1958)	125
$C_{24}H_{18}$	0,p'-Quaterphenyl	2-25 μ	S,Sol	Spec, Assign	Dale	ACS	11 (1957)	640
$C_{24}H_{18}$	p,p'-Quaterphenyl	650-2000	S	Spec	Cannon	SA	4 (1951)	373
		2-25 μ	S,Sol	Spec, Assign	Dale	ACS	11 (1957)	640
		5-38 μ	S	Spec, Freq, Assign	Stewart	JRNB	60 (1958)	125
$C_{24}H_{18}$	m-Quaterphenyl	5-38 μ	S	Spec, Freq, Assign	Stewart	JRNB	60 (1958)	125
$C_{24}H_{18}$	1,3,5-Triphenylbenzene	1050-1800	-	Spec	Barnes	IEC	15 (1943)	659
		640-2010	Sol	Spec	Cannon	SA	4 (1951)	373
$C_{24}H_{18}Cl_3N_3O_3$	1,3,5-Tris-p-chloro-benzoylperhydro-s-triazine	-	-	Ident, Struct, Group freq	Emmons	JACS	74 (1952)	5524
$C_{24}H_{18}N_2O_4S_2$	Diphenoquinonedibenzene-sulfonimide	-	-	Band freq	Adams	JACS	74 (1952)	3033
$C_{24}H_{18}N_2O_5$	p,p'-Dinitrodiphenyl p-hydroxydiphenyl complex	650-4000	S	Spec, Freq, Assign	Kross	SA	8 (1956)	142
$C_{24}H_{18}O_2$	5-Benzylidene-3,4-diphenyl-4-hydroxy-Δ^2-cyclopentenone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{24}H_{18}O_4$	Isophthaloyldiaceto-phenone	1500-3500	S	Freq, Assign, Struct	Martin	JACS	80 (1958)	4891
$C_{24}H_{18}O_4$	Terephthaloyldiaceto-phenone	1500-3500	S,Sol	Freq, Assign, Struct	Martin	JACS	80 (1958)	4891
$C_{24}H_{18}O_6$	2,2'-Dihydroxy-3,3'-diacetoxy-1,1'-binaphthyl	2-12 μ	Sol	Spec, Struct	O'Connor	JACS	76 (1954)	2368

$C_{24}H_{18}O_6$	Tri-m-cresotide	1700-1800	S,Sol	Group freq	Short	JCS	- (1952)	206
$C_{24}H_{18}O_6$	Tri-o-cresotide	1700-1800	S,Sol	Group freq	Short	JCS	- (1952)	206
$C_{24}H_{18}O_6$	Tri-p-cresotide	1700-1800	S,Sol	Group freq	Short	JCS	- (1952)	206
$C_{24}H_{19}ClN_2O_4S_3$	2-Chloro-5-phenylmercapto -p-phenylenedibenzene sulfonamide	-	-	Ident	Adams	JACS	75 (1953)	663
$C_{24}H_{19}ClN_2O_6S_3$	2-Benzenesulfonyl-3-chloro-p-phenylene-dibenzene sulfonamide	-	-	Ident, Iso	Adams	JACS	76 (1954)	1114
$C_{24}H_{19}ClN_2O_6S_3$	2-Chloro-5-benzene-sulfonyl-p-phenylene-dibenzenesulfonamide	-	-	Ident	Adams	JACS	75 (1953)	3235
$C_{24}H_{19}ClN_2O_6S_3$	2-Chloro-2-benzenesulfonyl -p-phenylenedibenzene-sulfonamide	-	-	Ident	Adams	JACS	75 (1953)	3235
$C_{24}H_{19}N$	Triphenyl-β-pyridyl-methane	1300-1900	S	Struct, Spec, Anal	Adams	JACS	71 (1949)	387
$C_{24}H_{19}NO_3$	1-(2-Phenylethyl)-4,4-diphenyl-2,3,5-pyrrolidenetrione	-	-	Spec	Skinner	JACS	72 (1950)	5569
$C_{24}H_{19}N_2O_6S_2$	α-(1,4-Naphthoquinone-dibenzenesulfonamido-2) nitroethane	-	-	Group study	Adams	JACS	74 (1952)	5557
$C_{24}H_{19}N_5OS$	5-(Indole-3'-methylene) -3-(phenyl-p-azophenyl)-2-thiohydantoin	600-4000	S	Spec, Ident	Epp	AC	29 (1957)	1283
$C_{24}H_{20}Cl_4N_4P_4$	Phenyl phosphonitrilic chloride tetramer	1100-1350	-	Freq, Struct	Shaw	CIL	- (1959)	54
$C_{24}H_{20}N_2$	1,4-Naphthoquinone-di-o-methyl anil	-	-	Group freq, Struct	Adams	JACS	75 (1953)	4642
$C_{24}H_{20}N_2$	Tetraphenylhydrazine	625-900	-	Substitution effect	Margoshes	SA	7 (1955)	14

$C_{24}H_{20}N_2O_6S_2$	2-Acetoxy-1,4-naphthalene dibenzenesulfonamide	-	-	Group study	Adams	JACS	74 (1952)	5566
$C_{24}H_{20}N_2O_6S_2$	1,4-Naphthalene dibenzene sulfonamido-2-acetic acid	-	-	Group study	Adams	JACS	74 (1952)	5557
$C_{24}H_{20}OSi$	Diphenyl-p-phenoxy-phenylsilane	2-16 μ	Sol	Group freq	Kniseley	SA	15 (1959)	651
$C_{24}H_{20}O_2$	1-Keto-5-methoxy-1,3,5-triphenyl-2,4-pentadiene	-	Sol	Band freq	Berson	JACS	74 (1952)	358
$C_{24}H_{20}O_6$	2,5-Diacetoxy-3,6-di-p-tolyl-1,4-benzoquinone	5-15 μ	S	Spec, Struct	Edwards	JAPC	10 (1960)	246
$C_{24}H_{20}O_8$	2,5-Diacetoxy-3,6-di-p-anisyl-1,4-benzoquinone	5-15 μ	S	Spec, Struct	Edwards	JAPC	10 (1960)	246
$C_{24}H_{20}O_{10}$	1-(3',4',5'-Trimethoxy-phenyl)-2,3-dicarboxy-4-acetoxy-6,7-methylene-dioxy-1,2-dihydro-naphthalene anhydride	-	Sol	Group freq	Walker	JACS	75 (1953)	3390
$C_{24}H_{20}As$	Tetraphenylarsine	625-900	Sol	Substitution effect	Margoshes	SA	7 (1955)	14
$C_{24}H_{20}Si$	Diphenyl-p-biphenylyl-silane	2-16 μ	Sol	Group freq	Kniseley	SA	15 (1959)	651
$C_{24}H_{20}Si$	Tetraphenylsilane	-	-	Ident	Brook	JACS	76 (1954)	2338
		-	Sol	Group freq	Margoshes	AC	27 (1955)	351
		625-900	Sol	Substitution effect	Margoshes	SA	4 (1955)	14
		1106	Sol	Freq	Kross	JACS	77 (1955)	6858
		8-11 μ	S	Band freq	Noltes	CIL	- (1959)	298
		2-15 μ	Sol	Freq, Spec, Struct	Smith	SA	16 (1960)	87
$C_{24}H_{21}ClN_2O_4S_2$	2-Chloro-6,7-dimethyl-1,4-naphthalene dibenzene-sulfonamide	-	S	Group freq	Adams	JACS	76 (1954)	2408

$C_{24}H_{21}NO_2$	1-Benzoyl-2-phenacyl-1,2,3,4-tetrahydroquinoline	-	Sol	Group freq, Ident	Wright	JACS	76 (1954)	4540
$C_{24}H_{21}N_3O_6S_2$	α-(1,4-Naphthalene-dibenzenesulfonamido-2) nitroethane	-	-	Group study	Adams	JACS	74 (1952)	5557
$C_{24}H_{22}N_2$	Anhydroindolenine dimer	2-12 μ	S,Sol	Spec, Struct	Witkop	JACS	73 (1951)	2188
$C_{24}H_{22}N_2$	N,N'-Di(o-methylphenyl)-1,4-diaminonaphthalene	-	-	Group freq, Struct	Adams	JACS	75 (1953)	4642
$C_{24}H_{22}N_2O_6S_2$	5-Acetoxy-4a,5,8,8a-tetrahydro-1,4-naphthaquinonedibenzenesulfonimide	-	-	Group freq	Adams	JACS	74 (1952)	2593
$C_{24}H_{22}N_4$	meso-Tetramethylporphin	400-4000	S	Spec, H bond	Masor	JCS	- (1958)	976
$C_{24}H_{22}OSi_2$	Diphenyl diphenylsiloxysilane	2050-2250	Sol	Freq, Struct	Smith	SA	15 (1959)	412
$C_{24}H_{22}O_2$	Benzhydryl p-ethoxystyryl ketone	-	-	Band freq	Marvel	JOC	16 (1951)	741
$C_{24}H_{22}O_3$	5-Mesitoyl-1-acenaphthalene acetic acid	- -	- -	Group freq Group freq, Ident	Fuson Fuson	JOC JOC	19 (1954) 19 (1954)	806 810
$C_{24}H_{22}O_3Si_2$	Bis-(hydroxydiphenyl) disiloxane	650-1300 500-1650	- S	Spec Spec, Assign	Thompson Richards	JCS JCS	- (1947) - (1949)	289 124
$C_{24}H_{22}O_9$	Decarboxamidoterrinolidic acid pentamethyl ether	-	Sol	Band freq	Hochstein	JACS	75 (1953)	5455
$C_{24}H_{23}ClN_2O_4S_2$	2-Chloro-6,7-dimethyl-5,8-dihydro-1,4-naphthalene dibenzenesulfonamide	-	S	Group freq	Adams	JACS	76 (1954)	2408
$C_{24}H_{23}NO$	N-Benzoyl duryl phenyl ketimine	-	-	Group freq, Struct	Fuson	JACS	75 (1953)	5321
$C_{24}H_{23}N_3O_4S_2$	α-(1,4-Naphthalene dibenzene-sulfonamido-2)-ethylamine	-	-	Group study	Adams	JACS	74 (1952)	5557

$C_{24}H_{24}$	Cyclotetracosa-1,3,9,11, 17,19-hexayne	3-15 μ	S	Spec	Wolovsky	JACS	81 (1959)	4600
$C_{24}H_{24}$	Tri-p-Xylylene	-	-	Band freq	Baker	JCS	- (1951)	1114
$C_{24}H_{24}NB$	Ammonium tetraphenyl-borate	250-4000	S,Sol	Spec, Freq	Waddington	JCS	- (1958)	4340
$C_{24}H_{24}N_2O_2$	3,3-Bis(4'-dimethyl-aminophenyl) phthalide	330-2000	S	Freq	Jakobsen	APS	14 (1960)	61
$C_{24}H_{24}N_2O_4S_2$	5,8-Dihydro-6,7-dimethyl-naphthalene-1,4-dibenzenesulfonamide	-	-	Group study	Adams	JACS	74 (1952)	2603
$C_{24}H_{24}N_4$	Mesotetramethylchlorin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
$C_{24}H_{24}O_2$	3,10-Dibenzylidene-1,2-cyclodecanedione	-	S	Group freq	Leonard	JACS	75 (1953)	2714
$C_{24}H_{24}O_2$	Methyl-β,β,β-triphenyl-pivalate	-	-	Group freq	McElvain	JACS	75 (1953)	3987
$C_{24}H_{24}O_6$	Methyl-2,4-diphenacyl-1,3-cyclobutane-dicarboxylate	2-13 μ	S	Spec, Struct, Band freq	Reid	JACS	73 (1951)	1985
$C_{24}H_{25}BrO_{10}$	1-Bromo-2-naphthyl-tetraacetyl-β-D-gluco-pyranoside	5-13 μ	Sol	Spec, Band freq	Tsou	JACS	74 (1952)	3066
$C_{24}H_{25}BrO_{10}$	6-Bromo-3-naphthyl-tetraacetyl-β-D-gluco-pyranoside	5-13 μ	Sol	Spec, Band freq	Tsou	JACS	74 (1952)	3066
$C_{24}H_{25}NO_5$	2-(β-Phenyl-α,β-dihydroxy-ethyl)-4-phenylhydroxy-methyl-5-anilino-1,3-dioxolane	-	-	Band freq	Smith	JOC	16 (1951)	972
$C_{24}H_{26}$	p-Di-(2-p-tolylethyl) benzene	-	-	Band freq	Baker	JCS	- (1951)	1114

$C_{24}H_{26}NO_5P$	N-Dibenzylphosphoryl-dl-phenylalanine methyl ester	3-15 μ	L,S	Spec, Group freq	Li	JACS	77 (1955)	3519
$C_{24}H_{26}N_2O_6$	Ethyl-β-(5-benzoyloxy-indolyl-3)-α-carbethoxy-α-formamidopropionate	2.84-10.63 μ	Sol	Group freq, Band freq, I	Eka	JACS	76 (1954)	5579
$C_{24}H_{26}O_2$	Mesityl-(2-methoxy-5-methylphenyl)-phenyl-carbinol	-	-	Struct, Assign	Fuson	JOC	15 (1950)	1155
$C_{24}H_{26}O_4$	Suberoyldiacetophenone	1500-3500	S	Freq, Assign, Struct	Martin	JACS	80 (1958)	4891
$C_{24}H_{26}O_6$	1,3-Dihydro-8,9-dimethoxy-4-methyl-3-(2,3,5-trimethoxyphenyl)-naphtho[2,3,c]furan	-	-	Group study	Hochstein	JACS	75 (1953)	5455
$C_{24}H_{26}O_8$	1-Acetoxy-2-hydroxymethyl-3-carboxy-4-(3',4'-dimethoxyphenyl)-6,7-dimethoxytetralin lactone	-	Sol	Band freq	Walker	JACS	75 (1953)	3393
$C_{24}H_{26}O_8$	Epipicropodophyllin ethyl ether	-	Sol	Group freq	Schrecker	JACS	75 (1953)	5916
$C_{24}H_{26}O_8$	Epipodophyllotoxin ethyl ether	-	Sol	Group freq	Schrecker	JACS	75 (1953)	5916
$C_{24}H_{26}O_8$	2-Hydroxymethylene-3-carbethoxy-4-(3',4'-dimethoxyphenyl)-6,7-dimethoxy-1-tetralone	-	Sol	Band freq	Walker	JACS	75 (1953)	3393
$C_{24}H_{26}O_9$	α-(3,4-Methylenedioxy-benzyl)-2'-(3,4,5-trimethoxybenzylidene) succinic acid α-ethyl ester	-	Sol	Group freq	Walker	JACS	76 (1954)	6205
$C_{24}H_{26}O_{10}$	2-Naphthyltetraacetyl β-D-glucopyranoside	5-13 μ	Sol	Spec	Tsou	JACS	74 (1952)	3066

$C_{24}H_{27}N_5O_2$ propylidene-1-phenyl-

$C_{24}H_{27}N_5O_2$	3,3'-Imino-bis(4-propylidene-1-phenyl-5-hydroxy)pyrazolone	400-4000	-	Freq	Gagnon	CJC	37 (1959)	110
$C_{24}H_{28}N_8$	Octamethyltetraaza-porphin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
$C_{24}H_{28}OSi$	Triphenylsilylbutyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{24}H_{28}OSi$	Triphenylsilylethyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{24}H_{28}OSi$	Triphenylsilylpentyl methyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{24}H_{28}O_2$	Bis-(1,1'-diphenyl)cyclo-pentylacyloin	-	-	Struct, Ident	Van Heyningen	JACS	74 (1952)	4861
$C_{24}H_{28}O_2$	1,5-Dimesityl-2,4-penta-dien-2-ol-1-one methyl ether	-	-	Group freq	Fuson	JACS	75 (1953)	5950
$C_{24}H_{28}O_2$	1-Duryl-5-mesityl-2,4-pentadien-2-ol-1-one	-	-	Group freq, Struct	Fuson	JACS	75 (1953)	5950
$C_{24}H_{28}O_2$	2-Hydroxy-4-t-butyl-3,4-dihydro-1-naphthyl mesityl ketone	-	-	Group freq	Fuson	JACS	77 (1955)	3781
$C_{24}H_{28}O_4$	3-Acetoxy-17-(α-Acetoxy-vinyl)-$\Delta^{1,3,5(10),16}$-estratetraene	-	Sol	Band freq	Djerassi	JACS	76 (1954)	1722
$C_{24}H_{28}O_5$	3-Acetoxy-17(acetoxyacetyl)-$\Delta^{1,3,5(10),16}$-estratetraene	-	Sol	Band freq	Djerassi	JACS	76 (1954)	1722
$C_{24}H_{28}O_7$	2-Hydroxymethyl-4-methyl-3-(α-hydroxy-2,3,5-trimethoxybenzyl)-1,8-dimethoxynaphthalene	-	-	Group study	Hochstein	JACS	75 (1953)	5455
$C_{24}H_{28}O_8$	Ethyl isodesoxypodophyllate	-	-	Ident	Schrecker	JACS	75 (1953)	5916

$C_{24}H_{28}O_8$	Flavaspidic acid	-	-	Struct	Birch	JCS	- (1951)	3026
		3.16-13.85 μ	S	Band freq, I	Birch	JCS	- (1952)	3102
$C_{24}H_{28}O_{10}S_2$	Diethyl di-p-tolyl-sulfonyloxydihydro-muconate	2-16 μ	S	Spec, Group freq	Tipson	JOC	18 (1953)	952
$C_{24}H_{28}Si$	Tri-β-phenylethylsilane	2-16 μ	Sol	Group freq	Kniseley	SA	15 (1959)	651
$C_{24}H_{29}NO_3$	Isoamyl-p-(p-ethoxy-benzalamino)-α-methyl-cinnamate	2-12 μ	L	Spec	Taschek	JCP	6 (1938)	542
$C_{24}H_{29}N_3O$	1-Methyl-3,5-di-(p-dimethylaminobenzylidene) -4-piperidone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{24}H_{29}N_3O$	1-Methyl-3,5-di-(p-dimethylaminobenzyl) -4-pyridone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{24}H_{30}N_2O_4$	Diacetylajmaline	-	S	Group freq	Anet	JCS	- (1954)	1242
$C_{24}H_{30}N_2O_5$	Acetylmethylcanescate	-	-	Group freq	Klohs	JACS	77 (1955)	4084
$C_{24}H_{30}N_3B_3$	B-triethyl-N-triphenyl-borazole	-	Sol	Struct	Watanabe	SA	16 (1960)	78
$C_{24}H_{30}N_4O_5$	3,5-Dimethyl-1,8-dioxo-2,4-di-n-propyl-3a,4,5,6,7,7a-hexahydro-4,7-methanoindene-8-2,4-dinitrophenylhydrazone	-	S	Group freq	Allen	JOC	20 (1955)	323
$C_{24}H_{30}O_2$	2,4-Diallyloestrone	2-12 μ	S	Group freq	Patton	CIL	- (1960)	1567
$C_{24}H_{30}O_3$	p-Acetoxyphenyl-2,4,6-triisopropylphenyl ketone	-	-	Group freq	Fuson	JACS	75 (1953)	5410
$C_{24}H_{30}O_3Si_3$	2,4,6-Triethyltriphenyl cyclotrisiloxane	2-16 μ	Sol	Spec	Young	JACS	70 (1948)	3758
$C_{24}H_{30}O_4$	Dibenzyl sebacate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179

$C_{24}H_{30}O_5$	3-Acetoxy-17β(acetoxy-acetyl)-$\Delta^{1,3,5(10)}$-estratriene	-	Sol	Band freq, Ident	Djerassi	JACS	76 (1954)	1722
$C_{24}H_{30}O_6$	1-(3',4'-Dimethoxyphenyl)-2-carbethoxy-3-methyl-6,7-dimethoxytetralin	-	Sol	Band freq	Walker	JACS	75 (1953)	3393
$C_{24}H_{30}O_6$	$\Delta^{1,3,5;10}$-Estratrientriol-3,16,17-triacetate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{24}H_{30}O_6$	$\Delta^{1,3,5(10)}$-Estratrien-3, 16α,17β-triol triacetate	700-1400	Sol	Ident, Band	Jones	JACS	78 (1956)	1152
$C_{24}H_{30}O_6$	$\Delta^{1,3,5(10)}$-Estratrien-3, 16β,17β-triol triacetate	700-1400	Sol	Ident, Band	Jones	JACS	78 (1956)	1152
$C_{24}H_{30}O_6$	Estriol triacetate	-	Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{24}H_{30}O_8$	4-Oxa-17α,21-diacetoxy-Δ^5-pregnene-3,11,20-trione	-	-	Ident	Soloway	JACS	75 (1953)	5442
$C_{24}H_{30}O_{10}S_2$	Diethyl di-p-tolyl-sulfonyloxytetrahydro-muconate	2-16 μ	S	Spec	Tipson	JOC	18 (1953)	952
$C_{24}H_{30}O_{12}S_2$	Diethyl di-o-p-tolyl-sulfonylmucate	2-16 μ	S	Spec	Tipson	JOC	18 (1953)	952
$C_{24}H_{32}N_2O_2$	Bis-(n-benzyl) sebacamide	700-1700	S	Spec	Stafford	AC	21 (1949)	1454
$C_{24}H_{32}N_2O_4$	3-Isoreserpinol acetate	-	-	Ident	Mac Phillamy	JACS	77 (1955)	4335
$C_{24}H_{32}N_8$	Tetrahydrooctamethyl-tetraazaporphin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
$C_{24}H_{32}O_4$	2,2-Bis[2-(2-methyl-3-oxo-1-cyclohexenyl)ethyl]1, 3-cyclohexanedione	1550-1750	Sol	Spec	Ananchenko	IANS	- (1960)	1641

$C_{24}H_{32}O_4$	16aβ-Carbomethoxy-16,17-cyclopropano-4-pregnene-3,20-dione	-	-	Group freq	Mueller	JACS	76 (1954)	3686
$C_{24}H_{32}O_4$	Methyl α-(3β-acetoxy-5,7,9-estratrien-17-yl) propionate	- -	Sol Sol	Group freq Band freq	Mosettig Scheer	JOC JACS	17 (1952) 77 (1955)	764 3300
$C_{24}H_{32}O_4$	$\Delta^{1,3,5;10}$-1-Methyl-3-methoxy-17-(2-acetoxy-acetyl)estratriene	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{24}H_{32}O_5$	2α,4b-Dimethyl-1-carboxy-methylene-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4-one	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{24}H_{32}O_5$	2β,4b-Dimethyl-1-carboxy-methylene-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4-one	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{24}H_{32}O_{13}$	β-(4-Methyl-3-oxocyclohexylidene)-β-tetra-o-acetylglucopyranosyloxy-propionic acid	729-3226	S	I	Briggs	JCS	- (1954)	4182
$C_{24}H_{33}BrO_2$	p-Hydroxy-p'-(ω-bromo-n-decyloxy)bibenzyl	-	-	Group freq	Fuson	JACS	75 (1953)	1325
$C_{24}H_{33}NO_3$	3β-Acetoxy-20-cyancallo-pregn-17-en-11-one	-	S	Group freq	Bladon	JCS	- (1954)	125
$C_{24}H_{33}NO_6$	6β-Nitro-3β,16β-dihydroxy-Δ^5-bisnorcholenic-22→16-lactone-3-acetate	-	Sol	Band freq	Anagnostopoulos	JACS	76 (1954)	532
$C_{24}H_{34}N_2$	p,p'-Diaminobibenzyl-N,N'-decamethylene	-	-	Group freq	Fuson	JACS	75 (1953)	1327

$C_{24}H_{34}N_2O_3$	3β-Acetoxy-16,17-[3,1(Δ^1-pyrazolino)]-5-pregnen-20-one	-	-	Group freq	Mueller	JACS	76 (1954)	3686
$C_{24}H_{34}O_2$	1,1-Bis-(2-hydroxy-3-t-butyl-5-methylphenyl) ethane	2.75-3.05 μ	S,Sol	Spec, H bond	Coggeshall	JACS	72 (1950)	2836
$C_{24}H_{34}O_2$	Di-(4-hydroxy-2-methyl-t-butylphenyl)methyl-methane	2.5-3.4 μ	S,Sol	Group freq	Ambelang	JACS	75 (1953)	947
$C_{24}H_{34}O_3$	3β-Acetoxy-16,17-cyclo-propano-5-pregnen-20-one	-	-	Config.	Mueller	JACS	76 (1954)	3686
$C_{24}H_{34}O_3$	20-Hydroxy-3-keto-Δ^4-cholenic acid lactone	1000-1900	Sol	Spec, Group freq	Jones	JACS	81 (1959)	5242
$C_{24}H_{34}O_3$	$\Delta^{5,16}$-16-methylpregna-dienol-3β-one-20-acetate	-	Sol	Group freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{24}H_{34}O_4$	16aβ-Carbomethoxy-16,17-cyclopropano-3β-hydroxy-5-pregnen-20-one	-	-	Group freq	Mueller	JACS	76 (1954)	3686
$C_{24}H_{34}O_4$	17α-Methyldesoxycortico-sterone acetate	-	Sol	Group freq	Englel	JACS	76 (1954)	4909
$C_{24}H_{34}O_5$	3β-Acetoxy-5α-hydroxy-bisnorallochola-7,9(11)-dienic acid	-	S	Group freq	Bladon	JCS	- (1953)	2921
$C_{24}H_{34}O_5$	2β,4b-Dimethyl-1-carbethoxy-methyl-2-methallyl-1,2,3,4,4aα,4b,5,6,7,9,10,10aβ-dodecahydrophenanthrene-1β-ol-4,7-dione	-	S	Band freq	Arth	JACS	76 (1954)	1715

$C_{24}H_{34}O_5$	2α,4b-Dimethyl-1-carboxymethylene-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4α-ol	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{24}H_{34}O_5$	2β,4b-Dimethyl-1-carboxymethylene-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4β-ol	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{24}H_{34}O_5$	2β,4b-Dimethyl-7-ethylenedioxy-2-methallyl-1β-carboxymethyl-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4-one	-	S	Band freq	Poos	JACS	77 (1955)	1026
$C_{24}H_{34}O_5$	3β-Formyloxy-16α-acetoxy-Δ^5-pregnen-20-one	-	Sol	Group freq	Hirschmann	JACS	75 (1953)	4682
		-	-	Group freq	Hirschmann	JOC	20 (1955)	572
$C_{24}H_{34}O_5$	6-Keto-3β,16β-dihydroxy-bisnorallocholanic-22→16-lactone-3-acetate	-	Sol	Band freq	Anagnostopoulos	JACS	76 (1954)	532
$C_{24}H_{34}O_5$	3,11,12-Triketonorcholanic acid methyl ester	1700	Sol	Freq, Struct	Jones	JACS	71 (1949)	241
$C_{24}H_{34}O_6$	2α,4b-Dimethyl-1β-carbomethoxymethyl-2-acetonyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4-one		S	Freq	Arth	JACS	77 (1955)	3834
$C_{24}H_{34}O_6$	2β,4b-Dimethyl-1β-carbomethoxymethyl-2-acetonyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4-one	-	S	Freq	Arth	JACS	77 (1955)	3834
$C_{24}H_{34}O_7$	3α,11β,17α-Trihydroxy-pregnan-20-one triformate	-	-	Group study	Oliveto	JACS	77 (1955)	3564

$C_{24}H_{36}$	1-Tetradecylnaphthalene	691-3235	L	Table, I	Anderson	JCS	-	(1953)	443
$C_{24}H_{36}$	2-Tetradecylnaphthalene	720-3252	L	Table, I	Anderson	JCS	-	(1953)	443
$C_{24}H_{36}N_2O_4$	Diacetylhexahydro-ajmaline	-	S	Group freq	Anet	JCS	-	(1954)	1242
$C_{24}H_{36}O_3$	$\Delta^{9:11}$-3-keto-cholenic acid	1580-3100	Sol	Group study, I	Jones	JACS	72	(1950)	86
$C_{24}H_{36}O_3$	Δ^5-Pregnenol-3β-one-20-propionate	-	S,Sol	Group freq	Tarpley	APS	9	(1955)	69
$C_{24}H_{36}O_3S$	Δ^5-Androsten-3β-ol-17-one acetate trimethylene hemithioketal	-	Sol	Band freq	Djerassi	JACS	75	(1953)	3704
$C_{24}H_{36}O_4$	3β-Acetoxy-11-oxo-9β-bisnorallocholanal	-	Sol	Group freq	Cameron	JCS	-	(1953)	3864
$C_{24}H_{36}O_4$	Δ^5-3β-Acetoxybisnor-cholenic acid	-	S,Sol	Group freq	Tarpley	APS	9	(1955)	69
$C_{24}H_{36}O_4$	3β,16β-Dihydroxybisnor-cholanic-22→16-lactone -3-acetate	-	Sol	Band freq	Anagnostopoulos	JACS	76	(1954)	532
$C_{24}H_{36}O_4$	11,12-Diketonorcholanic acid methyl ester	1700 -	Sol Sol	Struct, Freq Group freq	Jones Jones	JACS JACS	71 72	(1949) (1950)	241 956
$C_{24}H_{36}O_4$	2β,4b-Dimethyl-7-ethylene-dioxy-2-methallyl-1β-(2-hydroxyethyl)-1,2,3,4,4aα, 4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene -4-one	-	S	Band freq	Poos	JACS	77	(1955)	1026
$C_{24}H_{36}O_4$	3,6-Dioxocholanic acid	-	-	Spec	Morcillo	ARS	53B	(1957)	145
$C_{24}H_{36}O_4$	3α,9α-Epoxy-11-ketonor-cholanic acid methyl ester	1712 -	Sol Sol	Freq, Struct, Anal Group freq	Jones Jones	JACS JACS	71 74	(1949) (1952)	241 5648

$C_{24}H_{36}O_4$	Δ^5-16α-Methoxypregnenol-3β-one-20-acetate	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
		-	S	Ident	Mattox	JACS	74 (1952)	4340
$C_{24}H_{36}O_5$	3β-Acetoxy-11-oxobisnor-allocholanic acid	-	Sol	Group freq	Cameron	JCS	- (1953)	3864
$C_{24}H_{36}O_5$	3β-Acetoxy-11-oxo-9β-bisnorallocholanic acid	-	Sol	Group freq	Cameron	JCS	- (1953)	3864
$C_{24}H_{36}O_5$	2α,4b-Dimethyl-1α-carboxy-methyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4α-ol	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{24}H_{36}O_5$	2α,4b-Dimethyl-1β-carboxy-methyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα-4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4α-ol	-	S	Band freq	Arth	JACS	76 (1954)	1715
		-	S	Freq	Arth	JACS	77 (1955)	3834
$C_{24}H_{36}O_5$	2β,4b-Dimethyl-1α-carboxy-methyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα-4b,5,6,7,8,10,10aβ-dodeca-hydrophenanthrene-4α-ol	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{24}H_{36}O_5$	2β,4b-Dimethyl-1α-carboxy-methyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodeca-hydrophenanthrene-4β-ol	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{24}H_{36}O_5$	2β,4b-Dimethyl-1β-carboxy-methyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodeca-hydrophenanthrene-4α-ol	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{24}H_{36}O_5$	Ethyl-3α-acetoxy-11-ketoetianate	-	-	Spec, Ident	Bellau	JACS	74 (1952)	2816

$C_{24}H_{37}NO_3$	N-Benzyloxy-α-dodecyl-glutarimide	-	S	Group freq	Ames	JCS	- (1955)	631
$C_{24}H_{37}NO_3$	Veratrobasine	-	-	Struct	Stoll	JACS	74 (1952)	4728
$C_{24}H_{38}O_3$	3α-Hydroxy-Δ^{11}-cholenic acid	2.5-15 μ	S	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{24}H_{38}O_3$	Δ^{11}-3α-Hydroxynorcholenic acid, methyl ester	- -	Sol Sol	Group freq Group freq	Jones Jones	JACS JACS	72 (1950) 74 (1952)	956 5648
$C_{24}H_{38}O_4$	Di-(2-ethylhexyl) phthalate	2-14 μ	L	Spec	Kapff	JCP	16 (1948)	446
$C_{24}H_{38}O_4$	3α,12β-Dihydroxy-Δ^{22}-cholenic acid	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{24}H_{38}O_4$	2β,4b-Dimethyl-1α-(2-hydroxyethyl)-2-methallyl-7-ethylene-dioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodeca-hydrophenanthrene-4α-ol	-	-	Band freq	Johns	JACS	76 (1954)	5026
$C_{24}H_{38}O_4$	2β,4b-Dimethyl-1α-(2-hydroxyethyl)-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4β-ol	-	-	Band freq	Johns	JACS	76 (1954)	5026
$C_{24}H_{38}O_4$	2β,4b-Dimethyl-1β-(2-hydroxyethyl)-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4α-ol	-	-	Band freq	Johns	JACS	76 (1954)	5026
$C_{24}H_{38}O_4$	2β,4b-Dimethyl-1β-(2-hydroxy-ethyl)-2-methallyl-7-ethylene-dioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4β-ol	-	-	Band freq	Johns	JACS	76 (1954)	5026

$C_{24}H_{38}O_4$	Dioctyl phthalate	2-15 μ	S	Spec	Hansdorff	APS	5 (1950)	8
		-	L	Band freq, Spec, I	Kendall	APS	7 (1953)	179
		2-15 μ	Sol	Spec, Group freq	Pristera	AC	25 (1953)	844
$C_{24}H_{38}O_4$	3α-Hydroxy-6-oxo-cholanic acid	-	-	Spec	Morcillo	ARS	53B (1957)	145
$C_{24}H_{38}O_4$	3α-Hydroxy-11-keto-norcholanic acid methyl ester	1712	Sol	Freq, Struct	Jones	JACS	71 (1949)	241
		-	Sol	Freq	Cole	JACS	74 (1952)	5571
$C_{24}H_{38}O_4$	Methyl-3α-hydroxy-12-keto-norcholanate	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{24}H_{39}NO_7$	Delcosine	675-3518	S	Freq, Table	Taylor	CJC	32 (1954)	780
$C_{24}H_{39}NO_{14}$	Methyl tetraacetyl-streptobiosaminide dimethyl acetal	-	Sol	Group freq, Struct	Brink	JACS	68 (1946)	2557
$C_{24}H_{39}NS$	2-Heptadecylbenzo-thiazole	-	-	Solubility	Du Brow	JACS	74 (1952)	6241
$C_{24}H_{40}N_2$	Conessine	-	-	Band freq, Struct	Haworth	JCS	- (1953)	1102
$C_{24}H_{40}O$	$\Delta^{9;11}$-Cholenol-24	700-1400	Sol	Spec, Band freq	Bladon	JCS	- (1951)	2402
		-	-	Group freq	Werner	JCS	- (1954)	1152
$C_{24}H_{40}O_2$	Cholanic acid	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{24}H_{40}O_2$	3β,24-Dihydroxy-20-allocholene	-	-	Band freq	Ryer	JACS	74 (1952)	4336
$C_{24}H_{40}O_2$	3α,24-Dihydroxychol-11-ene	650-3100	S	Band freq, I	Henbest	JCS	- (1954)	800
$C_{24}H_{40}O_2$	9-Phenylstearic acid	2-15 μ	S	Spec, Assign, Group freq	Kagarise	JPC	59 (1955)	271
$C_{24}H_{40}O_3$	3α-Hydroxycholanic acid	2.5-15 μ	S	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{24}H_{40}O_4$	Deoxycholic acid	-	-	Spec	Morcillo	ARS	53B (1957)	145

$C_{24}H_{40}O_4$	Hyodeoxycholic acid	-	-	Spec	Morcillo	ARS	53B (1957)	145
$C_{24}H_{40}O_5$	Cholic acid	-	-	Ident	Hirschmann	JACS	75 (1953)	2361
		-	-	Spec	Morcillo	ARS	53B (1957)	145
$C_{24}H_{42}$	n-Octadecylbenzene	5400-8900	Sol	Assign, Spec	Rose	JRNB	19 (1937)	143
$C_{24}H_{42}$	2-Phenyloctadecane	2-15.5 μ	L	Spec, Struct	Lenneman	JOC	19 (1954)	463
$C_{24}H_{43}NO_4$	4-(12-Acetoxyoleoyl) morpholine	2-16 μ	Sol	Spec, Freq	Dupuy	JAOC	35 (1958)	99
$C_{24}H_{43}NO_5$	Triacetylsphingosine	2-16 μ	Sol	Spec	Mislow	JACS	74 (1952)	5155
		2.9-9.53 μ	-	Freq	Shapiro	JACS	76 (1954)	5894
$C_{24}H_{44}$	1,5-Dicyclohexyl-3-(2-cyclopentylethyl)pentane	-	-	Band freq	Bomtein	AC	25 (1953)	512
$C_{24}H_{44}N_{10}O_3 \cdot 6HCl$	Roseothricin hexahydrochloride	600-4000	S	Spec, Struct	Goto	BCSJ	30 (1957)	729
$C_{24}H_{44}O_7$	Dihydroneoquassin acetate	-	S	Group freq	Hanson	JCS	- (1954)	4238
$C_{24}H_{44}Si$	Tetracyclohexylsilane	3-12 μ	Sol	Spec	Kanazashi	BCSJ	27 (1954)	441
$C_{24}H_{45}NO_4$	4-(12-Acetoxystearoyl) morpholine	2-16 μ	Sol	Spec, Freq	Dupuy	JAOC	35 (1958)	99
$C_{24}H_{46}O_4$	Di-n-heptyl sebacate	2-16 μ	Sol	Spec	Stahl	JACS	74 (1952)	5487
$C_{24}H_{46}O_4$	Dilauroyl peroxide	-	Sol	Group freq	Davison	JCS	- (1951)	2456
		5-15 μ	Sol	Spec, Band freq	Minkoff	PRS	224 (1954)	176
$C_{24}H_{47}NO_2$	1-Ethyl-1-azacyclotricosan-12-ol-13-one	-	Sol	Group freq	Leonard	JACS	76 (1954)	5708
$C_{24}H_{48}$	Cyclohexyl-n-octadecane	5400-8900	Sol	Assign, Spec	Rose	JRNB	19 (1937)	143
$C_{24}H_{48}O_2$	21,21-Dimethyldocosanoic acid	-	-	Spec	Sobotka	JACS	72 (1950)	5139

$C_{24}H_{48}O_2$	12-n-Hexyloctadecanoic acid	2-16 μ	Sol	Band freq, Spec, Struct	Freeman	JACS	74 (1952)	2523
$C_{24}H_{48}O_2$	18-n-Propylheneicosanoic acid	2-16 μ	Sol	Band freq, Spec, Struct	Freeman	JACS	74 (1952)	2523
$C_{24}H_{48}O_2$	n-Tetracosanoic acid	2-15 μ	S	Spec, Qual, Anal	Meiklejohn	AC	29 (1957)	329
$C_{24}H_{48}O_3$	Ethylene glycol monobutyl ether stearate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{24}H_{49}N$	2,4-Dimethyldocos-2-enylamine	-	-	Group freq	Bailey	JCS	- (1955)	1547
$C_{24}H_{49}N_2O_6P$	Sphingomyelin	-	S	Group freq, Struct	Marinetti	JACS	75 (1953)	313
		3.10-13.86 μ	S	Group freq, Struct	Marinetti	JACS	76 (1954)	1345
		2.5-14.5 μ	S	Spec, Group freq	Marinetti	JACS	76 (1954)	1347
$C_{24}H_{50}$	n-Tetracosane	-	-	Group freq	Bryant	JACS	75 (1953)	6113
		3.2-14.7 μ	Sol	Group anal, Struct	Francis	AC	25 (1953)	1466
		1470	L,S	Freq	Stein	JCP	22 (1954)	1993
		700-3000	Sol	Ext. Coefficient	Jones	SA	9 (1957)	235
		750-1200	S	Struct	Snyder	JCP	27 (1957)	969
		650-800	L,S	Freq	Martin	SA	12 (1958)	12
		700-1500	S	Freq, Assign	Snyder	JMS	4 (1960)	411
$C_{24}H_{50}O_2$	Lauraldehyde hemiacetal	-	Sol	Group freq	Erickson	JACS	76 (1954)	4472
$C_{24}H_{51}N$	2,4-Dimethyldocosanylamine	-	-	Group freq	Bailey	JCS	- (1955)	1547
$C_{24}H_{51}N_2O_6P$	Dihydrosphingomyelin	2.5-14.5 μ	S	Spec, Group freq, Struct	Marinetti	JACS	76 (1954)	1347
$C_{24}H_{51}N_2O_8P$	Sphingomyelin hydroxylated	-	S	Anal	Marinetti	JACS	75 (1953)	313
		3.01-13.86 μ	S	Table, Band freq	Marinetti	JACS	76 (1954)	1345
$C_{24}H_{51}O_3B$	Tri-2-octylborate	670-1800	S	Spec, Freq	Werner	AJC	8 (1955)	355
$C_{24}H_{51}O_3P$	Tri-2-ethylhexyl-3-phosphite	700-1620	L	Spec, Group freq	Bellamy	JCS	- (1952)	475
$C_{24}H_{51}O_4P$	Tri-2-ethylhexyl-phosphate	700-1570	L	Spec, Group freq	Bellamy	JCS	- (1952)	475
		-	-	Group freq	Bellamy	JCS	- (1952)	1701
		2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
		-	-	Group freq	Bell	JACS	76 (1954)	5185

$C_{24}H_{52}Si$	Tri-n-Octylsilane	2-16 μ	Sol	Group freq	Kniseley	SA	15	(1959)	651
$C_{24}H_{54}N_3B$	Tris di-n-butylamino-boron	2-15 μ	L	Freq, Assign	Aubrey	JCS	-	(1960)	5239
$C_{24}H_{54}O_9Si_3$	Hexa-tert-butoxycyclo-trisiloxane	-	-	Spec, Assign	Vorankov	ZOK	28	(1958)	2128
$C_{24}H_{57}N_3O_6Si_3$	Hexa-t-butoxy-cyclotrisilazane	2.93-14.52 μ	Sol	Band freq, I	George	JACS	75	(1953)	6308

C_{25} COMPOUNDS

$C_{25}H_{10}F_{38}O_4$	1,5-Pentanediol bisnona-decafluoro caprate	-	L	Group freq	Rappaport	JACS	75	(1953)	2695
$C_{25}H_{14}O_2$	Fluorene-9'-spiro-2-peri-naphthane-1,3-dione	-	S	Struct	Greenhow	JCS	-	(1953)	3099
$C_{25}H_{18}$	Diphenylfluorene	650-2000	S	Spec	Cannon	SA	4	(1951)	373
$C_{25}H_{18}N_2O_4$	1,4-Diphenyl-3-(2-benzylidene-4,5-diketo-3-oxazolidyl)-2-azetidinone	2-8 μ	Sol	Band freq	Sheehan	JACS	73	(1951)	4756
$C_{25}H_{18}O$	2-(1-Naphthyl)-3-phenyl-indone	-	-	Spec	Bergmann	BSCF	-	(1959)	634
$C_{25}H_{19}ClN_2O_2$	4-Chloro-o-quinonediben-zimide cyclopentadrene adduct	-	-	Struct	Adams	JACS	76	(1954)	2763
$C_{25}H_{19}ClN_2O_5S_2$	N',N'-Dibenzenesulfonyl -N"-benzoyl-2-chloro-p-phenylenediamine	-	S	Group freq	Adams	JACS	76	(1954)	3584

$C_{25}H_{19}Cl_4N_3O_4S_2$	N-(2,3,5,6-Tetrachloro-4-benzenesulfonamido-phenyl)-N-(2-methyl-4-aminophenyl)benzene sulfonamide	-	-	Group freq	Adams	JACS	74 (1952)	5869
$C_{25}H_{19}Cl_4N_3O_4S_2$	N-(2,3,5,6-Tetrachloro-4-benzenesulfonamido-phenyl)-N-(3-methyl-4-aminophenyl) benzene-sulfonamide	-	-	Group freq	Adams	JACS	74 (1952)	5869
$C_{25}H_{19}NO_2$	1-Piperidinoperylene-3, 10-quinone	768-1637	S	Table	Brown	JCS	- (1954)	1280
$C_{25}H_{19}N_5O_8$	Benzyl-4-phenyl-2,5-diketo-3- 2,4-dinitrophenylhydrazone -1-pyrrolidine acetate	2-8 μ	S	Spec, Band freq	Sheehan	JACS	74 (1952)	360
$C_{25}H_{20}$	Tetraphenylmethane	3.2-3.6 μ	Sol	Band freq	Wall	JACS	61 (1939)	1053
		1300-1900	-	Struct, Spec, Anal	Adams	JACS	71 (1949)	387
		660-2040	S	Spec	Cannon	SA	4 (1951)	373
		-	Sol	Group freq, I	Pinchas	JCS	- (1954)	863
		625-900	S	Substitution effect	Margoshes	SA	7 (1955)	14
		8-11 μ	S	Bands discussed	Noltes	CIL	- (1959)	298
$C_{25}H_{20}N_2O_2$	1-Methyl-3-(1-phenyl-2-phthalimidoethyl) indole	-	Sol,S	Group freq	Noland	JACS	81 (1959)	1203
$C_{25}H_{20}N_2O_2$	2-Methyl-3-(1-phenyl-2-phthalimidoethyl) indole	-	S,Sol	Group freq	Noland	JACS	81 (1959)	1203
$C_{25}H_{20}N_2O_2$	o-Quinonedibenzimide cyclopentadiene adduct	-	-	Freq	Adams	JACS	76 (1954)	2763
$C_{25}H_{20}OSi$	Benzoyltriphenylsilane	-	Sol	Freq	Brook	JACS	82 (1960)	5102
$C_{25}H_{20}O_2$	5-Benzylidene-3,4-diphenyl-4-hydroxy-2-methyl-Δ^2-cyclopentenone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526

$C_{25}H_{20}O_2$	2-Methyl-3(β,β-diphenyl) ethyl-1,4-naphtho-quinone	1600–1800	Sol	Group freq	Josien	JOC	21 (1956)	994
$C_{25}H_{20}O_2$	4-Tritylcatechol	3 μ	Sol	Group freq	Ingraham	JACS	74 (1952)	2297
$C_{25}H_{20}O_3$	5,8-Dimethyl-6,7-diphenyl-5,8-methano-1,4,9-trioxo-4a,5,8,8a-tetrahydronaphthalene	2–15 μ	S	Group freq, Spec	Allen	JOC	20 (1955)	306
$C_{25}H_{20}O_{12}$	3,3',4',5,7-Penta-acetoxy flavone	1550–4000	S	Group freq	Hergert	JACS	75 (1953)	1622
$C_{25}H_{20}O_{12}$	3,3',4',5,8-Penta-acetoxy flavone	1550–4000	S	Group freq	Hergert	JACS	75 (1953)	1622
$C_{25}H_{22}N_2O_5S_2$	1,4-Naphthalene dibenzene sulfonamido-2-acetyl-methane	–	–	Group study	Adams	JACS	74 (1952)	5557
$C_{25}H_{22}N_2O_5S_3$	2-Methoxy-5-phenylmercapto -p-phenylenedibenzene-sulfonamide	–	–	Ident	Adams	JACS	75 (1953)	3235
$C_{25}H_{22}N_2O_6S_3$	2-Methyl-y-benzene-sulfonyl-p-phenylene-dibenzenesulfonamide	–	–	Ident	Adams	JACS	75 (1953)	3235
$C_{25}H_{22}N_2O_7S_3$	2-Methoxy-5-benzene-sulfonyl-p-phenylene-dibenzenesulfonamide	–	–	Ident	Adams	JACS	75 (1953)	3235
$C_{25}H_{22}N_4O_2$	Zolon	0–0.8 μ	S	Ident	Svatos	JOC	21 (1956)	1171
$C_{25}H_{22}OSi$	Triphenylsilylmethyl phenyl ether	–	–	Inductive effect	Josien	CPR	249 (1959)	826
$C_{25}H_{22}O_2$	1,3-Dibenzoyl-2-phenyl-cyclopentane	–	–	Group freq, Struct	Fuson	JACS	77 (1955)	174
$C_{25}H_{22}O_2Si$	Phenyl-p-phenoxyphenyl -p-anisyl silane	2–16 μ	Sol	Group freq	Kniseley	SA	15 (1959)	651

$C_{25}H_{22}O_3$	$\Delta^{1,3,5(10),6,8}$-Estrapentaenol-3-one-17-benzoate	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{25}H_{22}O_{12}$	d-Dihydroquercetin pentaacetate	700-4000	S	Spec, Config. Assign	Hergert	JOC	18 (1953)	521
$C_{25}H_{22}O_{12}$	3,3',4',5,7-Penta-acetoxy flavone	1550-4000	S	Group freq	Hergert	JACS	75 (1953)	1622
$C_{25}H_{22}Si$	p-Tolyltriphenylsilane	-	Sol	Group freq	Margoshes	AC	27 (1955)	357
$C_{25}H_{23}NO_6$	Dibenzyl carbobenzyloxy-aminomalonate	-	Sol	Group freq	Kissman	JACS	75 (1953)	1967
$C_{25}H_{23}N_3O_4S_2$	2-(p-Monomethylamino-phenyl)-benzene-1,4-dibenzenesulfonamide	-	-	Group freq, Struct	Adams	JACS	75 (1953)	4642
$C_{25}H_{24}O_2$	1-Acetonyl-5-mesitoyl-acenaphthene	-	-	Ident, Group freq	Fuson	JACS	76 (1954)	810
$C_{25}H_{24}O_3$	$\Delta^{1,3,5:10,7}$-Estrateraenol-3-one-17-benzoate	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{25}H_{24}O_{11}$	l-Epicatechol penta-acetate	700-4000	S	Spec, Struct, Assign	Hergert	JOC	18 (1953)	521
$C_{25}H_{24}O_{11}$	d-3,3',4',5,7-Penta-hydroxyflavan penta-acetate trans	700-4000	S	Spec, Struct, Assign	Hergert	JOC	18 (1953)	521
$C_{25}H_{25}NO_6$	l-Epanorin	650-3800	S,Sol	Spec	Frank	JACS	72 (1950)	4454
$C_{25}H_{25}NO_8$	Pentamethylterrinolide	-	Sol	Group freq	Hochstein	JACS	75 (1953)	5455
$C_{25}H_{26}NB$	Methylammoniumtetra-phenylborate	-	S	H bond, Band freq	Nuttall	JCS	- (1960)	4965

$C_{25}H_{26}N_2O_4S_2$	2,6,7-Trimethyl-5,8-dihydro-1,4-naphalene-dibenzenesulfonamide	-	S	Group freq	Adams	JACS	76 (1954)	2498
$C_{25}H_{26}N_2O_8S_2$	N,N'-Dicarboxymethyl-N, N' dibenzenesulfonyl diaminomesitylene	450-4000	S	Melting Point	Adams	JACS	70 (1948)	4204
$C_{25}H_{26}O_2$	3,11-Dibenzylidene-1,2-cyclohendecanedione	-	S	Group freq	Leonard	JACS	75 (1953)	2714
$C_{25}H_{26}O_3$	$\Delta^{1,3,5:10}$-Estratrienol-3-one-17-benzoate	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{25}H_{26}O_6$	3,7-Di(m,p-dimethoxy-benzylidene)-1,2-cyclo-heptanedione	-	S	Group freq	Leonard	JACS	75 (1953)	4989
$C_{25}H_{26}O_{10}$	2-Carbomethoxy-3-carbethoxy-4-(3',4',5'-trimethoxy-phenyl)-6,7-methylene-dioxy-1-tetralone	-	Sol	Group freq	Walker	JACS	75 (1953)	3390
$C_{25}H_{28}N_2O_6S_2$	N-Ethyl-N'-Carboxymethyl-N,N'-dibenzenesulfonyl-diaminomesitylene	650-4000	S	Melting Point	Adams	JACS	70 (1948)	4204
$C_{25}H_{28}O$	1-Keto-2-benzylidenenor-dehydroabietane	-	-	Group freq	Zeiss	JACS	75 (1953)	5935
$C_{25}H_{28}O_3$	1,5-Dimesityl-1,3-pentadien-1-ol-5-one acetate	-	S	Band freq, Group freq	Fuson	JACS	75 (1953)	5402
$C_{25}H_{28}O_3$	1,5-Dimesityl-2,4-pentadien-2-ol-1-one acetate	-	S	Group freq	Fuson	JACS	75 (1953)	5952
$C_{25}H_{28}O_4$	Azeloyldiacetophenone	1500-3500	S	Freq, Assign, Struct	Martin	JACS	80 (1958)	4891
$C_{25}H_{30}N_2O_4S_2$	N,N'-Diethyl-N,N'-diben-zenesulfonyl diaminomesitylene	650-4000	S	Melting Point	Adams	JACS	70 (1948)	4204

$C_{25}H_{30}N_2O_5$	O,N-Diacetylyohimbine	-	-	Group freq, Band freq	Huebner	JACS	77 (1955)	469
$C_{25}H_{30}OSi$	Triphenylsilylhexyl methyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{25}H_{30}OSi$	Triphenylsilylpentyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{25}H_{30}OSi$	Triphenylsilylpropyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{25}H_{30}O_2$	1,5-Diduryl-1,3-pentadien-1-ol-5-one	-	S	Band freq, Group freq	Fuson	JACS	75 (1953)	5402
$C_{25}H_{30}O_2$	1,5-Diduryl-2-pentene-1,5-dione	-	S	Band freq, Group freq	Fuson	JACS	75 (1953)	5402
$C_{25}H_{30}O_5$	β'-(X-Acetoxy-3-methoxy-estra-1,3,5(10),14-tetraenyl-17)butanolide	-	Sol	Group freq	Sneeden	JACS	77 (1955)	130
$C_{25}H_{30}O_6$	$\Delta^{5,7}$-Androstadien-3β-ol-17-one acetate, maleic anhydride adduct	670-3700	S	Spec, Ident, Struct	Antonucci	JOC	16 (1951)	1356
$C_{25}H_{32}N_2O_5$	Quinine α,β-dihydroxy-isovalerate	2-15 μ	S	Ident, Spec	Sjolander	JACS	76 (1954)	1085
$C_{25}H_{32}N_2O_6$	Methyl reserpate acetate	-	S	Ident	MacPhillamy	JACS	77 (1955)	4335
$C_{25}H_{32}N_2O_6$	Methyl-3-isoreserpate acetate	-	S	Group freq	MacPhillamy	JACS	77 (1955)	4335
$C_{25}H_{32}O_4$	3β-Acetoxy-$\Delta^{14(15),16(17),20(22)}$-cardatrienolide	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{25}H_{32}O_4$	3β,20-Diacetoxy-5,7,9(11)20-pregnatetraene	-	-	Band freq	Moffett	JACS	74 (1952)	2183

$C_{25}H_{32}O_6$	dl-3-Ethylenedioxy-20-acetoxy-5,17-pregnadiene 11,16-dione	-	S	Freq	Arth	JACS	77 (1955)	3834
$C_{25}H_{32}O_7$	Aldosterone-18,21-diacetate	2-12 μ	Sol	Spec	Simpson	HCA	37 (1954)	1163
		-	Sol	Band freq	Ham	JACS	77 (1955)	1637
$C_{25}H_{32}O_8$	Albaspidin	2.97-13.57 μ	S	Band freq, I	Birch	JCS	- (1952)	3102
$C_{25}H_{32}O_8$	Methyl-3-oxo-(11?),19-diacetoxy-14-hydroxy-$\Delta^{1,4}$-etiadienate	-	Sol	Group freq, Band freq	Florey	JOC	19 (1954)	1174
$C_{25}H_{32}O_8$	Δ^4-Pregnene-2α,17α,21-triol-3,11,20-trione 2,21-diacetate	-	Sol	Band freq	Rosenkrantz	JACS	77 (1955)	145
$C_{25}H_{32}O_8$	Δ^4-Pregnene-3,11,20-trione-6β,17α,21-triol-6,21-diacetate	-	S	Band freq	Sondheimer	JACS	76 (1954)	5020
$C_{25}H_{33}NO_7$	Lycoctamone monoacetate	600-3600	S	Spec	Edwards	CJC	32 (1954)	708
$C_{25}H_{34}$	1,5-Diphenyl-3-(3-cyclopentylpropyl)pentane	1.1-1.25 μ	L	Anal	Evans	AC	23 (1951)	1604
$C_{25}H_{34}N_2O_5$	3β-Acetoxy-16,17-[3,1-(3-carboxy-2-pyrazolino)]-5-pregnen-20-one	-	-	Group freq	Mueller	JACS	76 (1954)	3686
$C_{25}H_{34}N_2O_6 \cdot HCl$	β-γ-Epoxy-γ'-[β-(3,4-dimethoxyphenyl)-ethyl-amino]-N-[β-(3,4-dimethoxyphenyl)-ethyl]-isovaleramide hydrochloride	2-16 μ	-	Spec	Lasslo	JACS	75 (1953)	5980
$C_{25}H_{34}O$	2,4-Di-t-butylphenyl duryl ketone	-	-	Group freq	Fuson	JACS	76 (1954)	5119
		-	-	Ident	Fuson	JACS	77 (1955)	3781
$C_{25}H_{34}O_4$	12β-Acetoxy-3β-hydroxy-card-14,20(22)dienolide	-	-	Struct	Cardwell	JCS	- (1954)	2012

$C_{25}H_{34}O_4$	3,20-Diacetoxy-3,5,20-pregnatriene	-	-	Band freq	Moffett	JACS	74 (1952)	2183
$C_{25}H_{34}O_4$	3β,20-Diacetoxy-5,16,20-pregnatriene	-	-	Band freq	Moffett	JACS	74 (1952)	2183
		-	Sol	Band freq	Djerassi	JACS	76 (1954)	1722
$C_{25}H_{34}O_4$	$\Delta^{3,5,17(20)}$-Pregnatriene-3,20-diol diacetate	-	Sol	Freq	Djerassi	JACS	77 (1955)	3826
$C_{25}H_{34}O_5$	3β-Acetoxy-12β,14-dihydroxy-card-8(14),20(22)dienolide	-	-	Struct	Cardwell	JCS	- (1954)	2012
$C_{25}H_{34}O_5$	3β-Acetoxy-14-hydroxy--$\Delta^{16(17),20(22)}$-cardadienolide	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{25}H_{34}O_5$	$\Delta^{8,11}$-Allopregnadiene-3β,20β-diol-7-one-diacetate	-	S	Group freq	Romo	JACS	74 (1952)	2918
$C_{25}H_{34}O_5$	$\Delta^{8:14,15}$-Allopregnadiene-3β,20β-diol-7-one diacetate	-	Sol	Band freq	Hemin	JACS	75 (1953)	1745
$C_{25}H_{34}O_5$	2β,4b-Dimethyl-1-carbo-methoxymethylene-2-methallyl-7-ethylene-dioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydro-phenanthrene-4-one	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{25}H_{34}O_5$	$\Delta^{5,16}$-Pregnadienediol-2,3β-one-20-diacetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Spec, Struct, Group freq	Jones	JACS	74 (1952)	2820
$C_{25}H_{34}O_5$	$\Delta^{5,16}$-Pregnadiene-3β,21-diol-20-one diacetate	-	Sol	Band freq	Djerassi	JACS	76 (1954)	1722
$C_{25}H_{34}O_5$	$\Delta^{5,16}$-Pregnadiene-21-ol-3,20-diol-21-acetate-3-ethylene ketal	-	S	Band freq	Allen	JACS	77 (1955)	1028

$C_{25}H_{34}O_6$	Acetyl derivative of Cannogenin	-	-	Spec	Golab	HCA	42 (1959)	2418
$C_{25}H_{34}O_6$	Acetylgomphogenin	600-4000	Sol	Spec	Watson	AJC	10 (1957)	79
$C_{25}H_{34}O_6$	Δ^{16}-Allopregnene-3β,12β-diol-11,20-dione diacetate	-	Sol	Group freq	Martinez	JACS	75 (1953)	239
		-	-	Group freq	Mueller	JACS	75 (1953)	4888
$C_{25}H_{34}O_6$	$\Delta^{8(9)}$-Allopregnene-7,20-dione-3β,11α-diol diacetate	-	Sol	Group freq	Djerassi	JACS	73 (1951)	4496
		-	-	Spec	Djerassi	JACS	74 (1952)	3321
		-	Sol	Band freq	Djerassi	JACS	75 (1953)	3505
$C_{25}H_{34-36}O_6$	Decarboxyhydrolimonin	2-16 μ	S	Spec, Band freq, Struct	Rosenfeld	JACS	73 (1951)	2491
$C_{25}H_{34}O_6$	2α,3β-Diacetoxy-Δ^{16}-allopregnene-12,20-dione	-	-	Group freq	Mueller	JACS	75 (1953)	4888
$C_{25}H_{34}O_6$	3β,20-Diacetoxy-(5,6)α-(16,17)α-dioxido-20-pregnene	-	-	Group freq, Struct	Moffett	JACS	76 (1954)	3678
$C_{25}H_{34}O_6$	3β,5α-Diacetoxy-9α,11α-epoxyallopregn-7-en-20-one	-	S	Group freq	Bladon	JCS	- (1953)	2916
$C_{25}H_{34}O_6$	6β,21-Diacetoxy-4-pregnene-3,20-dione	-	-	Ident	Eppstein	JACS	75 (1953)	408
$C_{25}H_{34}O_6$	2α,21-Dihydroxyprogesterone diacetate	-	-	Ident	Clarke	JACS	77 (1955)	661
$C_{25}H_{34}O_6$	16α,21-Dihydroxyprogesterone diacetate	-	Sol	Group freq	Hirschmann	JACS	75 (1953)	4862
$C_{25}H_{34}O_6$	Δ^5-3-Ethylenedioxypregnene-21-ol-11,20-dione acetate	-	-	Band freq	Constantin	JACS	75 (1953)	1716
		-	-	Band freq	Poos	JACS	76 (1954)	5031
$C_{25}H_{34}O_6$	6β-Hydroxydeoxycorticosterone-6,21-diacetate	-	Sol	Group freq	Amendolla	JCS	- (1954)	1226
		-	Sol	Ident	Romo	JOC	19 (1954)	1509

$C_{25}H_{34}O_6$	2 -Hydroxydesoxy-corticosterone diacetate	-	-	Ident	Sondheimer	JACS	75 (1953)	4712
$C_{25}H_{34}O_6$	19-Hydroxy-11-desoxy-corticosterone diacetate	-	Sol	Group freq	Barher	JOC	19 (1954)	1758
$C_{25}H_{34}O_6$	16α,17α-Oxido-Δ^5-pregnene-3β,21-diol-20-one diacetate	-	Sol	Band freq	Djerassi	JACS	76 (1954)	1722
$C_{25}H_{34}O_6$	$\Delta^{5,16}$-Pregnadien-21-ol-3,11,20-trione-3,20-bisethylene ketal	-	S	Band freq, Group freq	Allen	JACS	77 (1955)	1028
$C_{25}H_{34}O_6$	Δ^4-Pregnene-11α,21-diol-3,20-dione diacetate	-	Sol	Freq	Sondheimer	JACS	75 (1953)	2601
$C_{25}H_{34}O_7$	3-Ethylenedioxycortisone acetate	-	-	Spec, Ident	Poos	JACS	76 (1954)	5031
$C_{25}H_{34}O_7$	Δ^4-Pregnene-3,20-dione-6β,17α,21-triol 6,21-diacetate	-	-	Ident	Meister	JACS	76 (1954)	4050
		-	S	Band freq	Sondheimer	JACS	76 (1954)	5020
$C_{25}H_{34}O_7$	Δ^4-Pregnene-2α,17α,21-triol-3,20-dione-2,21-diacetate	-	Sol	Band freq	Rosenkrantz	JACS	77 (1955)	145
$C_{25}H_{34}O_7$	Δ^4-Pregnene-11α,17α,21-triol-3,20-dione-11,21 diacetate	-	-	Ident	Peterson	JACS	75 (1953)	412
		-	-	Band freq	Romo	JACS	75 (1953)	1277
		-	-	Ident	Sondheimer	JACS	75 (1953)	1282
		-	-	Ident	Meister	JACS	76 (1954)	4050
$C_{25}H_{34}O_8$	3-Ethylenedioxy-5ξ,6ξ-Oxidopregnane-11,20-dione-17α,21-diol-21-acetate	-	S	Band freq	Sondheimer	JACS	76 (1954)	5020
$C_{25}H_{34}O_8$	Pregnanetriol-4,17α,21-trione-3,11,20-diacetate-4,21	-	Sol	Band freq, Spec,	Jones	JACS	74 (1952)	2820

$C_{25}H_{34}O_9$	Allopregnane-3,11,20-trione -5α,6β,17α,21-tetrol-6,21-diacetate	-	S	Band freq	Sondheimer	JACS	76 (1954)	5020
$C_{25}H_{34}O_9$	Methyl-1-oxo-(11?),19-diacetoxy-5,14-dihydroxy -Δ^2-14β-etienate	-	-	Struct	Florey	JOC	19 (1954)	1174
$C_{25}H_{34}O_9$	Methyl-3-oxo-(11?),19-diacetoxy-5,14-dihydroxy -Δ^1-14β-etienate	-	-	Struct	Florey	JOC	19 (1954)	1174
$C_{25}H_{34}O_{13}$	Methyl β-(4-methyl-3-oxocyclohexylidene)- - tetra-o-acetylgluco-pyranosylpropionate	725-1767	S	I, Table	Briggs	JCS	- (1954)	4182
$C_{25}H_{34}O_{17}$	Keto-D-erythro-L-manno-nonulose octaacetate	-	-	Ident	Wolfrom	JACS	77 (1955)	3096
$C_{25}H_{35}BrO_6$	12α-Bromopregnanediol 3α,21-dione-11,20-diacetate	-	Sol	Group freq	Jones	JACS	74 (1952)	2828
$C_{25}H_{35}IO_5$	21-Iodo-Δ^{16}-allopregnene -3β,6β-diol-20-one diacetate	-	Sol	Band freq	Romo	JACS	76 (1954)	5169
$C_{25}H_{35}NO_6$	Lycoctam monoacetate	600-3600	S	Spec	Edwards	CJC	32 (1954)	708
$C_{25}H_{35}NO_7$	Lycoctamol monoacetate	600-3600	S	Spec	Edwards	CJC	32 (1954)	708
$C_{25}H_{36}$	1,1-Dibenzylundecane	700-1200	L,S	Spec, Effect of change of state	Richards	PRS	195 (1948)	1
$C_{25}H_{36}N_2O_{17}$	Hexaacetylmacrozamin	5-9 μ	S	Spec, Struct, Group freq	Langley	JCS	- (1951)	2309
		-	S	Group freq	Langley	JCS	- (1952)	4191
$C_{25}H_{36}O$	2,4-Di-t-butyl-2,3-dihydrophenyl duryl ketone	-	-	Group freq	Fuson	JACS	76 (1954)	5119
		-	-	Group freq	Fuson	JACS	76 (1954)	5466

$C_{25}H_{36}O_2$	2,2-Bis-(2-hydroxy-3-t-butyl-5-methylphenyl) propane	-	S,Sol	H bond	Coggeshall	JACS	72 (1950)	2836
$C_{25}H_{36}O_2$	Di-(4-hydroxy-2-methyl-5-t-butylphenyl)ethyl-methane	2.5-3.4 μ	S,Sol	Group freq	Ambelang	JACS	75 (1953)	947
$C_{25}H_{36}O_3$	$\Delta^{8,11}$-3-Ketocholadienic acid methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{25}H_{36}O_4$	$\Delta^{7,17(20)}$-Allopregnadiene-3β,20-diol diacetate	-	S	Band freq	Pataki	JACS	74 (1952)	3436
$C_{25}H_{36}O_4$	$\Delta^{3.5}$-Androstadienediol--3,17α-dipropionate	- 1580-3100	- Sol	Assign I	Jones Jones	JACS JACS	70 (1948) 72 (1950)	2024 86
$C_{25}H_{36}O_4$	3β,20-Diacetoxy-16,20-allopregnadiene	-	-	Band freq	Moffett	JACS	74 (1952)	2183
$C_{25}H_{36}O_4$	3β,20-Diacetoxy-5,20-pregnadiene	- -	- Sol	Band freq Group freq	Moffett Vanderhaeghe	JACS JACS	74 (1952) 74 (1952)	2183 2810
$C_{25}H_{36}O_4$	3β,21-Diacetoxy-$\Delta^{5,17(20)}$ pregnadiene	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{25}H_{36}O_4$	$\Delta^{5,17(20)}$-Pregnadiene-diol-3β,20-diacetate	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{25}H_{36}O_4$	$\Delta^{5(6),17(20)}$-Pregnadiene-3β,20-diol diacetate A	-	Sol	Group freq, Struct	Vanderhaeghe	JACS	74 (1952)	2810
$C_{25}H_{36}O_4$	$\Delta^{5(6),17(20)}$-Pregnadiene-3β,20-diol diacetate B	-	Sol	Group freq, Struct	Vanderhaeghe	JACS	74 (1952)	2810
$C_{25}H_{36}O_4$	$\Delta^{5,16}$-Pregnadiene-3,20-diene bisethylene ketal	-	S	Band freq, Ident	Bernstein	JACS	76 (1954)	5674

$C_{25}H_{36}O_4$	$\Delta^{[illegible]}$-Pregnadiene-3β-ol-20-one acetate ethylene ketal	-	S	Band freq	Bernstein	JACS	76 (1954)	5674
$C_{25}H_{36}O_4S$	Δ^5-Pregnen-3β-ol-20-one-21-thiol diacetate	-	Sol	Group freq	Djerassi	JACS	75 (1953)	3700
$C_{25}H_{36}O_5$	3β-Acetoxy-14-hydroxy-$\Delta^{20(22)}$-cardinolide	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{25}H_{36}O_5$	3β-Acetoxy-7-keto-Δ^5-bisnorcholenic acid methyl ester	699-1318	Sol	Table	Jones	JACS	77 (1955)	651
$C_{25}H_{36}O_5$	Acetyl derivative of Digitoxignenin	-	-	Spec	Golab	HCA	42 (1959)	2418
$C_{25}H_{36}O_5$	Δ^{16}-Allopregnene-3β,6β-diol-20-one diacetate	-	Sol	Band freq	Romo	JACS	76 (1954)	5169
$C_{25}H_{36}O_5$	3β,20-Diacetoxyallopregn-17(20)-en-11-one	-	Sol	Group freq	Barton	JCS	- (1954)	747
$C_{25}H_{36}O_5$	2α,4b-Dimethyl-1β-Carbomethoxymethyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4-one	-	S	Freq	Arth	JACS	77 (1955)	3834
$C_{25}H_{36}O_5$	2β,4b-Dimethyl-1α-Carbomethoxymethyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4-one	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{25}H_{36}O_5$	2β,4b-Dimethyl-7-ethylenedioxy-2-methallyl-1β-carbomethoxymethyl-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4-one	-	S	Band freq	Poos	JACS	77 (1955)	1026

$C_{25}H_{36}O_5$	$\Delta^{5,16}$-Pregnadien-21-ol-3,20-dione-3,20-bisethylene ketal	-	S	Band freq, Group freq	Allen	JACS	77 (1955)	1028
$C_{25}H_{36}O_5$	Δ^5-Pregnene-3β,16α-diol-20-one diacetate	-	S	Band freq	Bernstein	JACS	76 (1954)	5674
$C_{25}H_{36}O_5$	Δ^5-Pregnenediol-3β,17β-one-20 diacetate	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{25}H_{36}O_5$	Δ^5-Pregnene-3β,20β-diol-7-one diacetate	-	-	Ident	Romo	JOC	17 (1952)	1413
$C_{25}H_{36}O_5$	Δ^5-Pregnene-3β,21-diol-20-one diacetate	-	-	Ident	Djerassi	JACS	75 (1953)	3493
		-	Sol	Ident	Djerassi	JACS	76 (1954)	1722
		700-1400	Sol	Band, Ident	Jones	JACS	78 (1956)	1152
$C_{25}H_{36}O_5$	Δ^{16}-Pregnenediol-3β,12β-one-20 diacetate	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{25}H_{36}O_5$	Δ^5-Pregnene-3,20-dione-16α,17α-oxide bisethylene ketal	-	S	Band freq	Bernstein	JACS	76 (1954)	5674
$C_{25}H_{36}O_6$	Allopregnan-3β,11α-diol-7,20-dione diacetate	-	Sol	Band freq	Djerassi	JACS	73 (1951)	4496
		-	Sol	Group freq	Djerassi	JACS	74 (1952)	3321
		-	Sol	Band freq	Djerassi	JACS	75 (1953)	3505
$C_{25}H_{36}O_6$	Allopregnane-3β,12β-diol-11,20-dione diacetate	-	Sol	Group freq	Martinez	JACS	75 (1953)	239
$C_{25}H_{36}O_6$	Allopregnane-3β,20β-diol-7,11-dione diacetate	-	Sol	Freq	Romo	JACS	74 (1952)	2918
$C_{25}H_{36}O_6$	Allopregnane-3β,21-diol-11,20-dione-3,21-diacetate	770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{36}O_6$	Allopregnane-11α,21-diol-3,20-dione diacetate	-	Sol	Freq	Sondheimer	JACS	75 (1953)	2601

$C_{25}H_{36}O_6$	$\Delta^{}$-Androsten-11α-ol-3,17-dione-11-acetate-3,17-diethylene ketal	-	S	Group freq	Bernstein	JACS	75 (1953)	1481
$C_{25}H_{36}O_6$	Δ^4-Androstenetriol-3β,4,17β-triacetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{25}H_{36}O_6$	Δ^5-Androstenetriol-3β,16-17-triacetate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{25}H_{36}O_6$	11-Dehydrocorticosterone bisethylene ketal	-	S	Band freq	Bernstein	JACS	77 (1955)	2331
$C_{25}H_{36}O_6$	3β,5α-Diacetoxyallo-pregnane-11,20-dione	-	S	Band freq	Bladon	JCS	- (1954)	125
$C_{25}H_{36}O_6$	16α,21-Diacetoxy-Δ^5-pregnen-3β-ol-20-one	-	Sol	Group freq	Hirschmann	JACS	75 (1953)	4862
$C_{25}H_{36}O_6$	3-Ethoxy-Δ^2-allopregnen-17α,21-diol-11,20-dione-21-acetate	-	-	Ident, Spec	Oliveto	JACS	74 (1952)	2248
$C_{25}H_{36}O_6$	dl-Δ^5-3-Ethylenedioxy-pregnene-11β,21-diol-20-one-21-acetate	-	-	Band freq	Poos	JACS	76 (1954)	5031
$C_{25}H_{36}O_6$	11α-Hydroxy-16α,17α-oxido-progesterone-3,20-bis-ethylene ketal	-	-	Group freq	Peterson	JACS	77 (1955)	4428
$C_{25}H_{36}O_6$	Methyl-3β-acetoxy-9α,11α-epoxy-5α-hydroxybisnor-allochol-7-enate	-	S	Group freq	Bladon	JCS	- (1953)	2921
$C_{25}H_{36}O_6$	Methyl-3β-acetoxy-5α-hydroxy-11-keto-9β-bis-norallochol-7-enate	-	Sol	Group freq	Bladon	JCS	- (1953)	2921
$C_{25}H_{36}O_6$	Methyl-3β-acetoxy-5β-hydroxy-7-oxo-bisnor-allochol-9(11)-enoate	-	Sol	Band freq	Elks	JCS	- (1954)	463

$C_{25}H_{36}O_6$	Methyl-3α,11-diacetoxy-$\Delta^{9(11)}$-etiocholenate	-	Sol	Band freq	Hirschmann	JACS	75 (1953)	2361
$C_{25}H_{36}O_6$	9α,11α-Oxidoallopregnane-3β,20β-diol-7-one diacetate	-	S	Bad	Stork	JACS	73 (1951)	3546
		-	S	Band freq	Djerassi	JACS	75 (1953)	3505
$C_{25}H_{36}O_6$	16α,17α-Oxidoallopregnane-3β,11α-diol-20-one diacetate	-	-	Band freq	Romo	JACS	75 (1953)	1277
$C_{25}H_{36}O_6$	$\Delta^{5,7}$-Pregnadiene-17α,21-diol-3,20-dione-3,20-bisethylene ketal	-	S	Band freq	Antonucci	JACS	76 (1954)	2956
$C_{25}H_{36}O_6$	$\Delta^{5,9(11)}$-Pregnadiene-17α,21-diol-3,20-dione-3,20-bisethylene ketal	-	S	Group freq	Bernstein	JACS	75 (1953)	4830
$C_{25}H_{36}O_6$	$\Delta^{5,6}$-Pregnadiene-11β,21-diol-3,20-dione-3,20-bisethylene ketal	-	S	Band freq, Group freq	Allen	JACS	77 (1955)	1028
$C_{25}H_{36}O_6$	Pregnane-11α,21-diol-3,20-dione diacetate	-	Sol	Freq	Sondheimer	JACS	75 (1953)	2601
$C_{25}H_{36}O_6$	Δ^4-Pregnenetriol-17α,20,21-one-3-diacetate-20,21	-	Sol	Group freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{25}H_{36}O_6$	3β,16α,17β-Triacetoxy-Δ^5-androstene	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{25}H_{36}O_7$	3β-Acetoxy-14-hydroxy-cardanolide	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{25}H_{36}O_7$	3β-Acetoxy-14-hydroxy-17α-cardanolide	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{25}H_{36}O_7$	Allopregnanetriol-3β,17α,21-dione-11,20-diacetate-3,21	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
		-	-	Group freq	Chamberlin	JACS	77 (1955)	1221
		770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237

$C_{25}H_{36}O_7$	Allopregnane-3β,17α, 21-triol-12,20-dione-3,21-diacetate	1700	Sol	Spec, Group freq	Rothman	JACS	77 (1955)	2229
$C_{25}H_{36}O_7$	Allopregnane-11α,17α, 21-triol-3,20-dione-11, 21-diacetate	-	-	Band freq	Romo	JACS	75 (1953)	1277
$C_{25}H_{36}O_7$	Cortisone bisethylene ketal	-	S	Ident	Allen	JACS	76 (1954)	6116
$C_{25}H_{36}O_7$	17α,21-Diacetoxy-3α-hydroxypregnane-11, 20-dione	-	-	Ident	Schneider	JACS	77 (1955)	4184
$C_{25}H_{36}O_7$	3α,7α-Diacetoxy-12-keto-etiocholanic acid methyl ester	1700	Sol	Freq, Struct, Anal	Jones	JACS	71 (1949)	241
$C_{25}H_{36}O_7$	3-Keto-7α,12α-diacetoxy-etiocholanic acid, methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{25}H_{36}O_7$	Pregnane-3α,17α,21-triol-11,20-dione-3, 21-diacetate	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{36}O_7$	Pregnane-5α,6β,21-triol-3,20-dione-6β,21-diacetate	-	S	Band freq	Bernstein	JACS	77 (1955)	2233
$C_{25}H_{36}O_7$	Pregnane-11α,17α,21-triol-3,20-dione-11,21-diacetate	-	-	Ident	Oliveto	JACS	75 (1953)	3651
$C_{25}H_{36}O_8$	Allopregnane-3,20-dione -5α,6β,17α,21-tetrol-6,21-diacetate	-	S	Band freq	Sondheimer	JACS	76 (1954)	5020
$C_{25}H_{36}O_8$	12-Carboxy-12,13-seco-allopregnane-3β,13α,17α, 21-tetrol-20-one-12,13, lactone-3,21-diacetate	1700	Sol	Band freq, Spec	Rothman	JACS	77 (1955)	2229

$C_{25}H_{36}O_8$	7-Keto-3α-succinoxy-12-hydroxyetiocholanic acid methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{25}H_{36}O_{10}$	Glaucarubin	-	-	Group study	Ham	JACS	76 (1954)	6066
$C_{25}H_{37}BrO_4$	Methyl-3,11-diketo-12α-bromocholanate	-	-	Freq	Heyman	JACS	73 (1951)	5252
$C_{25}H_{37}BrO_5$	11-Bromopregnanediol-3,20-one-12 diacetate	-	Sol	Group freq	Jones	JACS	74 (1952)	2828
$C_{25}H_{37}NO_2.HBr$	5-Palmitoyl-8-quinolinol hydrobromide	-	-	Struct	Edgerton	JACS	74 (1952)	5209
$C_{25}H_{37}NO_6$	Dihydrolycoctam monoacetate	600-3600	S	Spec	Edwards	CJC	32 (1954)	708
$C_{25}H_{38}$	1-Pentadecylnaphthalene	691-3188	L	Table, I	Anderson	JCS	- (1953)	443
$C_{25}H_{38}$	2-Pentadecylnaphthalene	720-3245	L	Table, I	Anderson	JCS	- (1953)	443
$C_{25}H_{38}Br_2O_3$	2,2-Dibromoandrostanol-17β-one-3 hexahydrobenzoate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{25}H_{38}O_3$	Δ^{11}-3α,9α-Epoxycholenic acid methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		650-3100	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{25}H_{38}O_3$	$\Delta^{(3 \text{ or } 4)}$-12-Ketocholenic acid methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{25}H_{28}O_3$	Δ^{11}-3-Ketocholenic aci methyl ester	1580-3100	Sol	Group study, I	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{25}H_{38}O_3S$	Δ^4-Pregnen-3-one-20β-ol acetate ethylenehemithio ketal	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3704
$C_{25}H_{38}O_4$	Δ^{16}-Allopregnenediol-3β,20β diacetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Group freq, Spec, Struct	Jones	JACS	74 (1952)	2820

$C_{25}H_{38}O_4$	cis-$\Delta^{17(20)}$-Allopregnene-3β,20-diol diacetate	-	Sol	Group freq, Struct	Vanderhaeghe	JACS	74 (1952)	2810
$C_{25}H_{38}O_4$	trans-$\Delta^{17(20)}$-Allopregnene 3β,20-diol diacetate	-	Sol	Group freq, Struct	Vanderhaeghe	JACS	74 (1952)	2810
$C_{25}H_{38}O_4$	$\Delta^{17(20)}$-Allopregnenediol-3β,20 diacetate	-	Sol	Group freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{25}H_{38}O_4$	$\Delta^{20(21)}$-Allopregnene-3β, 20-diol diacetate	-	Sol	Group Freq, Struct	Vanderhaeghe	JACS	74 (1952)	2810
$C_{25}H_{38}O_4$	Δ^5-Androstenediol-3β, 17α dipropionate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{25}H_{38}O_4$	16α,20 -Diacetoxy-Δ^2-allopregnene	2.5-15μ	Sol	Speo, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{25}H_{38}O_4$	3β,20α-Diacetoxy-Δ^5-pregnene	2.5-15μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{25}H_{38}O_4$	3,6-Diketoallocholanic acid, methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{25}H_{38}O_4$	3,12-Diketocholanic acid methyl ester	1700	Sol	Freq, Struct, Anal	Jones	JACS	71 (1949)	241
$C_{25}H_{38}O_4$	3α,9α-Epoxy-11-keto-cholanic acid methyl ester	1712	Sol	Freq, Struct	Jones	JACS	71 (1949)	241
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{25}H_{38}O_4$	Δ^5-16α-Ethoxypregnenol 3β-one-20-acetate	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{25}H_{38}O_4$	$\Delta^{9(11)}$-12-Keto-3α-hydroxy cholenic acid methyl ester	1580-3100	Sol	Group study	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Group freq	Cole	JACS	74 (1952)	5571
		-	Sol	Group freq	Archer	JACS	76 (1954)	4915
		-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69

$C_{25}H_{38}O_4$	Methyl-3-keto-9α,11α-oxidocholanate	-	-	Band freq	Heymann	JACS	73 (1951)	5256
$C_{25}H_{38}O_4$	Δ^4-Pregnenediol-3,20-diacetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{25}H_{38}O_4$	Δ^5-Pregnene-3β,20β-diol diacetate	-	S	Band freq	Romo	JOC	17 (1953)	1413
$C_{25}H_{38}O_4$	Δ^{16}-Pregnenediol-3β,20β-diacetate	1580-3100	Sol	Group Study, I	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	74 (1952)	2820
$C_{25}H_{38}O_4$	$\Delta^{17(20)}$-Pregnenediol-3α,20 diacetate	-	Sol	Group freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{25}H_{38}O_4$	Progesterone bisethylene ketal	-	S	Group study	Antonucci	JOC	17 (1952)	1369
		-	S	Ident	Allen	JACS	76 (1954)	6116
$C_{25}H_{28}O_5$	Allopregnane-3α,21-diol-20-one-3,21-diacetate	770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{38}O_5$	Allopregnane-3β,6β-diol-20-one diacetate	-	Sol	Band freq	Romo	JACS	76 (1954)	5169
$C_{25}H_{38}O_5$	Allopregnanediol-3β,17α-one-20 diacetate	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
		-	-	Ident	Turner	JACS	74 (1952)	4220
		-	Sol	Group freq, Struct	Turner	JACS	75 (1953)	3489
$C_{25}H_{38}O_5$	Allopregnane-3β,20β-diol-11-one diacetate	-	Sol	Group freq	Romo	JACS	74 (1952)	2918
$C_{25}H_{38}O_5$	3β,16α-Diacetoxyallopregnan-20-one	-	-	Group freq	Hirschmann	JOC	20 (1955)	572
$C_{25}H_{38}O_5$	3β,17β-Diacetoxyallopregnan-20-one	-	-	Ident	Soloway	JACS	76 (1954)	2941
$C_{25}H_{38}O_5$	3β,21-Diacetoxyallopregnan-20-one	-	-	Ident	Soloway	JACS	76 (1954)	2941
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152

$C_{25}H_{38}O_5$	3β,20α-Diacetoxy-17α-hydroxy-Δ^5-pregnene	11.9-12.7 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{25}H_{38}O_5$	3β,20 -Diacetoxy-17α-hydroxy-Δ^5-pregnene	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{25}H_{38}O_5$	2β,4b-Dimethyl-1α-carbomethoxymethyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4α-ol	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{25}H_{38}O_5$	Methyl-3β-hydroxy-3α,9α-oxido-11-ketocholanate	-	-	Freq	Heymann	JACS	73 (1951)	5252
$C_{25}H_{38}O_5$	Pregnane-3α,6α-diol-20-one-3,6-diacetate	770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{38}O_5$	Pregnanediol-3α,11α-one-20 diacetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		-	Sol	Ident	Mancera	JACS	75 (1953)	1286
		-	Sol	Band freq, Ident	Sondheimer	JACS	75 (1953)	1282
$C_{25}H_{38}O_5$	Pregnanediol-3α,20α-one-11 diacetate	2.5-13 μ	Sol	Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
		-	Sol	Freq	Page	JCS	- (1955)	2017
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{38}O_5$	Pregnane-3α,20β-diol-11-one-3,20-diacetate	-	-	Band freq	Mancera	JACS	75 (1953)	1286
		-	-	Ident	Oliveto	JACS	75 (1953)	488
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{38}O_5$	Δ^5-Pregnene triol-3β,17α,20-diacetate-3,20	-	Sol	Band freq, Spec,	Jones	JACS	74 (1952)	2820
$C_{25}H_{38}O_5$	Δ^5-Pregnen-16α-ol-3,20-dione bisethylene ketal	-	S	Band freq	Bernstein	JACS	76 (1954)	5674
$C_{25}H_{38}O_5$	Δ^5-Pregnen-17α-ol-3,20-dione bisethylene ketal	-	S	Band freq	Bernstein	JACS	76 (1954)	5674

$C_{25}H_{38}O_5$	Δ^5-Pregnen-21-ol-3,20-dione-3,20-bisethylene ketal	-	S	Band freq	Bernstein	JACS	77 (1955)	2233
$C_{25}H_{38}O_6$	3α-Acetoxy-21,21-dimethoxy-pregnane-11,20-dione	-	S	Ident	Mattox	JACS	74 (1952)	4340
$C_{25}H_{38}O_6$	Allopregnane-3β,7,11α-triol-20-one-3,11-diacetate	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3505
$C_{25}H_{38}O_6$	Allopregnane-3β,11β,21-triol-20-one-3,21-diacetate	770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{38}O_6$	Allopregnane-3β,11α,17α-triol-20-one-3,11-diacetate	-	-	Band freq, Ident	Romo	JACS	75 (1953)	1277
$C_{25}H_{38}O_6$	Allopregnanetriol-3β,17α,21-one-20-diacetate-3,21	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
		770-3700	S,Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{38}O_6$	Δ^7-Allopregnene-17α,21-diol-3,20-dione-3,20-bisethylene ketal	-	S	Band freq	Antonucci	JACS	76 (1954)	2956
$C_{25}H_{38}O_6$	Androstanetriol-2,3,17 triacetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{25}H_{38}O_6$	Androstane-3α,16α,17β-triol-3,16,17-triacetate	770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{38}O_6$	11-Epicorticosterone bisethylene ketal	-	S	Band freq	Bernstein	JACS	77 (1955)	2331
$C_{25}H_{38}O_6$	Methyl 3β-acetoxy-5α-hydroxy-11-ketobisnor-allocholanate	-	Sol	Group freq	Bladon	JCS	- (1953)	2921
$C_{25}H_{38}O_6$	Methyl 3β-acetoxy-5α-hydroxy-1-keto-9β-bisnorallocholanate	-	Sol	Group freq	Bladon	JCS	- (1953)	2921

$C_{25}H_{38}O_6$	Pregnanetriol-3α,11α,21-one-20 diacetate	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{25}H_{38}O_6$	Pregnane-3α,11β,17α-triol-20-one 11,17-diacetate	-	-	Ident	Oliveto	JACS	75 (1953)	5486
$C_{25}H_{38}O_6$	Pregnane-3α,17α,20β-triol-11-one, 3,20-diacetate	-	-	Ident	Oliveto	JACS	75 (1953)	488
$C_{25}H_{38}O_6$	Pregnanetriol-3α,17α,21-one-20-diacetate-3,21	-	Sol	Group freq, Spec	Jones	JACS	74 (1952)	2820
		770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{38}O_6$	Pregnanetriol-3β,17α,21-one-20-diacetate-3,21	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
		770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{20}H_{38}O_6$	Pregnanol-17α-trione-3,11,20-3,20-bisethylene ketal	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{25}H_{38}O_6$	Δ^5-Pregnene-17α,21-diol-3,20-bisethylene ketal	-	S	Band freq	Antonucci	JACS	76 (1954)	2956
$C_{25}H_{38}O_6$	3β,16α,17β-Triacetoxy-androstane	2.5-15 μ	Sol	Spec	Hirschmann	JACS	74 (1952)	5357
		-	-	Ident	Leeds	JACS	76 (1954)	2943
		-	-	Ident	Hirschmann	JOC	20 (1955)	572
$C_{25}H_{38}O_6$	3β,16β,17β-Triacetoxy-androstane	-	-	Ident	Leeds	JACS	76 (1954)	2943
$C_{25}H_{38}O_6$	3,6,17-Triethylenedioxy-androstane	-	-	Group freq	Rosenkrantz	JACS	76 (1954)	5024
$C_{25}H_{38}O_7$	21-Acetoxy-17α-hydroxy-3,3-dimethoxyallopregnane-11,20-dione	-	S	Group freq	Page	JCS	- (1955)	2017
$C_{25}H_{38}O_7$	Allopregnane-3α,11β,17α,21-tetrol-20-one-3,21-diacetate	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{38}O_7$	Allopregnanetetrol-3β,11β,17α,21-one-20-diacetate-3,21	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
		770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237

$C_{25}H_{38}O_7$	3,3-Dimethoxypregnane-17α,21-diol-11,20-dione 21-acetate	-	-	Group study	Oliveto	JACS	76 (1954)	6113
$C_{25}H_{38}O_7$	2α,4b-Dimethyl-1β-carbomethoxymethyl-2-methyl 2,3-dihydroxypropyl)-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene -4-one	-	S	Freq	Arth	JACS	77 (1955)	3834
$C_{25}H_{38}O_7$	11-epihydrocortisone bisethylene ketal	-	-	Ident	Antomucci	JOC	18 (1953)	70
		-	S	Group study	Sondheimer	JACS	75 (1953)	1282
		-	S	Ident	Allen	JACS	76 (1954)	6116
$C_{25}H_{38}O_7$	3α-Hydroxy-7α,12α-diacetoxyetiocholanic acid, methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{25}H_{38}O_7$	Pregnanetetrol-3α,11β,17 ,21-one-20-diacetate -3,21	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
		770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{38}O_7$	Pregnane-3β,11β,17α,21-tetrol-20-one-3,21-diacetate	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{38}O_7$	Δ^5-Pregnene-11β,17α,21-triol-3,20-dione-3,20-diethylene ketal	-	-	Ident	Antomucci	JOC	18 (1953)	70
$C_{25}H_{38}Si$	Phenylbenzyl-n-dodecyl silane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{25}H_{39}BrO_6$	4-Bromopregnane-11β,17α-diol-3,20-dione-3,20-bisethylene ketal	-	-	Group freq	Oliveto	JACS	77 (1955)	2224
$C_{25}H_{39}ClO_3$	$\Delta^{9:11}$-3α-Hydroxy-12α-chlorocholenic acid methyl ester	-	Sol	Freq	Cole	JACS	74 (1952)	5571

$C_{25}H_{39}NO$	5-Hexadecyl-8-quinolinol	-	-	Struct	Edgerton	JACS	74 (1952)	5209
$C_{25}H_{40}O_2$	Methyl-$\Delta^{9(11)}$-cholenate	700-1000	Sol	Spec, Band freq	Bladon	JCS	- (1951)	2402
		-	Sol	Freq	Heymann	JACS	73 (1951)	5252
$C_{25}H_{40}O_3$	3α-Hydroxy-$\Delta^{9;11}$-cholenic acid methyl ester	-	-	Assign	Jones	JACS	70 (1948)	2024
		1580-3100	Sol	Group study, I	Jones	JACS	72 (1950)	86
$C_{25}H_{40}O_3$	3α-Hydroxy-Δ^{11}-cholenic acid methyl ester	-	-	Assign	Jones	JACS	70 (1948)	2024
		1580-3100	Sol	Group study, I	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
		650-3100	Sol	Group freq	Henbest	JCS	- (1954)	800
$C_{25}H_{40}O_3$	Δ^5-3β-Hydroxycholenic acid methyl ester	1580-3100	Sol	Group study, I	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Group freq	Cole	JACS	74 (1952)	5571
		2.5-15μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		650-1350	Sol	Discussion	Jones	JACS	80 (1950)	6121
$C_{25}H_{40}O_3$	Methyl-$\Delta^{9;11}$-3-hydroxycholenate	700-1000	Sol	Spec, Band freq	Bladon	JCS	- (1951)	2402
$C_{25}H_{40}O_4$	Allopregnane-3α,20α-diol-3,20-diacetate	770-3700	Sol	Freq, I	Hirschmann	JACS	77 (1955)	2237
		700-1400	Sol	Band discussed, Ident	Jones	JACS	78 (1956)	1152
$C_{25}H_{40}O_4$	Allopregnanediol-3β,20α-diacetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700-1400	Sol	Spec, Ident	Jones	JACS	78 (1956)	1152
$C_{25}H_{40}O_4$	Allopregnane-3β,20β-diol diacetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{25}H_{40}O_4$	Benzoyl stearoyl peroxide	-	Sol	Group freq	Davison	JCS	- (1951)	2456
$C_{25}H_{40}O_4$	3α,12β-Dihydroxy-$\Delta^{9;11}$-cholanic acid methyl ester	-	-	Assign	Jones	JACS	70 (1948)	2024

$C_{25}H_{40}O_4$	9α,11α-Epoxy-3α-hydroxy-cholanic acid methyl ester	-	Sol	Group freq	Cole	JACS	74 (1952)	5571
$C_{25}H_{40}O_4$	3α-Hydroxy-11α,12α-Epoxycholanic acid, methyl ester	-	-	Assign	Jones	JACS	70 (1948)	2024
		-	Sol	Group freq	Cole	JACS	74 (1952)	5571
$C_{25}H_{40}O_4$	3α-Hydroxy-6-ketocholanic acid methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Group freq	Cole	JACS	74 (1952)	5571
$C_{25}H_{40}O_4$	3α-Hydroxy-11-ketocholanic acid methyl ester	1700	Sol	Freq, Struct, Anal	Jones	JACS	71 (1949)	241
		-	Sol	Group freq	Cole	JACS	74 (1952)	5571
$C_{25}H_{40}O_4$	3α-Hydroxy-12β-methoxy $-\Delta^{9:11}$-cholenic acid	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{25}H_{40}O_4$	Methyl-3α-hydroxy-12-ketocholanate	-	Sol	Group freq	Archer	JACS	76 (1954)	4915
		-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{25}H_{40}O_4$	Pregnanediol-3α,20α-diacetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{40}O_4$	Pregnanediol-3α,20β-diacetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		-	Sol	Band freq	Jones	JACS	74 (1952)	80
$C_{25}H_{40}O_4$	Pregnanediol-3β,20β-diacetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{40}O_5$	Allopregnane-3β,11β,20β-triol-3,20-diacetate	-	-	Band freq	Romo	JACS	74 (1952)	2918
$C_{25}H_{40}O_5$	Allopregnane-3β,17α,20α-triol-3,20-diacetate	-	-	Ident	Soloway	JACS	76 (1954)	2941
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{40}O_5$	Allopregnane-3β,17α,20β-triol-3 ,20-diacetate	770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{25}H_{40}O_5$	3α,12α-Dihydroxy-7-keto-cholanic acid methyl ester	1700	Sol	Freq, Struct	Jones	JACS	71 (1949)	241

$C_{25}H_{40}O_5$	Methyl-3α,12β-dihydroxy-11-ketocholanate	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{25}H_{40}O_5$	Pregnanetriol-3α,12α-20β-diacetate-3,12	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{25}H_{40}O_5$	Pregnanetriol-3α,12α,20β-diacetate-3,20	1600-3700	Sol	Spec, Band freq, Struct	Jones	JACS	74 (1952)	2820
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{25}H_{40}O_5$	Pregnanetriol-3,17α,20-diacetate-3,20	-	Sol	Band freq, Spec, Struct	Jones	JACS	74 (1952)	2820
$C_{25}H_{40}O_6$	Androstane-3β,17β-diol dicathylate	-	-	Freq	Fieser	JACS	74 (1952)	3309
$C_{25}H_{40}O_6$	Pregnane-5α,21-diol-3,20-dione-3,20-bisethylene ketal	-	S	Band freq	Bernstein	JACS	77 (1955)	2233
$C_{25}H_{40}O_8$	Pregnane-5α,11β,17α,21-tetrol-3,20-dione-3,20-bisethylene ketal	-	S	Band freq	Bernstein	JACS	77 (1955)	2233
$C_{25}H_{41}NO_4$	3β,17α-Dihydroxy-20α-acetamidoallopregnane-3-monoacetate	-	-	Struct	Ramirez	JACS	77 (1955)	134
$C_{25}H_{41}NO_4.HCl$	Pregnanediol-3α,12α-amine-20-hydrochloride diacetate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{25}H_{42}N_2O_5.HCl$	dl-threo-2-Amino-1-(p-nitrophenyl)-1-o-palmitoyl-1,3-propanediol hydrochloride	-	-	Band freq	Edgerton	JACS	77 (1955)	27
$C_{25}H_{42}N_4O_4$	2-Nonadecanone-2,4-dinitrophenylhydrazone	2-15 μ	S	Band freq, Spec	Jones	AC	28 (1956)	191
$C_{25}H_{42}O_2$	Cholanic acid methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956

$C_{25}H_{42}O_3$	Bisnorallocholane-3β, 16β,22-triol acetonide	-	S	Band freq	Klass	JACS	77 (1955)	3829
$C_{25}H_{42}O_3$	3,4-Bisnorcholestane-5, 5-diol-2-oic-2→5-lactole	-	-	Group freq	Weisnborn	JACS	76 (1954)	552
$C_{25}H_{42}O_3$	3α-Hydroxycholanic acid methyl ester	-	-	Assign	Jones	JACS	70 (1948)	2024
		-	Sol	Group freq	Cole	JACS	74 (1952)	5571
		1692-1792	Sol	Ext. Coefficient, I	Jones	JACS	74 (1952)	80
$C_{25}H_{42}O_4$	3α,12α-Dihydroxycholanic acid methyl ester	1692-1792	Sol	Ext. Coefficient, I	Jones	JACS	74 (1952)	80
$C_{25}H_{42}O_4$	3β,12β-Dihydroxycholanic acid methyl ester	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{25}H_{42}O_4$	Hyodeoxycholic acid methyl ester	-	-	Spec	Morcillo	ARS	53B (1957)	145
$C_{25}H_{42}O_5$	Bisnorallocholane-2α, 3β,15β,16β,22-pentaol acetonide	-	S	Band freq	Klass	JACS	77 (1955)	3829
$C_{25}H_{44}$	9-(2-Phenylethyl)-heptadecane	1.1-1.25 μ	L	Anal	Evans	AC	23 (1951)	1604
$C_{25}H_{44}$	10-Phenylnonadecane	2-15 μ	L	Spec	Hawkes	SA	16 (1960)	633
$C_{25}H_{46}$	1,5-Dicyclohexyl-3-(2-cyclohexylethyl) pentane	3.4-14.7 μ	Sol	Struct, Group anal	Francis	AC	25 (1953)	1466
$C_{25}H_{46}$	1,5-Dicyclohexyl-3-(3-cyclopentylpropyl) pentane	1.1-1.25 μ	L	Anal	Evans	AC	23 (1951)	1604
$C_{25}H_{46}$	1,7-Dicyclopentyl-4-(2-cyclohexylethyl)-heptane	1.1-1.25 μ	L	Anal	Evans	AC	23 (1951)	1604
$C_{25}H_{46}$	1,7-Dicyclopentyl-4-(3-cyclopentylpropyl)heptane	-	-	Band freq	Bomstein	AC	25 (1953)	512

$C_{25}H_{48}$	1-Cyclohexyl-3-(2-cyclohexylethyl) hendecane	1.1-1.25 μ	L	Spec, Anal	Evans	AC	23 (1951)	1604
$C_{25}H_{48}$	1-Cyclopentyl-4-(3-cyclopentylpropyl) dodecane	1.1-1.25 μ 3-14.7 μ	L Sol,L	Spec, Anal Struct, Group anal	Evans Francis	AC AC	23 (1951) 25 (1953)	1604 1466
$C_{25}H_{48}$	1-n-Pentadecyldeca-hydronaphthalene	3.4-14.7 μ	Sol	Struct, Group anal	Francis	AC	25 (1953)	1466
$C_{25}H_{48}O_4$	Di(2-ethylhexyl) azelate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{25}H_{50}$	9-(3-cyclopentylpropyl) heptadecane	3-14.7 μ	Sol,L	Struct, Group anal	Francis	AC	25 (1953)	1466
$C_{25}H_{51}N_2O_9P$	Hydroxyformoxy-sphingomyelin	3.01-13.86 μ	S	Band freq	Marinetti	JACS	76 (1954)	1345
$C_{25}H_{52}$	9-Octylheptadecane	1.1-1.25 μ 3-14.7 μ	L Sol,L	Anal Struct, Group anal	Evans Francis	AC AC	23 (1951) 25 (1953)	1604 1466
$C_{25}H_{52}$	n-Pentacosane	750-1150 700-1500	S S	Struct, Band freq Assign, Freq	Snyder Snyder	JCP JMS	27 (1957) 4 (1960)	969 411
$C_{25}H_{52}Si$	Cyclopentamethylene-didecylsilane	2-35 μ	L	Assign	Oshesky	JACS	79 (1957)	2057
$C_{25}H_{54}NO_7P$	Stearoyl glycollecithin hydrate	2-16 μ	S	Spec	Baer	JACS	75 (1953)	5533

C_{26} COMPOUNDS

$C_{26}H_{16}$	Dibiphenyleneethylene	660-4000	Sol	Spec	Wood	AC	30 (1958)	1339
$C_{26}H_{16}Cl_4N_2O_2$	2-Benzamido-N-benzoyl-3,5, 2',4'-tetrachlorodiphenyl -amine	3-15 μ	-	Group freq	Ford	JCS	- (1953)	3529

$C_{26}H_{16}N_2O_4$	1,2-Dinitro-1,2-bidiphenyleneethane	650-5000	S	Spec	Freeman	JOC	21 (1956)	472
$C_{26}H_{16}O_2$	Dibenzanthrone	600-2000	S	Spec	Durie	AJC	10 (1957)	429
$C_{26}H_{16}O_3$	2-(5-chrysenoyl) benzoic acid	5.5-6.5 μ	Sol	Ident, Substitution effect	Sawicki	AC	31 (1959)	523
$C_{26}H_{17}N_3$	4',4"-Dihydrodiquinolino (2':3'-1:2) (3":2"-5:6) isojuline	-	-	Band freq, I	Braunholtz	JCS	- (1955)	393
$C_{26}H_{17}N_3$	Diquinolino(2':3'-1:2) (3":2"-5:6)juline	-	-	Band freq, Ident	Braunholtz	JCS	- (1955)	393
$C_{26}H_{18}$	10,10-Diphenyldibenzofulvene	660-4000	Sol	Spec	Wood	AC	30 (1958)	1339
$C_{26}H_{18}N_2O_2$	p-Azobenzophenone	800-4000	S	Spec	Curtin	JACS	76 (1954)	494
$C_{26}H_{18}N_2O_4S_2$	9,10-Anthraquinone dibenzenesulfonimide	-	-	Group freq	Adams	JACS	74 (1952)	2593
$C_{26}H_{18}N_2O_5$	P,P'-Dibenzoxyazoxybenzene	-	S	Ident	Leonard	JOC	17 (1952)	1071
$C_{26}H_{18}N_4$	Phenylazo-β-$\alpha\beta'$-azonaphthalene	-	S	Freq	LeFevre	AJC	10 (1957)	26
$C_{26}H_{18}O_2$	Fluorenonepinacol	3 μ	Sol	Spec, Freq	Kuhn	JACS	74 (1952)	2492
$C_{26}H_{18}O_6$	1,3,10-Triacetoxyperylene	743-1770	S	Table	Brown	JCS	- (1954)	1280
$C_{26}H_{19}ClN_2O_4S$	4-Chloro-6-benzenesulfonyl-o-phenylenedibenzamide	-	-	Ident	Adams	JACS	76 (1954)	2763
$C_{26}H_{19}NO_3S$	Anthracene-p-quinonemonobenzene sulfonimide mono adduct	-	-	Freq	Adams	JACS	74 (1952)	2605

$C_{26}H_{19}NO_3S$	9,10-σ-Benzeno-4-benzenesulfonamido-1-hydroxyanthracene	-	-	Group study	Adams	JACS	74 (1952)	2605
$C_{26}H_{20}$	cis-9,10-Dihydro-9,10-diphenylphenanthrene	-	-	Band freq	Bergmann	JOC	19 (1954)	1387
$C_{26}H_{20}$	trans-9,10-Dihydro-9,10-diphenylphenanthrene	-	-	Band freq	Bergmann	JOC	19 (1954)	1387
$C_{26}H_{20}$	Tetraphenylethylene	3.39-14.40μ	Sol	Ident	Brewster	JACS	76 (1954)	6368
$C_{26}H_{20}N_2O_2$	4-Benzamido-N-benzoyldiphenylamine	3-15μ	-	Group freq	Ford	JCS	- (1953)	3529
$C_{26}H_{20}N_2O_4S_2$	9,10-Anthracene dibenzenesulfonamide	-	-	Group study	Adams	JACS	74 (1952)	2593
$C_{26}H_{20}N_4$	1,2,2a,3,10,10a-Hexahydrodiindolo(3':2'-4:5)(2":3"-8:9)-2a,10a-diazapyrene	-	-	Struct	Almond	JCS	- (1951)	1906
$C_{26}H_{20}O$	Benzopinacolone	5.97-14.69μ	S	Table	Brewster	JACS	76 (1954)	6368
		-	Sol	Freq	Brook	JACS	82 (1960)	5102
$C_{26}H_{20}O_2S$	9-(9-Phenylfluorenyl)-p-tolylsulfone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{26}H_{20}O_3$	2-Hydroxy-4-diphenylhydroxymethylbenzophenone	-	-	Band freq	Wasserman	JACS	77 (1955)	973
$C_{26}H_{20}O_{10}$	2,5-Diacetoxy-3,6-di-p-acetoxyphenyl-1,4-benzoquinone	5-15μ	S	Spec, Struct	Edwards	JAPC	10 (1960)	246
$C_{26}H_{21}ClN_2O_4S_2$	1,4-Dihydro-2-chloro-9,10-anthracene dibenzenesulfonamide	-	-	Group freq	Adams	JACS	74 (1952)	2593

$C_{26}H_{21}ClN_2O_4S_2$	3,3'-Dimethyl-5-chloro-diphenoquinone dibenzenesulfonimide	-	-	Band freq	Adams	JACS	74 (1952)	3038
$C_{26}H_{21}Cl_4N_3O_4S_2$	N-(2,3,5,6-Tetrachloro-4-benzenesulfonamido-phenyl)-N-(3,5-dimethyl-4-aminophenyl) benzenesulfonamide	-	-	Freq	Adams	JACS	74 (1952)	5896
$C_{26}H_{21}Cl_4N_3O_4S_2$	N-(2,3,5,6-Tetrachloro-4-benzenesulfonamido-phenyl)-N-(4-dimethyl-aminophenyl) benzene-sulfonamide	-	-	Freq	Adams	JACS	74 (1952)	5869
$C_{26}H_{21}NO_2$	1-Cyclohexylaminoperylene-3,10-quinone	769-3300	S	Table	Brown	JCS	- (1954)	1280
$C_{26}H_{22}$	Unsym-Tetraphenylethane	3.42-14.35μ	Sol	Ident, Table	Brewster	JACS	76 (1954)	6368
		-	-	Ident	Fuson	JACS	77 (1955)	1138
$C_{26}H_{22}Br_2N_2O_4S_2$	3,3'-Dibromo-4,4'-diphenyl sulfonamidobibenzyl	-	-	Group freq	Fuson	JACS	75 (1953)	5744
$C_{26}H_{22}Cl_2N_2O_4S_2$	N,N'-Dibenzenesulfonyl-3,3'-dimethyl 5,5'-dichloro-benzidine	-	-	Spec, Ident	Adams	JACS	74 (1952)	3038
$C_{26}H_{22}Cl_2N_2O_6S_2$	N,N'-Dibenzenesulfonyl-2,2'-dichloro-3,3'- dimethoxy-benzidine	-	-	Iso., Band study	Adams	JACS	75 (1953)	5901
$C_{26}H_{22}Cl_2N_2O_6S_2$	N,N'-Dibenzenesulfonyl-2,2'-dichloro-5,5'-dimethoxy-benzidine	-	-	Iso., Band study	Adams	JACS	75 (1953)	5901
$C_{26}H_{22}Cl_2N_2O_6S_2$	N,N'-Dibenzenesulfonyl-5,5'-dichloro-3,3'-dimethoxy-benzidine	-	-	Iso., Band study	Adams	JACS	75 (1953)	5901
$C_{26}H_{22}N_2O_2$	1,2-Dimethyl-3-(1-phenyl-tryptamine)phthalimide	-	S,Sol	Freq	Noland	JACS	81 (1959)	1203

$C_{26}H_{22}N_2O_2$	2-Methyl-3-(1-phenyl-2-phthalimidopropyl) indole	-	S,Sol	Freq	Noland	JACS	81 (1959)	1203
$C_{26}H_{22}N_2O_4S_2$	1,4-Dihydro-9,10-anthracene dibenzenesulfonamide	-	-	Group freq	Adams	JACS	74 (1952)	2593
$C_{26}H_{22}N_2O_4S_2$	3,3'-Dimethyldipheno--quinone dibenzenesulfonimide	-	-	Group freq, Band study	Adams	JACS	74 (1952)	3038
$C_{26}H_{22}N_2O_4S_2$	1,4,4a,9a-Tetrahydro-9,10-anthraquinone dibenzenesulfonimide	-	-	Group freq	Adams	JACS	74 (1952)	2593
$C_{26}H_{22}N_4O_4S_2$	Di-p-amidinophenyl disulfide dibenzenesulfonate	5.5-24 μ	S	Spec, Band freq	Cymerman	JCS	- (1951)	1332
$C_{26}H_{22}N_4O_{12}$	10-(trans-1,2-Dimethoxycarbonylvinyl)acridinium methoxide picrate	-	-	Ident	Acheson	JCS	- (1954)	3240
$C_{26}H_{22}O$	Dibenzhydryl ether	-	Sol	Ident	Rausch	JACS	76 (1954)	3622
		-	-	Reference	Merrow	JACS	76 (1954)	4622
$C_{26}H_{22}O$	Mesityl 1-phenyl-2-naphthyl ketone	-	-	Grignard react. prod.	Fuson	JOC	16 (1951)	643
$C_{26}H_{22}O_2$	Benzophenone pinacol	3 μ	Sol	Spec, Freq	Kuhn	JACS	74 (1952)	2492
		-	Sol	Ident	Rausch	JACS	76 (1954)	3622
$C_{26}H_{22}O_3$	2-Hydroxy-4-diphenyl-hydroxymethylbenzhydrol	-	-	Ident	Wasserman	JACS	77 (1955)	973
$C_{26}H_{22}O_6$	Terephthaloyl bis-(p-methoxyacetophenone)	1500-3500	S	Freq, Assign, Struct	Martin	JACS	80 (1958)	4891
$C_{26}H_{23}NO_5$	1-Phenyl-3-methyl-4,4-dicarbobenzyloxy 2-azetidinone	2-11 μ	Sol	Spec	Sheehan	JACS	73 (1951)	1761
$C_{26}H_{24}ClNO_5$	Dibenzyl-(α-chloropropionyl)anilinomalonate	2-11 μ	Sol	Spec	Sheehan	JACS	73 (1951)	1761

$C_{26}H_{24}OSi$	Triphenylsilylethyl phenyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{26}H_{24}O_6B_2$	Tetraphenylethylene-diborate	6-14 μ	L,S	Freq, Struct	Blau	JCS	- (1960)	380
$C_{26}H_{24}Si$	Diphenyldi-p-tolylsilane	-	Sol	Freq	Margoshes	AC	27 (1955)	351
$C_{26}H_{25}N_3O_4S_2$	2-(p-Dimethylamino-phenyl)benzene-1,4-dibenzenesulfonamide	-	-	Group freq, Struct	Adams	JACS	75 (1953)	4642
$C_{26}H_{26}$	1-Neopentyl-2,3-diphenyl-indene	-	-	Ident	Fuson	JOC	17 (1952)	255
$C_{26}H_{26}O$	α-Benzal-γ-phenyl-butyromesitylene	-	-	Group freq	Fuson	JOC	18 (1953)	1263
$C_{26}H_{27}N_2O_5P$	N-Dibenzylphosphoryl-DL-tryptophan methyl ester	3-15 μ	S,L	Spec, Group freq	Li	JACS	77 (1955)	3519
$C_{26}H_{28}NB$	Dimethylammonium-tetraphenylborate	-	S	H bond, Band freq	Nuttall	JCS	- (1960)	4965
$C_{26}H_{28}N_4O_{11}$	2,4-Dicarbethoxy-3-(3':4'-methylenedioxy-phenyl)-5-hydroxy-5-methylcyclohexanone 2,4-dinitrophenyl-hydrazone	-	Sol	Band freq	Walker	JACS	77 (1955)	3664
$C_{26}H_{28}O$	α,β-Dimesityl-β-phenyl vinyl alcohol	2.7-2.9 μ -	Sol -	Spec OH data	Buswell Fuson	JACS JACS	69 (1947) 68 (1946)	770 389
$C_{26}H_{28}O_6$	Ethyl-2,4-diphenacyl-1,3-cyclobutanedicar-boxylate.	2-13 μ	S	Band freq, Spec, Struct	Reid	JACS	73 (1951)	1985
$C_{26}H_{28}O_{14}$	Apiin	-	L	Freq	Inglett	JOC	23 (1958)	93
$C_{26}H_{30}N_2O_2$	1-Methyl-3-benzal-4-piperidone dimer	-	S	Group freq	McElavain	JACS	77 (1955)	492

$C_{26}H_{30}O_2$	all trans-2,4,6,8,10,16, 18,20,22,24-Hexacosadecaen -13-yne-12,15-diol	-	S	Group freq, I	Allen	JCS	- (1955)	1874
$C_{26}H_{30}O_3$	3-Benzyloxy-$\Delta^{3,5}$-androstadiene-11,17-dione	-	S	Group freq	Bernstein	JOC	18 (1953)	1166
$C_{26}H_{30}O_3$	8,20-Dicarboxy 6,6 paracyclophane anhydride	3.27-11.47μ	Sol	I, Group freq	Cram	JACS	77 (1955)	1179
$C_{26}H_{30}O_3$	8,21-Dicarboxy 6,6 paracyclophane anhydride	3.27-11.47μ	Sol	I, Group freq	Cram	JACS	77 (1955)	1179
$C_{26}H_{30}O_3$	1-Duryl-5-mesityl-2,4-pentadien-2-ol-1-one acetate	-	-	Band freq	Fuson	JACS	75 (1953)	5950
$C_{26}H_{30}O_3$	2-Hydroxy-4-t-butyl-3,4-dihydro-1-naphthyl mesityl ketone acetate	-	-	Group freq	Fuson	JACS	77 (1955)	3781
$C_{26}H_{30}O_4$	1,4-di-(2-Acetoxy-3,4,6-trimethylphenyl)-1,3-butadiene	-	-	Spec, Band freq,	Smith	JACS	73 (1951)	3851
$C_{26}H_{30}O_6$	1,4-di-(2-Hydroxy-3,4,6-trimethylphenyl)-butane 1,4-dione diacetate	-	-	Spec, Band freq,	Smith	JACS	73 (1951)	3847
$C_{26}H_{30}O_9$	2-Hydroxymethylene-3-carbethoxy-4-(3',4'-dimethoxyphenyl)-6,7-dimethoxy-1-tetralone ethylene acetal	-	Sol	Band freq	Walker	JACS	75 (1953)	3393
$C_{26}H_{30}O_{15}$	Tetraacetylasperuloside	746-1773	S	I	Briggs	JCS	- (1954)	4182
$C_{26}H_{31}NO$	1-Methyl-3,5-di-(p-isopropylbenzylidene)-4-piperidone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{26}H_{31}NO$	1-Methyl-3,5-di-(p-isopropylbenzyl)-4-pyridone	-	S	Group freq	Leonard	JACS	77 (1955)	1852

$C_{26}H_{32}OSi$	Triphenylsilylbutyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{26}H_{32}OSi$	Triphenylsilylheptyl methyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{26}H_{32}OSi$	Triphenylsilylhexyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{26}H_{32}O_2$	(7-p-7-p)-Cyclophandione-1,14	-	Sol	Group freq	Schubert	JACS	76 (1954)	5462
$C_{26}H_{32}O_3$	Δ^4-Androstenol-17α-one-3-benzoate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{26}H_{32}O_3$	Δ^4-Androsten-17β-ol-3-one benzoate	682-1330 -	Sol S,Sol	Table Group freq	Jones Tarpley	JACS APS	77 (1955) 9 (1955)	651 69
$C_{26}H_{32}O_3$	Δ^5-Androstenol-3β-one-benzoate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{26}H_{32}O_4$	3β-Acetoxy-$\Delta^{14(15),16(17),20,22}$ bufatetraenolide	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{26}H_{32}O_4$	Methylbixin(natural)	6.8-14 μ	S,Sol	Spec	Lunde	JACS	77 (1955)	1647
$C_{26}H_{32}O_4$	Methylbixin(all-trans)	6.7-14 μ	S,Sol	Spec	Lunde	JACS	77 (1955)	1647
$C_{26}H_{32}O_4$	Neomethylbixin-A	6.8-14 μ	S,Sol	Spec, Band study	Lunde	JACS	77 (1955)	1647
$C_{26}H_{32}O_4$	Neomethylbixin-C	6.8-9 μ	Sol	Spec	Lunde	JACS	77 (1955)	1647
$C_{26}H_{32}O_9$	1-Hydroxy-2-ethylene-dioxymethyl-3-carbethoxy-3-(3',4'-dimethoxyphenyl)-6,7-dimethoxytetralin	-	Sol	Band freq	Walker	JACS	75 (1953)	3393

$C_{26}H_{34}BrNO_5S$	1-β-(N-Methylbenzyl-sulfonamido)-ethyl-5-bromo-7,8-dimethoxy-2-hydroxy-2-δ-(α-butylene)-1,2,3,4-tetrahydro-naphthalene	-	-	Band study	Stork	JACS	73 (1951)	4748
$C_{26}H_{34}N_2O_2$	2,2'-Dimethyl-4,4'-(hexa-methylenediimino) bibenzyl diacetate	-	-	For comparison	Fuson	JACS	75 (1953)	5744
$C_{26}H_{34}N_2O_5$	Quinine-α,β-dihydroxy-methylvalerate	2-15 μ	S	Ident, Spec	Sjolander	JACS	76 (1954)	1085
$C_{26}H_{34}O_2$	Sym-Di-(P-Carbethoxy-pentamethylenephenyl)-ethane cyclic acyloin	-	-	Freq	Fuson	JACS	74 (1952)	1621
$C_{26}H_{34}O_3$	Androstanol-3α-one-17-benzoate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{26}H_{34}O_3$	Androstanol-3β-one-17-benzoate	-	Sol	Band freq	Barnes	JCS	- (1953)	571
$C_{26}H_{34}O_3$	Δ^5-Androstenediol-3β,17β-3-benzoate	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{26}H_{34}O_3$	3-Benzyloxy-$\Delta^{3,5}$-androstadiene-11β,17β-diol	-	S	Group freq	Bernstein	JOC	18 (1953)	1166
$C_{26}H_{34}O_3$	Etiocholanol-3α-one-17-benzoate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{26}H_{34}O_3$	19-Nor-$\Delta^{1,3,5(10),6}$-22a-spirostatetraen-3-ol	-	Sol	Free OH study	Sondheimer	JACS	76 (1954)	2230
$C_{26}H_{34}O_4S$	Dehydroisoandrostenyl p-toluenesulfonate	670-3700	S	Spec	Bernstein	JOC	16 (1951)	679

$C_{26}H_{35}NO_7$	3-Cyanopregnane-3,17α, 21-triol-11,20-dione-3,21-diacetate	-	Sol	Freq	Graber	JACS	76 (1954)	4474
$C_{26}H_{36}O_3$	$\Delta^{1,4}$-Androstadienol-17α-one-3-hexahydrobenzoate	1580-3100	Sol	I	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
		670-1380	Sol	Spec	Jones	JACS	77 (1955)	651
$C_{26}H_{36}O_3$	3β-Hydroxy-$\Delta^{5,7,9:10}$-22-iso-19-norspirostatriene	-	Sol	Group freq	Mosettig	JOC	17 (1952)	764
		-	Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{26}H_{36}O_3$	19-Nor-$\Delta^{1,3,5(10)}$-22a-spirostatriene-3-ol	-	Sol	OH study	Sondheimer	JACS	76 (1954)	2230
$C_{26}H_{36}O_4S$	Epiandrosterone p-toluenesulfonate	-	Sol	Band study	Iriarte	JOC	20 (1955)	542
$C_{26}H_{36}O_5$	3β,22-Diacetoxybisnorchola-7,9,20(22)-trien-5α-ol	-	S	Group freq	Bladon	JCS	- (1953)	2916
$C_{26}H_{36}O_5$	2α,4b-Dimethyl-1-carbethoxy-methylene-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4-one	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{26}H_{36}O_5$	2β,4b-Dimethyl-1-carbethoxy-methylene-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4-one	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{26}H_{36}O_5$	2α,4b-Dimethyl-1-ethoxy-ethynyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-1β-ol-4-one	-	S	Band freq	Arth	JACS	76 (1954)	1715

$C_{26}H_{36}O_5$	2β-4b-Dimethyl-1-ethoxy-ethynyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-1α-ol-4-one	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{26}H_{36}O_5$	2β,4b-Dimethyl-1-ethoxy-ethynyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-1β-ol-4-one	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{26}H_{36}O_5$	dl-Ethylenedioxy-16-iso-propoxy-5,16-pregnadiene-11,20-dione	-	S	Freq	Arth	JACS	77 (1955)	3834
$C_{26}H_{36}O_5$	dl-3-Ethylenedioxy-20-isopropoxy-5,17-pregnadiene-11,16-dione	-	S	Freq	Arth	JACS	77 (1955)	3834
$C_{26}H_{36}O_6$	3β,5α-Diacetoxy-(9α,11α)-epoxybisnorchol-7-en-22-al	-	S	Group freq	Bladon	JCS	- (1953)	2916
$C_{26}H_{36}O_6$	2α,4b-Dimethyl-1-carboxy-methylene-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4α-ol acetate	-	Sol	Band freq	Arth	JACS	76 (1954)	1715
$C_{26}H_{36}O_7$	3β-Formyloxy-16α,21-diacetoxy-Δ^5-pregnen-20-one	-	Sol	Group freq	Hirschmann	JACS	75 (1953)	4862
$C_{26}H_{36}O_7$	16α-Methoxy-Δ^5-pregnen-2,3β-diol-12,20-dione diacetate	-	-	Group freq	Moore	JACS	74 (1952)	6287
$C_{26}H_{37}BrO_3$	Δ^1-2-Bromoandrostenol-17β-one-3-hexahydrobenzoate	-	Sol	Group freq	Jones	JACS	72 (1950)	956

$C_{26}H_{37}BrO_3$	Δ^4-2-Bromoandrostenol-17β-one-3-hexahydrobenzoate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{26}H_{37}ClO_5$	2β,4b-Dimethyl-1-(2-chloro-2-ethoxy)ethenyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydro-phenanthrene-1β-ol-4-one	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{26}H_{38}Br_2O_3$	2,4-Dibromoandrostanol-17β-one-3-hexahydro-benzoate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{26}H_{38}N_2O$	N,N-Diethyl-2-benzyl-5-diethylamino-3-phenyl-valeramide	-	-	Ident	Snyder	JACS	76 (1954)	1893
$C_{26}H_{38}N_2O$	N,N-Diethyl-4-benzyl-5-diethylamino-3-phenyl-valeramide	-	-	Ident	Snyder	JACS	76 (1954)	1893
$C_{26}H_{38}N_6O_9$	Carbobenzoxypenta-L-alanyl-L-alanine	-	S	Struct	Zahn	A	636 (1960)	132
$C_{26}H_{38}O$	2-t-Amyl-4-t-butyl-2,3-dihydrophenyl duryl ketone	-	-	Group freq	Fuson	JACS	76 (1954)	5466
$C_{26}H_{38}O$	4-t-Amyl-2-t-butyl-2,3-dihydrophenyl duryl ketone	-	-	Group freq	Fuson	JACS	76 (1954)	5466
$C_{26}H_{38}O_2$	1,1-Bis-(2-hydroxy-3-t-butyl-5-methylphenyl) isobutane	-	S,Sol	H bond	Coggeshall	JACS	72 (1950)	2836
$C_{26}H_{38}O_2$	2,2-Bis-(2-hydroxy-3-t-butyl-5-methylphenyl) butane	2.8-3.1 μ	S,Sol	H bond, Spec	Coggeshall	JACS	72 (1950)	2836
$C_{26}H_{38}O_2$	Di-(4-Hydroxy-2-methyl-5-t-butylphenyl)propyl-methane	2.5-3.4 μ	S,Sol	Freq	Ambelang	JACS	75 (1953)	947

$C_{26}H_{38}O_2$	Di-(4-Hydroxy-2-methyl-5-t-butylphenyl)isopropylmethane	2.5-3.4 μ	S	Band freq	Ambelang	JACS	75 (1953)	947
$C_{26}H_{38}O$	Δ^1-Androstenol-17α-one-3-hexahydrobenzoate	1580-3100	Sol	Group freq	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
		746-1272	Sol	Table	Jones	JACS	77 (1955)	651
$C_{26}H_{38}O_4$	3β-Acetoxy-20-hydroxy-Δ^5-cholenic acid lactone	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{26}H_{38}O_4$	3β,22-Diacetoxy-5,20(22)bisnorcholediene	-	-	Band study	Moffett	JACS	74 (1952)	2183
$C_{26}H_{38}O_4$	Lupulone	2-10 μ	S	Spec, Group freq, Struct	Howard	JCS	- (1952)	1902
$C_{26}H_{38}O_4$	5α,22a-C-Norspirostane-3,11-dione	-	-	Freq	Wendler	JACS	77 (1955)	1632
$C_{26}H_{38}O_4$	Δ^5-20-(Spiro-2-oxa-3-oxocyclopentano)pregnenol-3β-acetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{26}H_{38}O_5$	$\Delta^{9(11)}$-3α-Acetoxy-12-ketocholenic acid	1700	Sol	Struct, Anal, Freq	Jones	JACS	71 (1949)	241
		-	Sol,S	Group freq	Tarpley	APS	9 (1955)	69
$C_{26}H_{38}O_5$	3β,22-Diacetoxybisnorallochol-20(22)-en-11-one	-	Sol	Group freq	Cameron	JCS	- (1953)	3864
$C_{26}H_{38}O_5$	3β,22-Diacetoxy-9β-bisnorallochol-20(22)-en-11-one	-	Sol	Group freq	Cameron	JCS	- (1953)	3864
$C_{26}H_{38}O_5$	11α,22-Diacetoxybisnor-4-cholen-3-one	-	-	Struct	Meister	JACS	76 (1954)	5679

$C_{26}H_{38}O_5$	2β,4b-Dimethyl-1-carbethoxy-methylene-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodeca-hydrophenanthrene-4β-ol	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{26}H_{38}O_5$	2β,4b-Dimethyl-1-ethoxy-ethynyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodeca-hydrophenanthrene-1β,4β-diol	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{26}H_{38}O_5$	Methyl 3α-formoxy-$\Delta^{9(11)}$ 12-ketocholenate	-	Sol	Group freq	Archer	JACS	76 (1954)	4915
$C_{26}H_{38}O_6$	3β,5α-Diacetoxy-11-oxobis -norcholan-22-al	-	Sol	Group freq	Bladon	JCS	- (1954)	125
$C_{26}H_{38}O_6$	2α,4b-Dimethyl-1-carbethoxy -methyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodeca-hydrophenanthrene-1β-ol-4-one	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{26}H_{38}O_6$	2β,4b-Dimethyl-1-carbethoxy -methyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodeca-hydrophenanthrene-1α-ol-4-one	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{26}H_{38}O_6$	2β,4b-Dimethyl-1-carbethoxy methyl-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodeca-hydrophenanthrene-1β-ol-4-one	-	S	Band freq	Arth	JACS	76 (1954)	1715
$C_{26}H_{38}O_6$	Methyl-3α-formoxy-11,12-diketocholanate	-	Sol	Group freq	Archer	JACS	76 (1954)	4915

$C_{26}H_{38}O_7$	Ethyl 3β,19-diacetoxy-5-hydroxy-Δ^{14}-etiocholenate	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{26}H_{38}O_8$	Ouabagenin monoacetonide	-	S	Ident	Sneeden	JACS	75 (1953)	3510
		2-16 μ	-	Spec, Ident	Djerassi	JOC	19 (1954)	1351
$C_{26}H_{36-38}O_9$	Hydrolimoninic acid	2-16 μ	S	Spec, Band freq, Struct	Rosenfeld	JACS	73 (1951)	2491
$C_{26}H_{39}BrO_3$	2-Bromoandrostaneol-17β-one-3-hexahydrobenzoate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Group freq	Jones	JACS	74 (1952)	2828
$C_{26}H_{40}$	1-Hexadecylnaphthalene	690-3239	L	Table, I	Anderson	JCS	- (1953)	443
$C_{26}H_{40}$	2-Hexadecylnaphthalene	720-3242	L	Table, I	Anderson	JCS	- (1953)	443
$C_{26}H_{40}O_4$	Δ^5-3β-Acetoxycholenic acid	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{26}H_{40}O_4$	Methyl 3β-acetoxyallonor-16-cholenate	-	S	Band study	Ryer	JACS	74 (1952)	4464
$C_{26}H_{40}O_4$	22a,5α-C-Nor-D-homo-18-nor-spirostan-3β-ol-17a-one	-	-	Band study	Hirschmann	JACS	74 (1952)	2693
		-	-	Ident	Hirschmann	JACS	76 (1954)	4013
$C_{26}H_{40}O_5$	3α-Acetoxy-11-ketonorcholanic acid methyl ester	1700	Sol	Struct, Group freq	Jones	JACS	71 (1949)	241
$C_{26}H_{40}O_5$	Methyl 3α-formoxy-11-ketocholanate	-	Sol	Group freq	Archer	JACS	76 (1954)	4915
$C_{26}H_{40}O_5$	Methyl 3α-formoxy-12-ketocholanate	-	Sol	Group freq	Archer	JACS	76 (1954)	4915
$C_{26}H_{40}O_5$	Methyl-3β-methoxy-3α,9α-oxido-11-ketocholanate	-	-	Band study	Heymann	JACS	73 (1951)	5252
$C_{26}H_{40}O_6$	Methyl-3α-formoxy-12β-hydroxy-11-ketocholanate	-	Sol	Group freq	Archer	JACS	76 (1954)	4915
$C_{26}H_{40}O_8$	dl-Dimethyl-3β,11β-diacetoxyetioallohomobilanate	-	-	Ident	Johnson	JACS	76 (1954)	3353

$C_{26}H_{41}NO_2$	16α-Piperidino-5-pregnen-3β-ol-20-one	-	-	Ident	Gould	JACS	76 (1954)	5567
$C_{26}H_{42}$	$\Delta^{3,5}$-B-Norcholestadiene	-	-	Ident	Fieser	JACS	75 (1953)	4386
$C_{26}H_{42}O_2$	Δ^5-Norcholestenol-3β-one--24	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{26}H_{42}O_2$	Δ^5-Norcholestenol-3β-one--25	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{26}H_{42}O_2$	B-Norcoprostane-3,6-dione	-	Sol	Band freq, Ident	Fieser	JACS	75 (1953)	4386
$C_{26}H_{42}O_4$	Dinonyl phthalate	-	-	Band freq, I	Kendall	APS	7 (1953)	179
$C_{26}H_{42}O_4$	Methyl 3β-acetoxyallo-norcholanate	-	S	Band freq	Ryer	JACS	74 (1952)	4464
$C_{26}H_{42}O_5$	3β-Acetoxy-22,22-dimethoxy-bisnorallocholan-11-one	-	Sol	Group freq	Page	JCS	- (1955)	2017
$C_{26}H_{42}O_5$	Methyl 3β-acetoxy-17α-hydroxyallonorcholanate	-	-	Band freq	Ryer	JACS	74 (1952)	4464
$C_{26}H_{42}O_5$	Methyl 3β-Methoxy-3α,9α-oxido-11 -hydroxycholanate	-	-	Freq	Heymann	JACS	73 (1951)	5252
$C_{26}H_{44}O$	2-Oxo-A-norcholestane	-	Sol	Group freq	Smith	JACS	76 (1954)	6119
$C_{26}H_{44}O$	3-Oxo-A-norcholestane	-	Sol	Group freq	Smith	JACS	76 (1954)	6119
$C_{26}H_{44}O_2$	5-Hydroxy-3,5-seco 4-norcholestan-3-oic acid lactone	1000-1900	S	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{26}H_{44}O_4$	3α,12α-Dihydroxycholanic acid ethyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{26}H_{44}O_5$	Ethyl 3α,7α,12α-tri-hydroxycholate	2.5-3.5 μ	Sol	Group study	Kabasakalian	AC	31 (1959)	375
$C_{26}H_{46}$	1,3-Dimethyl-2-n-octadecylbenzene	-	-	Freq	Schlatter	JACS	76 (1954)	4952

$C_{26}H_{46}$	1-Phenyleicosane	2-15 μ	L	Spec	Nielson	AC	21 (1949)	369
$C_{26}H_{46}$	2-Phenyleicosane	2-15 μ	L	Spec	Nielson	AC	21 (1949)	369
$C_{26}H_{46}$	3-Phenyleicosane	2-15 μ	L	Spec	Nielson	AC	21 (1949)	369
$C_{26}H_{46}$	4-Phenyleicosane	2-15 μ	L	Spec	Nielson	AC	21 (1949)	369
$C_{26}H_{46}$	5-Phenyleicosane	2-15 μ	L	Spec	Nielson	AC	21 (1949)	369
$C_{26}H_{46}$	7-Phenyleicosane	2-15 μ	L	Spec	Nielson	AC	21 (1949)	369
$C_{26}H_{46}$	9-Phenyleicosane	2-15 μ	L	Spec	Nielson	AC	21 (1949)	369
$C_{26}H_{46}$	8-p-Tolylnonadecane	1.1-1.25 μ	L	Anal, Absorption	Evans	AC	23 (1951)	1604
$C_{26}H_{48}$	9-n-Dodcyltetradeca-hydroanthracene	12.6-14.7 μ	Sol,L	Struct	Francis	AC	25 (1953)	1466
$C_{26}H_{50}$	9-[α-(cis-0.3.3-Bicyclo-octyl)-methyl]heptade-cane	1.1-1.25 μ 12.6-14.7 μ	L L	Anal Struct, Anal	Evans Francis	AC AC	23 (1951) 25 (1953)	1604 1466
$C_{26}H_{50}O_4$	Di-(2-ethylhexyl) sebacate	2-14 μ	L	Spec	Kapff	JCP	16 (1948)	446
$C_{26}H_{50}O_4$	Di-n-octylsebacate	2-16 μ	Sol	Spec	Stahl	JACS	74 (1952)	5487
$C_{26}H_{52}$	1-Cyclohexyleicosane	2-15 μ 3.4-14.7 μ	L Sol	Spec, Anal Anal	Nielson Francis	AC AC	21 (1949) 25 (1953)	369 1466
$C_{26}H_{52}$	2-Cyclohexyleicosane	2-15 μ	L	Spec, Anal	Nielsen	AC	21 (1949)	369
$C_{26}H_{52}$	3-Cyclohexyleicosane	2-15 μ	L	Spec, Anal	Nielsen	AC	21 (1949)	369
$C_{26}H_{52}$	4-Cyclohexyleicosane	2-15 μ	L	Spec, Anal	Nielsen	AC	21 (1949)	369
$C_{26}H_{52}$	5-Cyclohexyleicosane	2-15 μ	L	Spec, Anal	Nielsen	AC	21 (1949)	369
$C_{26}H_{52}$	7-Cyclohexyleicosane	2-15 μ	L	Spec, Anal	Nielsen	AC	21 (1949)	369
$C_{26}H_{52}$	9-Cyclohexyleicosane	2-15 μ	L	Spec, Anal	Nielsen	AC	21 (1949)	369

$C_{26}H_{52}$	11-Cyclohexyleicosane	2-15 μ	L	Spec, Anal	Nielsen	AC	21 (1949)	369
$C_{26}H_{52}$	11-Cyclopentylhene-icosane	1.1-1.25 μ	L	Group absorption coeff. anal	Evans	AC	23 (1951)	1604
$C_{26}H_{52}$	1,4-Di-n-decylcyclo-hexane	12.6-14.7 μ	Sol,L	Struct, Anal	Francis	AC	25 (1953)	1466
$C_{26}H_{52}O_2$	n-Hexacosanoic acid	2-15 μ	S	Spec, Anal	Meiklejohn	AC	29 (1957)	329
$C_{26}H_{54}$	5,14-Dibutyloctadecane	1.1-1.25 μ	L	Anal, Absorption	Evans	AC	23 (1951)	1604
		12.6-14.7 μ	Sol,L	Anal	Francis	AC	25 (1953)	1466
$C_{26}H_{54}$	11-(2',2'-Dimethylpropyl) heneicosane	1.1-1.25 μ	L	Anal, Absroption	Evans	AC	23 (1951)	1604
$C_{26}H_{54}$	3-Ethyltetracosane	8-13 μ	-	Spec	Thompson	N	158 (1946)	234
		700-2800	L,S	Spec	Richards	PRS	195 (1948)	1
$C_{26}H_{54}$	n-Hexacosane	700-2800	L,S	Spec	Richards	PRS	195 (1948)	1
		12.6-14.7 μ	Sol	Struct, Anal	Francis	AC	25 (1953)	1466
		1470	L,S	Freq	Stein	JCP	22 (1954)	1993
		700-3000	Sol	Ext. coefficient	Jones	SA	9 (1957)	235
		750-1150	S	Struct	Snyder	JCP	27 (1957)	969
		700-1500	S	Freq, Assign	Snyder	JMS	4 (1960)	411
$C_{26}H_{54}$	11-n-Pentylheneicosane	12.6-14.7 μ	Sol,L	Struct, Anal	Francis	AC	25 (1953)	1466

C_{27} COMPOUNDS

$C_{27}H_{18}O_2$	1-Carboxybenzylidene -2-hydroxy-4-benz-hydrylidene-2,5-cyclohexadiene lactone	-	Sol	Band freq	Wasserman	JACS	77 (1955)	973
$C_{27}H_{19}N_3O_5S_2$	2-(2'-Pyridono)-1,4-naphthoquinone dibenzenesulfonimide	-	-	Group freq	Adams	JACS	76 (1954)	702
$C_{27}H_{20}N_2$	2-Phenyl 3-benzo-hydrylquinoxaline	-	-	Ident	House	JACS	76 (1954)	1235
$C_{27}H_{20}O_2$	2,3,4,4-Tetraphenyl-oxetanone	-	-	Struct	Hasek	JACS	82 (1960)	543

$C_{27}H_{20}O_2$	2,2,4,4-Tetraphenyl-oxetanone	-	-	Group freq, Band freq	Hoey	JACS	77 (1955)	391
		-	-	Struct	Murr	JACS	77 (1955)	4430
$C_{27}H_{21}ClN_2O_4$	α-p-Nitrobenzoyloxy-β-(1-benzyl-2-pyridyl)-styrene chloride	-	S	Group freq	Baker	JOC	20 (1955)	118
$C_{27}H_{21}N_3O_5S_2$	N-(1',4'-Dibenzenesulfonamido-2'-naphthyl)-2-pyridone	-	-	Group freq	Adams	JACS	76 (1954)	702
$C_{27}H_{22}$	9,9-Dibenzylfluorene	700-1400	Sol	Spec	Scherf	CJC	38 (1960)	697
$C_{27}H_{22}ClNO_2 \cdot H_2O$	α-Benzoyloxy-β-(1-benzyl-2-pyridyl)-styrene chloride hydrate	-	-	Group freq	Baker	JOC	20 (1955)	118
$C_{27}H_{22}N_2O_4S_2$	Cyclopentadiene-1,4-naphthoquinone dibenzenesulfonimide adduct	-	-	Group freq	Adams	JACS	74 (1952)	2593
$C_{27}H_{22}N_2O_6S_2$	1,4-Naphthoquinonedibenzenesulfonimido-2-acetylactone	-	-	Group indic	Adams	JACS	74 (1952)	5557
$C_{27}H_{22}O$	cis-1,1,2,3-Tetraphenyl-2-propen-1-ol	-	-	Group freq, Struct	Lutz	JACS	77 (1955)	366
$C_{27}H_{22}O$	1,2,3,3-Tetraphenyl-2-propen-1-ol	-	-	Group freq	Lutz	JACS	77 (1955)	366
$C_{27}H_{22}O$	o-Tolyl trityl ketone	-	-	Group freq	Fuson	JACS	77 (1955)	1138
$C_{27}H_{22}O_2$	p-Anisyl trityl ketone	-	-	Group freq	Fuson	JACS	77 (1955)	1138
$C_{27}H_{22}O_2$	α-Hydroxy-sym-tetraphenylacetone	-	S	Group freq	Dean	JACS	76 (1954)	4988
$C_{27}H_{22}O_2$	2,2,4,4-Tetraphenyloxetanol	-	S,Sol	Group freq, Band freq	Hoey	JACS	77 (1955)	391
$C_{27}H_{22}O_2S$	9-(9-Benzylfluorenyl)-p-tolyl sulfone	1100-1400	Sol	Spec, Freq	Bavin	SA	16 (1960)	1312
$C_{27}H_{23}NO_3$	3,6-Dimethyl-3,6-methano-4-nitro-7-oxo-1,2,5-triphenylcyclohexene	2-15 μ	S	Struct	Allen	JOC	20 (1955)	306

$C_{27}H_{24}$	1,1,1,3-Tetraphenyl-propane	-	Sol	Group freq	Pinchas	JCS	- (1954)	863
$C_{27}H_{24}N_2O_2$	1,2-Dimethyl-3-(1-phenyl-2-phthalimidopropyl) indole	-	S	Freq	Noland	JACS	81 (1959)	1203
$C_{27}H_{24}N_2O_4S_2$	1,4-Dihydro-2-methyl-9, 10-anthracene dibenzene-sulfonamide	-	-	Group freq	Adams	JACS	74 (1952)	2593
$C_{27}H_{24}N_2O_4S_2$	1,4,4a,9a-Tetrahydro-2-methyl-9,10-anthraquinone dibenzenesulfonimide	-	-	Group freq	Adams	JACS	74 (1952)	2593
$C_{27}H_{24}N_2O_6S_2$	1,4-Naphthalene dibenzene--sulfonamido-2-acetyl-acetone	-	-	Group indic	Adams	JACS	74 (1952)	5557
$C_{27}H_{24}N_4O_{12}$	10-(trans-1,2-Dimethoxy-carbonylvinyl)-acridinium ethoxide picrate	-	S	Ident	Acheson	JCS	- (1954)	3240
$C_{27}H_{24}O$	Mesityl 1-benzyl-2-naphthyl ketone	-	-	Grignard react-prod	Fuson	JOC	16 (1951)	643
$C_{27}H_{24}O$	Mesityl 1-p-tolyl-2-naphthyl ketone	-	-	Grignard react-prod	Fuson	JOC	16 (1951)	643
$C_{27}H_{25}N_5O_4$	2-Phenyl-N,N'-bis(4-carboethoxyphenyl)-4,6-diamino-s-triazine	2-15 μ	S	Assign	Reimschuessed	JACS	82 (1960)	3756
$C_{27}H_{26}OSi$	Triphenylsilylpropyl phenyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{27}H_{26}Si$	Tri-p-tolylphenylsilane	-	-	Purity	Brook	JACS	76 (1954)	2333
		-	Sol	Group freq	Margoshes	AC	27 (1955)	351
$C_{27}H_{27}NO$	cis-1-Cyclohexyl-2-phenyl-3-(p-phenyl-benzoyl)ethylenimine	1122-3070	S	Table, Freq, I	Cromwell	JOC	17 (1952)	414
		650-4000	S,Sol	Group freq, I	Cromwell	JACS	75 (1953)	6252

$C_{27}H_{27}NO$	trans-1-Cyclohexyl-2-phenyl-3-(p-phenylbenzoyl)ethylenimine	1125-3070 650-4000	S S,Sol	Table, Freq, I Group freq, I	Cromwell Cromwell	JOC JACS	17 (1952) 75 (1953)	414 6252
$C_{27}H_{27}N_3O_6$	1,3,5-Tris-p-methoxybenzoylperhydro-s-triazine	-	-	Struc, Ident, Group freq	Emmons	JACS	74 (1952)	5524
$C_{27}H_{28}O$	α-Benzal-δ-phenylvaleromesitylene	-	-	Group freq	Fuson	JOC	18 (1953)	1263
$C_{27}H_{29}NO$	1-Methyl-3-(3,3-diphenyl-2-propenyl)-4-phenyl-4-hydroxypiperidine	-	-	Group freq	McElvain	JACS	76 (1954)	5625
$C_{27}H_{29}NO.HCl$	1-Methyl-3-(3,3-diphenyl-2-propenyl)-4-phenyl-4-hydroxypiperidine hydrochloride	-	-	Group freq	McElvain	JACS	76 (1954)	5625
$C_{27}H_{30}$	Cycloheptacosa-1,3,10,12,19,21-hexayne	3-15μ	S	Spec	Wolovsky	JACS	81 (1959)	4600
$C_{27}H_{30}NB$	Trimethylammonium-tetraphenylborate	-	S	H bond, Band freq	Nuttall	JCS	- (1960)	4965
$C_{27}H_{30}N_2O_2$	Benzoyldeacetylaspidospermine	-	-	Group freq, I, Struc	Witkop	JACS	76 (1954)	5603
$C_{27}H_{30}O_2$	α-Hydroxybenzyl-δ-phenylvaleromesitylene	-	-	Group freq	Fuson	JOC	18 (1953)	1263
$C_{27}H_{30}O_{16}$	Rutin	1550-4000 -	S L	Group freq, H bond Freq	Hergert Inglett	JACS JOC	75 (1953) 23 (1958)	1622 93
$C_{27}H_{31}N_3O_5$	Haplophytine	800-3500 - -	Sol - -	Spec, Band freq Ident Band freq	Rogers Snyder Snyder	JACS JACS JACS	74 (1952) 76 (1954) 76 (1954)	1987 2819 4601
$C_{27}H_{32}N_2O$	Benzyldeacetylaspidospermine	-	-	Group freq, I, Struc	Witkop	JACS	76 (1954)	5603

$C_{27}H_{32}N_2O_6S_2$	N-Ethyl-N'-carbethoxymethyl-N,N'-dibenzenesulfonyldiaminomesitylene	650-3900	-	Spec	Adams	JACS	70 (1948)	4204
$C_{27}H_{32}N_4O_{10}$	2,4-Dicarbethoxy-3-(3',4'-dimethoxyphenyl)-5-methylcyclohexanone 2,4-dinitrophenylhydrazone	-	Sol	Group freq	Walker	JACS	77 (1955)	3664
$C_{27}H_{32}N_4O_{11}$	2,4-Dicarbethoxy-3-(3',4'-dimethoxyphenyl)-5-hydroxy-5-methyl cyclohexanone 2,4-dinitrophenylhydrazone	-	Sol	Group freq	Walker	JACS	77 (1955)	3664
$C_{27}H_{32}N_8O_{14}$	(d,-l, -or dl-)sparteine dipicrate	650-3500	S,Sol	Spec	Leonard	JACS	72 (1950)	1316
$C_{27}H_{32}O_3$	1,5-Diduryl-1,3-pentadien-1-ol-5-one acetate	-	S	Band & Group freq	Fuson	JACS	75 (1953)	5402
$C_{27}H_{32}O_{14}$	Naringin	-	L	Freq	Inglett	JOC	23 (1958)	93
$C_{27}H_{33}BrO_{16}$	Tetraacetylasperuloside bromomethoxide	800-1773	S	Table, I	Briggs	JCS	- (1954)	4182
$C_{27}H_{33}NO_3$	2,2',2"-Trihydroxy-3,3',3",5,5',5"-hexamethyltribenzylamine	-	-	Spec, Freq, Assign	Ignonin	DANS	121 (1958)	652
$C_{27}H_{33}N_3O_5$	Dihydrohaplophytine	-	-	Band freq	Snyder	JACS	76 (1954)	2819
$C_{27}H_{34}N_4O_6$	Testosterone acetate 2,4-dinitrophenylhydrazone	-	-	Ident	Beereboom	JACS	75 (1953)	3500
$C_{27}H_{34}OSi$	Triphenylsilylheptyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826

$C_{27}H_{34}OSi$	Triphenylsilyloctyl methyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{27}H_{34}OSi$	Triphenylsilylpentyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{27}H_{34}O_3$	2,4b-Dimethyl-2-methallyl-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-7β-ol-1-one benzoate	-	S	Band freq	Sarett	JACS	75 (1953)	2112
$C_{27}H_{34}O_6$	$\Delta^{5,7}$-Pregnadien-3β-ol-20-one acetate maleic anhydride adduct	670-3700	S	Spec, Ident, Struct	Antonucci	JOC	16 (1951)	1356
$C_{27}H_{34}O_8$	3,5-Pregnadiene-3,21,21-triol-11,20-dione triacetate	-	S	Group freq, Ident	Gould	JACS	75 (1953)	3593
$C_{27}H_{34}O_9$	Δ^4-Pregnene-2α,17α,21-triol-3,11,20-trione triacetate	-	Sol	Band freq	Rosenkrantz	JACS	77 (1955)	145
$C_{27}H_{34}Si$	Tri-γ-propylphenylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
$C_{27}H_{35}NO_3$	1,14-Dimethyl-2-keto-3-methylanilinomethylene-6,7-dihydroxy-$\Delta^{1(11)}$-dodecahydrophenanthrene acetonide	2-12 μ	Sol	Spec	Woodward	JACS	74 (1952)	4223
$C_{27}H_{36}O_3$	$\Delta^{1,4,6}$-22-isospirostatrien-3-one	-	-	Band freq	Yashin	JACS	73 (1951)	4654
$C_{27}H_{36}O_3$	$\Delta^{4,6,8}$-22-isospirosta--trien-3-one	-	-	Band freq	Yashin	JACS	73 (1951)	4654
$C_{27}H_{36}O_3$	$\Delta^{4,7,9(11)}$-22-isospirostatrien-3-one	-	-	Band freq	Yashin	JACS	73 (1951)	4654

$C_{27}H_{36}O_4$	dl-17-Furfurylidene-D-homoepiandrosterone acetate	-	-	Ident	Johnson	JACS	75 (1953)	2275
$C_{27}H_{36}O_4$	22a-Spirosta-4,8-diene-3,11-dione	-	Sol	Group freq	Djerassi	JCS	- (1954)	2346
$C_{27}H_{36}O_5$	7α,8α-9α,11α-Diepoxy-22a-spirost-4-en-3-one	-	Sol	Band freq	Djerassi	JCS	- (1954)	2346
$C_{27}H_{36}O_5$	9α,11α-Epoxy-$\Delta^{4,6}$-22a-spirostadien-8ξ-ol-3-one	-	Sol	Band freq	Lemin	JACS	76 (1954)	5672
$C_{27}H_{36}O_5$	$\Delta^{8(9)}$-22-Isoallospirosten--3,7,11-trione	-	Sol	Freq, Band study	Djerassi	JACS	74 (1952)	1712
$C_{27}H_{36}O_6$	3β,16-Diacetoxy $\Delta^{14(15),20(22)}$-cardadienolide	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{27}H_{36}O_6$	$\Delta^{5,9(11),16}$-Pregnatrien-21-ol-3,20-dione-21-acetate 3,20-bis-ethylene ketal	-	S	Band freq, Group freq	Allen	JACS	77 (1955)	1028
$C_{27}H_{36}O_7$	$\Delta^{5,16}$-Pregnadien-21-ol-3,11,20-trione 21-acetate 3,20-bisethylene ketal	-	S	Band freq	Allen	JACS	77 (1955)	1028
$C_{27}H_{36}O_7$	$\Delta^{5,7,9(11)}$-Pregnatriene-17α,21-diol-3,20-dione-21-acetate 3,20-bisethylene ketal	-	S	Band freq	Antonucci	JACS	76 (1954)	2956
$C_{27}H_{37}BrO_4$	Δ^4-23-Bromo-22a-spirostene--3,12-dione	-	Sol	Band freq	Djerassi	JACS	75 (1953)	4885
$C_{27}H_{37}ClO_2$	3-Chloro-$\Delta^{3,5,7}$-22-isospiro-statriene	-	-	Group indic, Struct	Dauben	JACS	75 (1953)	3255

$C_{27}H_{38}N_2O_4S_2$	Dehydroisoandrostenyliso-thiuronium p-toluene-sulfonate	670-3700	S	Spec	Bernstein	JOC	16 (1951)	679
$C_{27}H_{38}O$	Neoergosterone	- 720-1630	Sol S,Sol	Group freq Band freq	Mosettig Scheer	JOC JACS	17 (1952) 77 (1955)	764 3300
$C_{27}H_{38}O_3$	$\Delta^{4,7}$-22-isospirosta-diene-3-one	-	-	Band freq	Yashin	JACS	73 (1951)	4654
$C_{27}H_{38}O_3$	$\Delta^{7,9(11)}$-22-Isospiro-stadien-3-one	-	-	Band freq	Yashin	JACS	73 (1951)	4654
$C_{27}H_{38}O_4$	Δ^4-22a-Spirostene-3,6-dione	-	S	Band freq	Romo	JOC	19 (1954)	1509
$C_{27}H_{38}O_4$	Δ^4-22a-Spirostene-3,12-dione	-	-	Group freq	Djerassi	JACS	75 (1953)	4885
$C_{27}H_{38}O_4$	Δ^8-22a-Spirostene-3,11-dione	-	-	Band freq	Lemin	JACS	76 (1954)	5672
$C_{27}H_{38}O_4$	Δ^8-22a,5β-Spirostene-3,11-dione	-	Sol	Band freq	Lemin	JACS	76 (1954)	5672
$C_{27}H_{38}O_5$	3β-Acetoxy-16,17-cyclopropano-16aα-carbethoxy-5-pregnen-20-one	-	-	Group freq	Mueller	JACS	76 (1954)	3686
$C_{27}H_{38}O_5$	Anhydrohecogenoic acid	-	S	Band freq	James	JCS	- (1955)	637
$C_{27}H_{38}O_5$	7ξ,8ξ,9α,11α-Diepoxy-22a,5β-spirostan-2-one	-	Sol	Band freq	Lemin	JACS	76 (1954)	5672
$C_{27}H_{38}O_5$	9α,11α-Epoxy-3-oxo-22a-spirost-7-en-5α-ol	-	Sol	Band freq	Djerassi	JCS	- (1954)	2346

$C_{27}H_{38}O_5$	$\Delta^{8(9)}$-22-Isoallospirosten-3,7-dione-11α-ol	-	S	Band freq, Group freq	Djerassi	JACS	74 (1952)	1712
$C_{27}H_{38}O_5$	9α,11α-Oxido-22-isoallospirostan-3,7-dione	-	S	Freq, Group band	Djerassi	JACS	74 (1952)	1712
$C_{27}H_{38}O_6$	$\Delta^{16,20}$-Allopregnadiene-3β,6β,20-triol triacetate	-	Sol	Band freq	Romo	JACS	76 (1954)	5169
$C_{27}H_{38}O_6$	7α,8α,9α,11α-Diepoxy-5-α-hydroxy-22a-spirostan-3-one	-	Sol	Band freq	Djerassi	JCS	- (1954)	2346
$C_{27}H_{38}O_6$	$\Delta^{5,16}$-Pregnadien-21-ol-3,20-dione-21-acetate 3,20-bisethylene ketal	-	S	Band & Group freq	Allen	JACS	77 (1955)	1028
$C_{27}H_{38}O_7$	16α-Ethoxy-Δ^5-pregnen-2,3β-diol-12,20-dione diacetate	-	-	Group indic	Moore	JACS	74 (1952)	6287
$C_{27}H_{38}O_7$	$\Delta^{4,7}$-Pregnadiene-17α,21-diol-3,20-dione 21-acetate 3,20 bisethylene ketal	-	S	Band freq	Antonucci	JACS	76 (1954)	2956
$C_{27}H_{38}O_7$	$\Delta^{5,7}$-Pregnadiene-17α,21-diol-3,20-dione 21-acetate 3,20-bis-ethylene ketal	-	S	Band freq	Antonucci	JACS	76 (1954)	2956
$C_{27}H_{38}O_7$	$\Delta^{5,9(11)}$-Pregnadiene 17α,21-diol-3,20-dione 21-acetate 3,20-bis-ethylene ketal	-	S	Group freq	Bernstein	JACS	75 (1953)	4830
$C_{27}H_{38}O_8$	9(11)α,17(20)α-Diepoxy-5α-pregnane-3,11,20-triol-3,11,20-triacetate	-	-	Group freq	Chamberlin	JACS	77 (1955)	1221

$C_{27}H_{38}O_8$	Δ^5-Pregnene-17α,21-diol-3,11,20-trione-3,20-diethylene ketal-21-acetate	-	S	Group freq	Antonucci	JOC	18 (1953)	70
		-	S	Ident	Allen	JACS	76 (1954)	6116
$C_{27}H_{38}O_8$	3α,17α,21-Triacetoxy-pregnane-11,20-dione	-	-	Ident	Soloway	JACS	75 (1953)	5442
$C_{27}H_{38}O_9$	3α-Succinoxy-7α-acetoxy-12-ketoetiocholanic acid methyl ester	1700	Sol	Absorp freq, Struct, Anal	Jones	JACS	71 (1949)	241
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{27}H_{38}O_9$	3α-Succinoxy-12α-acetoxy-7-ketoetiocholanic acid methyl ester	1700	Sol	Absorp freq, Struc, Anal	Jones	JACS	71 (1949)	241
$C_{27}H_{38}O_{10}$	β-Quabagenin diacetate	2-16 μ	-	Spec	Djerassi	JOC	19 (1954)	1351
$C_{27}H_{38}O_{11}$	Methyl-1-oxo-3β,(11),19-triacetoxy-5,14-dihydroxy-14β-etianate	-	-	Struc	Florey	JOC	19 (1954)	1174
$C_{27}H_{38}O_{18}$	β-D-Galactopyranosyl-(1→4)-D-altropyranose-1,2-(methyl orthoacetate) hexaacetate	2-15 μ	S	Spec	Tipson	JRNB	62 (1959)	257
$C_{27}H_{38}O_{18}$	β-D-Glucopyranosyl-(1→4)-D-mannopyranose 1,2-(methyl orthoacetate hexaacetate	2-15 μ	S	Spec	Tipson	JRNB	62 (1959)	257
$C_{27}H_{39}BrN_2O_{17}S$	S-(Heptaacetyl-β-D-cellobiosyl)thiuronium bromide	8-15 μ	S	Spec	Bouner	JACS	73 (1951)	2241
$C_{27}H_{39}IO_3$	6-Iodo-Δ^4-22α,25α, spirosten-3-one	-	Sol	Freq	Djerassi	JACS	77 (1955)	3826
$C_{27}H_{39}NO_2$	Veratramine	-	Sol	Anal	Papineau	AC	24 (1952)	1918
		-	S	Spec	Tamm	JACS	74 (1952)	3842
$C_{27}H_{39}NO_3$	Jervine	1500-3700	S,Sol	Group freq, Spec	Marion	JACS	73 (1951)	305
		-	Sol	Anal	Papineau	AC	24 (1952)	1918

		-	Sol	Group band intensity	Hiskey	JACS	75 (1953)	5135
		2-16 μ	Sol	Spec	Hirschmann	JACS	76 (1954)	4013
$C_{27}H_{40}$	Anthracholestatetraene	-	-	Ident	Nes	JACS	76 (1954)	3182
		700-1400	Sol	Spec, Band freq	Scheer	JACS	77 (1955)	3300
$C_{27}H_{40}Br_2O_4$	11α,23a-Dibromo-5α,22a-spirostan-3β-ol-12-one	726-3620	Sol	Group freq, Assign	Dickson	JCS	- (1955)	447
$C_{27}H_{40}N_2O_8$	Methyl 3α-acetoxy-7,11-dinitro-Δ^8-cholenate	-	Sol	Band freq	Anagnostopoulos	JACS	76 (1954)	532
$C_{27}H_{40}O$	Cholesta-1,3,5-trien-7-one	650-900	Sol	Spec	Henbest	JCS	- (1957)	997
$C_{27}H_{40}O$	Cholesta-1,4,6-trien-7-one	650-900	Sol	Spec	Henbest	JCS	- (1957)	997
$C_{27}H_{40}O$	2,6-Diisobornyl-4-methyl phenol	3 μ	Sol	H bond	Sears	JACS	71 (1949)	4110
$C_{27}H_{40}O$	Epineoergosterol	720-1630	S,Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{27}H_{40}O$	7-keto-$\Delta^{3,5,8(9)}$-cholestatriene	-	S	Band freq	Tsuda	JACS	77 (1955)	665
$C_{27}H_{40}O$	Neoergosterol	-	Sol	Group freq	Mosettig	JOC	17 (1952)	764
		720-1630	S,Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{27}H_{40}O_3$	Δ^4-Diosgenone	-	Sol	Ident	Djerassi	JACS	77 (1955)	3826
$C_{27}H_{40}O_3$	$\Delta^{8(9)}$-22-Isospirosten-3-one	-	Sol	Band freq	Djerassi	JACS	74 (1952)	422
$C_{27}H_{40}O_3$	Δ^4-Sarsasapogenone-3	890-1340	Sol	Group freq, I	Jones	JACS	75 (1953)	158
$C_{27}H_{40}O_3$	Δ^7-22a-spirosten-3-one	-	Sol	Group freq	Velasco	JOC	18 (1953)	92
$C_{27}H_{40}O_4$	Hecogenone	-	-	Ident	Rothman	JACS	74 (1952)	4013
		-	-	Ident	Wendlers	JACS	74 (1952)	4894
		-	Sol	Group freq	Elks	JCS	- (1954)	1739

$C_{27}H_{40}O_4$	3β-Hydroxy-22a-spirost-5-en-12-one	2.5-3.5 μ	Sol	Group study	Kabasakalian	AC	31 (1959)	375
$C_{27}H_{40}O_4$	6β-Hydroxy-Δ^4-22a-spirosten-3-one	-	Sol	Band freq, Group study	Romo	JOC	19 (1954)	1509
$C_{27}H_{40}O_4$	Δ^8-22a-5α-14-Iso(β)-spirosten-3β-ol-11-one	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3496
$C_{27}H_{40}O_4$	$\Delta^{13(17a)}$-22a,5α-C-Nor/D-homospirosten-3β-ol-11-one	2-16 μ	Sol	Spec	Hirschmann	JACS	76 (1954)	4013
$C_{27}H_{40}O_4$	22a-Spiresta-$\Delta^{7,9(11)}$ diene-3β,5α-diol	-	Sol	Group freq	Djerassi	JCS	- (1955)	2346
$C_{27}H_{40}O_4$	22a,5α-Spirostane-3,6-dione	-	Sol	Band freq	Romo	JOC	19 (1954)	1509
$C_{27}H_{40}O_4$	22a,5α-Spirostane-3,11-dione	-	Sol	Band freq	Djerassi	JACS	74 (1952)	1712
		-	Sol	Band freq	Djerassi	JACS	76 (1954)	5533
$C_{27}H_{40}O_4$	22a,5β-Spirostane-3,11-dione	-	Sol	Band freq	Lemin	JACS	76 (1954)	5672
$C_{27}H_{40}O_4$	22a,5α-Spirostane-3,12-dione	-	-	Ident	Djerassi	JACS	75 (1953)	4885
$C_{27}H_{40}O_4$	22a,5β-Spirostane-3,12-dione	-	-	Ident, Band freq	Djerassi	JACS	75 (1953)	4885
$C_{27}H_{40}O_4$	Δ^8-22a,5α-Spirosten-3β-ol-7-one	-	Sol	Group freq, Band freq	Mancera	JACS	75 (1953)	4428
$C_{27}H_{40}O_4$	Δ^8-22a,5β-Spirosten-3α-ol-7-one	-	S	Group freq, Band freq	Rosenkrantz	JACS	75 (1953)	4430
$C_{27}H_{40}O_4$	Δ^8-22a,5α-Spirosten-3β-ol-11-one	-	Sol	Group freq	Djerassi	JACS	75 (1953)	3496

$C_{27}H_{40}O_4$	$\Delta^{9(11)}$-22a-5α-Spirosten-3β-ol-12-one	-	Sol	Band freq, Ident	So dheimer	JACS	75 (1953)	5930
$C_{27}H_{40}O_5$	$\Delta^{9(11)}$-3α-Acetoxy-12-ketocholenic acid methyl ester	1700	Sol	Struct, Freq	Jones	JACS	71 (1949)	241
$C_{27}H_{40}O_5$	3-Dehydrohecololactone	-	Sol	Group freq	Rothman	JACS	76 (1954)	527
$C_{27}H_{40}O_5$	9,11-Dehydromannogenin	-	-	Group freq	Ricciuti	JACS	74 (1952)	4461
$C_{27}H_{40}O_5$	7ξ,8ξ,9α,11α-Diepoxy-22a,5β-spirostan-3α-ol	-	Sol	Absence of C=o band	Lemin	JACS	76 (1954)	5672
$C_{27}H_{40}O_5$	9α,11α-Epoxy-22a,5β-spirostan-8ξ-ol-3-one	-	Sol	Group freq	Lemin	JACS	76 (1954)	5672
$C_{27}H_{40}O_5$	9α,11α-Epoxy-22a-spirost-7-ene-3ξ,5α-diol	-	Sol	Band freq	Djerassi	JCS	- (1954)	2346
$C_{27}H_{40}O_5$	$\Delta^{8(9)}$-22-Isoallospirostan 3β,11α-diol-7-one	-	S	Group freq	Djerassi	JACS	74 (1952)	1712
$C_{27}H_{40}O_5$	Kammogenin	-	-	Group freq	Ricciuti	JACS	74 (1952)	4461
$C_{27}H_{40}O_5$	Methyl 3 -acetoxy-11-keto-$\Delta^{8(9)}$-cholenate	-	-	Band freq	Heymann	JACS	73 (1951)	5252
$C_{27}H_{40}O_5$	Methyl-3β-acetoxy-11-keto-$\Delta^{8(9)}$-cholenate	-	-	Band freq	Heymann	JACS	73 (1951)	5252
$C_{27}H_{40}O_5$	22a,5α-Spirostan-3β-ol-7,11-dione	-	Sol	Ident	Mancera	JACS	75 (1953)	4428
$C_{27}H_{40}O_5$	22a,5α-Spirostan-3β-ol-11,12-dione	-	Sol	Band freq	Djerassi	JACS	76 (1954)	5533
$C_{27}H_{40}O_5$	$\Delta^{9(11)}$-22a,5 -Spirostene-3β,11-diol-12-one	-	Sol	Band freq	Djerassi	JACS	76 (1954)	5533

$C_{27}H_{40}O_6$	7α,8α,9α,11α-Diepoxy-22a-spirostane-3β,5α-diol	-	Sol	Band freq	Djerassi	JCS	- (1954)	2346
$C_{27}H_{40}O_6$	Hecogenoic acid	-	S	Band freq	James	JCS	- (1955)	637
$C_{27}H_{40}O_6$	Methyl 3α-acetoxy-11,12-diketocholanate	-	Sol	Group freq	Archer	JACS	76 (1954)	4915
$C_{27}H_{40}O_6$	Methyl Δ^8-3α-acetoxy-7-keto-11α-hydroxy-cholenate	-	S	Freq, Free OH band	Djerassi	JACS	74 (1952)	3321
$C_{27}H_{40}O_6$	Δ^5-Pregnen-21-ol-3,20-dione 21-acetate 3,20-bisethylene ketal	-	S	Band freq	Bernstein	JACS	77 (1955)	2233
$C_{27}H_{40}O_6$	Δ^5-Pregnenetriol-3β,16α,20β-triacetate	8-14 μ	-	Freq, Band freq	Hirschmann	JACS	74 (1952)	539
		2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		-	-	Ident	Hirschmann	JOC	20 (1955)	572
$C_{27}H_{40}O_6$	Δ^5-Pregnenetriol-3β,20,21-triacetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{27}H_{40}O_6$	$\Delta^{17(20)}$-Pregnene-3α,12α,20-triol triacetate	-	Sol	Group freq, Struct	Jones	JACS	74 (1952)	2820
		-	Sol	Band freq, Struct	Vanderhaeghe	JACS	74 (1952)	2810
$C_{27}H_{40}O_6$	$\Delta^{17(20)}$-Pregnentriol-3β,11β,20-triacetate	-	Sol	Band freq, Struct	Jones	JACS	74 (1952)	2820
$C_{27}H_{40}O_6$	$\Delta^{17(20)}$-Pregnenetriol-3β,12β,20-triacetate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{27}H_{40}O_6$	$\Delta^{20(21)}$-Pregnene-3α,12α,20-triol triacetate	-	Sol	Group freq, Group spec, Struct	Vanderhaeghe	JACS	74 (1952)	2810
$C_{27}H_{40}O_6$	3β,16α,20α-Triacetoxy-Δ^5-pregnene	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		-	-	Ident	Hirschmann	JOC	20 (1955)	572
$C_{27}H_{40}O_7$	Allopregnane-3β,6β,21-triol-20-one triacetate	-	Sol	Band freq	Romo	JACS	76 (1954)	5169

$C_{27}H_{40}O_7$	Allopregnane-3β,7,11α-triol-20-one triacetate	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3505
$C_{27}H_{40}O_7$	Allopregnane-3β,11α,21-triol-20-one triacetate	-	Sol	Freq	Sondheimer	JACS	75 (1953)	2601
$C_{27}H_{40}O_7$	Δ^7-Allopregnene-17α,21-diol-3,20-dione 21-acetate 3,20-bisethylene ketal	-	S	Band freq	Antonucci	JACS	76 (1954)	2956
$C_{27}H_{40}O_7$	Digitogenic acid	-	Sol	Band freq	Klass	JACS	77 (1955)	3829
$C_{27}H_{40}O_7$	Pregnane-3α,11α,21-triol-20-one triacetate	-	Sol	Band freq	Sondheimer	JACS	75 (1953)	2601
$C_{27}H_{40}O_7$	Pregnane-3α,11β,17α-triol-20-one triacetate	-	-	Group study	Oliveto	JACS	75 (1953)	5486
$C_{27}H_{40}O_7$	Δ^5-Pregnene-17α,21-diol-3,20-dione 21-acetate 3,20-bisethylene ketal	-	S	Band freq	Antonucci	JACS	76 (1954)	2956
$C_{27}H_{40}O_8$	Allopregnane-3β,11α,17α,21-tetrol-20-one-3,11,21-triacetate	-	-	Band freq, Free OH indic	Romo	JACS	75 (1953)	1277
$C_{27}H_{40}O_8$	Allopregnane-3β,17α,20β,21-tetrol-11-one-3,20,-21-triacetate	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{27}H_{40}O_8$	Δ^5-Pregnene-11β,17α,21-triol-3,20-dione-21-acetate-3,20-bis-ethylene ketal	- -	S S	Group freq Ident	Bernstein Allen	JACS JACS	75 (1953) 76 (1954)	4830 6116
$C_{27}H_{40}O_8$	Pregnane-3α,17α,20α,21-tetrol-11-one 3,20,21-triacetate	- 770-3700	- Sol	Ident Freq, I	Soloway Rosenkrantz	JACS JACS	76 (1954) 77 (1955)	2941 2237
$C_{27}H_{40}O_8$	3α,7α,12α-Triacetoxy-etiocholanic acid, methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956

$C_{27}H_{40}O_8$	3α,20β,21-Triacetoxy-17α-hydroxypregnan-11-one	-	-	Ident	Schneider	JACS	77 (1955)	4184
$C_{27}H_{40}O_8$	3β,6β,17α-Triacetoxy-pregnan-5α-ol-20-one	-	Sol	Group freq	Amendolla	JCS	- (1954)	1226
$C_{27}H_{40}O_9$	Pregnane-11β,17α,21-triol-3,20-dione-5α,6α-oxide-21 acetate 3,20-bis-ethylene ketal	-	S	Band freq	Bernstein	JACS	77 (1955)	2233
$C_{27}H_{40}O_9$	Pregnane-11β,17α,21-tetrol-3,20-dione-5β,6β-oxide-21-acetate-3,20-bis-ethylene ketal	-	S	Band freq	Bernstein	JACS	77 (1955)	2233
$C_{27}H_{40}O_9$	3α-Succinoxy-7α-acetoxy-12α-hydroxyetiocholanic acid, methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{27}H_{40}O_{11}$	Methyl 3β,(11),19-triacetoxy-1β,5,14-trihydroxy-14β-etianate	-	-	Ident	Flory	JOC	19 (1954)	1174
$C_{27}H_{41}BrO_3$	22a,25a,4-Bromospirostan-3-one	-	Sol	Group freq	Djerassi	JACS	77 (1955)	4291
$C_{27}H_{41}BrO_3$	23-Bromo-22a,5α-spirostan-3-one	-	Sol	Band freq	Herran	JACS	76 (1954)	5531
		-	Sol	Group freq	Djerassi	JACS	77 (1955)	4291
$C_{27}H_{41}BrO_4$	23ξ-Bromo-11β,12β-epoxy-5α,22a-spirostan-3β-ol	-	S	Group & Band freq	Cornforth	JCS	- (1954)	907
		732-3620	Sol	Group freq, Assign	Dickson	JCS	- (1955)	447
$C_{27}H_{41}BrO_4$	23a-Bromo-3β-hydroxy-5α,22a-spirostan-12-one	-	S,Sol	Group freq, Assign	Dickson	JCS	- (1955)	447
$C_{27}H_{41}BrO_5$	23a-Bromo-3β,12β-dihydroxy-5α,22a-spirostan-11-one	724-3620	S	Group freq, Assign	Dickson	JCS	- (1955)	447
$C_{27}H_{41}BrO_5$	4-Bromo-3-keto-12-acetoxy-cholanic acid methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956

$C_{27}H_{41}BrO_5$	11α-Bromo-12-keto-3α-acetoxycholanic acid methyl ester	1500–1800	Sol	Group freq, Spec	Jones	JACS	74 (1952)	2828
$C_{27}H_{41}BrO_5$	11β-Bromo-12-keto-3α-acetoxycholanic acid methyl ester	1500–1800	Sol	Group freq, Spec	Jones	JACS	74 (1952)	2828
$C_{27}H_{41}Br_3O$	2α,2β,6β-Tribromo-Δ^4-cholesten-3-one	-	-	C=O shift	Fieser	JACS	77 (1955)	3305
$C_{27}H_{41}NO_3$	Dihydrojervine	-	S,Sol	Band freq	Winterstemer	JACS	76 (1954)	5609
$C_{27}H_{41}NO_7$	Digitogenic acid oxime	-	Sol	Band freq	Klass	JACS	77 (1955)	3829
$C_{27}H_{41}NO_8$	Cevinilic acid δ-lactone	-	Sol	Group freq	Kupchan	JACS	77 (1955)	683
$C_{27}H_{42}$	Anthracholestatriene	-	Sol	Band freq, Spec	Scheer	JACS	77 (1955)	3300
$C_{27}H_{42}$	Cholesta-1,4-dien-3-one	400–4000	Sol	Spec, Config, Absorp band, Extinction coeff	Cummins	JCS	- (1957)	3847
$C_{27}H_{42}$	Neoergostatriene	720–1630	S,Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{27}H_{42}D_4O$	Cholestanone-3-d_4-2,4	1350–1500	Sol	Spec, Table, Freq	Jones	JACS	74 (1952)	5662
$C_{27}H_{42}Br_2O$	2α,6β-Dibromo-Δ^4-cholesten-3-one	-	-	Group freq shift	Fieser	JACS	77 (1955)	3305
$C_{27}H_{42}Br_4O$	2α,2β,5α,6β-Tetra-bromocholestan-3-one	-	-	Group freq shift	Fieser	JACS	77 (1955)	3305
$C_{27}H_{42}N_2O_9$	Methyl 3α,11-dihydroxy-9-nitrocholanate-3-acetate 11-nitrate	-	Sol	Band freq	Anagnostopoulos	JACS	76 (1954)	532
$C_{27}H_{42}O$	$\Delta^{1,4}$-Cholestadienone-3	1580–3100	Sol	Group study, I	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
		1616–1716	Sol	Band study	Jones	JACS	74 (1952)	80

		670-1390	Sol	Spec, Table	Jones	JACS	77 (1955)	651
		-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
		400-4000	Sol	Substitution, Spec	Cummins	JCS	- (1957)	3847
$C_{27}H_{42}O$	$\Delta^{2,4}$-Cholestadiene-6-one	-	-	Band freq	Reich	JOC	16 (1951)	1753
$C_{27}H_{42}O$	$\Delta^{3,5}$-Cholestadien-2-one	-	Sol	Band freq	Conca	JOC	18 (1953)	1104
$C_{27}H_{42}O$	$\Delta^{3,5}$-Cholestadienone-7	1700	Sol	Absorp freq, Struct, Anal	Jones	JACS	71 (1949)	241
		1580-3100	Sol	Group study	Jones	JACS	72 (1950)	86
		650-900	Sol	Spec	Henbest	JCS	- (1957)	997
		-	-	IR discussed	Morcills	ARS	53B (1957)	145
$C_{27}H_{42}O$	$\Delta^{4,6}$-Cholestadienone-3	-	-	Assign	Jones	JACS	70 (1948)	2024
		1580-3100	Sol	Group position, I	Jones	JACS	72 (1950)	86
		1616-1716	Sol	Band study	Jones	JACS	74 (1952)	80
		-	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648
		700-1390	Sol	Spec, Table	Jones	JACS	77 (1955)	651
		400-4000	Sol	Spec, Config, Band study, Extinction coeff.	Cummins	JCS	- (1957)	3847
		600-900	Sol	Spec	Henbest	JCS	- (1957)	997
$C_{27}H_{42}O$	$\Delta^{7,14}$-Cholestadiene-3-one	-	Sol	Band freq	Fieser	JACS	75 (1953)	4404
$C_{27}H_{42}O$	Dihydroepineoergosterol	720-1630	S,Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{27}H_{42}O$	Dihydroneoergosterol	700-1400	S,Sol	Spec, Band freq	Scheer	JACS	77 (1955)	3300
$C_{27}H_{42}O$	$\Delta^{1,3,5(10)}$-1-Methyl-17-(1-methylheptyl)-estratrienol-3	1650-1800	Sol	Group study, Band study	Jones	JACS	72 (1950)	956
$C_{27}H_{42}O_2$	Δ^{4}-Cholestene-3,6-dione	-	Sol	Group freq, Ident	Amendolla	JCS	- (1954)	1226
$C_{27}H_{42}O_2$	Δ^{4}-Cholestene-3,24-dione	-	Sol	Band freq	Ercoli	JACS	75 (1953)	3284
$C_{27}H_{42}O_2$	20α,Δ^{5},3-Deoxydiosgenin	2750-3100	Sol	Spec, C-H freq	Smith	AC	31 (1959)	1539

$C_{27}H_{42}O_2$	20-Δ^5-3-Deoxyyamogenin	3100-2750	Sol	Spec	Smith	AC	31 (1959)	1539
$C_{27}H_{42}O_2$	Δ^2-22-Isoallospirostene	-	-	No C=O absorpt	Wendler	JACS	74 (1952)	4894
$C_{27}H_{42}O_2$	Δ^4-22a,25a-Spirosten	-	Sol	Ident	Djerassi	JACS	77 (1955)	4291
$C_{27}H_{42}O_3$	Δ^7-Cholestene-3,6-dione-5-ol	-	Sol	Band freq	Fieser	JACS	75 (1953)	4377
$C_{27}H_{42}O_3$	Cyclo-ψ-diosgenin	788-3620	S,Sol	Table, Group freq, Ident	Callow	JCS	- (1955)	1966
$C_{27}H_{42}O_3$	$\Delta^{9(11)}$-Dehydrotigogenin	-	-	Group indic, Freq	Hirschmann	JACS	75 (1953)	3252
$C_{27}H_{42}O_3$	20α-3-Deoxy hecogenin	2750-3100	Sol	Spec	Smith	AC	31 (1959)	1539
$C_{27}H_{42}O_3$	Diosgenin	890-1500	Sol	Spec, Table, Group freq, I	Jones	JACS	75 (1953)	158
		-	-	Ident	Sato	JACS	75 (1953)	6067
		-	-	Band freq, Config	Ziegler	JACS	76 (1954)	3865
		-	Sol	Comparison	Ziegler	JACS	77 (1955)	1223
$C_{27}H_{42}O_3$	3β-Hydroxy-C-nor-D-homo-5α,22a-spirost-17a-ene	-	S	Group freq	Elks	JCS	- (1954)	1739
$C_{27}H_{42}O_3$	3β-Hydroxy-C-nor-D-homo-5α,22a-spirost-17a-ene	-	S	Group freq	Elks	JCS	- (1954)	1739
$C_{27}H_{42}O_3$	3β-Hydroxy-5α,22a-spirost-11-ene	-	S	Group freq	Elks	JCS	- (1954)	1739
$C_{27}H_{42}O_3$	20-Isosmilagenone	-	-	Compar	Wall	JACS	77 (1955)	1230
$C_{27}H_{42}O_3$	22-Isospirostan-3-one	-	Sol	Band freq	Djerassi	JACS	74 (1952)	422
$C_{27}H_{42}O_3$	$\Delta^{8(9)}$-22-Isospirosten-3α-ol	-	Sol	Free OH band, No carbonyl bond	Djerassi	JACS	74 (1952)	422
$C_{27}H_{42}O_3$	3-Keto-20-isosarsasapogenone	-	-	Group freq, Struct	Wall	JACS	77 (1955)	1230

$C_{27}H_{42}O_3$	Neodiosgenin	-	-	Band freq, Config	Ziegler	JACS	76 (1954)	3865
		-	Sol	Band freq	Ziegler	JACS	77 (1955)	1223
$C_{27}H_{42}O_3$	8α,9α-Oxidocholestane-3, 7-dione	-	Sol	Band freq	Fieser	JACS	75 (1953)	4719
$C_{27}H_{42}O_3$	8α,14α-Oxidocholestane-3, 7-dione	-	Sol	Band freq	Fieser	JACS	75 (1953)	4719
$C_{27}H_{42}O_3$	Pseudodiosgenin	660-5000	Sol	Spec, Group freq	Hayden	AC	26 (1954)	550
		-	-	Band freq, Config.	Ziegler	JACS	76 (1954)	3865
$C_{27}H_{42}O_3$	Sarsasapogenone-3	890-1340	Sol	Spec, Table, Group freq	Jones	JACS	75 (1953)	158
$C_{27}H_{42}O_3$	22a-Spirost-5-en-3β-ol	2.5-3.5 μ	Sol	Group study	Kabasakalian	AC	31 (1959)	375
$C_{27}H_{42}O_3$	Tigogenone-3	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		890-1500	Sol	Spec, Table, Group freq, I	Jones	JACS	75 (1953)	158
$C_{27}H_{42}O_3$	Yamogenin	890-1500	Sol	Spec, Group freq, I	Jones	JACS	75 (1953)	158
		-	Sol	Ident	Wall	JACS	77 (1955)	3086
$C_{27}H_{42}O_4$	$\Delta^{9(11)}$-3α-Acetoxycholenic acid, methyl ester	-	-	Assign	Jones	JACS	70 (1948)	2024
		1580-3100	Sol	Group study	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{27}H_{42}O_4$	Δ^{5}-3β-Acetoxycholenic acid, methyl ester	1580-3100	Sol	Group study	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
		2.5-15 μ	S,Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		700-1400	Sol	Band study, Ident	Jones	JACS	78 (1956)	1152
$C_{27}H_{42}O_4$	Δ^{11}-3α-Acetoxycholenic acid, methyl ester	1580-3100	Sol	Group study	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
		2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		650-3100	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{27}H_{42}O_4$	Δ^{11}-3β-Acetoxycholenic acid, methyl ester	1580-3100	Sol	Group study	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{27}H_{42}O_4$	Cyclo-ψ-hecogenin	785-3620	Sol	Table, Group freq	Callow	JCS	- (1955)	1966

$C_{27}H_{42}O_4$	Cyclo-ψ-sisalagenin	868-3620	S,Sol	Table, Group freq	Callow	JCS	- (1955)	1966
$C_{27}H_{42}O_4$	13ξ-Hydroxy-12,13-seco-5α,22a-spirostan-12-oic acid 12,13-lactone	-	Sol	Group & Band freq, I	Rothman	JACS	76 (1954)	527
$C_{27}H_{42}O_4$	12α-Hydroxy-5α,22a-spirostan-3-one	-	Sol	Group freq	Elks	JCS	- (1954)	1739
$C_{27}H_{42}O_4$	22-Isoallospirostan-3β-ol-11-one	-	Sol	Freq, OH free bond	Djerassi	JACS	74 (1952)	1712
		-	-	Ident	Sondheimer	JACS	74 (1952)	2696
		-	Sol	Band freq, Ident	Djerassi	JACS	76 (1954)	5533
$C_{27}H_{42}O_4$	11-Ketoneotigogenin	-	Sol	Band freq	Ziegler	JACS	77 (1955)	1223
$C_{27}H_{42}O_4$	Neohecogenin	-	Sol	Band freq	Ziegler	JACS	77 (1955)	1223
$C_{27}H_{42}O_4$	11-Oxocyclo-ψ-tigogenin	784-3620	S,Sol	Table, Group freq, Iso	Callow	JCS	- (1955)	1966
$C_{27}H_{42}O_4$	11-Oxopseudotigogenin	-	S,Sol	Group freq, Ident	Dickson	JCS	- (1955)	443
$C_{27}H_{42}O_4$	Pennogenin	890-1340	Sol	Spec, Table, Group freq, I	Jones	JACS	75 (1953)	158
$C_{27}H_{42}O_4$	Pseudohecogenin	660-5000	S,Sol	Spec, Group freq	Hayden	AC	26 (1954)	550
		-	S	Band freq	Callow	JCS	- (1955)	1671
$C_{27}H_{42}O_4$	Pseudosisalagenin	-	S	Comparison, Freq	Callow	JCS	- (1955)	1671
$C_{27}H_{42}O_4$	6,7-Secocoprostan-3-one-6,7-dioic acid anhydride	-	Sol	Band freq	Fieser	JACS	75 (1953)	4386
$C_{27}H_{42}O_4$	Sisalagenin	-	S	Band study	Callow	JCS	- (1955)	1671
$C_{27}H_{42}O_4$	22a,5α-Spirostan-3β-ol-7-one	-	Sol	Group freq, Band freq	Mancera	JACS	75 (1953)	4428
$C_{27}H_{42}O_4$	22a,5α-spirostan-3β-ol-11-one	-	Sol	Band freq, Free OH indic	Sondheimer	JACS	75 (1953)	1282
$C_{27}H_{42}O_4$	22a,5α-8-Iso(α)-spirostan-3β-ol-11-one	-	-	Ring conformation	Djerassi	JACS	75 (1953)	3496

$C_{27}H_{42}O_4$	22a,5 -14-Iso(β)-spirostan-3β-ol-11-one	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3496
$C_{27}H_{42}O_4$	22a,5α-8-Iso(α),14-iso(β)-spirostan-3β-ol-11-one	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3496
$C_{27}H_{42}O_4$	22a,5β-Spirostan-3α-ol-11-one	-	Sol	Band freq	Lemin	JACS	76 (1954)	5672
$C_{27}H_{42}O_4$	22a,5α-Spirostan-3β-ol-12-one	-	-	Group freq	Kuder	JACS	74 (1952)	3201
		-	-	Table, Group freq	Ricciuti	JACS	74 (1952)	4461
		-	-	Ident	Djerassi	JACS	75 (1953)	4885
		-	S,Sol	Group freq	Turner	JACS	75 (1953)	4362
		-	-	Band study	Hirschmann	JACS	76 (1954)	4013
		-	S	Ident, Freq	Callow	JCS	- (1955)	1671
		-	-	Ident, Freq	Callow	JCS	- (1955)	1966
$C_{27}H_{42}O_4$	22a,5β-Spirostan-3α-ol-12-one	-	-	Group freq	Djerassi	JACS	75 (1953)	4885
$C_{27}H_{42}O_4$	22a-Spirost-5-ene-1β,3β-diol	2.5-3.5 μ	Sol	Group study	Kabasakalian	AC	31 (1959)	375
$C_{27}H_{42}O_4$	Δ^4-22a-Spirostene-3β,6β-diol	-	S	Free OH	Romo	JOC	19 (1954)	1509
$C_{27}H_{42}O_5$	3α-Acetoxy-11α,21α epoxycholanic acid, methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{27}H_{42}O_5$	3β,13ξ-Dihydroxy- 12,13-seco-5α,22a-spirostan-12-oic acid-12,13-lactone	-	Sol	Group & Band freq	Rothman	JACS	76 (1954)	527
$C_{27}H_{42}O_5$	3β-Hydroxy-5α,22a-C-norspirostan-11-oic acid	-	S,Sol	Group & Band freq	Wendler	JACS	77 (1955)	1632
$C_{27}H_{42}O_5$	Isoallospirostan-2α,3β-diol-12-one	-	-	Group freq	Krider	JACS	74 (1952)	3201
		-	-	Band freq	Ricciuti	JACS	74 (1952)	4461

$C_{27}H_{42}O_5$	22-Isoallospirostan-3β,11α-diol-7-one	-	Sol	Group freq, Free OH band	Djerassi	JACS	74 (1952)	1712
$C_{27}H_{42}O_5$	22-Isoallospirostan-3β,12-diol-11-one	-	-	Struct, Assign, Group freq	Djerassi	JOC	16 (1951)	303
$C_{27}H_{42}O_5$	22a,5α-14-Isospirostane-2α,3β-diol-15-one	-	Sol	Band freq	Klass	JACS	77 (1955)	3829
$C_{27}H_{42}O_5$	6-Keto-3α-acetoxy-allocholanic acid methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{27}H_{42}O_5$	6-Keto-3α-acetoxycholanic acid, methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{27}H_{42}O_5$	6-Keto-12-acetoxycholanic acid, methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{27}H_{42}O_5$	11-Ketorockogenin	-	-	Ident	Rosenfeld	JACS	77 (1955)	4367
		-	-	Ident	Wendler	JACS	77 (1955)	1632
$C_{27}H_{42}O_5$	20α-Manogenin acetate	2750-3100	Sol	Speo, Freq	Smith	AC	31 (1959)	1539
$C_{27}H_{42}O_5$	20β-Manogenin acetate	2750-3100	Sol	Spec, Freq	Smith	AC	31 (1959)	1539
$C_{27}H_{42}O_5$	Methyl 3α-acetoxy-11-ketocholanate	1712	Sol	Absorp freq, Struct	Jones	JACS	71 (1949)	241
		-	Sol	Band freq	Anagnostopoulos	JACS	76 (1954)	532
		-	Sol	Group freq	Archer	JACS	76 (1954)	4915
		-	-	Ident	Rosenfeld	JACS	77 (1955)	4367
$C_{27}H_{42}O_5$	Methyl-3α-acetoxy-12-ketocholanate	1700	Sol	Absorp freq, Struct, Anal	Jones	JACS	71 (1949)	241
		-	-	Ident	Rosenfeld	JACS	77 (1955)	4367
$C_{27}H_{42}O_5$	Methyl-3α-acetoxy-8,9-oxidocholanate	-	-	Freq	Heymann	JACS	73 (1951)	5252
$C_{27}H_{42}O_5$	Methyl-3α-acetoxy-9β,11β-oxidocholanate	-	-	Ester carbonyl absorp	Constantin	JACS	74 (1952)	3908
$C_{27}H_{42}O_5$	6,7-Seco-Δ^4-cholesten-3-one-6,7-dioic acid	-	Sol	Group freq, Band freq	Fieser	JACS	75 (1953)	4386

$C_{27}H_{42}O_5$	22a-Spirostan-5α,6β-diol -3-one	-	S	Band freq, Free OH indic	Sondheimer	JACS	76 (1954)	5020
$C_{27}H_{42}O_5$	22a,25a-Spirostane-2β, 3β-diol-12-one	-	Sol	Freq	Djerassi	JACS	77 (1955)	4291
$C_{27}H_{42}O_6$	Allopregnane-3β,11α,20β-triol triacetate	-	Sol	Freq	Stock	JACS	73 (1951)	3546
$C_{27}H_{42}O_6$	Allopregnanetriol-3α, 16,20-triacetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Band study	Jones	JACS	74 (1952)	80
$C_{27}H_{42}O_6$	Allopregnanetriol-3α, 16α,20β-triacetate	8-13 μ	-	Absorp max, Band freq	Hirschmann	JACS	74 (1952)	539
$C_{27}H_{42}O_6$	Allopregnanetriol-3β,16α, 20β-triacetate	-	-	Ident	Hirschmann	JACS	74 (1952)	539
		2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{27}H_{42}O_6$	Allopregnane-3β,20β,21-triol-3,20,21-triacetate	770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{27}H_{42}O_6$	Methyl-3α-acetoxy-9α-hydroxy-11-ketocholanate	-	Sol	Band freq	Heymann	JACS	73 (1951)	5252
$C_{27}H_{42}O_6$	Methyl-3β-acetoxy-9α-hydroxy-11-ketocholanate	-	-	Freq	Heymann	JACS	73 (1951)	5252
$C_{27}H_{42}O_6$	Methyl-3α-acetoxy-12β-hydroxy-11-ketocholanate	-	Sol	Group freq	Archer	JACS	76 (1954)	4915
$C_{27}H_{42}O_6$	Pregnanetriol-3α,12α,20β-triacetate	-	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648
$C_{27}H_{42}O_6$	Pregnanetriol-3α,16,20-triacetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{27}H_{42}O_6$	22a,5α-2,3-Secospirostane-2,3-dioic acid	-	Sol	Band freq, Ident	Herran	JACS	76 (1954)	5531
$C_{27}H_{42}O_6$	2,3-Seco-22b-spirostane-2,3-dioic acid	800-1400	Sol	Spec	Wall	JACS	75 (1953)	4437
$C_{27}H_{42}O_6$	3β,16α,20α-Triacetoxy-allopregnane	2.5-15 μ	Sol	Spec, Band freq, Group study	Hirschmann	JACS	74 (1952)	5357

$C_{27}H_{42}O_7$	Allopregnane-3β,17α,20β, 21-tetrol 3,20,21-triacetate	770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{27}H_{42}O_7$	Pregnane-5α,21-diol-3,20-dione-21-acetate 3,20-bisethylene ketal	-	S	Band freq	Bernstein	JACS	77 (1955)	2233
$C_{27}H_{42}O_8$	Allopregnane-3β,11β,17α, 20β,21-pentol 3,20,21-triacetate	770-3700	S	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
$C_{27}H_{42}O_9$	Pregnane-5α,11β,17α, 21-tetrol-3,20-dione -21-acetate-3,20-bisethylene ketal	-	S	Band freq	Bernstein	JACS	77 (1955)	2233
$C_{27}H_{43}BrO$	Δ^1-2-Bromocholestenone -3	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{27}H_{43}BrO$	Δ^2-2-Bromocholestenone -3	1641-1741	Sol	Band study	Jones	JACS	74 (1952)	80
		-	Sol	Table, Freq	Jones	JACS	74 (1952)	5648
$C_{27}H_{43}BrO$	2α-Bromocholest-1-en-3-one	400-4000	Sol	α-halogen substitution spec	Cummins	JCS	- (1957)	3847
$C_{27}H_{43}BrO$	2α-Bromo-Δ^4-cholesten -3-one	-	-	Freq shift	Fieser	JACS	77 (1955)	3305
		400-4000	Sol	Substitution effect, Spec	Cummins	JCS	- (1957)	3847
$C_{27}H_{43}BrO$	4α-Bromocholest-1-en--3-one	400-4000	Sol	Substitution effect	Cummins	JCS	- (1957)	3847
$C_{27}H_{43}BrO$	6α-Bromocholest-4-en--3-one	-	Sol,S	Substitution effect, Freq	Bird	JCS	- (1956)	3675
		400-4000	Sol	Spec, Config. Extinction coeff	Cummins	JCS	- (1957)	3847
$C_{27}H_{43}BrO$	6β-Bromocholest-4-en-3-one	-	S,Sol	Freq, Substitution effect	Bird	JCS	- (1956)	3675
		400-4000	Sol	Spec, Config, Extinction coeff.	Cummins	JCS	- (1957)	3847

$C_{27}H_{43}Br_3O$	2α,5α,6β-Tribromocholestan-3-one	-	-	Freq shift	Fieser	JACS	77 (1955)	3305
$C_{27}H_{43}Br_3O$	2β,5α,6β-Tribromocholestan-3-one	-	-	Freq shift	Fieser	JACS	77 (1955)	3305
$C_{27}H_{43}Br_3O$	4α,5α,6β-Tribromocholestanone-3	-	-	Group freq	Corey	JACS	76 (1954)	175
$C_{27}H_{43}Br_3O$	4β,5α,6β-Tribromocholestanone-3	-	-	Group freq	Corey	JACS	76 (1954)	175
$C_{27}H_{43}ClO$	Δ^1-2-Chlorocholesten-3-one	-	Sol	Band freq	Beereboom	JOC	19 (1954)	1196
$C_{27}H_{43}ClO$	Δ^4-2α-Chlorocholesten-3-one	-	Sol	Band freq	Beereboom	JOC	19 (1954)	1196
		400-4000	Sol	Substitution effect	Cummins	JCS	- (1957)	3847
$C_{27}H_{43}ClO$	6β-Chloro-Δ^4-cholesten-3-one	-	-	Ident	Ginsburg	JACS	75 (1953)	5489
$C_{27}H_{43}NO$	Pseudosolanidine	2-14.5 μ	S	Spec	Pelletier	JACS	75 (1953)	4442
$C_{27}H_{43}NO$	Solanidine	-	-	Ident	Pelletier	JACS	74 (1952)	4218
		2-14.5 μ	S	Spec	Pelletier	JACS	75 (1953)	4442
$C_{27}H_{43}NO_2$	Isorubijervine	-	Sol	Anal	Papineau	AC	24 (1952)	1918
		-	-	Ident	Pelletier	JACS	74 (1952)	4218
		-	-	Ident	Klohs	JACS	75 (1953)	2133
$C_{27}H_{43}NO_2 \cdot H_2O$	Rubijervine hydrate	-	Sol	Anal, for ester conc. in mixture	Papineau	AC	24 (1952)	1918
$C_{27}H_{43}NO_2$	Solasodine	-	-	Ident	Uhle	JACS	75 (1953)	2280
		-	-	Ident	Uhle	JACS	76 (1954)	4245
$C_{27}H_{43}NO_3$	Tetrahydrojervine	-	S	Band freq	Wintersteiner	JACS	76 (1954)	5609
$C_{27}H_{43}NO_7$	Pseudozygadenine	2-13 μ	Sol	Spec	Kupchan	JACS	75 (1953)	1025
$C_{27}H_{43}NO_7$	Zygadenine	2-13 μ	Sol	Ident, Spec	Kupchan	JACS	75 (1953)	1025
$C_{27}H_{43}NO_8$	Cevine	1500-3700	S,Sol	Group freq, Spec	Marion	JACS	73 (1951)	305
		-	-	no C=O band	Marion	JACS	74 (1952)	270

		-	-	Ident	Barton	JCS	- (1953)	424
		2-13 μ	Sol	Spec, Ident	Kupchan	JACS	75 (1953)	5519
		2-14.5 μ	S	Spec, Group indic	Pelletier	JACS	75 (1953)	3248
$C_{27}H_{43}NO_8$	Germine	3-14 μ	S	Freq, Struct	Fried	JACS	74 (1952)	3041
		-	S	Ident	Kupchan	JACS	75 (1953)	1025
		2-14.5 μ	S	Spec	Pelletier	JACS	75 (1953)	3248
		-	S	Ident	Kupchan	JACS	76 (1954)	5545
		-	-	Ident	Myers	JACS	77 (1955)	3348
$C_{27}H_{43}NO_8$	Isogermine	2-14 μ	S	Freq, Struct	Fried	JACS	74 (1952)	3041
		2-14.5 μ	S	Spec	Pelletier	JACS	75 (1953)	3248
$C_{27}H_{43}NO_8$	Pseudogermine	2-14.5 μ	S	Spec	Pelletier	JACS	75 (1953)	3248
$C_{27}H_{43}NO_8$	Protocevine	2-13 μ	Sol	Spec, Ident	Kupchan	JACS	75 (1953)	5519
$C_{27}H_{43}NO_8$	Veracevine	2-14.5 μ	S	Spec	Pelletier	JACS	75 (1953)	3248
$C_{27}H_{43}NO_8$	Isoveracevine	-	-	Group freq, Struct	Barton	JCS	- (1953)	424
		-	S	Group freq, Ident	Kupchan	JACS	75 (1953)	5519
		2-14.5 μ	S	Spec	Pelletier	JACS	75 (1953)	3248
$C_{27}H_{43}NO_9$	Protoverine	2-13 μ	S	Spec	Klohs	JACS	74 (1952)	5107
		2-14.5 μ	S	Spec, Group freq	Pelletier	JACS	75 (1953)	3248
$C_{27}H_{43}NO_9$	Isoprotoverine	-	-	Band study	Myers	JACS	74 (1952)	3198
		-	S	Group indic	Pelletier	JACS	75 (1953)	3248
$C_{27}H_{44}$	$\Delta^{2,4}$-Cholestadiene	1650-1800	Sol	Group study	Jones	JACS	72 (1950)	956
		2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{27}H_{44}$	$\Delta^{2,5}$-Cholestadiene	3.40-7.25 μ	Sol	Table, no OH band	Tsou	JACS	76 (1954)	6108
$C_{27}H_{44}$	$\Delta^{2,6}$-Cholestadiene	650-3100	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{27}H_{44}$	$\Delta^{3,5}$-Cholestadiene	2-9 μ	-	Spec, Group freq	O'Connor	JACS	74 (1952)	5454
		650-900	Sol	Spec	Henbest	JCS	- (1957)	997
$C_{27}H_{44}D_2O$	Cholestanone-7-d_2-6	1300-1500	Sol	Spec, Group freq	Jones	JACS	74 (1952)	5662

$C_{27}H_{44}BrClO$	2α-Chloro-2β-bromo-cholestan-3-one	-	Sol	Band freq	Beereboom	JOC	19 (1954)	1196
		400–4000	Sol	Spec, Extinction coeff, Config.	Cummins	JCS	- (1957)	3847
$C_{27}H_{44}BrClO$	2α-Chloro-4α-bromo-cholestan-3-one	-	Sol	Band freq	Beereboom	JOC	19 (1954)	1196
		400–4000	Sol	Spec, Config, Extinction coeff.	Cummins	JCS	- (1957)	3847
$C_{27}H_{44}BrIO$	2α-Iodo-4α-bromo-cholestan-3-one	400–4000	Sol	Substitution effect, Spec	Cummins	JCS	- (1957)	3847
$C_{27}H_{44}Br_2O$	2,2-Dibromocholestanone-3	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		1685–1785	Sol	Band study	Jones	JACS	74 (1952)	80
		-	Sol	Group freq	Jones	JACS	74 (1952)	2828
		-	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648
		400–4000	Sol	Spec, Config, Extinction coeff	Cummins	JCS	- (1957)	3847
$C_{27}H_{44}Br_2O$	2,4-Dibromocholestanone-3	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		1706–1806	Sol	Band study	Jones	JACS	74 (1952)	80
		"	Sol	Group freq	Jones	JACS	74 (1952)	2828
$C_{27}H_{44}Br_2O$	2α,4α-Dibromo--cholestan-3-one	-	-	Freq, Shift	Cookson	JCS	- (1954)	282
		400–4000	Sol	Spec, Config, Extinction coeff	Cummins	JCS	- (1957)	3847
$C_{27}H_{44}Br_2O$	5α,6β-Dibromo-cholestan-3	-	-	Group freq	Corey	JACS	76 (1954)	175
$C_{27}H_{44}Br_2O$	2,4-Dibromocoprostanone-3	-	Sol	Group freq, Substitution effect	Jones	JACS	74 (1952)	2828
$C_{27}H_{44}Cl_2O$	2,2-Dichlorocholestan-3-one	-	Sol	Band freq	Beereboom	JACS	75 (1953)	3500
		-	Sol	Band freq	Beereboom	JOC	19 (1954)	1196
		-	S	Ident	Fonken	JACS	77 (1955)	172
		400–4000	Sol	Spec, Config, Extinction coeff.	Cummins	JCS	- (1957)	3847
$C_{27}H_{44}O$	$\Delta^{5,7}$-Cholestadienol-3β	-	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648
		2–16 μ	S	Spec, Group freq	Johnson	JACS	75 (1953)	52
$C_{27}H_{44}O$	$\Delta^{6,8}$-Cholestadienol-3β	-	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648

$C_{27}H_{44}O$	Δ^1-Cholestenone-3	1580-3100	Sol	Group study	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
		744-1270	Sol	Table	Jones	JACS	77 (1955)	651
		400-4000	Sol	Spec, Config. Extinction coeff.	Cummins	JCS	- (1957)	3847
		650-900	Sol	Spec	Henbest	JCS	- (1957)	997
$C_{27}H_{44}O$	Δ^2-Cholesten-1-one	3-15 μ	-	Spec, Table,	Striebel	HCA	37 (1954)	1094
		600-900	Sol	Spec	Henbest	JCS	- (1957)	997
$C_{27}H_{44}O$	Δ^4-Cholestenone-3	-	-	Assign	Jones	JACS	70 (1948)	2024
		1580-3100	Sol	Group study	Jones	JACS	72 (1950)	86
		3-13 μ	S,Sol	Spec, Band freq, Struct	Josien	JACS	73 (1951)	4445
		-	Sol	Band freq, Ident	Fieser	JACS	75 (1953)	4377
		-	Sol	Group freq	Rubin	JACS	75 (1953)	3513
		-	Sol	Ident	Sondheimer	JACS	75 (1953)	5930
		-	Sol	Ident	Beereboom	JOC	19 (1954)	1196
		674-1330	Sol	Table	Jones	JACS	77 (1955)	651
		-	Sol,S	Freq, Substitution effect	Bird	JCS	- (1956)	3675
		400-4000	Sol	Spec, Config, Extinction coeff.	Cummins	JCS	- (1957)	3847
		650-900	Sol	Spec	Henbest	JCS	- (1957)	997
		-	Sol	Spec	Morita	BCSJ	31 (1958)	379
$C_{27}H_{44}O$	Δ^4-Cholestenone-6	-	-	Band freq	Reich	JOC	16 (1951)	1753
$C_{27}H_{44}O$	Δ^5-Cholestenone-3	1671-1771	Sol	Band study	Jones	JACS	74 (1952)	80
		400-4000	Sol	Spec,Config. Extinction coeff.	Cummins	JCS	- (1957)	3847
$C_{27}H_{44}O$	Cholest-5-en-7-one	650-900	Sol	Spec	Henbest	JCS	- (1957)	997
$C_{27}H_{44}O$	$\Delta^{8:9}$-Cholestenone-3	700-1000	Sol	Spec, Band freq	Bladon	JCS	- (1951)	2402
$C_{27}H_{44}O$	Δ^1-Coprosten-3-one	-	Sol	Group freq	Rubin	JACS	75 (1953)	3513
$C_{27}H_{44}O$	Isocholestane-6-one	-	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648
		3-13 μ	S,Sol	Band freq, Struct	Josien	JACS	73 (1951)	4445

$C_{27}H_{44}O$	A-Nor-30,31-bisnor-lanost-8-en-3-one	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{27}H_{44}O$	Vitamin D_3	700-1500	-	Spec	Jones	CIC	2 (1950)	94
		-	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648
		-	-	Group freq	Milas	JACS	77 (1955)	4180
$C_{27}H_{44}O_2$	Cholestanedione-3,7	-	Sol	Table, Freq	Jones	JACS	74 (1952)	5648
$C_{27}H_{44}O_2$	Δ^2-Cholestenol-5α-6-one	-	-	Band freq	Reich	JOC	16 (1951)	1753
$C_{27}H_{44}O_2$	Δ^3-Cholesten-5α-ol-2-one	-	Sol	Group freq, Struct	Conca	JOC	18 (1953)	1104
		600-900	Sol	Spec	Henbest	JCS	- (1957)	997
$C_{27}H_{44}O_2$	Δ^4-Cholesten-3β-ol-6-one	-	S,Sol	Group freq	Turner	JACS	75 (1953)	4362
$C_{27}H_{44}O_2$	Δ^4-Cholesten-4-ol-3-one	-	Sol	Band freq	Fieser	JACS	76 (1954)	1728
$C_{27}H_{44}O_2$	Δ^4-Cholesten-6α-ol-3-one	-	Sol	Band freq, Free OH	Sondheimer	JACS	75 (1953)	4712
$C_{27}H_{44}O_2$	Δ^4-Cholesten-6β-ol-3-one	-	Sol	Ident, Band freq	Fieser	JACS	75 (1953)	4377
		-	Sol	Group freq	Amendolla	JCS	- (1954)	1226
		-	Sol	Band freq, Free OH	Romo	JOC	19 (1954)	1509
$C_{27}H_{44}O_2$	$\Delta^{8(14)}$-Cholesten-3β-ol--7-one	-	Sol	Band freq	Fieser	JACS	75 (1953)	4719
$C_{27}H_{44}O_2$	20α,3-Deoxysmilagenin	3100-2750	Sol	Spec	Smith	AC	31 (1959)	1539
$C_{27}H_{44}O_2$	20α-3-Deoxysarsa-sapogenin	2700-3100	Sol	Spec	Smith	AC	31 (1959)	1539
$C_{27}H_{44}O_2$	3-Desoxysarsasapogenin	890-1590	Sol	Table, Spec, I	Jones	JACS	75 (1953)	158
		-	Sol	Anal, Ident	Wall	JACS	77 (1955)	3086
$C_{27}H_{44}O_2$	3-Desoxy-20-isosarsa-sapogenin	-	-	No OH indic	Wall	JACS	77 (1955)	1230

$C_{27}H_{44}O_2$	3-Desoxypseudo-sarsasapogenin	-	Sol	Group freq, Struct	Wall	JACS	77 (1955)	1230
$C_{27}H_{44}O_2$	Desoxysmilagenin	-	Sol	Anal, Ident	Wall	JACS	77 (1955)	3086
$C_{27}H_{44}O_2$	20α-3-Desoxytigogenin	2700-3100	Sol	Spec	Smith	AC	31 (1959)	1539
$C_{27}H_{44}O_2$	3-Desoxytigogenin	890-1500	Sol	Spec, Table, Group freq, I	Jones	JACS	75 (1953)	158
		-	Sol	Ident	Wall	JACS	77 (1955)	3086
		-	-	Spec	Smith	AC	31 (1959)	1539
$C_{27}H_{44}O_2$	3-Desoxyneotigogenin	890-1500	Sol	Table, I	Jones	JACS	75 (1953)	158
$C_{27}H_{44}O_2$	2α,5α-Epidioxy-Δ^3-cholestane	650-3100	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{27}H_{44}O_2$	1,2α-Epoxycholestan-3-one	3-15 μ	Sol	Spec, Freq, Table	Striebel	HCA	37 (1954)	1094
$C_{27}H_{44}O_2$	7-Ketocholesterol	-	S,Sol	Group freq	Turner	JACS	75 (1953)	4362
$C_{27}H_{44}O_2$	4α,5-Oxidocholestan-2-one	-	Sol	Group freq	Conca	JOC	18 (1953)	1104
$C_{27}H_{44}O_2$	22a,25a-Spirostane	-	Sol	Ident	Djerassi	JACS	77 (1955)	4291
$C_{27}H_{44}O_3$	Δ^4-Cholestene-6/17-dicarboxylic acid anhydride	-	-	Group freq	Gates	JOC	20 (1955)	610
$C_{27}H_{44}O_3$	Cyclo-ψ-sarsasapogenin	869-3620	S,Sol	Table, Group freq	Callow	JCS	- (1955)	1966
$C_{27}H_{44}O_3$	20α-3-Deoxyrockogenin	3100-2750	Sol	Spec	Smith	AC	31 (1959)	1539
$C_{27}H_{44}O_3$	3-Episarsasapogenin	890-3500	Sol	Spec, Table, I, Group freq	Jones	JACS	75 (1953)	158
$C_{27}H_{44}O_3$	Ketone 104	-	Sol	Band freq	Fieser	JACS	75 (1953)	4395
		5-13 μ	Sol	Spec, Band freq, Group freq	Fieser	JACS	75 (1953)	4418

$C_{27}H_{44}O_3$	8α,14α-Oxidocholestane-3-ol-7-one	-	Sol	Band freq	Fieser	JACS	75 (1953)	4719
$C_{27}H_{44}O_3$	Sarsasapogenin	890-1340	Sol	Table, I	Jones	JACS	75 (1953)	158
		-	-	Spec, Iso	Wall	JACS	76 (1954)	2850
		-	-	Ident	Scheer	JACS	77 (1955)	641
		-	Sol	Band freq	Wall	JACS	77 (1955)	3086
		-	Sol	Band freq, I	Ziegler	JACS	77 (1955)	1223
		-	-	IR discussed	Morcillo	ARS	53B (1957)	145
$C_{27}H_{44}O_3$	3β-Hydroxy-(25-27)-trisnorlanast-8-en-24-oic acid	1500-3700	Sol	Freq	Cole	JCS	- (1959)	2005
$C_{27}H_{44}O_3$	20-Isosarsasapogenin	2.5-15 μ	Sol	Spec	Wall	JACS	77 (1955)	1230
$C_{27}H_{44}O_3$	Neosarsasapogenin	700-1400	Sol	Spec, Band freq	Ziegler	JACS	77 (1955)	1223
$C_{27}H_{44}O_3$	Pseudosarsasapogenin	800-5000	Sol	Spec, Group freq	Hayden	AC	26 (1954)	550
		-	Sol	Group freq	Scheer	JACS	77 (1955)	641
		2.5-15 μ	Sol	Spec	Wall	JACS	77 (1955)	1230
$C_{27}H_{44}O_3$	Smilagenin	-	-	Spec, Iso	Wall	JACS	76 (1954)	2850
		-	S	Ident	Callow	JCS	- (1955)	1671
		-	Sol	Ident	Djerassi	JACS	77 (1955)	4291
		-	-	Ident	Scheer	JACS	77 (1955)	641
		-	Sol	Ident	Wall	JACS	77 (1955)	3086
		-	Sol	Band freq, Ident	Ziegler	JACS	77 (1955)	1223
$C_{27}H_{44}O_3$	Cyclo-ψ-smilagenin	785-1365	S	Table, Group freq, Iso	Callow	JCS	- (1955)	1966
$C_{27}H_{44}O_3$	20-Isosmilagenin	2.5-15 μ	Sol	Spec	Wall	JACS	77 (1955)	1230
$C_{27}H_{44}O_3$	Neosmilagenin	700-1400	Sol	Spec, Band freq	Ziegler	JACS	77 (1955)	1223
$C_{27}H_{44}O_3$	Pseudosmilagenin	660-5000	Sol	Spec, Group freq	Hayden	AC	26 (1954)	550
		-	Sol	Band freq, Ident	Scheer	JACS	77 (1955)	641
$C_{27}H_{44}O_3$	22a,25a,5α-Spirostan-3α-ol	-	Sol	Ident	Djerassi	JACS	77 (1955)	5291
$C_{27}H_{44}O_3$	5α,22a-Spirostane-3β-ol	2.5-3.5 μ	Sol	Group study	Kabasakalian	AC	31 (1959)	375

$C_{27}H_{44}O_3$	Tigogenin	-	-	Spec	Krider	JACS	74 (1952)	3201
		-	-	Physical properties, Group study	Recciuti	JACS	74 (1952)	4461
		890-1350	Sol	Spec, Table, Group freq, I	Jones	JACS	75 (1953)	158
		-	S	Ident	Callow	JCS	- (1955)	1671
		2750-3100	Sol	Spec, Struct	Smith	AC	31 (1959)	1539
$C_{27}H_{44}O_3$	Cyclo-ψ-tigogenin	787-3500	S	Table, Group freq	Callow	JCS	- (1955)	1966
$C_{27}H_{44}O_3$	Cyclo-ψ-neotigogenin	868-3620	S,Sol	Table, Group freq	Callow	JCS	- (1955)	1966
$C_{27}H_{44}O_3$	Neotigogenin	890-1340	Sol	Spec, Table, Group freq, I	Jones	JACS	75 (1953)	158
		-	S	Ident	Callow	JCS	- (1955)	1671
		-	Sol	Band freq	Ziegler	JACS	77 (1955)	1223
$C_{27}H_{44}O_3$	Pseudotigogenin	660-5000	Sol	Spec, Group freq	Hayden	AC	26 (1954)	550
		-	S,Sol	Group freq, Band freq	Dickson	JCS	- (1955)	443
$C_{27}H_{44}O_3$	Pseudoneotigogenin	-	S	Freq	Callow	JCS	- (1955)	1671
$C_{27}H_{44}O_4$	3α-Acetoxycholanic acid methyl ester	-	Sol	Group bond study	Jones	JACS	74 (1952)	80
		700-1400	Sol	Band study, Ident	Jones	JACS	78 (1956)	1152
$C_{27}H_{44}O_4$	Anhydrohecolyl alcohol	-	Sol	Group & Band freq	Rothman	JACS	76 (1954)	527
$C_{27}H_{44}O_4$	Cholegenin	-	-	Group freq	Mazur	JCS	- (1954)	1223
$C_{27}H_{44}O_4$	25-Isocholegenin	-	-	Group & Band freq	Mazur	JCS	- (1954)	1223
$C_{27}H_{44}O_4$	Δ^4-Cholestene-6,7-dicarboxylic acid	-	-	Group freq	Gates	JOC	20 (1955)	610
$C_{27}H_{44}O_4$	3,5-Cyclocholestane-6,7-dicarboxylic acid	-	-	Group freq	Gates	JOC	20 (1955)	610
$C_{27}H_{44}O_4$	3β,12α-Dihydroxy-5α,22a-spirostane	-	S	Group freq	Elks	JCS	- (1954)	1739
$C_{27}H_{44}O_4$	Ketone 104 lactone	-	Sol	Band freq	Fieser	JACS	75 (1953)	4418

$C_{27}H_{44}O_4$	3β,12β-Dihydroxy-5α,22a-spirostane	-	S	Group freq	Elks	JCS	- (1954)	1739
$C_{27}H_{44}O_4$	Gitogenin	-	-	Spec	Krider	JACS	74 (1952)	3201
		-	Sol	Free OH band, Ident	Herran	JACS	76 (1954)	5531
		-	Sol	Band freq	Klass	JACS	77 (1955)	3829
$C_{27}H_{44}O_4$	3β-Hydroxycholestane-6,7-dicarboxylic acid-6,3-lactone	-	-	Group freq	Gates	JOC	20 (1955)	610
$C_{27}H_{44}O_4$	Methyl 3β-acetoxy-allocholanate	2.5-15μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{27}H_{44}O_4$	Rockogenin	-	-	Ident	Rothman	JACS	74 (1952)	4013
$C_{27}H_{44}O_4$	12-Epirockogenin	-	-	Ident	Hirschmann	JACS	76 (1954)	4013
$C_{27}H_{44}O_4$	22b-Spirostane-2ϵ,3β-diol	830-1500	Sol	Spec, Struct	Wall	JACS	75 (1953)	4437
$C_{27}H_{44}O_4$	22a,5α-Spirostane-2β,	-	Sol	Free OH band only	Herran	JACS	76 (1954)	5531
	3β-diol	-	Sol	Band freq	Klass	JACS	77 (1955)	3829
$C_{27}H_{44}O_4$	22a,5α-Spirostane-3β, 6β-diol	-	Sol	Ident	Romo	JACS	76 (1954)	5169
$C_{27}H_{44}O_4$	22a,5α-Spirostane-3β,11α-diol	-	Sol	Free OH indic, Ident	Sondheimer	JACS	75 (1953)	1282
$C_{27}H_{44}O_4$	5α,22a-Spirostane-3β, 11β-diol	-	S,Sol	Band freq, Ident	Dickson	JCS	- (1955)	443
$C_{27}H_{44}O_4$	22a,25a-Spirostane-2β,	-	-	Ident	Wall	JACS	75 (1953)	4437
	3β-diol	-	Sol	Ident	Djerassi	JACS	77 (1955)	4291
$C_{27}H_{44}O_5$	Digitogenin	-	Sol	Band freq	Klass	JACS	77 (1955)	3829
$C_{27}H_{44}O_5$	Neodigitogenin	-	Sol	Band freq	Klass	JACS	77 (1955)	3829
$C_{27}H_{44}O_5$	13ξ-Hydroxy-12,13-seco-5α,22a-spirostan-12-oic acid	-	Sol	Group freq, Band freq, I	Rothman	JACS	76 (1954)	527

$C_{27}H_{44}O_5$	Methyl 3α-acetoxy-11β-hydroxy cholanate	-	-	Spec, Group freq	Constantin	JACS	74 (1952)	3908
$C_{27}H_{44}O_5$	6,7-Secocoprostan-3-one-6,7-dioic acid	-	Sol	Group freq, Band freq	Fieser	JACS	75 (1953)	4386
$C_{27}H_{44}O_6$	Methyl-3α-acetoxy-9α,11β-dihydroxycholanate	-	-	Freq	Heyman	JACS	73 (1951)	5252
$C_{27}H_{44}S$	7-Dehydrocholesteryl mercaptan	670-3700	S	Spec	Bernstein	JOC	16 (1951)	685
$C_{27}H_{45}D$	3-Deuteromethyl-A-norcholest-3(5)-ene	650-4000	Sol	Group freq, I, Spec	Barton	JCS	- (1954)	2715
$C_{27}H_{45}Br$	3α-Bromocholest-5-ene	400-1400	Sol	Freq	Barton	JCS	- (1956)	331
$C_{27}H_{45}Br$	3β-Bromocholest-5-ene	400-1400	Sol	Freq	Barton	JCS	- (1956)	331
$C_{27}H_{45}BrO$	2-Bromocholestanone-3	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		1683-1783	Sol	Band study	Jones	JACS	74 (1952)	80
		-	Sol	Group freq, Band study	Jones	JACS	74 (1952)	2828
$C_{27}H_{45}BrO$	2α-Bromocholestan-3-one	-	-	Config.	Corey	JACS	75 (1953)	4832
		-	-	Config, Struct	Jones	JACS	75 (1953)	4839
		-	Sol	Group freq	Cookson	JCS	- (1954)	282
		400-4000	Sol	Config, Spec, Extinction coefficient	Cummins	JCS	- (1957)	3847
$C_{27}H_{45}BrO$	2β-Bromocholestan-3-one	-	-	Config, Struct	Jones	JACS	75 (1953)	4839
$C_{27}H_{45}BrO$	3α-Bromocholestan-2-one	-	-	Group freq	Alt	JCS	- (1954)	4284
		400-4000	Sol	Spec, Config, Extinction coefficient	Cummins	JCS	- (1957)	3847
$C_{27}H_{45}BrO$	3-Bromocholestanone-6	-	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648
$C_{27}H_{45}BrO$	4α-Bromocholestan-3-one	400-4000	Sol	Spec, Config, Substitution effect	Cummins	JCS	- (1957)	3847
$C_{27}H_{45}BrO$	4α-Bromocoprostanone	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		1673-1773	Sol	Band study	Jones	JACS	74 (1952)	80
		-	Sol	Group freq, Band study	Jones	JACS	74 (1952)	2828
		400-4000	Sol	Spec, Extinction coefficient	Cummins	JCS	- (1957)	3847

$C_{27}H_{45}BrO$	4β-Bromocoprostan-3-one	-	-	Config.	Jones	JACS	75 (1953)	4839
$C_{27}H_{45}Cl$	3β-Chloro-Δ^5-cholestene	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		400-1400	Sol	Freq	Barton	JCS	- (1956)	331
$C_{27}H_{45}Cl$	3α-Chlorocholestan-5-ene	400-1400	Sol	Freq	Barton	JCS	- (1956)	331
$C_{27}H_{45}ClO$	2-Chlorocholestan-3-one	-	Sol	Band freq	Beereboom	JACS	75 (1953)	3500
		-	S	Ident	Fonken	JACS	77 (1955)	172
$C_{27}H_{45}ClO$	2α-Chlorocholestan-3-one	400-4000	Sol	Spec, Config, Extinction coefficient	Cummins	JCS	- (1957)	3847
$C_{27}H_{45}ClO$	2β-Chlorocholestan-3-one	400-4000	Sol	Spec, Config, Extinction coefficient	Cummins	JCS	- (1957)	3847
$C_{27}H_{45}ClO$	3α-Chlorocholestan-2-one	-	-	Group freq	Alt	JCS	- (1954)	4284
		400-4000	Sol	Spec, Config, Extinction, Coefficient	Cummins	JCS	- (1957)	3847
$C_{27}H_{45}ClO$	3α-Chlorocoprostan-6-one	400-4000	Sol	Spec, Config, Extinction, Coefficient	Cummins	JCS	- (1957)	3847
$C_{27}H_{45}ClO$	3β-Chlorocoprostan-6-one	400-1400	Sol	Freq	Barton	JCS	- (1957)	331
		400-4000	Sol	Spec, Config, Extinction, Coefficient	Cummins	JCS	- (1957)	3847
$C_{27}H_{45}ClO$	5α-Chlorocholestan-6-one	400-4000	Sol	Spec, Config, Extinction, Coefficient	Cummins	JCS	- (1957)	3847
$C_{27}H_{45}IO$	2-Iodocholestanone-3	1674-1774	Sol	Band study	Jones	JACS	74 (1952)	80
		-	Sol	Group freq, Group band	Jones	JACS	74 (1952)	2828
		-	Sol	Ident	Beereboom	JACS	75 (1953)	3500
$C_{27}H_{45}IO$	2α-Iodocholestan-3-one	400-4000	Sol	Spec, Config, Extinction, coefficient	Cummins	JCS	- (1957)	3847
$C_{27}H_{45}IO$	3α-Iodocholestan-2-one	400-4000	Sol	Spec, Config, Extinction, coefficient	Cummins	JCS	- (1957)	3847
$C_{27}H_{45}N$	Solanidane	-	-	Ident	Weisenborn	JACS	75 (1953)	259
$C_{27}H_{45}NO$	Solanidane-3β-ol	-	-	Ident	Weisenborn	JACS	75 (1953)	259

$C_{27}H_{45}NO_2$	Tomatidine	2-15 μ	S,Sol	Spec, Struct	Fontaine	JACS	73 (1951)	878
$C_{27}H_{45}NO_3$	Ketone 104 oxime	-	Sol	Band freq	Fieser	JACS	75 (1953)	4418
$C_{27}H_{45}NO_5$	22,26-Iminojervane-3β, 16,17,23-tetrol-11-one	-	S	Band freq	Winstersteiner	JACS	76 (1954)	5609
$C_{27}H_{45}NO_8$	Cevinilol	-	Sol	Group study	Kupchan	JACS	77 (1955)	683
$C_{27}H_{45}NO_8$	Dihydrocevine isoorthoacetate	-	Sol	Group study	Barton	JCS	- (1954)	3950
$C_{27}H_{46}$	Δ^1-Cholestene	650-3100	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{27}H_{46}$	Δ^2-Cholestene	1580-3100	Sol	Group study, I	Jones	JACS	72 (1950)	86
		650-3100	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{27}H_{46}$	Δ^3-Cholestene	650-3100	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{27}H_{46}$	Δ^4-Cholestene	700-1000	Sol	Spec, Group freq	Bladon	JCS	- (1951)	2402
$C_{27}H_{46}$	Δ^5-Cholestene	1650-1800	Sol	Group study	Jones	JACS	72 (1950)	956
		700-1000	Sol	Spec, Band freq, Group freq	Bladon	JCS	- (1951)	2402
		2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		-	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648
		-	-	Band freq, Struct	Daus	JACS	75 (1953)	3840
$C_{27}H_{46}$	$\Delta^{8:9}$-Cholestene	700-1000	Sol	Spec, Band freq, Group freq	Bladon	JCS	- (1951)	2402
$C_{27}H_{46}$	3:5-Cyclocholestane	9-11 μ	Sol	Spec, Band freq	Barton	JCS	- (1951)	1444
		650-4000	Sol	Group freq, I	Barton	JCS	- (1954)	2715
		3-14 μ	Sol	Spec, Band study	Cole	JCS	- (1954)	3807
$C_{27}H_{46}$	3-Methyl-A-norcholestene -3(5)	650-4000	Sol	Group freq, I	Barton	JCS	- (1954)	2715

$C_{27}H_{46}BrCl$	2α-Bromo-3β-chloro-cholestane	400–1400	Sol	Freq	Barton	JCS	-	(1956)	331
$C_{27}H_{46}BrCl$	2β-Bromo-3α-chloro-cholestane	400–1400	Sol	Freq	Barton	JCS	-	(1956)	331
$C_{27}H_{46}BrCl$	3α-Bromo-2β-chloro-cholestane	400–1400	Sol	Freq	Barton	JCS	-	(1956)	331
$C_{27}H_{46}BrCl$	3β-Bromo-2α-chloro-cholestane	490–1400	Sol	Freq	Barton	JCS	-	(1956)	331
$C_{27}H_{46}Br_2$	2α:3β-Dibromocholestane	400–1400	Sol	Freq	Barton	JCS	-	(1956)	331
$C_{27}H_{46}Br_2$	2β:3α-Dibromocholestane	400–1400	Sol	Freq	Barton	JCS	-	(1956)	331
$C_{27}H_{46}Br_2$	3α:4β-Dibromocholestane	400–1400	Sol	Freq	Barton	JCS	-	(1956)	331
$C_{27}H_{46}Br_2$	3β:4α-Dibromocholestane	400–1400	Sol	Freq	Barton	JCS	-	(1956)	331
$C_{27}H_{46}Br_2$	5β:6α-Dibromocholestane	400–1400	Sol	Freq	Barton	JCS	-	(1956)	331
$C_{27}H_{46}Cl_2$	2α:3β-Dichlorocholestane	400–1400	Sol	Freq	Barton	JCS	-	(1956)	331
$C_{27}H_{46}Cl_2$	2β:3α-Dichlorocholestane	400–1400	Sol	Freq	Barton	JCS	-	(1956)	331
$C_{27}H_{46}Cl_2$	5α:6β-Dichlorocholestane	400–1400	Sol	Freq	Barton	JCS	-	(1956)	331
$C_{27}H_{46}Cl_2$	5α:6α-Dichlorocholestane-3β-ol	400–1400	Sol	Freq	Barton	JCS	-	(1956)	331
$C_{27}H_{46}Cl_2O$	5α:6β-Dichlorocholestane-3β-ol	400–1400	Sol	Freq	Barton	JCS	-	(1956)	331
$C_{27}H_{46}O$	Cholestan-1-one	3-15 μ	Sol	Spec, Freq table	Striebel	HCA	37	(1954)	1094
$C_{27}H_{46}O$	Cholestan-2-one	-	-	Group freq	Alt	JCS	-	(1954)	4284
		400–4000	Sol	Spec, Substitution effect	Cummins	JCS	-	(1957)	3847
$C_{27}H_{46}O$	Cholestanone-3	-	-	Assign	Jones	JACS	70	(1948)	2024
		700–1000	Sol	Spec, Band freq, Group freq	Bladon	JCS	-	(1951)	2402

		1658-1768	Sol	Band study	Jones	JACS	74 (1952)	80
		-	Sol	Group freq, Band study	Jones	JACS	74 (1952)	2828
		1350-1800	Sol	Spec, Group freq	Jones	JACS	74 (1952)	5648
		1350-1500	Sol	Spec, Freq	Jones	JACS	74 (1952)	5662
		-	Sol	Group freq, Ident	Beereboom	JACS	75 (1953)	1718
		-	-	Ident	Corey	JACS	75 (1953)	4832
		-	-	Absorption study	Dauben	JACS	75 (1953)	5340
		757-1309	Sol	Table	Jones	JACS	77 (1955)	651
		950-1350	S,Sol	Band study	Rosenkrantz	AC	28 (1956)	31
		400-4000	Sol	-halogen substitution effect, Spec	Cummins	JCS	- (1957)	3847
$C_{27}H_{46}O$	Cholestanone-4	-	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648
$C_{27}H_{46}O$	Cholestanone-6	-	-	Band freq	Reich	JOC	16 (1951)	1753
		-	Sol	Band freq	Fieser	JACS	76 (1954)	1945
$C_{27}H_{46}O$	Cholestanone-7	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		1660-1760	Sol	Band study	Jones	JACS	74 (1952)	80
		1350-1750	Sol	Table, Group freq	Jones	JACS	74 (1952)	5648
		1300-1500	Sol	Spec, Table, Freq	Jones	JACS	74 (1952)	5662
$C_{27}H_{46}O$	Δ^{1}-Cholestenol-3β	650-3100	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{27}H_{46}O$	Δ^{4}-Cholestenol-2α	-	Sol	Band freq	Fieser	JACS	75 (1953)	4716
$C_{27}H_{46}O$	Δ^{4}-Cholesten-6α-ol	-	-	Ident, Anal	Becker	JOC	20 (1955)	353
$C_{27}H_{46}O$	Δ^{4}-Cholesten-6β-ol	-	-	Struct	Becker	JOC	20 (1955)	353
$C_{27}H_{46}O$	Δ^{6}-Cholestenol-3β	2-16 μ	S	Spec, Group freq	Johnson	JACS	75 (1953)	52
		650-3100	Sol	Band freq	Henbest	JCS	- (1954)	800
		-	S,Sol	Group freq	James	JCS	- (1955)	1370
$C_{27}H_{46}O$	Δ^{7}-Cholestenol-3β	1580-3100	Sol	Group study, I	Jones	JACS	72 (1950)	86
		-	S	Band freq	Idler	JACS	75 (1953)	1712
		2-16 μ	S	Spec, Group freq	Johnson	JACS	75 (1953)	52

$C_{27}H_{46}O$	$\Delta^{8:9}$-Cholestenol-3β	700-1000	Sol	Spec, Band freq, Group freq	Bladon	JCS	-	(1951)	2402
$C_{27}H_{46}O$	$\Delta^{8:14}$-Cholestenol-3β	2700-3900	Sol	Spec, Assign	Jones	JACS	70	(1948)	2024
		1580-3100	Sol	Group study, I	Jones	JACS	72	(1950)	86
		-	Sol	Group freq, Stereo study	Cole	JACS	74	(1952)	5571
		-	S	Band freq	Idler	JACS	75	(1953)	1712
		2-16μ	S	Spec, Group freq	Johnson	JACS	75	(1953)	52
$C_{27}H_{46}O$	Δ^{14}-Cholestenol-3β	2700-3900	Sol	Spec, Assign	Jones	JACS	70	(1948)	2024
		1580-3100	Sol	Spec, Group study, I	Jones	JACS	72	(1950)	86
		-	Sol	Group freq, Stereo study	Cole	JACS	74	(1952)	5571
		2-16μ	S	Spec, Group freq	Johnson	JACS	75	(1953)	52
$C_{27}H_{46}O$	Cholesterol	2-16μ	Sol	Spec	Baird	JOSA	37	(1947)	754
		1.05μ	-	Longitudinal dispersion	Lepeschkin	JPC	51	(1947)	875
		-	-	Assign	Jones	JACS	70	(1948)	2024
		6-15μ	S	Temp effect on spec	Hainer	PR	75	(1949)	1320
		1450-3700	S	Spec, Struct	Mann	JCS	-	(1949)	2816
		700-1400	S	Spec	Jones	CIC	2	(1950)	94
		1580-1400	Sol	Group study, I	Jones	JACS	72	(1950)	86
		2-15μ	Sol	Spec, Struct	Fontain	JACS	73	(1951)	878
		700-1000	Sol	Spec, Band freq, Group freq	Bladon	JCS	-	(1951)	2402
		800-1700	Sol	Spec	Blout	JOSA	42	(1952)	966
		-	Sol	Group freq, Stereo study	Cole	JACS	74	(1952)	5571
		2.5-15μ	Sol	Band freq	Hirschmann	JACS	74	(1952)	5357
		1350-1500	Sol	Spec, Table, Group freq	Jones	JACS	74	(1952)	5648
		2.5-11μ	Sol	Spec	Coates	JOSA	43	(1953)	984
		-	-	Purity	Fieser	JACS	75	(1953)	5395
		-	S	Band freq, Ident	Idler	JACS	75	(1953)	1712
		2-16μ	S	Spec, Group freq	Johnson	JACS	75	(1953)	52
		0.9-3μ	Sol	Spec	Holman	AC	28	(1956)	1533
		650-1750	S	Spec	Beher	AC	29	(1957)	1147
		400-4000	Sol	Spec, hologen substitution	Cummins	JCS	-	(1957)	3847
		-	-	Group study	Henbest	JCS	-	(1957)	1462
		-	-	IR discussed	Morcillo	ARS	53B	(1957)	145

		650–1350	Sol	Generalisations, Discussions	Jones	JACS	80 (1958)	6121
		2.5–3.5 μ	Sol	Group study	Kabasakalian	AC	31 (1959)	375
		3550–3650	Sol	Intamolecular interaction	Oki	BCSJ	32 (1959)	306
$C_{27}H_{46}O$	Epicholesterol	2.5–15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		–	Sol	Band freq	Fieser	JACS	75 (1953)	4377
		3550–3650	Sol	Intramolecular interaction	Oki	BCSJ	32 (1959)	306
$C_{27}H_{46}O$	Δ^4-Cholesterol-3β	2.5–15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{27}H_{46}O$	Coprostanone-3	–	–	Assign	Jones	JACS	70 (1948)	2024
		–	Sol	Group freq, Group band	Jones	JACS	74 (1952)	2828
		–	Sol	Table, Group freq in steroids	Jones	JACS	74 (1952)	5648
		–	Sol	Group freq	Rubin	JACS	75 (1953)	3513
		–	Sol	Table	Jones	JACS	77 (1955)	651
		950–1350	S,Sol	Struct	Rosenkrantz	AC	28 (1956)	31
		400–4000	Sol	Spec, Config, Ext. coeff	Cummins	JCS	– (1957)	3847
$C_{27}H_{46}O$	Coprostan-6-one	400–4000	Sol	α-halogen substitution effect, Spec	Cummins	JCS	– (1957)	3847
$C_{27}H_{46}O$	2α:3α-Epoxycholestane	2800–3100	Sol	Band study	Henbest	JCS	– (1957)	1459
$C_{27}H_{46}O$	5α:6α-Epoxycholestane	2800–3100	Sol	Band study	Henbest	JCS	– (1957)	1459
$C_{27}H_{46}O$	5β:6β-Epoxycholestane	2800–3100	Sol	Band study	Henbest	JCS	– (1957)	1459
$C_{27}H_{46}O$	2β,3β-Oxidocholestane	–	–	Indic no C=o or OH	Beereboom	JACS	75 (1953)	3500
		–	–	Indic no C=o or OH	Corey	JACS	75 (1953)	4832
		–	–	Indic no C=o or OH	Fieser	JACS	75 (1953)	4837
$C_{27}H_{46}O_2$	Cholestanol-3β-one-6	–	–	Assign	Jones	JACS	70 (1948)	2024
		–	Sol	Group freq	Jones	JACS	72 (1950)	956
		–	Sol	Group freq, Stereo study	Cole	JACS	74 (1952)	5571
		–	S,Sol	Group freq	Turner	JACS	75 (1953)	4362
		–	Sol	Band freq	Anagnostopoluos	JACS	76 (1954)	532
$C_{27}H_{46}O_2$	Cholestan-3β-ol-7-one	–	Sol	Band freq	Anagnostopoluos	JACS	76 (1954)	532

$C_{27}H_{46}O_2$	Cholestan-5α-ol-2-one	-	Sol	Band freq	Conca	JOC	18 (1953)	1104
$C_{27}H_{46}O_2$	Cholestanol-5α-6-one	-	-	Band freq	Reich	JOC	16 (1951)	1753
$C_{27}H_{46}O_2$	Δ^5-Cholestene-3β,4α-diol	-	Sol	Band freq	Fieser	JACS	76 (1954)	1728
$C_{27}H_{46}O_2$	$\Delta^{8(14)}$-Cholestene-3β,7α-diol	-	S	Band freq	Fieser	JACS	75 (1953)	4404
$C_{27}H_{46}O_2$	Coprostan-27-oic acid	1500-3700	Sol	Freq, Iso	Cole	JCS	- (1959)	2005
$C_{27}H_{46}O_2$	Desoxo ketone 104	-	Sol	Band freq	Fieser	JACS	75 (1953)	4418
$C_{27}H_{46}O_2$	3β,26-Dihydroxy-5α,22a-furostane	-	S	Group freq	Elks	JCS	- (1954)	1739
$C_{27}H_{46}O_2$	16,22-Epoxycoprostan-3β-ol	-	-	Group freq	Wall	JACS	77 (1955)	1230
$C_{27}H_{46}O_2$	3β-Hydroxy-6,7β-oxidocholestane	-	-	no indic of C=o or OH	Corey	JACS	76 (1954)	175
$C_{27}H_{46}O_2$	7-Ketocholestanol	- -	- S,Sol	Spec Group freq	Fresir Turner	JACS JACS	74 (1952) 75 (1953)	3309 4362
$C_{27}H_{46}O_2$	Δ^8-5-Methyl-19-nor-cholestenediol-3β,6	-	Sol	Table, Group freq in steroids	Jones	JACS	74 (1952)	5648
$C_{27}H_{46}O_2$	4,5-Secocholestan-3,5-dione	-	Sol	Band freq, Struct	Heard	JACS	73 (1951)	4036
$C_{27}H_{46}O_2$	4,5-Seco-3,5-oxido-cholestan-3-ol	-	-	Band freq, Struct	Heard	JACS	73 (1951)	4036
$C_{27}H_{46}O_2$	δ-Tocopherol	6-10.5 μ	-	Spec	Stern	JACS	69 (1947)	869
$C_{27}H_{46}O_3$	Cholestane-3β,5α-diol-6-one	-	-	Band freq	Reich	JOC	16 (1951)	1753
$C_{27}H_{46}O_3$	Dihydrosarsasapogenin	800-1350 900-1300	S,Sol Sol	Spec Spec	Scheer Wall	JACS JACS	77 (1955) 77 (1955)	641 1230

$C_{27}H_{46}O_3$	Dihydro-20-iso-sarsasapogenin	900-1300	Sol	Spec	Wall	JACS	77 (1955)	1230
$C_{27}H_{46}O_3$	Dihydropseudo-sarsasapogenin	-	Sol	Free OH freq	Scheer	JACS	77 (1955)	641
$C_{27}H_{46}O_3$	Dihydrosmilagenin	800-1350	S,Sol	Free OH freq, Spec	Scheer	JACS	77 (1955)	641
		-	-	Compar	Wall	JACS	77 (1955)	1230
		-	Sol	Ident	Wall	JACS	77 (1955)	3086
$C_{27}H_{46}O_3$	Dihydropseudo-smilagenin	-	Sol	Free OH freq	Scheer	JACS	77 (1955)	641
$C_{27}H_{46}O_3$	8α,14α-Oxidocholestane-3β,17α-diol	-	Sol	Band freq	Fieser	JACS	75 (1953)	4719
$C_{27}H_{46}O_4$	2,3-Seco-5α-Cholestane-2,3-dicarboxylic acid	-	-	Struct	Casu	GCI	90 (1960)	1147
$C_{27}H_{46}O_4$	2,3-Seco-5β-cholestane 2,3-dicarboxylic acid	-	-	Struct	Casu	GCI	90 (1960)	1147
$C_{27}H_{46}O_5$	12,13-Seco-5α,22a-spirostan-3β,12,13ξ-triol	-	Sol	Band & Group freq	Rothman	JACS	76 (1954)	527
$C_{27}H_{46}O_8$	Glyceryl triacetyl ricinoleate	2-15 μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{27}H_{46}S$	Cholesterylmercaptan	670-3700	S	Spec	Bernstein	JOC	16 (1951)	685
$C_{27}H_{47}DO$	Cholestanol-3-d_1	-	-	Freq	Dauben	JACS	75 (1953)	1718
$C_{27}H_{47}DO$	Epicholestanol-3-d_1	-	-	Freq	Dauben	JACS	75 (1953)	1718
$C_{27}H_{47}Br$	3α-Bromocholestane	400-1400	Sol	Freq	Barton	JCS	- (1956)	331
$C_{27}H_{47}Br$	3β-Bromocholestane	400-1400	Sol	Freq	Barton	JCS	- (1956)	331
$C_{27}H_{47}Br$	7β-Bromocholestane	400-1400	Sol	Freq	Barton	JCS	- (1956)	331
$C_{27}H_{47}Br$	3α-Bromocoprostane	400-1400	Sol	Freq	Barton	JCS	- (1956)	331

$C_{27}H_{47}Br$	3β-Bromocoprostane	400–1400	Sol	Freq	Barton	JCS	– (1956)	331
$C_{27}H_{47}BrO$	2α-Bromocholestan-3α-ol	–	–	Band freq	Fieser	JACS	75 (1953)	4837
		400–1400	Sol	Freq	Barton	JCS	– (1956)	331
$C_{27}H_{47}BrO$	2α-Bromocholestan-3β-ol	–	–	Group freq	Corey	JACS	75 (1953)	4832
		–	–	Band freq	Fieser	JACS	75 (1953)	4837
		400–1400	Sol	Freq	Barton	JCS	– (1956)	331
$C_{27}H_{47}BrO$	2β-Bromocholestan-3α-ol	400–1400	Sol	Freq	Barton	JCS	– (1956)	331
$C_{27}H_{47}Cl$	3α-Chlorocholestane	400–1400	Sol	Freq, Spec	Barton	JCS	– (1956)	331
$C_{27}H_{47}Cl$	3β-Chlorocholestane	2.5–15μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	535
		400–1400	Sol	Freq, Spec	Barton	JCS	– (1956)	331
$C_{27}H_{47}Cl$	7α(7β)-Chlorocholestane	400–1400	Sol	Freq	Barton	JCS	– (1956)	331
$C_{27}H_{47}Cl$	3α-Chlorocoprostane	400–1400	Sol	Freq, Spec	Barton	JCS	– (1956)	331
$C_{27}H_{47}Cl$	3β-Chlorocoprostane	400–1400	Sol	Freq, Spec	Barton	JCS	– (1956)	331
$C_{27}H_{47}ClO$	2α-Chlorocholestan-3β-ol	400–1400	Sol	Freq	Barton	JCS	– (1956)	331
$C_{27}H_{47}ClO$	2β-Chlorocholestan-3α-ol	400–1400	Sol	Freq	Barton	JCS	– (1956)	331
$C_{27}H_{47}ClO$	3α-Chlorocholestan-2β-ol	400–1400	Sol	Freq	Barton	JCS	– (1956)	331
$C_{27}H_{47}ClO$	3β-Chlorocoprostan-6β-ol	400–1400	Sol	Freq	Barton	JCS	– (1956)	331
$C_{27}H_{47}ClO$	6β-Chlorocholestan-3β:5α-diol	400–1400	Sol	Freq	Barton	JCS	– (1956)	331
$C_{27}H_{47}Cl_3N_{10}O_{12}$	Streptohydrazid trihydrochloride	–	–	Band freq	Pennington	JACS	75 (1953)	2261
$C_{27}H_{47}NO$	Cholestanone-6-oxime	–	Sol	Band freq	Fieser	JACS	76 (1954)	1945
$C_{27}H_{48}$	Cholestane	700–1000	Sol	Spec, Band freq	Bladon	JCS	– (1951)	2402
		1350–1500	Sol	Spec, Group freq in steroids	Jones	JACS	75 (1952)	5648

		-	-	Struct	Daus	JACS	75 (1953)	3840
		-	Sol	Band freq, I	Henbest	JCS	- (1954)	800
		-	-	Ident	Scheer	JACS	77 (1955)	1820
		950-1350	S,Sol	Band study	Rosenkrantz	AC	28 (1956)	31
$C_{27}H_{48}$	Coprostane	-	-	Ident	Scheer	JACS	77 (1955)	1820
		2700-3100	Sol	Spec, Struct, Absorp.	Smith	AC	31 (1959)	1539
$C_{27}H_{48}$	11-Phenylheneicosane	2-15 μ	L	Spec, Struct	Hawkes	SA	16 (1960)	633
$C_{27}H_{48}$	Cholestanol	2750-3100	Sol	Spec, Struct, Absorp	Smith	AC	31 (1959)	1539
$C_{27}H_{48}O$	Cholestanol-2α	-	-	Group freq	Barton	JCS	- (1953)	1027
		-	Sol	Band freq	Fieser	JACS	75 (1953)	4716
$C_{27}H_{48}O$	Cholestanol-2β	-	-	Group freq	Barton	JCS	- (1953)	1027
		-	-	Ident	Corey	JACS	75 (1953)	4832
$C_{27}H_{48}O$	Cholestanol-3	700-1000	Sol	Spec, Band freq, Group freq	Bladon	JCS	- (1951)	2402
		2-12 μ	Sol	Spec, Ident	Woodward	JACS	74 (1952)	4223
$C_{27}H_{48}O$	Cholestanol-3α	875-1185	Sol	Spec	Lieberman	JACS	70 (1948)	1427
		-	Sol	Group freq, Stereo study	Cole	JACS	74 (1952)	5571
		-	-	Group freq	Barton	JCS	- (1953)	1027
		-	Sol	Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		650-1350	Sol	Discussion, Generalisations	Jones	JACS	80 (1958)	6121
$C_{27}H_{48}O$	Cholestanol-3β	-	Sol	Assign	Jones	JACS	70 (1948)	2024
		875-1185	Sol	Spec	Lieberman	JACS	70 (1948)	1427
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Group freq, Stereo study	Cole	JACS	74 (1952)	5571
		-	-	Freq	Barton	JCS	- (1953)	1027
		-	-	Ident	Corey	JACS	75 (1953)	6234
		2-16 μ	S	Spec, Group freq	Johnson	JACS	75 (1953)	52
		2.5-13 μ	Sol	Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
		-	Sol	Band freq, I	Henbest	JCS	- (1954)	800
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237

		650–1750	S	Spec, Ident	Beher	AC	29 (1957)	1147
		400–4000	Sol	Spec, Config, Extinction coeff.	Cummins	JCS	– (1957)	3847
		650–1350	Sol	Discussion, Generalisation	Jones	JACS	80 (1958)	6121
$C_{27}H_{48}O$	Cholestanol-4α	–	–	Group freq	Barton	JCS	– (1953)	1027
$C_{27}H_{48}O$	Cholestanol-4β	–	–	Freq	Barton	JCS	– (1953)	1027
$C_{27}H_{48}O$	5α-Cholestanol	–	Sol	Group freq	Conca	JOC	18 (1953)	1104
$C_{27}H_{48}O$	Coprostanol-3α	–	Sol	Group freq, Stereo study	Cole	JACS	74 (1952)	5571
		2.5–13 μ	Sol	Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
		770–3700	Sol	Characteristic freq, I	Rosenkrantz	JACS	77 (1955)	2237
		650–1350	Sol	Discussion, Generalisation	Jones	JACS	80 (1958)	6121
$C_{27}H_{48}O$	Coprostanol-3β	–	Sol	Group freq, Stereo study	Cole	JACS	74 (1952)	5571
		770–3700	Sol	Characteristic freq, I	Rosenkrantz	JACS	77 (1955)	2237
		650–1350	Sol	Discussion, Generalisation	Jones	JACS	80 (1958)	6121
$C_{27}H_{48}O$	2-Hydroxymethyl-A-norcholestane	–	Sol	Group freq	Smith	JACS	76 (1954)	6119
$C_{27}H_{48}O_2$	Cholestanediol-3,4	–	–	Assign	Jones	JACS	70 (1948)	2024
$C_{27}H_{48}O_2$	Cholestane-3β,6β-diol	–	–	Ident	Corey	JACS	76 (1954)	175
$C_{27}H_{48}O_2$	Cholestane-5α,6α-diol	–	–	Ident	Becker	JOC	20 (1955)	353
$C_{27}H_{48}O_2$	Cholestanediol-5α,6β	–	–	Band freq	Reich	JOC	16 (1951)	1753
$C_{27}H_{48}O_2$	2α,5α-Dihydroxy-cholestane	–	Sol	Group freq, Ident	Conca	JOC	18 (1953)	1104
$C_{27}H_{48}O_3$	Tetrahydrosarsa-sapogenin	–	–	Ident	Scheer	JACS	77 (1955)	1820
$C_{27}H_{50}$	4-n-Pentadecyldeca-hydroacenaphthene	–	Sol	Struct, Group anal	Francis	AC	25 (1953)	1466

$C_{27}H_{52}O_2$	2,4-Dimethyl-2-pentacosenoic acid	-	Sol	Band freq	Cason	JOC	19 (1954)	1836
$C_{27}H_{52}O_2$	2-Methyl-2-hexacosenoic acid	-	Sol	Band freq	Cason	JOC	19 (1954)	1836
$C_{27}H_{52}O_2$	C_{27}-Phthienoic acid	5.6-16 μ	Sol	Spec, Struct	Freeman	JACS	75 (1953)	1859
		-	Sol	Band freq, Struct	Cason	JOC	19 (1954)	1836
$C_{27}H_{56}$	n-Heptacosane	750-1150	S	Struct, Band study	Snyder	JCP	27 (1957)	969
		700-1500	S	Freq, Assign	Snyder	JMS	4 (1960)	411
$C_{27}H_{56}Si$	Cyclopentamethylenediundecylsilane	2-35 μ	L	Assign	Oshesky	JACS	79 (1957)	2057

C_{28} COMPOUNDS

$C_{28}H_{10}Br_2N_2O_4$	3,3'-Dibromo-1,2:2',1'-anthraquinoneazine	3-15 μ	S	Spec, Struct	Wyman	JACS	78 (1956)	4599
$C_{28}H_{10}Cl_2N_2O_4$	3,3-Dichloro-1,2:2',1'-anthraquinoneazine	3-15 μ	S	Spec, Struct	Wyman	JACS	78 (1956)	4599
$C_{28}H_{12}Br_2N_2O_4$	3,3'-Dibromoindanthrone	3-8.5 μ	S	Struct	Wyman	JACS	78 (1956)	4599
$C_{28}H_{12}Cl_2N_2O_4$	3,3'-Dichloroindanthrone	3-8.5 μ	S	Struct	Wyman	JACS	78 (1956)	4599
$C_{28}H_{12}N_2O_2$	Flavanthrone	650-9000	S	Spec, Group freq	Durie	AJC	10 (1957)	429
$C_{28}H_{12}N_2O_4$	Anthraquinoneazine	5.9-8.5 μ	S	Spec, Struct, Band freq	Wyman	JACS	78 (1956)	4599
$C_{28}H_{12}N_2O_4$	1,2:2',1'-Anthraquinoneazine	3-15 μ	S	Spec, Struct	Wyman	JACS	78 (1956)	4599
$C_{28}H_{12}O_2$	Mesonaphthadianthrone	-	S	Band freq, Group freq	Hadzi	JACS	73 (1951)	5460
$C_{28}H_{14}N_2O_4$	Indanthrone	3-15 μ	S	Spec, Struct	Wyman	JACS	78 (1956)	4599

$C_{28}H_{14}O_2$	Helianthrone	-	S	Band freq, Group freq	Hadzi	JACS	73 (1951)	5460
$C_{28}H_{14}O_4$	4,4'-Dihydroxyhelianthrone	-	S	Group freq	Brown	JCS	- (1955)	744
$C_{28}H_{16}O_8$	Tetrasalicylide	1700-1800	S,Sol	Group freq	Short	JCS	- (1952)	206
$C_{28}H_{17}N_3O_4$	4',4"-Dihydrodiquinolino (2':3'-1:2)(3":2"-5:6)-isojuline-4',4"-dicarboxylic acid	-	-	Band freq	Braunholtz	JCS	- (1955)	393
$C_{28}H_{17}N_3O_4$	Diquinolino(2':3'-1:2) (3":2"-5:6)juline-4',4"-dicarboxylic acid	-	-	Band freq, Group freq	Braunholtz	JCS	- (1955)	393
$C_{28}H_{18}N_2O_4$	1,4-Bisbenzamido-anthraquinone	1633-3130	-	Group freq	Flett	JCS	- (1948)	1441
$C_{28}H_{18}N_2O_4$	Bis-(p-phenylbenzoyl) furoxan	-	S,Sol	Group freq, I	Boyer	JACS	77 (1955)	4238
$C_{28}H_{18}N_4O_2$	Bis-(p-phenylbenzoyl) furoxan azine	-	S,Sol	Group freq, I	Boyer	JACS	77 (1955)	4238
$C_{28}H_{18}O_2$	Anthracene photozide	850-1300	-	Group freq	Nikitin	OS	4 (1958)	702
$C_{28}H_{18}O_8$	5,5'-Di-C-benzylellagic acid	5.0-6.15 μ	S	Struct	Stitt	JACS	81 (1959)	4615
$C_{28}H_{20}N_2O_3$	1,4-Bisbenzamidoanthrone	1635-3200	S	Group freq	Flett	JCS	- (1948)	1441
$C_{28}H_{20}N_2O_4$	1,4-Bisbenzamido-oxanthrone	1637-3250	S	Group freq	Flett	JCS	- (1948)	1441
$C_{28}H_{20}O_2$	cis-Diphenyldibenzoyl-ethylene	6.03-14.60 μ	S	Table, Spec	Kuhn	JACS	72 (1950)	5058
		-	Sol	Band freq, Ident	Yates	JACS	76 (1954)	5110
$C_{28}H_{20}O_2$	trans-Diphenyldibenzoyl ethylene	6.03-14.78 μ	S	Table, Spec	Kuhn	JACS	72 (1950)	5058
$C_{28}H_{20}O_2$	Diphenyl ketene(dimer)	600-1800	S,Sol	Spec	Armstrong	AJC	10 (1957)	34

$C_{28}H_{20}O_2$	4-Hydroxy-2,2,3,4-tetraphenyl-3-butenoic acid lactone	-	Sol	Group freq	Yates	JACS	76 (1954)	5110
$C_{28}H_{20}O_4$	Benzilide	4-8 μ	Sol	Spec, Struct	Wasserman	JACS	72 (1950)	5787
$C_{28}H_{20}O_8$	3,4,9,10-Tetraacetoxyperylene	746-1764	S	Table	Calderbank	JCS	- (1954)	1285
$C_{28}H_{20}O_8Si$	Silicon tetrabenzoate	2-15 μ	Sol	Spec, Group freq	Lanning	JOC	19 (1954)	1171
$C_{28}H_{20}O_{12}B_2$	4,9-Dihydroxyperylene-3,10-quinone bisboroacetate	699-1715	S	Table	Calderbank	JCS	- (1954)	1285
$C_{28}H_{21}N$	Tetraphenylpyrrole	6600-6900	Sol	Spec, Band freq	Wulf	JACS	57 (1935)	1464
$C_{28}H_{22}BrN_5$	2-Bromomethyl-4,6-bis-(diphenylamino)-S-triazine	2-15 μ	Sol	Assign	Reimschuessel	JACS	82 (1960)	3756
$C_{28}H_{22}N_2O_5S_2$	2-(p-Hydroxyphenyl)-1,4-naphthalene dibenzene sulfonamide	-	-	Group study	Adams	JACS	74 (1952)	5560
$C_{28}H_{22}N_2O_6S_3$	2-Benzenesulfonyl-1,4-naphthalene dibenzenesulfonamide	-	-	Group study	Adams	JACS	74 (1952)	5560
$C_{28}H_{22}O$	Benzhydryl p-phenylstyryl ketone	-	-	Band freq	Marvel	JOC	16 (1951)	741
$C_{28}H_{22}O_2$	2-Benzylidene-5-methoxy-5-(p-biphenyl)-2,5-dihydro-3,4-benzisofuran	1050-1210	Sol	Spec, Band freq	Bergmann	JOC	15 (1950)	1023
$C_{28}H_{22}O_3$	Benzoin diphenyl acetate	-	S	Group freq	Curtin	JOC	19 (1954)	820
$C_{28}H_{22}O_3$	Didesyl ether	700-4000	S	Spec, Struct	Curtin	JOC	19 (1954)	820
$C_{28}H_{22}O_3$	6,12-Diphenyl-2,8-dimethyl-6,12-epoxy-6H,12H-dibenzo [b,f] [1,5] dioxocin	-	S	Band freq	Newman	JOC	19 (1954)	985

$C_{28}H_{22}O_3$	2,5-Oxido-2,3,5,6-tetraphenylioxane	700–4000	Sol	Spec, Struct	Curtin	JOC	19 (1954)	820
$C_{28}H_{22}O_5$	Di-o-carboxybenzhydryl ether	600–4000	S	Spec	Curtin	JOC	19 (1954)	352
$C_{28}H_{23}NO_6$	l-Rhizocarpic acid	650–3800	S,Sol	Spec	Frank	JACS	72 (1950)	4454
$C_{28}H_{23}N_3O_4S_2$	2-(N-Anilino)-1,4-naphthalene dibenzenesulfonamide	-	-	Group freq, Struct	Adams	JACS	75 (1953)	4642
$C_{28}H_{23}N_5$	2-Methyl-4,6-bis-(diphenylamino)-S-triazine	2–15 μ	Sol	Assign	Reimschuessel	JACS	82 (1960)	7356
$C_{28}H_{24}$	Cyclooctacosa-1,3,8,10,15,17,22,24-octayne	3–15 μ	S	Spec	Wolovsky	JACS	81 (1959)	4600
$C_{28}H_{24}$	2,2'-Dibenzylstilbene	10–14 μ	Sol	Group freq	Bergmann	JACS	75 (1953)	4281
$C_{28}H_{24}N_2O_6S_2$	1-Acetoxy-1,4,4a,9a-tetra-hydro-9,10-anthraquinone dibenzenesulfonimide	-	-	Group freq	Adams	JACS	74 (1952)	2593
$C_{28}H_{24}N_2O_7$	Usnic acid anhydrophenylhydrazone diacetate	-	Sol	Band freq	Barton	JCS	- (1953)	603
$C_{28}H_{24}N_2O_9S$	Benzenesulfonylapoterramycinonitrile	-	S	Band freq	Hochstein	JACS	75 (1953)	4455
$C_{28}H_{24}N_4$	6-Benzeneazo-1,3,6-triphenyl-1,4,5,6-tetrahydropyridazine	770–5000	S	Spec	Curtin	JACS	72 (1950)	5238
$C_{28}H_{24}O_2$	α-Methoxy-sym-tetraphenylacetone	-	S	Group freq	Dean	JACS	76 (1954)	4988
$C_{28}H_{24}O_2$	1-Methyl-2,2,4,4-tetraphenyloxetanol	-	S,Sol	Group freq	Hoey	JACS	77 (1955)	391
$C_{28}H_{24}O_2$	cis-1,2,3,4-Tetraphenyl-2-butene-1,4-diol	-	-	Group freq	Lutz	JOC	20 (1955)	218

$C_{28}H_{24}O_2$	trans-1,2,3,4-Tetraphenyl -2-butene-1,4-diol(low m.p. 185°)	-	-	Band freq	Lutz	JOC	20 (1955)	218
$C_{28}H_{24}O_2$	trans-1,2,3,4-Tetraphenyl -2-butene-1,4-diol(high m.p. 291-293°)	-	S	Band freq	Lutz	JOC	20 (1955)	218
$C_{28}H_{26}N_2O_4S_2$	1,4-Dihydro-2,3-dimethyl -9,10-anthracene dibenzene sulfonamide	-	-	Group freq	Adams	JACS	74 (1952)	2593
$C_{28}H_{26}N_2O_4S_2$	1,4,4a,9a-Tetrahydro-2,3-dimethyl-9,10-anthraquinone dibenzene sulfonimide	-	-	Group freq	Adams	JACS	74 (1952)	2593
$C_{28}H_{26}N_2O_{10}S$	Benzenesulfonyl-tetramycinonitrile	-	-	Band freq	Hochstein	JACS	75 (1953)	5455
$C_{28}H_{28}N_2O_4S_2$	4,4'-Diphenylsulfonamido -2,2'-dimethylbibenzyl	-	-	Spec, Ident	Fuson	JACS	75 (1953)	5744
$C_{28}H_{28}N_4O_4$	Acetonylpyrrole	6500-6900	Sol	Spec, Band freq	Wulf	JACS	57 (1935)	1464
$C_{28}H_{28}O$	Mesityl-1-benzyl-1-methyl -1,4-dihydro-2-naphthyl ketone	-	-	Ident	Fuson	JOC	17 (1952)	881
$C_{28}H_{28}OSi$	Triphenylsilylbutyl phenyl ether	-	-	Inductive effect	Josien	CPR	248 (1959)	826
$C_{28}H_{28}O_4$	Dibenzylidenedihydro-picrotoxinide	2-13 μ	Sol	Spec	Conroy	JACS	74 (1952)	491
$C_{28}H_{28}O_7P_2$	Tetrabenzyl pyrophosphate	-	-	Group freq	Bellamy	JCS	- (1952)	1701
		-	-	Group freq	Bell	JACS	76 (1954)	5185
$C_{28}H_{28}Si$	Tetra-p-tolylsilane	-	-	Ident	Brook	JACS	76 (1954)	2333
		-	Sol	Group freq	Margoshes	AC	27 (1955)	351

$C_{28}H_{29}N_4O_3S$	3,4-Dicarbanilino-5,5-dimethyl-2-phenacetyl-aminomethylthiazolidine	800-3600	S	Spec	Davis	JOC	13 (1948)	682
$C_{28}H_{30}N_2O_4$	O-Benzoylyohimbine	-	-	Group freq	Huebuer	JACS	77 (1955)	469
$C_{28}H_{30}N_4$	Octamethylporphin	670-4000	S	Spec, Assign, Group freq	Falk	AJSR	4A (1951)	579
		400-4000	S	Spec, H bonding	Mason	JCS	- (1958)	976
$C_{28}H_{30}O$	Mesityl-1-benzyl-1-methyl-1,2,3,4-tetrahydro-2-naphthyl ketone	-	-	Ident	Fuson	JOC	17 (1952)	881
$C_{28}H_{30}O_4$	3,3-Bis(2'-methyl-4'-hydroxy-5'-isopropyl-phenyl)phthalide	330-2000	S	Freq	Jakobsen	APS	14 (1960)	61
$C_{28}H_{30}O_6$	Desapogossypol hexamethyl ether	2-12 μ	Sol	Spec, Group freq, Struct	O'Connor	JACS	76 (1954)	2368
$C_{28}H_{32}N_2O_3$	1-Methyl-3-benzal-4-piperidone dimer acetate	-	S	Group freq	McElvain	JACS	77 (1955)	492
$C_{28}H_{32}N_4$	Octamethyl chlorin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
$C_{28}H_{32}O_4Si_4$	2,4,6,8-Tetramethyl tetraphenylcyclotetra-siloxane	2-16 μ	Sol	Spec	Young	JACS	70 (1948)	3758
$C_{28}H_{33}BrO_{17}$	Tetraacetylasperuloside monobromoacetoxylate	779-1776	S	Table, I	Briggs	JCS	- (1954)	4182
$C_{28}H_{34}$	1,7-Diphenyl-4-(3-phenyl-propyl)heptane	1.1-1.25 μ	L	Group study, Anal	Evans	AC	23 (1951)	1604
$C_{28}H_{34}O_4$	Δ^4-Pregnene-20β-ol-3,11-dione benzoate	-	-	Band freq	Constantin	JACS	75 (1953)	1716
$C_{28}H_{34}O_{14}S_2$	Diethyl di-o-acetyl di-O-p-tolylsulfonylmucate	2-16 μ	S	Spec, Group freq	Tipson	JOC	18 (1953)	952
$C_{28}H_{34}O_{15}$	Hesperidin	-	L	Group freq	Inglett	JOC	23 (1958)	93

$C_{28}H_{36}N_2O_7$	N-Acetyl-3-isoreserpine-diol diacetate	-	S	Group freq	MacPhillamy	JACS	77 (1955)	4355
$C_{28}H_{36}OSi$	Triphenylsilylhexyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{28}H_{36}OSi$	Triphenylsilylnonyl methyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{28}H_{36}OSi$	Triphenylsilyloctyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{28}H_{36}O_4$	19-Nor-$\Delta^{1,3,5(10),6}$-22-spirostatetraen-3-ol acetate	-	Sol	Band freq	Sondheimer	JACS	76 (1954)	2230
$C_{28}H_{36}O_5S$	11α-Hydroxyprogesterone p-toluenesulfonate	-	Sol	Band freq	Rosenkrantz	JACS	76 (1954)	2227
$C_{28}H_{38}O$	Lumista-4,6,8(14),9(11),22-pentaen-3-one	725-1660	Sol	Table, I	Bladon	JCS	- (1955)	2176
$C_{28}H_{38}O_3$	21-Benzylidenepregnane-3α,20β-diol-11-one	-	-	Group study	Oliveto	JACS	76 (1954)	6111
$C_{28}H_{38}O_4$	3β-Acetoxy-$\Delta^{5,7,9(10)}$-22-iso-19-norspirosta-triene	- -	Sol Sol	Group freq Band freq	Mosettig Scheer	JOC JACS	17 (1952) 77 (1955)	764 3300
$C_{28}H_{38}O_5S$	Pregnan-11α-ol-3,20-dione p-toluenesulfonate	-	Sol	Band freq	Rosenkrantz	JACS	76 (1954)	2227
$C_{28}H_{38}O_6$	3β,5α,22-Triacetoxybisnor-chola-7,9,20(22)-triene	-	S	Group freq	Bladon	JCS	- (1953)	2916
$C_{28}H_{38}O_7$	3β,5α,22-Triacetoxy-9α,11α-epoxybisnorchola-7,20(22)-dione	-	S	Group freq	Bladon	JCS	- (1953)	2916
$C_{28}H_{38}O_{19}$	Cellobiose acetate	700-1500	S	Ident				

$C_{28}H_{38}O_{19}$	Cellobiose acetate	700–1500	S	Ident	White	AC	30 (1958)	506
$C_{28}H_{38}O_{19}$	α-Cellobiose octaacetate	8–15 μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_{28}H_{38}O_{19}$	Gentiobiose acetate	700–1500	S	Ident	White	AC	30 (1958)	506
$C_{28}H_{38}O_{19}$	Isomaltose acetate	700–1500	S	Ident	White	AC	30 (1958)	506
$C_{28}H_{38}O_{19}$	Lactose octaacetate	8–15 μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_{28}H_{38}O_{19}$	Maltose acetate	700–1500	S	Ident	White	AC	30 (1958)	506
$C_{28}H_{38}O_{19}\cdot 2H_2O$	Octaacetyltreholose dihydrate	2–15 μ	S	Spec	Arcamone	GCI	87 (1957)	1499
$C_{28}H_{38}O_{19}$	Sucrose octaacetate	– 700–1500	S S	Ident Ident	Lemieux White	JACS AC	75 (1953) 30 (1958)	448 506
$C_{28}H_{39}NO_{18}$	Octaacetyltrehalosamine	2–15 μ	S	Spec	Arcamone	GCI	87 (1957)	1499
$C_{28}H_{40}$	Anthraergostapentaene	– 1550–1650	– Sol	Group study Spec, Band freq	Nes Scheer	JACS JACS	76 (1954) 77 (1955)	3182 3300
$C_{28}H_{40}$	3,5-Cycloergosta-6,9(11), 8(14),22-tetraene	–	Sol	Band freq, Group freq	Rees	JCS	– (1954)	3422
$C_{28}H_{40}N_2O_9$	Antimycin A	2–12 μ	Sol	Spec	Tener	JACS	75 (1953)	1100
$C_{28}H_{40}O$	Ergosta-3,5,8(9),22-tetraen-7-one	–	Sol	Group freq	Elks	JCS	– (1954)	463
$C_{28}H_{40}O$	Ergosta-4,6,8(9),22-tetraen-3-one	–	Sol	Group freq	Elks	JCS	– (1954)	468
$C_{28}H_{40}O$	Ergosta-4,6,8(14),22-tetraen-3-one	–	Sol	Group freq	Elks	JCS	– (1954)	468
$C_{28}H_{40}O$	Lumista-3,5,8(9),22-tetraen-7-one	685–1643	Sol	Group freq, I	Bladon	JCS	– (1955)	2176
$C_{28}H_{40}O$	Lumista-4,6,8(9),22-tetraen-3-one	680–1655	Sol	Table, I	Bladon	JCS	– (1955)	2176

$C_{28}H_{40}O$	Lumista-4,6,8(14),22-tetraen-3-one	695-1663	Sol	Table, I	Bladon	JCS	- (1955)	2176
$C_{28}H_{40}O_2$	1,1-Bis-(2-hydroxy-3-t-butyl-5-methylphenyl) cyclohexane	2.35-3.05 μ	S,Sol	Spec, H bond	Coggeshall	JACS	72 (1950)	2836
$C_{28}H_{40}O_2$	3,5,3',5'-Tetra-t-butyl-diphenoquinone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{28}H_{40}O_3$	21-Benzylidenepregnane-3α,11β,20β-triol	-	-	Group study	Oliveto	JACS	76 (1954)	6111
$C_{28}H_{40}O_3$	$\Delta^{12,18}$-29,30-Bisnor oleadien-3β-ol-11,20-dione	-	Sol	Band freq	Djerassi	JACS	76 (1954)	4085
$C_{28}H_{40}O_7$	3β,5α,22-Triacetoxybisnor-chol-20(22)-en-11-one	-	S	Group freq	Bladon	JCS	- (1954)	125
$C_{28}H_{40}O_8$	Digitogenin lactone triacetate	-	Sol	Band freq	Klass	JACS	77 (1955)	3829
$C_{28}H_{41}NO_7$	Norcerinone-C-ortho-acetate	-	-	Group freq	Kupchan	JACS	77 (1955)	683
$C_{28}H_{42}$	3,5-Cyclo-$\Delta^{6,8:14,22}$ ergostatriene	2-16 μ	-	Spec	Fieser	JACS	74 (1952)	5397
$C_{28}H_{42}D_4O$	$\Delta^{8:14}$-Ergostenone-3-d_4-2,4	-	Sol	Group freq	Jones	JACS	74 (1952)	5662
$C_{28}H_{42}O$	24(28)Dehydroergosterol	8-13 μ	Sol	Spec, Band freq	Brewik	JOC	19 (1954)	1734
$C_{28}H_{42}O$	Ergosta-4,7,22-trien-3-one	650-900	Sol	Spec	Henbest	JCS	- (1957)	997
$C_{28}H_{42}O$	Lumista-4,7,22-trien-3-one	765-1674	Sol	Table, I	Bladon	JCS	- (1955)	2176

$C_{28}H_{42}O$	9(10)-Secoergosta-4,7, 10(19),22-tetraen-3-one	-	S	Band freq	Trippett	JCS	- (1955)	370
$C_{28}H_{42}O_2$	Di-(4-hydroxy-2-methyl-5-t-butylphenyl)-3-pentylmethane	2.5-3.4 μ	S,Sol	Group freq	Ambelang	JACS	75 (1953)	947
$C_{28}H_{42}O_2$	8β-Hydroxylumista-4,6, 22-trien-3-one	675-1665	Sol	Table, I	Bladon	JCS	- (1955)	2176
$C_{28}H_{42}O_3$	21-Benzylpregnane-3α, 11β,20α-triol	-	-	Group study	Oliveto	JACS	76 (1954)	6111
$C_{28}H_{42}O_3$	7,24-Dioxo-26,27-bisnor-lanosta-8,11-dien-3α-ol	-	Sol	Band freq	Halsall	JCS	- (1954)	2385
$C_{28}H_{42}O_3$	5α,8α-Epidioxy-3β-hydroxylumista-6,9(11), 22-triene	-	S	Ident	Bladon	JCS	- (1955)	2176
$C_{28}H_{42}O_3$	3,7,24-Trioxo-26,27-bisnorlanost-8-ene	-	Sol	Band freq, Ident	Halsall	JCS	- (1954)	2385
$C_{28}H_{42}O_5$	22a,5α-C-Nor-D-homo-18-norspirostan-3β-ol-17a-one acetate	-	-	Ident	Hirschmann	JACS	76 (1954)	4013
$C_{28}H_{42}O_7$	3β,22,22-Triacetoxybisnor-allocholan-11-one	- -	Sol -	Group freq Band freq	Cameron Page	JCS JCS	- (1953) - (1955)	3864 2017
$C_{28}H_{42}O_7$	2β,8β,11α-Triacetoxy-lananone	-	Sol	Band freq	Barnes	JCS	- (1953)	571
$C_{28}H_{42}O_7$	3β,7β,11α-Triacetoxy-4, 4,4-trimethyl-5α-androstan-17-one	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{28}H_{43}NO_5$	13α-Cyano-22a,5α-C-nor-D-homospirostane	-	-	Group study	Hirschmann	JACS	76 (1954)	4013
$C_{28}H_{43}O_4P$	Bis-[p-(1,1,3,3-Tetramethylbutyl)phenyl] phosphoric acid	500-4000	S,Sol	H bond	Peppard	JINC	7 (1958)	231

$C_{28}H_{44}$	Anthraergostatriene	700-1400	Sol	Spec, Band freq	Scheer	JACS	77 (1955)	3300
$C_{28}H_{44}$	3,5-Cyclo-$\Delta^{8(14),22}$-ergostadiene	2.7-15 μ	Sol	Spec, Struct, Group freq	Cahill	JOC	18 (1953)	720
$C_{28}H_{44}Br_2O$	2α,4α-Dibromoergost-9(11)-en-3-one	400-4000	Sol	Spec, Ext. Coefficient	Cummins	JCS	- (1957)	3847
$C_{28}H_{44}Br_2O_2$	2α,4α-Dibromoergosta-3,11-dione	400-4000	Sol	Spec, Substitution	Cummins	JCS	- (1957)	3847
$C_{28}H_{44}O$	3,5-Cyclo-Δ^{22}-ergostene-8(14)oxide	2.7-15 μ	Sol	Spec, Struct, Group freq	Cahill	JOC	18 (1953)	720
$C_{28}H_{44}O$	$\Delta^{4,22}$-Ergostadienone-3	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
		-	S	Group freq	Shepherd	JACS	77 (1955)	1212
$C_{28}H_{44}O$	$\Delta^{7,22}$-Ergostadienone-3	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{28}H_{44}O$	Ergosterol	650-1300	S	Spec	Turnbull	CIL	33 (1950)	626
		8-13 μ	Sol	Spec	Breivek	JOC	19 (1954)	1734
$C_{28}H_{44}O$	$\Delta^{8:14}$-Ergosterol	-	S	Band freq	Idler	JACS	75 (1953)	1712
$C_{28}H_{44}O$	Lumisterol	1650-1800	Sol	Group study	Jones	JACS	72 (1950)	956
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{28}H_{44}O$	Vitamin D_2	-	Sol	Spec	Shellow	PR	45 (1934)	126
		700-1500	-	Spec	Jones	CIC	2 (1950)	94
		1650-1800	Sol	Group study	Jones	JACS	72 (1950)	956
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{28}H_{44}O_2$	3,5-Cycloergostane-8(14),22-dioxide	2.7-15 μ	Sol	Spec, Struct, Group freq	Cahil	JOC	18 (1953)	720
$C_{28}H_{44}O_2$	4-Methyl-Δ^4-cholestene-3,6-dione	-	Sol	Band freq	Fieser	JACS	75 (1953)	4386

$C_{28}H_{44}O_3$	3β,5α-Dihydroxyergosta-9(11),22-dien-7-one	-	S	Group freq	Elks	JCS	- (1954)	463
$C_{28}H_{44}O_3$	7,24-Dioxo-26,27-bis-norlanost-8-en-3α-ol	-	Sol	Band freq	Halsall	JCS	- (1954)	2385
$C_{28}H_{44}O_3$	5α,8α-Epidioxy-$\Delta^{6,22}$-ergostadienol-3β	650-3100	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{28}H_{44}O_3$	5β,8β-Epidioxy-3β-hydroxylumista-6,22-diene	-	S	Group freq, Ident	Bladon	JCS	- (1955)	2176
$C_{28}H_{44}O_3$	9α,11α-Epoxyergosta-7,22-diene-3β,5α-diol	-	S	Group freq	Elks	JCS	- (1954)	463
$C_{28}H_{44}O_3$	$\Delta^{7,14,22}$-Ergostatriene-3β,5α,6α-triol	-	Sol	Band freq	Fieser	JACS	75 (1953)	4066
$C_{28}H_{44}O_3$	Methyl-3-oxo-A-trisnor-lupan-28-oate	1350-1500	Sol	Spec, Struct	Cole	JCS	- (1956)	1007
$C_{28}H_{44}O_3$	Δ^{5}-27-Norcholestenol-3β-one-25 acetate	- - 700-1400	Sol S,Sol Sol	Group freq Group freq Ident	Jones Tarpley Jones	JACS APS JACS	74 (1952) 9 (1955) 78 (1956)	5648 69 1152
$C_{28}H_{44}O_3$	Δ^{5}-Nor-27-cholesten-3β-ol-24-one acetate	700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{28}H_{44}O_4$	3β,24-Diacetoxy-$\Delta^{17(20)}$-allocholene	-	-	Band freq	Ryer	JACS	74 (1952)	4336
$C_{28}H_{44}O_4$	3α,24-Diacetoxychol-11-ene	650-3100	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{28}H_{44}O_4$	5α,8α-Epidioxy-3β-hydroxy-12-keto-ergost-9(11)-ene	-	S	Group freq	Henbest	JCS	- (1952)	4894

$C_{28}H_{44}O_4S_2$	Methyl-3α-hydroxy-11,12-diketochoanate-12-trimethylenethioketal	-	Sol	Group freq	Archer	JACS	76 (1954)	4915
$C_{28}H_{44}O_5$	6,7-Seco-Δ^4-cholesten-3-one-6,7-dioic acid, 7-monomethyl ester	-	Sol	Group freq, Band freq	Fieser	JACS	75 (1953)	4386
$C_{28}H_{44}O_6$	Bisnorallocholane-3β,16β,22-triol triacetate	-	Sol	Freq	Klass	JACS	77 (1955)	3829
$C_{28}H_{44}Si$	Diphenyl-n-hexadecylsilane	2-16 μ	Sol	Group freq	Kniseley	SA	15 (1959)	651
$C_{28}H_{45}BrO_2$	2α-Bromoergosta-3,11-dione	400-4000	Sol	Spec, Substitution effect	Cummins	JCS	- (1957)	3847
$C_{28}H_{45}N$	3-Cyano-5α-cholest-2-ene	-	-	Struct	Casu	GCI	90 (1960)	1147
$C_{28}H_{45}N$	3-Cyano-5β-cholest-2-ene	-	-	Struct	Casu	GCI	90 (1960)	1147
$C_{28}H_{45}N$	3-Cyano-5β-cholest-3-ene	-	-	Struct	Casu	GCI	90 (1960)	1147
$C_{28}H_{46}$	3,5-Cyclo-$\Delta^{8(14)}$-ergostene	2.7-15 μ	Sol	Spec, Struct, Group freq	Cahill	JOC	18 (1953)	720
$C_{28}H_{46}$	$\Delta^{7,22}$-5-Isoergostadiene	1650-1800	Sol	Group study	Jones	JACS	72 (1950)	956
$C_{28}H_{46}Br_2O_2$	2α,4α-Dibromo-11β-hydroxyergostan-3-one	400-4000	Sol	Spec, Substitution effect	Cummins	JCS	- (1957)	3847
$C_{28}H_{46}O$	Chalinesterol	-	S	Band freq	Idler	JACS	77 (1955)	4142
$C_{28}H_{46}O$	α-Dihydroergosterol	2.5-13 μ	Sol	Struct	Rosenkrantz	JACS	75 (1953)	903
$C_{28}H_{46}O$	γ-Dihydroergosterol	2.5-13 μ	Sol	Struct	Rosenkrantz	JACS	75 (1953)	903

$C_{28}H_{46}O$	$\Delta^{7,22}$-5-isoergostadienol-3α	-	Sol	Group freq	Cole	JACS	74 (1952)	5571
$C_{28}H_{46}O$	$\Delta^{7,22}$-Ergostadienol-3β	-	-	Ident	Nes	JOC	18 (1953)	276
$C_{28}H_{46}O$	$\Delta^{8(14),22}$-Ergostadienol-3β	-	-	Group freq	Nes	JOC	18 (1953)	276
$C_{28}H_{46}O$	Δ^{7}-Ergostenone-3	700-1000	Sol	Spec, Band freq	Bladon	JCS	- (1951)	2402
$C_{28}H_{46}O$	$\Delta^{8:14}$-Ergostenone-3	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		700-1000	Sol	Spec, Band freq	Bladon	JCS	- (1951)	2402
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
		-	Sol	Group study	Jones	JACS	74 (1952)	5662
$C_{28}H_{46}O$	Ergost-9(11)-en-3-one	400-4000	Sol	Spec, Substitution effect	Cummins	JCS	- (1957)	3847
$C_{28}H_{46}O$	Δ^{22}-Ergostenone-3	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{28}H_{46}O$	$\Delta^{5,7}$-3-Methoxycholestadiene	640-3600	S	Spec, Ident	Bernstein	JACS	73 (1951)	846
$C_{28}H_{46}O$	24-Methylenecholesterol	-	S	Group freq	Idler	JACS	77 (1955)	4142
$C_{28}H_{46}O_2$	3β-Carboxy-Δ^{5}-cholestene	-	S,Sol	Ident	Corey	JACS	75 (1953)	6234
$C_{28}H_{46}O_2$	Δ^{5}-Cholestenol-3β-formate	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{28}H_{46}O_2$	Ergosta-3,11-dione	400-4000	Sol	Spec, Substitution effect	Cummins	JCS	- (1957)	3847
$C_{28}H_{46}O_2$	Ketoergostenol	-	Sol	Group freq	Turner	JACS	75 (1953)	4362

$C_{28}H_{46}O_2$	4-Methylcholestane -3,6-dione	-	Sol	Band freq, Iso	Fieser	JACS	75 (1953)	4386
$C_{28}H_{46}O_3$	3α,12α-Dihydroxy-26,27 -bisnorlanost-8-en-24-one	-	Sol	Band freq	Halsall	JCS	- (1954)	2385
$C_{28}H_{46}O_3$	Ergosta-7,22-diene-3β, 5α,11β-triol	-	S	Group freq	Bladon	JCS	- (1953)	2921
$C_{28}H_{46}O_3$	Ergosta-9(11),22-diene 3β,5α,7ξ-triol	-	S	Group freq	Elks	JCS	- (1954)	463
$C_{28}H_{46}O_3$	Sarsasapogenin methyl ether	-	Sol	Group freq	Page	JCS	- (1955)	2017
$C_{28}H_{46}O_4$	5β-Hydroxy-6-keto-cholestane-3β-carboxylic acid	-	S	Group freq	Roberts	JCS	- (1954)	3178
$C_{28}H_{46}O_5$	20α-Markogenin acetate	2750-3100	Sol	Spec, Group freq	Smith	AC	31 (1959)	1539
$C_{28}H_{46}O_5$	20β-Markogenin acetate	2750-3100	Sol	Spec, Struct	Smith	AC	31 (1959)	1539
$C_{28}H_{46}O_6$	Methyl hecolate	-	Sol	Group freq, Band freq	Rothman	JACS	76 (1954)	527
$C_{28}H_{47}BrO_2$	2α-Bromo-11β-hydroxy-ergostan-3-one	400-4000	Sol	Spec, Substitution effect	Cummins	JCS	- (1957)	3847
$C_{28}H_{47}BrO_2$	4α-Bromo-11β-hydroxy-ergostan-3-one	400-4000	Sol	Spec, Substitution effect	Cummins	JCS	- (1957)	3847
$C_{28}H_{48}$	Δ^{7}-Ergostene	700-1000	Sol	Spec, Band freq	Bladon	JCS	- (1951)	2402
$C_{28}H_{48}$	$\Delta^{8(14)}$-Ergostene	1650-1800	Sol	Group study	Jones	JACS	72 (1950)	956
		700-1000	Sol	Spec, Band freq	Bladon	JCS	- (1951)	2402
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{28}H_{48}$	Δ^{14}-Ergostene	-	Sol	Group freq	Jones	JACS	74 (1952)	5648

$C_{28}H_{48}$	Δ -Ergostene	1650-1800	Sol	Group study	Jones	JACS	72 (1950)	956
		680-1400	Sol	Spec	Jones	JACS	72 (1950)	5322
		1350-1500	Sol	Spec, Group freq	Jones	JACS	74 (1952)	5648
$C_{28}H_{48}$	Δ^{22} -5-isoergostene	1650-1800	Sol	Group study	Jones	JACS	72 (1950)	956
$C_{28}H_{48}$	1-(n-Tetrahydronaphthyl) n-octadecane	5400-8900	Sol	Assign, Spec	Rose	JRNB	19 (1937)	143
$C_{28}H_{48}O$	Campesterol	10.0-10.75 μ	Sol	Anal	Johnson	AC	29 (1957)	468
$C_{28}H_{48}O$	i-Cholesteryl methyl ether	3-13 μ	S,Sol	Spec, Band freq, Struct	Josien	JACS	73 (1951)	4445
$C_{28}H_{48}O$	Ergostan-3-one	950-1350	S,Sol	Band freq	Rosenkrantz	AC	28 (1956)	31
$C_{28}H_{48}O$	α-Ergostenol	2.5-13 μ	Sol	Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
$C_{28}H_{48}O$	β-Ergostenol	2.5-13 μ	Sol	Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
$C_{28}H_{48}O$	γ-Ergostenol	2.5-13 μ	Sol	Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
$C_{28}H_{48}O$	Δ^{7} -5-isoergostenol-3α	1650-1800	Sol	Group study	Jones	JACS	72 (1950)	956
$C_{28}H_{48}O$	Δ^{7} -Ergostenol-3β	700-1000	Sol	Spec, Band freq	Bladon	JCS	- (1951)	2402
		2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		-	S	Band freq	Idler	JACS	75 (1953)	1712
$C_{28}H_{48}O$	Δ^{8} -Ergostenol-3β	-	Sol	Group freq	Cole	JACS	74 (1952)	5571
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{28}H_{48}O$	$\Delta^{8(14)}$ -Ergostenol-3β	700-1000	Sol	Spec, Band freq	Bladon	JCS	- (1951)	2402
		-	Sol	Group freq	Cole	JACS	74 (1952)	5571
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
		-	-	Ident	Nes	JOC	18 (1953)	276

$C_{28}H_{48}O$	Δ^{14}-Ergostenol-3β	700-1000	Sol	Spec, Band freq	Bladon	JCS	-	(1951) 2402
		-	Sol	Group freq	Cole	JACS	74	(1952) 5571
		-	Sol	Group freq	Jones	JACS	74	(1952) 5648
$C_{28}H_{48}O$	Δ^{22}-5-Isoergostenol-3α	-	Sol	Group freq	Cole	JACS	74	(1952) 5571
		900-3700	Sol	Spec, Group freq	Jones	JACS	74	(1952) 5648
$C_{28}H_{48}O$	3β-Methoxy-Δ^{5}-cholestene	640-3600	S	Spec, Ident	Bernstein	JACS	73	(1951) 846
		3-13 μ	S,Sol	Spec, Band freq, Struct	Josien	JACS	73	(1951) 4445
		2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74	(1952) 5357
		-	Sol	Group freq	Page	JCS	-	(1955) 2017
		-	-	Group freq, Ident	Henbest	JCS	-	(1957) 1462
$C_{28}H_{48}O$	4β-Methoxy-Δ^{5}-cholestene	-	-	Ident	Evans	JCS	-	(1953) 540
		-	-	Ident	Becker	JOC	20	(1955) 353
$C_{28}H_{48}O$	6β-Methoxy-Δ^{4}-cholestene	-	-	Ident	Becker	JOC	20	(1955) 353
$C_{28}H_{48}O_2$	2-Carbomethoxy-A-nor-cholestane	-	Sol	Group freq	Smith	JACS	76	(1954) 6119
$C_{28}H_{48}O_2$	11β-Hydroxyergostan-3-one	400-4000	Sol	Spec, Substitution effect	Cummins	JCS	-	(1957) 3847
$C_{28}H_{48}O_2$	β-Tocopherol	6-10.5 μ	-	Spec	Stern	JACS	69	(1947) 869
$C_{28}H_{48}O_2$	γ-Tocopherol	6-10.5 μ	-	Spec	Stern	JACS	69	(1947) 869
$C_{28}H_{48}O_3$	3β,5α-Dihydroxyergostan-11-one	-	S	Group freq	Bladon	JCS	-	(1953) 2921
$C_{28}H_{48}O_3$	5α-Hydroxycholestane-3β-carboxylic acid	-	S	Group freq	Roberts	JCS	-	(1954) 3178
$C_{28}H_{48}O_3$	4β-Methoxycholestan-5α-ol-2-one	-	Sol	Group freq	Conca	JOC	18	(1953) 1104
$C_{28}H_{48}O_3$	β-Tocopherylquinone	1600-1800	Sol	Group freq	Fuson	JACS	76	(1954) 2526

$C_{28}H_{48}O_5$	3β,5α,9ξ,11α-Tetrahydroxyergostan-7-one	-	S	Group freq	Bladon	JCS	-	(1953)	2916
$C_{28}H_{49}Cl$	3β-Chloro-3α-methylcholestane	400-1400	Sol	Group freq	Barton	JCS	-	(1956)	331
$C_{28}H_{50}$	Ergostane	1650-1800	Sol	Group study	Jones	JACS	72	(1950)	956
		680-1400	Sol	Spec	Jones	JACS	72	(1950)	5322
		1350-1500	Sol	Spec, Group freq	Jones	JACS	74	(1952)	5648
		950-1350	S,Sol	Band freq	Rosenkrantz	AC	28	(1956)	31
$C_{28}H_{50}O$	Ergostanol-3β	-	Sol	Group freq	Cole	JACS	74	(1952)	5571
		-	Sol	Group freq	Jones	JACS	74	(1952)	5648
		2.5-13μ	Sol	Struct, Group freq	Rosenkrantz	JACS	75	(1953)	903
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77	(1955)	2237
		650-1350	Sol	Discussion	Jones	JACS	80	(1958)	6121
$C_{28}H_{50}O$	Lumistanol-3α	700-1350	Sol	Spec, Band freq	Cole	JCS	-	(1952)	4969
		-	-	Group freq	Barton	JCS	-	(1953)	1027
$C_{28}H_{50}O$	Lumistanol-3β	700-1350	Sol	Spec, Band freq	Cole	JCS	-	(1952)	4969
		-	-	Group freq	Barton	JCS	-	(1953)	1027
$C_{28}H_{50}O$	3α-Methoxycholestane	-	Sol	Group freq	Lewis	JCS	-	(1955)	1375
		650-1400	Sol	Spec	Page	JCS	-	(1955)	2017
$C_{28}H_{50}O$	3β-Methoxycholestane	-	Sol	Group freq	Lewis	JCS	-	(1955)	1375
		-	Sol	Spec	Page	JCS	-	(1955)	2017
$C_{28}H_{50}O$	3α-Methoxycoprostane	-	Sol	Ident	Lewis	JCS	-	(1955)	1375
		-	Sol	Group freq	Lewis	JCS	-	(1955)	1365
		-	Sol	Spec	Page	JCS	-	(1955)	2017
$C_{28}H_{50}O$	3β-Methoxycoprostane	-	Sol	Group freq	Lewis	JCS	-	(1955)	1375
		-	Sol	Spec	Page	JCS	-	(1955)	2075
$C_{28}H_{50}O$	3α-Methylcholestan-3β-ol	3600-3650	Sol	Group freq, Ident	Cole	JCS	-	(1959)	1218
$C_{28}H_{50}O$	3β-Methylcholestan-3α-ol	3600-3650	Sol	Group freq, Ident	Cole	JCS	-	(1959)	1218
$C_{28}H_{50}O_3$	Lumistane-3β,5β,8β-triol	-	S	Group freq	Bladon	JCS	-	(1955)	2176

$C_{28}H_{52}O_4$	Lauryl fumarate	2-16 μ	L	Spec, Ident	Walton	AC	28 (1956)	1388
$C_{28}H_{52}O_4$	Lauryl maleate	2-16 μ	L	Spec, Ident	Walton	AC	28 (1956)	1388
$C_{28}H_{54}O_4$	Dimyristoyl peroxide	-	Sol	Group freq	Davison	JCS	- (1951)	2456
$C_{28}H_{54}O_4$	Di-n-nonyl sebacate	2-16 μ	Sol	Spec	Stahl	JACS	74 (1952)	5487
$C_{28}H_{56}$	5-Cyclohexyl-n-docosane	5400-8900	Sol	Assign, Spec	Rose	JRNB	19 (1937)	143
$C_{28}H_{56}$	11-Cyclohexylmethyl-heneicosane	1.1-1.25 μ	L	Anal	Evans	AC	23 (1951)	1604
$C_{28}H_{56}O_2$	n-Octacosanoic acid	2-15 μ	S	Spec, Qual anal	Meiklejohn	AC	29 (1957)	329
$C_{28}H_{58}$	n-Octacosane	-	-	Group anal	Hastings	AC	24 (1952)	612
		9.25-11.25 μ	Sol	Spec	Miller	JPC	60 (1956)	599
		700-3000	Sol	Group study, Ext. coefficient	Jones	SA	9 (1957)	235
		750-1200	S	Struct	Snyder	JCP	27 (1957)	969
		650-900	L,S	Band freq	Martin	SA	12 (1958)	12
		700-1500	S	Freq, Assign	Snyder	JMS	4 (1960)	411

C_{29} COMPOUNDS

$C_{29}H_{16}N_2O_4$	N-Methylindanthrone	5.9-8.5 μ	Sol	Spec, Struct	Wyman	JACS	78 (1956)	4599
$C_{29}H_{20}O$	2,3,4,5-Tetraphenyl-cyclopenta-2,4-dien-1-one	2-15 μ	Sol	Spec	Sonntag	JACS	75 (1953)	2283
$C_{20}H_{20}O_2$	2-Benzoyl-3,4,5-triphenyl-furan	-	Sol	Band freq	Yates	JACS	76 (1954)	5110
$C_{29}H_{20}O_3$	2-Benzoyl-4-hydroxy-2,3,4-triphenyl-3-butenoic acid lactone	-	Sol	Group freq	Yates	JACS	76 (1954)	5110
$C_{29}H_{22}N_2O_5$	N-(6-Benzalamino-3,4-methylenedioxybenzoyl) -p-methylaminophenyl-benzoate	700-1500	S	Group freq	Briggs	AC	29 (1957)	904

$C_{29}H_{22}O$	1,3-Dihydro-1,3-diphenyl-2-keto-2H-cyclopenta [1] phenanthrene	2-15 μ	S	Spec	Sonntag	JACS	75 (1953)	2283
$C_{29}H_{22}O$	2,3,4,5-Tetraphenylcyclopenta-2,4-dien-1-ol	2-15 μ	S	Spec, Group freq	Sonntag	JACS	75 (1953)	2283
$C_{29}H_{22}O$	2,3,4,5-Tetraphenylcyclopent-2-en-1-one	2-15 μ -	S S	Spec, Group freq Ident	Sonntag Mueller	JACS JACS	75 (1953) 76 (1954)	2283 4621
$C_{29}H_{22}O$	2,3,4-Triphenyl-5-benzylfuran	2-15 μ	Sol	Spec	Sonntag	JACS	75 (1953)	2283
$C_{29}H_{22}O_3$	4,5-Dihydroxy-2,3,4,5-tetraphenylcyclopent-2-enone	-	Sol	Struct	Yates	JACS	76 (1954)	5110
$C_{29}H_{24}$	Tetraphenylcyclopentene	2-15 μ	Sol	Spec	Sonntag	JACS	75 (1953)	2283
$C_{29}H_{24}N_2O$	1,2-Dibenzoyl-1-phenylcyclopropane monophenylhydrazone	3-11 μ	S	Ident	Allen	JOC	22 (1957)	1291
$C_{29}H_{24}O$	1-Ethoxy-1,2,3-triphenylindene	-	-	Group study	Lutz	JACS	77 (1955)	366
$C_{29}H_{24}O$	2,3,4,5-Tetraphenylcyclopentanone-1	2-15 μ	Sol	Spec, Group freq	Sonntag	JACS	75 (1953)	2283
$C_{29}H_{25}N_3O_4S_2$	2-N-Methylanilino-1,4-naphthalene dibenzenesulfonamide	-	-	Group freq, Struct	Adams	JACS	75 (1953)	4642
$C_{29}H_{26}NB$	Pyridinium tetraphenylborate	-	S	H bond, Band freq	Nuttall	JCS	- (1960)	4965
$C_{29}H_{26}N_2O_8S_2$	Diethyl(1-benzenesulfonimido-4-benzenesulfonimido-1,2-dihydronaphthylidene-2)-malonate	-	-	Group study	Adams	JACS	74 (1952)	5557
$C_{29}H_{27}N_3$	1,5-Diphenyl-3-p-tolyl-4-benzylamino-2-pyrazoline	687-3050	-	Table	Cromwell	JACS	71 (1949)	3337

$C_{29}H_{28}N_2O_8S_2$	Diethyl 1,4-naphthalene dibenzenesulfonamido-2-malonate	-	-	Group study	Adams	JACS	74 (1952)	5557
$C_{29}H_{28}O$	Mesityl 1-p-isopropylphenyl-2-naphthyl ketone	-	-	Grignard reaction prod.	Fuson	JOC	16 (1951)	643
$C_{29}H_{30}OSi$	Triphenylsilylpentyl phenyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{29}H_{30}O_3$	p-Duroylphenyl duryl diketone	-	-	Ident	Fuson	JACS	77 (1955)	3776
$C_{29}H_{31}NO_8 \cdot 2H_2O$	N-Benzylnornarceine dihydrate	-	-	Group freq	Whaley	JOC	19 (1954)	666
$C_{29}H_{33}BrN_2O_4$	dl-Rubremetinium bromide	800-3700	Sol	Spec, Ident	Battersby	JCS	- (1953)	2463
$C_{29}H_{34}N_2O_6S$	Methyl recanescate O-tosylate	-	Sol	Comparison	Neuss	JACS	77 (1955)	4087
$C_{29}H_{34}N_2O_8S_2$	N,N'-Dicarbethoxymethyl-N,N'-dibenzenesulfonyl-diaminomesitylene	650-4000	S	Ident	Adams	JACS	70 (1948)	4204
$C_{29}H_{34}N_4O_9$	Cortisone 21-acetate-3-mono-2,4-dinitrophenyl-hydrazone	-	Sol	Group freq	Reich	JOC	18 (1953)	822
$C_{29}H_{34}O$	3,4-Diphenyl-2,5-dodeca-methylenecyclopenta-2,4-dienone	2-15 μ	Sol	Group study	Allen	JOC	20 (1955)	306
$C_{29}H_{34}O$	Trimesityl vinyl alcohol	-	-	OH data	Fuson	JACS	68 (1946)	389
		2.7-2.9 μ	Sol	Spec	Buswell	JACS	69 (1947)	770
$C_{29}H_{34}O_7$	Maleic anhydride adduct of 3β,20-diacetoxy-5,7,9(11),pregnatriene	-	-	Freq	Moffett	JACS	74 (1952)	2183
$C_{29}H_{34}O_8$	Maleic anhydride adduct of 3β,20-diacetoxy-9,11-oxido 5,7,20-pregnatriene	-	-	Freq	Moffett	JACS	74 (1952)	2183

$C_{29}H_{34}O_{15}$	Pectolinarin	-	L	Freq	Inglett	JOC	23 (1958)	93
$C_{29}H_{36}NO_5$	22,26-Imino-4,13,15,17 (17a)-jervatetraene-23-ol -3,11-dione N-acetate	-	S	Band freq	Winterstemer	JACS	75 (1953)	4938
$C_{29}H_{36}N_2O_4$	Isotetradehydroemetine	2-16 μ	S	Spec, Struct	Hayett	JACS	73 (1951)	2578
$C_{29}H_{36}N_4O_7$	Desoxycorticosterone acetate 3-mono-2,4-dinitrophenylhydrazone	-	Sol	Group freq	Reich	JOC	18 (1953)	822
$C_{29}H_{36}O_2$	Bis-(2-hydroxy-3-t-butyl -5-methylphenyl) phenyl-methane	2.75-3.05 μ	S,Sol	Spec, H bond	Coggeshall	JACS	72 (1950)	2836
$C_{29}H_{37}NO_3$	dl-3-Keto-4-benzyl-16,17 -dihydroxy-$\Delta^{5,9(11)}$-10-epi-4-aza-D-homoandrostadiene acetonide	2-12 μ	Sol	Spec	Woodward	JACS	74 (1952)	4223
$C_{29}H_{38}N_2O_4S_2$	N,N'-Dibutyl-N,N'-dibenzene sulfonyl-diaminomesitylene	650-4000 650-3900	S -	Iso Spec, Iso	Adams Adams	JACS JACS	62 (1940) 70 (1948)	732 4204
$C_{29}H_{38}OSi$	Triphenylsilyldecyl methyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{29}H_{38}OSi$	Triphenylsilylheptyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{29}H_{38}OSi$	Triphenylsilylnonyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{29}H_{38}O_2S$	Methyl-Δ^4-3-keto-17α-methyl etienate-3-benzyl-thienol ether	-	Sol	Group freq	Engel	JACS	76 (1954)	4909
$C_{29}H_{38}O_4$	3β-Formoxy-16α-benzyloxy-Δ^5-pregnen-20-one	-	-	Group freq	Hirschmann	JOC	20 (1955)	572

$C_{29}H_{38}O_4$	$\Delta^{3,5,7,9(11)}$-22-Isospirostatetraen-3-ol-3-acetate	-	-	Band freq	Yashin	JACS	73 (1951)	4654
$C_{29}H_{38}O_4$	1-Methyl-19-nor-$\Delta^{1,3,5(10),6}$-22a-spirostatetraen-3-ol-acetate	-	Sol	Band freq	Sondheimer	JACS	76 (1954)	2230
$C_{29}H_{38}O_9$	Protokosin	2.96-13.77 μ	S	Table, Band freq	Birch	JCS	- (1952)	3102
$C_{29}H_{40}N_2O_4 \cdot 2HBr.7H_2O$	Emetine hydrobromide heptahydrate	2-16 μ	S	Spec, Struct	Hazlett	JACS	73 (1951)	2578
$C_{29}H_{40}N_2O_4 \cdot 2C_2H_2O_4.H_2O$	Emetine hydrogen oxalate monohydrate	2-16 μ	S	Spec, Struct	Hazlett	JACS	73 (1951)	2578
$C_{29}H_{40}N_2O_4 \cdot 2C_2H_2O_4.2H_2O$	Neoemetine hydrogen oxalate dihydrate	2-16 μ	S	Spec, Struct	Hazlett	JACS	73 (1951)	2578
$C_{29}H_{40}N_2O_4 \cdot 2C_2H_2O_4.3H_2O$	Emetine-IV hydrogen oxalate trihydrate	2-16 μ	S	Spec, Struct	Hazlett	JACS	73 (1951)	2578
$C_{29}H_{40}N_2O_4 \cdot 2C_2H_2O_4.5H_2O$	Isoemetine hydrogen oxalate pentahydrate	2-16 μ	S	Spec, Struct	Hazlett	JACS	73 (1951)	2578
$C_{29}H_{40}O_4$	3-Acetoxy-$\Delta^{2,4,6}$-22-isospirostatriene	-	-	Band study	Dauben	JACS	75 (1953)	3235
$C_{29}H_{40}O_4$	$\Delta^{3,5,7}$-22-Isospirostatrien-3-ol-3-acetate	-	-	Band freq	Yashin	JACS	73 (1951)	4654
$C_{29}H_{40}O_4$	1-Methyl-19-nor-$\Delta^{1,3,5(10)}$-22a-spirostatrien-3-ol acetate	-	Sol	Band freq	Sondheimer	JACS	76 (1954)	2230
$C_{29}H_{40}O_5$	$\Delta^{3,5}$-22a-Spirostadiene-3-[illegible]	-	Sol	Band freq	Djerassi	JACS	75 (1953)	4005

$C_{29}H_{40}O_5$	$\Delta^{3,5}$-22a-Spirostadiene-3--ol-12-one acetate	-	Sol	Band freq	Djerassi	JACS	75 (1953)	4885
$C_{29}H_{40}O_6$	Δ^{8}-22a,5α-Spirosten-3β-ol-7,11-dione acetate	-	Sol	Ident	Mancera	JACS	75 (1953)	4428
$C_{29}H_{40}O_6$	$\Delta^{8(a)}$-22-Isoallospirosten-3β--3-ol-7,11-dione acetate		Sol	Freq	Djerassi	JACS	74 (1952)	1712
$C_{29}H_{40}O_6$	Δ^{8}-22a,5β-Spirosten-3α--ol-7,11-dione acetate	-	S	Band freq	Rosenkrantz	JACS	75 (1953)	4430
$C_{29}H_{40}O_{11}$	Ouabagenin triacetate	-	-	Ident, Struct	Florey	JOC	19 (1954)	1174
$C_{29}H_{41}BrO_5$	3β-Acetoxy-23a-bromo-5α,22a-spirost-9(11)-en-12-one	2.5-16 μ	S,Sol	Spec, Group freq	Dickson	JCS	- (1955)	447
$C_{29}H_{41}BrO_5$	3β-Acetoxy-23b-bromo-5α,22a-spirost-9(11)-en-12-one	878-1736	Sol	Group freq, Spec	Dickson	JCS	- (1955)	447
$C_{29}H_{41}BrO_5$	23a-Bromo-12-oxo-5α:22a spirost-9(11)-en-3β-yl acetate	400-1400	S	Freq	Barton	JCS	- (1956)	331
$C_{29}H_{41}BrO_5$	23b-Bromo-12-oxo-5α:22a-spirost-9(11)-en-3β-yl acetate	400-1400	S	Freq	Barton	JCS	- (1956)	331
$C_{29}H_{42}BrClO_5$	3β-Acetoxy-23a-bromo-12α-chloro-5α,22a-spirostan-11-one	726-1734	Sol	Group freq	Dickson	JCS	- (1955)	447
$C_{29}H_{42}BrClO_5$	12α-Chloro-23a-bromo-11-oxotigogenin acetate	4000	Sol	Spec, Config.	Cummins	JCS	- (1957)	3847
$C_{29}H_{42}Br_2O_5$	3β-Acetoxy-11α,23a-dibromo-5α,22a-spirostan-12-one	726-1730 400-1400	Sol Sol	Group freq Group freq	Dickson Barton	JCS JCS	- (1955) - (1956)	447 331

$C_{29}H_{42}Br_2O_5$	3β-Acetoxy-11α,23b-dibromo-5α,22a-spirostan-12-one	882-1732 400-1400	Sol Sol	Group freq Group freq	Dickson Barton	JCS JCS	- (1955) - (1956)	447 331
$C_{29}H_{42}Br_2O_5$	3β-Acetoxy-12α,23a-dibromo-5α,22a-spirostan-11-one	728-1753	Sol	Group freq	Dickson	JCS	- (1955)	447
$C_{29}H_{42}Br_2O_5$	11α:23a-Dibromohecogenin acetate	400-4000	Sol	Spec	Cummins	JCS	- (1957)	3847
$C_{29}H_{42}Br_2O_5$	11α:23b-Dibromohecogenin acetate	400-4000	Sol	Spec	Cummins	JCS	- (1957)	3847
$C_{29}H_{42}Br_2O_5$	12α,23ξ-Dibromo-11-oxo-5α,22a-spirostan-3β-yl acetate	-	S	Group freq	Cornforth	JCS	- (1954)	907
$C_{29}H_{42}Br_2O_5$	12α:23a-Dibromo-11-oxo-tigogenin acetate	400-4000	Sol	Spec, Ext. Coeff.	Cummins	JCS	- (1957)	3847
$C_{29}H_{42}ClNO_4$	22,26-Imino-3α-chloro-17(20)-jervene-11,23-dione N-acetate	-	S	Band freq	Iselin	JACS	76 (1954)	5616
$C_{29}H_{42}N_6O_9$	Amicetin	2.5-15.5 μ	S	Spec, Band freq, Struct	Himmon	JACS	75 (1953)	5864
$C_{29}H_{42}O_2$	Epineoergosterol acetate	720-1630	S,Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{29}H_{42}O_2$	Neoergosterol acetate	720-1630	S,Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{29}H_{42}O_3S$	$\Delta^{3,5,7}$-22a-3-(β-Hydroxyethylmercapto)-spirostatriene	-	Sol	Group study	Djerassi	JACS	75 (1953)	3704
$C_{29}H_{42}O_4$	$\Delta^{7,9(11)}$-22-Isoallospirostadien-3β-ol acetate	-	-	Ident	Hirschmann	JACS	75 (1953)	3252
$C_{29}H_{42}O_4$	$\Delta^{3,5}$-22a,25a-Spirostadiene-3-ol-acetate	-	Sol	Freq	Djerassi	JACS	77 (1955)	3826

$C_{29}H_{42}O_5$	3β-Acetoxy-$\Delta^{\ }$-22a-spirostadien-5α-ol	-	Sol	Band freq	Djerassi	JCS	- (1954)	2346
$C_{29}H_{42}O_5$	3β-Acetoxy-5α,22a-spirost-9(11)-en-12-one	2.5-16 μ	Sol	Spec	Dickson	JCS	- (1955)	447
$C_{29}H_{42}O_5$	6β-Acetoxy-Δ^4-22a-spirosten-3-one	-	Sol	Band freq	Romo	JOC	19 (1954)	1509
		-	Sol	Band freq	Sondheimer	JACS	76 (1954)	5020
$C_{29}H_{42}O_5$	20α-Δ^5-Gentrogenin acetate	2750-3100	Sol	Spec	Smith	AC	31 (1959)	1539
$C_{29}H_{42}O_5$	$\Delta^{7,9(11)}$-22-Isospirostadiene-3β,14-diol 3-acetate	-	Sol	Band freq	Fieser	JACS	75 (1953)	4404
$C_{29}H_{42}O_5$	Δ^4-22a-Spirosten-2α-ol-3-one acetate	-	Sol	Band freq	Herran	JACS	76 (1954)	5531
$C_{29}H_{42}O_5$	Δ^5-22a-Spirosten-3β-ol-7-one acetate	-	Sol	Band freq, Ident	Sondheimer	JACS	75 (1953)	5930
$C_{29}H_{42}O_5$	Δ^8-22a,5α-Spirosten-3β-ol-7-one acetate	-	Sol	Band freq	Mancera	JACS	75 (1953)	4428
$C_{29}H_{42}O_5$	$\Delta^{9(11)}$-22a,5β-Spirosten-3-ol-7-one acetate	-	S	Group freq	Rosenkrantz	JACS	75 (1953)	4430
$C_{29}H_{42}O_6$	3β-Acetoxy-9α,11α-epoxy-22a-spirost-7-en-5α-ol	-	Sol	Band freq, Ident	Djerassi	JCS	- (1954)	2346
$C_{29}H_{42}O_6$	7ξ,8ξ,9α,11α-Diepoxy-22a,5β-spirostan-3α-ol acetate	-	Sol	Band freq	Lemin	JACS	76 (1954)	5642
$C_{29}H_{42}O_6$	22-Isoallospirostan-3β-ol-7,11-dione acetate	-	Sol	Freq	Djerassi	JACS	74 (1952)	1712
		-	-	Spec, Ident	Romo	JACS	74 (1952)	2918

$C_{29}H_{42}O_6$	Methyl Δ^{8}-3α,11α-diacetoxy-7-keto-cholenate	-	-	Band study	Djerassi	JACS	74 (1952)	3321
$C_{29}H_{42}O_6$	9α,11α-Oxido-22a,5α-Spirostan-3β-ol-7-one acetate	-	S	Band freq	Stork	JACS	73 (1951)	3546
		-	S	Band freq	Djerassi	JACS	75 (1953)	3505
$C_{29}H_{42}O_6$	22a,5β-Spirostan-3α-ol -7,11-dione acetate	-	S	Band freq	Rosenkrantz	JACS	75 (1953)	4430
$C_{29}H_{42}O_7$	3β-Acetoxy-7α,8α,9α,11α-diepoxy-22a-spirostan -5α-ol	-	Sol	Band freq	Djerassi	JCS	- (1954)	2346
$C_{29}H_{42}O_7$	Methyl 3α-acetoxy-11,12-diketocholanate enol acetate	-	Sol	Band freq	Djerassi	JACS	76 (1954)	5533
$C_{29}H_{42}O_9$	16α,17α-Oxidoallopregnane-3β,11α-diol-7,20-dione 3,11-diacetate 7,20-biscycloethylene ketal	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3505
$C_{29}H_{42}O_{12}$	Methyl 1β,3β,(11),19; tetraacetoxy-5,14-dihydroxy -14β-etianate	-	-	Struct	Florey	JOC	19 (1954)	1174
$C_{29}H_{43}D_3O_2$	$\Delta^{6,8}$-Cholestadienol-3β-acetate-d_3	-	Sol	Freq	Jones	JACS	74 (1952)	5662
$C_{29}H_{43}BrO_5$	3β-Acetoxy-23a-bromo-5 , 23a-Spirostan-12-one	724-1736	S,Sol	Group freq	Dickson	JCS	- (1955)	447
		400-4000	Sol	Spec	Cummins	JCS	- (1957)	3847
$C_{29}H_{43}BrO_5$	23ξ-Bromo-11β,12β-epoxy-5α,22a-spirostan -3β-yl acetate	-	Sol	Group freq	Cornforth	JCS	- (1954)	907
		732-1732	Sol	Group freq	Dickson	JCS	- (1955)	447
$C_{29}H_{43}BrO_5$	23b-Bromohecogenin acetate	400-4000	Sol	Spec	Cummins	JCS	- (1957)	3847

$C_{29}H_{43}BrO_6$	3β-Acetoxy-23a-bromo-11β-hydroxy-5α,22a-spirostan-12-one	-	S,Sol	Group freq	Dickson	JCS	- (1955)	443
$C_{29}H_{43}BrO_7$	6-Bromo-7-keto-3α,12α-diacetoxycholanic acid methyl ester	-	Sol	Group freq	Jones	JACS	74 (1952)	2828
$C_{29}H_{43}BrO_7$	11-Bromo-12-keto-3α,7α-diacetoxycholanic acid methyl ester	-	Sol	Group freq	Jones	JACS	74 (1952)	2828
$C_{29}H_{43}BrO_7$	Methyl 3α,12α-diacetoxy-6α-bromo-7-ketocholanate	-	-	Group freq	Corey	JACS	76 (1954)	175
$C_{29}H_{43}BrO_7$	Methyl 3α,12α-diacetoxy-6β-bromo-7-ketocholanate	-	-	Group freq	Corey	JACS	76 (1954)	175
$C_{29}H_{43}ClO_5$	12ξ-Chloro-11-oxotigogenin acetate	400-4000	Sol	Spec	Cummins	JCS	- (1957)	3847
$C_{29}H_{43}NO_5$	17a,22,26-Nitrilo-jerv-5-ene-3β,17,23-triol-11-one 17-acetate	-	S	Spec, Band freq	Wintersteiner	JACS	75 (1953)	4938
$C_{29}H_{43}NO_8$	Cevagenine C-orthoacetate	2-13 μ	Sol	Spec, Group freq, Struct	Kupchan	JACS	77 (1955)	686
$C_{29}H_{43}NO_8$	Cevagenine D-orthoacetate	2-13 μ	Sol	Spec, Group freq	Kupchan	JACS	77 (1955)	686
$C_{29}H_{43}NO_8$	Cevine Orthoacetate	2-13 μ	Sol	Spec, Group freq, Struct	Kupchan	JACS	77 (1955)	686
$C_{29}H_{43}NO_8 \cdot CH_3OH$	Cevine orthoacetate methenol	-	Sol	Struct, Group freq	Barton	JCS	- (1954)	2137
$C_{29}H_{43}NO_9$	Dihydroanhydrolycoctonam	600-3600	S	Spec	Edward	CJC	32 (1954)	708
$C_{29}H_{44}BrClO_5$	3β-Acetoxy-23a-bromo-12α-chloro-5α,22a-spirostan-11β-ol	728-3560	S	Group freq, Assign	Dickson	JCS	- (1955)	447

$C_{29}H_{44}Br_2O_4$	3β-Acetoxy-17,17a-dibromo-C-nor-D-homo-5α,22a-spirostane	-	Sol	Group freq	Elks	JCS	- (1954)	1739
$C_{29}H_{44}Br_2O_4$	Dibromosarsasapogenin Acetate	-	Sol	Struct	Ziegler	JACS	77 (1955)	1223
$C_{29}H_{44}Br_2O_4$	Dibromosmilagenin acetate	-	Sol	Ident	Ziegler	JACS	77 (1955)	1223
$C_{29}H_{44}Br_2O_5$	3β-Acetoxy-11α,23a-dibromo-5α,22a-spirostan-12α-ol	724-3620	Sol	Group freq, Assign	Dickson	JCS	- (1955)	447
$C_{29}H_{44}Br_2O_5$	3β-Acetoxy-11α,23a-dibromo-5α,22a-spirostan-12β-ol	724-3620	Sol	Group freq, Assign	Dickson	JCS	- (1955)	447
$C_{29}H_{44}Br_2O_5$	3β-Acetoxy-12α,23a-dibromo-5α,22a-spirostan-11β-ol	726-3620	Sol	Group freq, Assign	Dickson	JCS	- (1955)	447
$C_{29}H_{44}Br_2O_5$	11α,23ξ-Dibromo-12α-hydroxy-5α,22a-spirostan-3β-yl acetate	-	Sol	Group freq	Cornforth	JCS	- (1954)	907
$C_{29}H_{44}Br_2O_5$	11α,23ξ-Dibromo-12β-hydroxy-5α,22a-spirostan-3β-yl acetate	-	Sol	Group freq	Cornforth	JCS	- (1954)	907
$C_{29}H_{44}Br_2O_5$	12α,23ξ-Dibromo-11β-hydroxy-5α,22a-spirostan-3β-yl acetate	-	S	Group freq	Cornforth	JCS	- (1954)	907
$C_{29}H_{44}ClNO_4$	22,26-Imino-3α-chloro-jervane-11,23-dione N-acetate	-	S	Band freq	Iselin	JACS	76 (1954)	5616
$C_{29}H_{44}O$	6β-Methoxy-3,5-cyclo-ergosta-7,9(11),22-triene	-	Sol	Band freq, Group freq	Rees	JCS	- (1954)	3422
		-	Sol	Freq	Page	JCS	- (1955)	2017
$C_{29}H_{44}O$	3-Methoxy-3,5,7,22-ergostatetraene	-	S	Band freq, Group freq	Shepherd	JACS	77 (1955)	1212

$C_{29}H_{44}O_2$	Dihydroepineoergosterol acetate	720-1630	S,Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{29}H_{44}O_2$	Dihydroneoergosterol acetate	720-1630	S,Sol	Band freq	Scheer	JACS	77 (1955)	3300
$C_{29}H_{44}O_2$	Di-(4-hydroxy-2-methyl -5-t-butylphenyl)hexyl-methane	2.5-3.4 μ	S,Sol	Freq	Ambelang	JACS	75 (1953)	947
$C_{29}H_{44}O_2$	$\Delta^{12,18}$ -30-Noroleadien-3β-ol-11-one	-	Sol	Freq	Djerassi	JACS	76 (1954)	4085
$C_{29}H_{44}O_3$	7-Keto-$\Delta^{5,8(9)}$ -cholesteryl acetate	-	S	Band freq	Tsuda	JACS	77 (1955)	665
$C_{29}H_{44}O_3S$	Δ^{4} -22a-Spirosten-3-one ethylene hemithioketal	-	Sol	Ident	Djerassi	JACS	75 (1953)	3704
$C_{29}H_{44}O_4$	3β-Acetoxy-C-nor-D-homo-5α,22a-spirost-17-ene	-	Sol	Group freq	Elks	JCS	- (1954)	1739
$C_{29}H_{44}O_4$	3β-Acetoxy-5α,22a-Δ^{11} -spirostene	- -	Sol Sol	Group freq, Ident Band freq, Ident	Elks Henbest	JCS JCS	- (1954) 1739 - (1954) 800
$C_{29}H_{44}O_4$	Disogenin acetate	2.5-15 μ 835-1000 700-1400 890-1500 - - -	Sol Sol Sol Sol - Sol Sol	Spec, Band freq Spec, Freq Spec, Ident Spec, Group freq Ident Freq Reference for comparison	Hirschmann Wall Eddy Jones Sato Page Ziegler	JACS AC AC JACS JACS JCS JACS	74 (1952) 5357 24 (1952) 1337 25 (1953) 266 75 (1953) 158 75 (1953) 6067 - (1955) 2017 77 (1955) 1223
$C_{29}H_{44}O_4$	Cyclo-ψ-Diosgenin acetate	786-1732 -	Sol Sol	Group freq Freq	Callow Page	JCS JCS	- (1955) 1966 - (1955) 2017
$C_{29}H_{44}O_4$	20α-Δ^{5}-Diosgenin acetate	2750-3100	Sol	Spec	Smith	AC	31 (1959) 1539

$C_{29}H_{44}O_4$	20β-Δ^5-Diosgenin acetate	2750-3100	Sol	Spec	Smith	AC	31 (1959)	1539
$C_{29}H_{44}O_4$	20-Isodiosgenin acetate	7-15 μ	Sol	Spec, Freq	Eddy	AC	27 (1955)	1067
$C_{29}H_{44}O_4$	Neodiosgenin acetate	-	Sol	Band freq	Ziegler	JACS	77 (1955)	1223
$C_{29}H_{44}O_4$	$\Delta^{8(14)}$-22-Isoallospirostenol-3β-acetate	-	Sol	Ident	Mancera	JCS	- (1952)	1021
$C_{29}H_{44}O_4$	1-Methyleno-11-hydroxy-14-methyl-(2,3-[9,8]-3,10-dimethyl-5,7-dioxaspiro[5.4]decane)-hexadecahydrochrysofluorene acetate	-	-	Band study	Hirschmann	JACS	74 (1952)	2693
$C_{29}H_{44}O_4$	$\Delta^{17a(18)}$-22a,5α-C-Nor-D-homospirosten-3β-ol acetate	- -	Sol Sol	Group freq Band freq	Elks Hirschmann	JCS JACS	- (1954) 76 (1954)	17 4013
$C_{29}H_{44}O_4$	$\Delta^{9(11)}$-22a-5α-Spirosten-3β-ol acetate	2.5-15 μ - -	Sol Sol -	Spec, Band freq Band freq Ident	Hirschmann Rosenkrantz Wendler	JACS JACS JACS	74 (1952) 76 (1954) 77 (1955)	5357 2227 1632
$C_{29}H_{44}O_4$	Yamogenin acetate	890-1350	Sol	Spec, Group freq	Jones	JACS	75 (1953)	158
$C_{29}H_{44}O_4$	20-Isoyamogenin acetate	7-15 μ	Sol	Spec, Freq	Eddy	AC	27 (1955)	1067
$C_{29}H_{44}O_4$	20α-Δ^5-Yamogenin acetate	2750-3100	Sol	Spec, Struct	Smith	AC	31 (1959)	1539
$C_{29}H_{44}O_4$	20β-Δ^5-Yamogenin acetate	2750-3100	Sol	Spec, Struct	Smith	AC	31 (1959)	1539
$C_{29}H_{44}O_5$	3β-Acetoxy-11α,12α-epoxy-5α,22a-spirostane	-	Sol	Group freq	Elks	JCS	- (1954)	1739
$C_{29}H_{44}O_5$	12α-Acetoxy-5α,22a-Spirostan-3-one	-	Sol	Group freq	Elks	JCS	- (1954)	1739
$C_{29}H_{44}O_5$	Hecogenin acetate	- 800-1050	Sol Sol	I, Band study Freq, Anal	Jones Wall	JACS AC	74 (1952) 24 (1952)	80 1337

700-1400 Sol Spec, Ident

		700-1400	Sol	Spec, Ident	Eddy	AC	25 (1953)	266
		890-1340	Sol	Group freq, I	Jones	JACS	75 (1953)	158
		-	-	Ident	Krider	JACS	76 (1954)	2938
		-	-	Band study	Callow	JCS	- (1955)	1671
		-	-	Reference	Dickson	JCS	- (1955)	447
		-	-	Ident	Rosenfeld	JACS	77 (1955)	4367
		400-4000	Sol	Spec	Cummins	JCS	- (1957)	3847
$C_{29}H_{44}O_5$	Cyclo-ψ-Hecogenin acetate	-	Sol	Group freq	Callow	JCS	- (1955)	1966
$C_{29}H_{44}O_5$	20α-Hecogenin acetate	2750-3100	Sol	Spec	Smith	AC	31 (1959)	1539
$C_{29}H_{44}O_5$	20β-Hecogenin acetate	2750-3100	Sol	Spec, Struct	Smith	AC	31 (1959)	1539
$C_{29}H_{44}O_5$	20-Isohecogenin acetate	7-15 μ	Sol	Spec, Band freq	Eddy	AC	27 (1955)	1067
$C_{29}H_{44}O_5$	22-Isoallospirostan-3β-ol-11-one acetate	-	-	Spec, Ident	Romo	JACS	74 (1952)	2918
$C_{29}H_{44}O_5$	5α,22a-C-Norspirostan-3β-ol-11a-al-3-acetate	-	Sol	Freq	Wendler	JACS	77 (1955)	1632
$C_{29}H_{44}O_5$	9α,11α-Oxido-5α,22α-Spirostan-3β-ol acetate	-	-	Spec, Band freq	Constantin	JACS	74 (1952)	3908
		-	Sol	Band freq	Rosenkrantz	JACS	76 (1954)	2227
$C_{29}H_{44}O_5$	11-Oxotigogenin acetate	-	-	Ident	Callow	JCS	- (1955)	1966
		400-4000	Sol	Spec, Ext. Coeff., Config.	Cummins	JCS	- (1957)	3847
$C_{29}H_{44}O_5$	11-Oxocyclo-ψ-tigogenin acetate	784-1731	Sol	Group freq	Callow	JCS	- (1955)	1966
$C_{29}H_{44}O_5$	Pennogenin 3-monoacetate	890-1340	Sol	Group freq, I	Jones	JACS	75 (1953)	158
$C_{29}H_{44}O_5$	Sisalagenin acetate	-	S	Band freq	Callow	JCS	- (1955)	1671
$C_{29}H_{44}O_5$	Cyclo-ψ-Sisalagenin acetate	868-1735	S,Sol	Group freq	Callow	JCS	- (1955)	1966
$C_{29}H_{44}O_5$	22a,5α-Spirostan-2α-ol-3-one acetate	-	Sol	Band freq	Herran	JACS	76 (1954)	5531

$C_{29}H_{44}O_5$	22a,5α-Spirostan-2β-ol-3-one acetate	-	Sol	Band freq	Herran	JACS	76 (1954)	5531
$C_{29}H_{44}O_5$	22a,5α-Spirostan-3β-ol-11-one 3-acetate	-	Sol	Band freq, Ident	Djerassi	JACS	76 (1954)	5533
$C_{29}H_{44}O_5$	22a,5β-Spirostan-3α-ol-11-one acetate	-	Sol	Band freq	Rosenkrantz	JACS	75 (1953)	4430
		-	Sol	Band freq	Lenin	JACS	76 (1954)	5672
$C_{29}H_{44}O_5$	22a,5β-Spirostan-3α-ol-12-one acetate	-	-	Band freq	Djerassi	JACS	75 (1953)	4885
$C_{29}H_{44}O_5$	20α-Δ^5-Yuccagenin acetate	2750-3100	Sol	Spec, Struct	Smith	AC	31 (1959)	5539
$C_{29}H_{44}O_5S_2$	Methyl 3α-formoxy-11,12-diketocholanate-12-trimethylenethioketal	-	Sol	Group freq	Archer	JACS	76 (1954)	4915
$C_{29}H_{44}O_6$	2β-Acetoxy-5α,22a-C-norspirostan-11a-oic acid	-	-	Freq	Wendler	JACS	77 (1955)	1632
$C_{29}H_{44}O_6$	Hecololactone 3-acetate	5.6-15 μ	Sol	Spec, Band freq	Rothman	JACS	76 (1954)	527
$C_{29}H_{44}O_6$	8,14ξ-Oxido-22a-allo-spirostane-7ξ-ol-3-one ethylene ketal	-	-	Ident	Bernstein	JOC	18 (1953)	1418
$C_{29}H_{44}O_6$	22a,5α-Spirostane-3β,12β-diol-11-one 3-acetate	-	Sol	Band freq	Djerassi	JACS	76 (1954)	5533
$C_{29}H_{44}O_6$	22a-Spirostan-3-one-5α,6β-diol 6-monoacetate	-	Sol	Band freq	Sondheimer	JACS	76 (1954)	5020
$C_{29}H_{44}O_7$	Methyl 3α,11β-diacetoxy-12-ketocholanate	-	-	Ident	Rosenfeld	JACS	77 (1955)	4367
$C_{29}H_{44}O_7$	Methyl 3α,12α-diacetoxy 7-ketocholanate	1700	Sol	Freq, Struct, Anal	Jones	JACS	71 (1949)	241
		-	-	Group freq	Corey	JACS	76 (1954)	175
$C_{29}H_{44}O_7$	Methyl 3α,12β-diacetoxy-11-ketocholanate	-	-	Ident	Rosenfeld	JACS	77 (1955)	4367

$C_{29}H_{44}O_7$	Methyl 3β,11ξ-diacetoxy 3α,9α-oxidocholanate	-	-	Band freq	Heymann	JACS	73 (1951)	5252
$C_{29}H_{45}D_3O_2$	Δ^5-Cholestenol-3β-acetate-d_3	-	Sol	Band study	Jones	JACS	74 (1952)	5662
$C_{29}H_{45}BrO_3$	7-Keto-8-bromocholesteryl acetate	-	Sol	Freq	Tsuda	JACS	77 (1955)	665
$C_{29}H_{45}NO_3$	3β-Acetoxy-22-pieridino-bisnorallochol-20(22)-en-11-one	-	Sol	Group freq	Cameron	JCS	- (1953)	3864
$C_{29}H_{45}NO_3$	Solanidane-3-one-18-ol acetate	-	-	Ident	Klohs	JACS	75 (1953)	2133
$C_{29}H_{45}NO_4$	22,26-Imino-17(20)-isojervene-3β,23-diol-11-one N-acetate	-	S	Band freq	Wintersteiner	JACS	76 (1954)	5609
$C_{29}H_{45}NO_5$	16,22,26-Nitrilojervane -3β,17,23-triol-11-one 17-acetate	-	S	Band freq	Wintersteiner	JACS	76 (1954)	5609
$C_{29}H_{45}NO_8$	Cevinilol C-orthoacetate	-	-	Freq	Kupchan	JACS	77 (1955)	683
$C_{29}H_{45}NO_8$	Zygacine	-	-	Ident	Kupchan	JACS	77 (1955)	755
$C_{29}H_{45}NO_9$	Ceracine	2-13 μ	Sol	Spec	Kupchan	JACS	75 (1953)	5519
$C_{29}H_{45}O$	Norechinocystadienol	6.4-12 μ	Sol	Spec, Ident, Struct	Barton	JCS	- (1951)	257
$C_{29}H_{46}Br_2O_3$	3β-Acetoxy-5α,7α-dibromo-cholestanone-6	-	-	Group freq	Corey	JACS	76 (1954)	175
$C_{29}H_{46}Br_2O_3$	3β-Acetoxy-5α,7β-dibromo-cholestanone-6	-	-	Group freq	Corey	JACS	76 (1954)	175
$C_{29}H_{46}O$	28-Norolean-17-en-3-one	1350-1500	Sol	Ident	Cole	JCS	- (1956)	1007
		680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332

$C_{29}H_{46}O$	$\Delta^{4,22}$-Stigmastadien-3-one	9.75-10.75 μ	Sol	Spec, Anal	Slomp	JACS	77 (1955)	1216
$C_{29}H_{46}OS$	7-Dehydrocholesteryl thioacetate	670-3700	S	Spec	Bernstein	JOC	16 (1951)	685
$C_{29}H_{46}OS_2$	Δ^{4}-Cholestene-3,6-dione 3-monoethylene thioketal	-	Sol	Band freq	Fieser	JACS	76 (1954)	1945
$C_{29}H_{46}O_2$	$\Delta^{3,5}$-Cholestadienol-3β-acetate	1580-3100	Sol	Group study, I	Jones	JACS	72 (1950)	86
		-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{29}H_{46}O_2$	$\Delta^{5,7}$-Cholestadienol-3β-acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{29}H_{46}O_2$	$\Delta^{6,8}$-Cholestadienol-3β-acetate	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
		-	Sol	Table	Jones	JACS	74 (1952)	5662
		650-900	Sol	Spec	Henbest	JCS	- (1957)	997
$C_{29}H_{46}O_2$	$\Delta^{8,24}$-Cholestadienol-3β-acetate	-	Sol	Freq	Jones	JACS	74 (1952)	5648
$C_{29}H_{46}O_2$	Δ^{4}-Cholesten-6α-ol-3-one acetate	-	Sol	Band freq	Fieser	JACS	75 (1953)	4377
$C_{29}H_{46}O_2$	Isodehydrocholestrol acetate	-	Sol	Freq	Barton	JCS	- (1953)	1842
$C_{29}H_{46}O_2$	3β-Methoxyergosta-7,22-dien-11-one	-	-	Group study	Henbest	JCS	- (1957)	1462
$C_{29}H_{46}O_2$	3β-Methoxyergosta-8,22-dien-11-one	-	-	Group study	Henbest	JCS	- (1957)	1462
$C_{29}H_{46}O_2$	Methyl cholesta-3,5-diene -3-carboxylate	-	Sol	Group freq	Roberts	JCS	- (1954)	3178

$C_{29}H_{46}O_2$	Norechinocystenolone	-	Sol	Band freq	Djerassi	JACS	77 (1955)	3579
$C_{29}H_{46}O_2$	Δ^{22}-Sitostenedione-3,6	1700	Sol	Freq, Struct	Jones	JACS	71 (1949)	241
$C_{29}H_{46}O_3$	3β-Acetoxy-Δ^{8}-cholesten-7-one	-	Sol	Band freq	Fieser	JACS	75 (1953)	4395
$C_{29}H_{46}O_3$	3β-Acetoxy-$\Delta^{8(14)}$-cholesten-7-one	-	Sol	Band freq	Fieser	JACS	75 (1953)	4395
$C_{29}H_{46}O_3$	6α-Acetoxy-Δ^{4}-cholesten-3-one	-	Sol	Band freq	Sondheimer	JACS	75 (1953)	4712
$C_{29}H_{46}O_3$	6β-Acetoxycholest-4-en-3-one	- -	Sol Sol	Group freq Band freq	Amendolla Romo	JCS JOC	- (1954) 19 (1954)	1226 1509
$C_{29}H_{46}O_3$	Δ^{4}-2-Carbomethoxy-cholestenone-3	1350-1500	Sol	Spec, Freq	Jones	JACS	74 (1952)	5648
$C_{29}H_{46}O_3$	Δ^{4}-4-Carbomethoxy-cholestenone-3	-	Sol	Spec, Table	Jones	JACS	74 (1952)	5648
$C_{29}H_{46}O_3$	Δ^{5}-Cholestene-3,4-dione 3-ethylene ketal	-	Sol	Band freq	Fieser	JACS	76 (1954)	1728
$C_{29}H_{46}O_3$	Δ^{4}-Cholesten-2α-ol-3-one acetate	-	Sol	Band freq	Fieser	JACS	75 (1953)	4716
$C_{29}H_{46}O_3$	Δ^{4}-Cholesten-4-ol-3-one acetate	-	Sol	Band freq	Fieser	JACS	76 (1954)	1728
$C_{29}H_{46}O_3$	Δ^{5}-Cholesten-3β-ol-4-one acetate	-	Sol	Band freq	Fieser	JACS	76 (1954)	1728

$C_{29}H_{46}O_3$	Δ^5-Cholesten-3β-ol-7-one acetate	650-1390	Sol	Spec	Jones	JACS	77 (1955)	651
		-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
		650-900	Sol	Spec	Henbest	JCS	- (1957)	997
$C_{29}H_{46}O_3$	Δ^5-Cholesten-4α-ol-3-one acetate	-	Sol	Band freq	Fieser	JACS	76 (1954)	1728
$C_{29}H_{46}O_3$	Epimeric-6α-acetoxy-4-cholesten-3-one	-	Sol	Freq, Spec	Moritz	BCSJ	31 (1958)	379
$C_{29}H_{46}O_3$	Epimeric-6β-acetoxy-4-cholesten-3-one	-	Sol	Spec	Moritz	BCSJ	31 (1958)	379
$C_{29}H_{46}O_3$	15-Oxocholest-8(14)-en-3β-yl acetate	1600-1750	Sol	Freq, Spec	Braude	JCS	- (1955)	3766
$C_{29}H_{46}O_4$	3β-Acetoxy-22-isoallo--spirostane	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{29}H_{46}O_4$	Cholestenol-5α-dione-3,6-5-acetate	-	Sol	Band freq	Tarlton	JACS	75 (1953)	4423
$C_{29}H_{46}O_4$	Ketone 104 enol acetate	-	Sol	Band freq	Fieser	JACS	75 (1953)	4418
$C_{29}H_{46}O_4$	Sarsasapogenin acetate	830-1020	Sol	Spec	Rothman	JACS	74 (1952)	4013
		835-1000	Sol	Spec, Anal	Wall	AC	24 (1952)	1337
		700-1400	Sol	Spec, Ident	Eddy	AC	25 (1953)	266
		890-1468	Sol	I, Group freq	Jones	JACS	75 (1953)	158
		-	Sol	Freq	Page	JCS	- (1955)	2017
		-	Sol	Ident	Ziegler	JACS	77 (1955)	1223
		-	-	IR	Morcillo	ARS	53B (1957)	145
$C_{29}H_{46}O_4$	20α-Sarsasapogenin acetate	2750-3100	Sol	Spec	Smith	AC	31 (1959)	1539
$C_{29}H_{46}O_4$	20β-Sarsasapogenin acetate	2750-3100	Sol	Spec, Struct	Smith	AC	31 (1959)	1539
$C_{29}H_{46}O_4$	Cyclo-ψ-Sarsasapogenin acetate	868-1732	S,Sol	Group freq	Callow	JCS	- (1955)	1966
		-	Sol	Freq	Page	JCS	- (1955)	2017
$C_{29}H_{46}O_4$	3-Episarsasapogenin acetate	890-1340	Sol	Group freq	Jones	JACS	75 (1953)	158

$C_{29}H_{46}O_4$	20-Isosarsasapogenin acetate	-	-	Band freq	Wall	JACS	76 (1954) 2849
		-	-	Group freq, Struct	Wall	JACS	77 (1955) 1230
$C_{29}H_{46}O_4$	Smilagenin acetate	835-1000	Sol	Spec	Wall	AC	24 (1952) 1337
		700-1400	Sol	Spec, Ident	Eddy	AC	25 (1953) 266
		-	S	Ident	Callow	JCS	- (1955) 1671
		-	Sol	Ident	Djerassi	JACS	77 (1955) 4291
		-	Sol	Ident	Wall	JACS	77 (1955) 3086
		-	Sol	Ident	Zeigler	JACS	77 (1955) 1223
$C_{29}H_{46}O_4$	20α-Smilagenin acetate	2750-3100	Sol	Spec, Struct	Smith	AC	31 (1959) 1539
$C_{29}H_{46}O_4$	20β-Smilagenin acetate	2750-3100	Sol	Spec, Struct	Smith	AC	31 (1959) 1539
$C_{29}H_{46}O_4$	Cyclo-ψ-Smilagenin acetate	785-1730	Sol	Group freq	Callow	JCS	- (1955) 1966
		-	Sol	Freq	Page	JCS	- (1955) 2017
$C_{29}H_{46}O_4$	20-isosmilagenin acetate	-	-	Band freq	Wall	JACS	76 (1954) 2849
		7-15 μ	Sol	Spec, Band freq	Eddy	AC	27 (1955) 1067
		-	-	Band freq	Wall	JACS	77 (1955) 1230
$C_{29}H_{46}O_4$	22a,25a,5α-Spirostan-3α-ol acetate	-	Sol	Ident	Djerassi	JACS	77 (1955) 4291
$C_{29}H_{46}O_4$	22a,25a-Spirostan-4α-ol acetate	-	Sol	Freq	Djerassi	JACS	77 (1955) 4291
$C_{29}H_{46}O_4$	Tigogenin acetate	800-1050	Sol	Band study	Wall	AC	24 (1952) 1337
		700-1400	Sol	Spec, Ident	Eddy	AC	25 (1953) 266
		890-1340	Sol	Group freq, I	Jones	JACS	75 (1953) 158
		-	-	Ident	Krider	JACS	76 (1954) 2938
		-	S	Ident	Callow	JCS	- (1955) 1671
		-	S	Freq	Page	JCS	- (1955) 2017
		400-4000	Sol	Spec	Cummins	JCS	- (1957) 3847
$C_{29}H_{46}O_4$	20α-Tigogenin acetate	2750-3100	Sol	Spec	Smith	AC	31 (1959) 1539
$C_{29}H_{46}O_4$	20β-Tigogenin acetate	2750-3100	Sol	Spec, Struct	Smith	AC	31 (1959) 1539
$C_{29}H_{46}O_4$	Cyclo-ψ-Tigogenin acetate	5-16 μ	Sol	Spec, Group freq	Callow	JCS	- (1955) 1966
		-	Sol	Freq	Page	JCS	- (1955) 2017
$C_{29}H_{46}O_4$	Cyclo-ψ-neotigogenin acetate	5-16 μ	Sol	Spec	Callow	JCS	- (1955) 1966
		-	Sol	Freq	Page	JCS	- (1955) 2017

$C_{29}H_{46}O_4$	20-isotigogenin acetate	7-15 μ	Sol	Spec, Band freq	Eddy	AC	27 (1955)	1067
$C_{29}H_{46}O_4$	neotigogenin acetate	-	S	Ident	Callow	JCS	- (1955)	1966
		-	Sol	Freq	Page	JCS	- (1955)	2017
$C_{29}H_{46}O_5$	12 α-Acetoxy-5α,22a-spirostan-3β-ol	-	Sol	Group freq	Elks	JCS	- (1954)	1739
$C_{29}H_{46}O_5$	20α-Chlorogenin acetate	2750-3100	Sol	Spec, Struct	Smith	AC	31 (1959)	1539
$C_{29}H_{46}O_5$	20β-Chlorogenin acetate	2750-3100	Sol	Spec, Struct	Smith	AC	31 (1959)	1539
$C_{29}H_{46}O_5$	20α-Gitogenin acetate	2750-3100	Sol	Spec	Smith	AC	31 (1959)	1539
$C_{29}H_{46}O_5$	20β-Gitogenin acetate	2750-3100	Sol	Spec	Smith	AC	31 (1959)	1539
$C_{29}H_{4665}$	11β-Hydroxy-5α,22a-spirostan-3β-yl acetate	-	-	Group freq	Cornforth	JCS	- (1954)	907
$C_{29}H_{46}O_5$	22-Isoallospirostan-3β, 11β-diol 3-acetate	-	-	Band study	Djerassi	JACS	74 (1952)	1712
$C_{29}H_{46}O_5$	25-Isocholegenin-3-monoacetate	-	-	Band freq	Mazur	JCS	- (1954)	1223
$C_{29}H_{46}O_5$	3,4-Seco-Δ^5-cholesten-7-one-3,4-dioic acid dimethyl ester	-	Sol	Band freq	Fieser	JACS	75 (1953)	4386
$C_{29}H_{46}O_5$	6,7-Seco-Δ^4-cholesten-3 one-6,7-dioic acid dimethyl ester	-	Sol	Band freq	Fieser	JACS	75 (1953)	4386
$C_{29}H_{46}O_5$	22a,5α-Spirostane-3β,11α-diol 3-monoacetate	-	Sol	Band freq	Rosenkrantz	JACS	76 (1954)	2227
$C_{29}H_{47}BrO_3$	3β-Acetoxy-5α-bromo-cholestanone-6	-	-	Group freq	Corey	JACS	76 (1954)	175
$C_{29}H_{47}BrO_3$	3β-Acetoxy-7α-bromo-cholestanone-6	-	-	Group freq	Corey	JACS	76 (1954)	175

$C_{29}H_{47}BrO_3$	6α-Bromo-7-oxocholestan-3β-yl acetate	-	Sol	Freq	Cookson	JCS	-	(1954)	282
		400–4000	Sol	Spec	Cummins	JCS	-	(1957)	3847
$C_{29}H_{47}BrO_3$	6β-Bromo-7-oxocholestan-3β-yl acetate	-	Sol	Freq	Cookson	JCS	-	(1954)	282
		400–4000	Sol	Spec	Cummins	JCS	-	(1957)	3847
$C_{29}H_{47}NO_4$	6-Nitrocholesteryl acetate	-	Sol	Band freq	Anagnostopoulos	JACS	76	(1954)	532
$C_{29}H_{47}NO_4$	6-Nitroepicholesteryl acetate	-	Sol	Band freq	Anagnostopoulos	JACS	76	(1954)	532
$C_{29}H_{48}$	28-Norolean-13(18)-ene	680–3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{29}H_{48}$	28-Norolean-17-ene	680–1350	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{29}H_{48}Cl_2O_2$	5α,6β-Dichlorocholestan-3β-yl acetate	400–1400	Sol	Group freq	Barton	JCS	-	(1956)	331
$C_{29}H_{48}N_2O_6$	7,8-Dinitrocholestanyl acetate	-	Sol	Band freq	Anagnostopoulos	JACS	76	(1954)	532
$C_{29}H_{48}N_2O_7$	6β-Nitrocholestane-3α, 5α-diol 3-acetate 5-nitrate	-	Sol	Band freq	Anagnostopoulos	JACS	76	(1954)	532
$C_{29}H_{48}N_2O_7$	6β-Nitrocholestane-3β, 5α-diol 3-acetate 5-nitrate	-	Sol	Band freq	Anagnostopoulos	JACS	76	(1954)	532
$C_{29}H_{48}O$	3-Acetyl-5α-cholest-2-ene	-	-	Struct	Casu	GCI	90	(1960)	1147
$C_{29}H_{48}O$	3-Acetyl-5β-cholest-2-ene	-	-	Struct	Casu	GCI	90	(1960)	1147
$C_{29}H_{48}O$	Lup-20(29)-en-28-ol	3600–3650	Sol	Freq, Struct	Cole	JCS	-	(1959)	1218
$C_{29}H_{48}O$	30-Nor-19α(H)-Taraxastan-20-one	-	Sol	Band freq	Ames	JCS	-	(1954)	1905
$C_{29}H_{48}O$	Oleanol	11–13 μ	Sol	Spec, Struct	Barton	JCS	-	(1951)	257
		1350–3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
		3600–3650	Sol	Struct	Cole	JCS	-	(1959)	1218

$C_{29}H_{48}O$	$\Delta^{5,24(28)}$-Stigmastadienol	-	Sol	Freq	Cole	JACS	74 (1952)	5571
	-3β	-	Sol	Freq	Jones	JACS	74 (1952)	5648
$C_{29}H_{48}O$	$\Delta^{7,22}$-Stigmastadienol-3β	-	Sol	Freq	Cole	JACS	74 (1952)	5571
		-	-	Ident	Hamilton	JCS	- (1952)	5051
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
		-	S	Band freq	Idler	JACS	75 (1953)	1712
		2.5-13 μ	Sol	Freq, Struct	Rosenkrantz	JACS	75 (1953)	903
$C_{29}H_{48}O$	Δ^{4}-Stigmastenone-3	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{29}H_{48}O$	5β-Stigmast-22-en-3-one	5.5-10.75 μ	Sol	Anal, Spec	Slomp	JACS	77 (1955)	1216
$C_{29}H_{48}O$	Δ^{22}-Stigmasten-3-one	5.5-10.75 μ	Sol	Anal	Slomp	JACS	77 (1955)	1216
$C_{29}H_{48}O$	Stigmasterol	-	S	Band freq	Idler	JACS	75 (1953)	1712
		650-1750	S	Spec	Beher	AC	29 (1957)	1147
		2-15 μ	S,Sol	Spec, Anal	Johnson	AC	29 (1957)	468
$C_{29}H_{48}OS$	Cholesteryl thioacetate	670-3700	S	Spec	Bernstein	JOC	16 (1957)	685
$C_{29}H_{48}OS_2$	Cholestane-3,6-dione 3-monoethylene thioketal	-	Sol	Band freq	Fieser	JACS	76 (1954)	1945
$C_{29}H_{48}OS_2$	Δ^{4}-Cholestan-2α-ol-3-one ethylenethioketal	-	Sol	Band freq	Fieser	JACS	75 (1953)	4716
$C_{29}H_{48}OS_2$	Cholesteryl-S-methyl Xanthate	2-9 μ	-	Spec, Group freq	O'Connor	JACS	74 (1952)	5454
$C_{29}H_{48}O_2$	3α-Acetoxy-Δ^{5}-cholestene	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		-	S	Group freq	Fieser	JACS	75 (1953)	4377
$C_{29}H_{48}O_2$	3β-Acetoxy-Δ^{1}-cholestene	-	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{29}H_{48}O_2$	3β-Acetoxy-Δ^{4}-cholestene	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357

$C_{29}H_{48}O_2$	3β-Acetoxy-Δ^{6}-cholestene	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JCS	74 (1952)	5357
		650-3100	Sol	Band freq, I	Henbest	JCS	- (1954)	800
		-	Sol	Group freq	James	JCS	- (1955)	1370
$C_{29}H_{48}O_2$	3β-Acetoxy-Δ^{7}-cholestene	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{29}H_{48}O_2$	3β-Acetoxy-cholestene-$\Delta^{17(20)}$	-	-	Ident	Cardwell	JCS	- (1953)	361
$C_{29}H_{48}O_2$	Δ^{2}-Cholesten-3-ol-acetate	700-1400	Sol	Spec, Ident	Jones	JACS	78 (1956)	1152
$C_{29}H_{48}O_2$	Δ^{4}-Cholesten-6α-ol acetate	-	-	Ident	Becker	JOC	20 (1955)	353
$C_{29}H_{48}O_2$	Δ^{5}-Cholesten-3β-ol acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		2-15 μ	Sol	Spec, Struct	Fontaine	JACS	73 (1951)	878
		25-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
		-	Sol	Table	Jones	JACS	74 (1952)	5662
		825-1000	Sol	Spec, Anal	Wall	AC	24 (1952)	1337
		700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152
		400-4000	Sol	Spec	Cummins	JCS	- (1957)	3847
		-	-	IR discussed	Morcillo	ARS	53B (1957)	145
$C_{29}H_{48}O_2$	$\Delta^{8(14)}$-Cholestenol-3β acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{29}H_{48}O_2$	Δ^{14}-Cholestenol-3β acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		1580-3100	Sol	Group study, I	Jones	JACS	72 (1950)	86
		700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{29}H_{48}O_2$	3,5-Cyclo-6α-cholestanol acetate	3-12 μ	Sol	Spec	Wagner	JOC	17 (1952)	529
$C_{29}H_{48}O_2$	3,5-Cyclo-6β-cholestanol acetate	3-12 μ	Sol	Spec	Wagner	JOC	17 (1952)	529

$C_{29}H_{48}O_2$	3β-Hydroxy-4,4-dimethyl-15-keto-$\Delta^{8(14)}$-cholestene	-	-	Group freq	Woodward	JACS	76 (1954)	2852
$C_{29}H_{48}O_2$	3β-Hydroxy-30-norlupan-20-one	1350-1500	Sol	Spec, Ident	Cole	JCS	- (1956)	1007
$C_{29}H_{48}O_2$	3β-Methoxy-14-methyl-cholest-7-en-15-one	-	Sol	Freq	Page	JCS	- (1955)	2017
$C_{29}H_{48}O_2$	Sitostanedione-3,6	1700	Sol	Freq, Struct, Anal	Jones	JACS	71 (1949)	241
$C_{29}H_{48}O_2S_2$	Ketone 104 ethylene thioketal	-	Sol	Band freq	Fieser	JACS	75 (1953)	4418
$C_{29}H_{48}O_3$	3β-Acetoxycholestanone-6	- -	Sol -	Band freq Group freq	Anagnostopoulos Corey	JACS JACS	76 (1954) 76 (1954)	532 175
$C_{29}H_{48}O_3$	3β-Acetoxy-Δ^6-cholestenol-5α	650-3100	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{29}H_{48}O_3$	Cholestan-3α-ol-6-one acetate	-	Sol	Band freq	Anagnostopoulos	JACS	76 (1954)	532
$C_{29}H_{48}O_3$	Cholestanol-3β-one-7-acetate	- 400-4000	S,Sol Sol	Group freq Spec	Tarpley Cummins	APS JCS	9 (1955) - (1957)	69 3847
$C_{29}H_{48}O_3$	Δ^5-Cholestene-3,4-dione 3-dimethyl ketal	-	Sol	Band freq	Fieser	JACS	76 (1954)	1728
$C_{29}H_{48}O_3$	Δ^5-Cholesten-4α-ol-3-one ethylene ketal	-	Sol	Band freq	Fieser	JACS	76 (1954)	1728
$C_{29}H_{48}O_3$	14-Methyl-3-oxo-A-nor-coprostan-5β-yl acetate	-	Sol	Band freq, Struct	Barton	JCS	- (1954)	903
$C_{29}H_{48}O_4$	Alcohol 104 acetate	-	Sol	Band freq	Fieser	JACS	75 (1953)	4418
$C_{29}H_{48}O_4$	Dimethyl Δ^4-Cholestene 6, 7-dicarboxylate	-	-	Group freq, Ident	Gates	JOC	20 (1955)	610

$C_{29}H_{48}O_4$	Dimethyl 3,5-Cyclocholestane -6, 7-dicarboxylate	-	-	Group freq, Ident	Gates	JOC	20 (1955)	610
$C_{29}H_{48}O_4$	Methyl 5α-hydroxy-6-ketocholestane-3β-carboxylate	-	Sol	Group freq	Roberts	JCS	- (1954)	3178
$C_{29}H_{49}BrO_2$	2β-Bromocholestane-3β-ol acetate	-	-	Band study	Fieser	JACS	75 (1953)	1704
$C_{29}H_{49}Cl$	3β-Chlorostigmast-5-ene	400-1400	Sol	Freq	Barton	JCS	- (1956)	331
$C_{29}H_{49}ClO_2$	2α-Chlorocholestan-3β-ol acetate	-	-	Ident	Beereboom	JACS	75 (1953)	3500
$C_{29}H_{49}ClO_2$	3β-Chlorocoprostan-6β-yl acetate	400-1400	Sol	Group freq	Barton	JCS	- (1956)	331
$C_{29}H_{49}ClO_3$	3β-Acetoxy-6α-chloro cholestan-5α-ol	-	Sol	Freq	Henbest	JCS	- (1958)	2633
$C_{29}H_{49}ClO_3$	6β-Chloro-5α-hydroxy-cholestan-3β-yl acetate	400-1400	Sol	Freq	Barton	JCS	- (1956)	331
$C_{29}H_{49}FO_3$	3β-Acetoxy-6β-fluoro-cholestan-5α-ol	-	Sol	Freq	Henbest	JCS	- (1958)	2633
$C_{29}H_{49}NO_8$	Erythralosamine	-	-	Ident	Flynn	JACS	76 (1954)	3121
$C_{29}H_{50}O$	3β-Acetylcholestane	-	-	Freq	Corey	JACS	75 (1953)	6234
$C_{29}H_{50}O$	3α-Sitosterol	10-13 μ	-	Spec, Band freq	Idler	JACS	75 (1953)	4325
$C_{29}H_{50}O$	β-Sitosterol	-	Sol	Freq	Cole	JACS	74 (1952)	5571
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
		-	S	Band freq	Idler	JACS	75 (1953)	1712
		10.0-10.75 μ	Sol	Anal	Beher	AC	29 (1957)	1147
		650-1750	S	Spec	Johnson	AC	29 (1957)	468
		650-1350	Sol	Generalization	Jones	JACS	80 (1958)	6121
$C_{29}H_{50}O$	γ-Sitosterol	-	S	Band freq	Idler	JACS	75 (1953)	1712
		10.0-10.75 μ	Sol	Anal	Johnson	AC	29 (1957)	468

$C_{29}H_{50}O$	$\Delta^{8:14}$-Sitosterol	-	S	Band freq	Idler	JACS	75 (1953)	1712
$C_{29}H_{50}O$	Δ^{7}-Stigmastenol	10-13 μ	Sol	Band freq	Idler	JACS	75 (1953)	4325
$C_{29}H_{50}O$	Δ^{22}-Stigmastenol-3β	-	Sol	Freq	Cole	JACS	74 (1952)	5571
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
		650-1350	Sol	Generalization	Jones	JACS	80 (1958)	6121
$C_{29}H_{50}O$	Δ^{22}-5-Isostigmastenol-3α	-	Sol	Freq	Cole	JACS	74 (1952)	5571
		900-3700	Sol	Spec, Freq	Jones	JACS	74 (1952)	5648
$C_{29}H_{50}OS$	Cholestan-3-one ethylene hemithioketal	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3704
$C_{29}H_{50}OS_2$	Cholestan-2α-ol-3-one ethylene thioketal	-	Sol	Band freq	Fieser	JACS	75 (1953)	4716
$C_{29}H_{50}O_2$	3β-Carbomethoxycholestane	-	Sol	Ident	Corey	JACS	75 (1953)	6234
$C_{29}H_{50}O_2$	Cholestanol-2α acetate	-	-	Struct, Band study	Barton	JCS	- (1953)	1027
$C_{29}H_{50}O_2$	Cholestanol-2β acetate	-	-	Struct	Barton	JCS	- (1953)	1027
$C_{29}H_{50}O_2$	Cholestan-3α-ol acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		1155-1280	Sol	Band study, I	Jones	JACS	73 (1951)	3215
		1200-1280	Sol	Spec	Dauben	JACS	74 (1952)	5206
		-	-	Band study	Barton	JCS	- (1953)	1027
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152
$C_{29}H_{50}O_2$	Cholestan-3β-ol acetate	-	-	Assign	Jones	JACS	70 (1948)	2024
		1150-1280	Sol	Band I	Jones	JACS	73 (1951)	3215
		1200-1280	Sol	Spec	Dauben	JACS	74 (1952)	5206
		2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
		-	-	Band study	Barton	JCS	- (1953)	1027
		-	-	Ident	Cardwell	JCS	- (1953)	361
		-	Sol	Band freq, I	Henbest	JCS	- (1954)	800
		700-1400	Sol	Ident	Jones	JACS	78 (1956)	1152
		400-4000	Sol	Spec	Cummins	JCS	- (1957)	3847

		-	Sol	Band study	Henbest	JCS	-	(1958)	2633
$C_{29}H_{50}O_2$	Cholestanol-4α acetate	-	-	Band study	Barton	JCS	-	(1953)	1027
		-	Sol	Band study	Page	JCS	-	(1955)	2017
$C_{29}H_{50}O_2$	Cholestanol-4β acetate	-	-	Band study	Barton	JCS	-	(1953)	1027
		-	Sol	Band study	Page	JCS	-	(1955)	2017
$C_{29}H_{50}O_2$	Coprostanol-3α acetate	1195-1270	Sol	Band I	Jones	JACS	73	(1951)	3215
		-	-	Band study	Barton	JCS	-	(1953)	1027
		700-1400	Sol	Ident	Jones	JACS	78	(1956)	1152
$C_{29}H_{50}O_2$	Coprostanol-3β acetate	1195-1280	Sol	Band I	Jones	JACS	73	(1951)	3215
		-	-	Band study	Barton	JCS	-	(1953)	1027
		700-1400	Sol	Ident	Jones	JACS	78	(1956)	1152
$C_{29}H_{50}O_2$	Lupane-3β,28-diol	3600-3650	Sol	Freq	Cole	JCS	-	(1959)	1218
$C_{29}H_{50}O_2$	α-Tocopherol	6-10.5 μ	-	Spec	Stern	JACS	69	(1947)	869
		2-10 μ	L	Spec	Boyer	JACS	73	(1951)	733
		2-16 μ	-	Spec	Issidorides	JACS	73	(1951)	5146
		0.9-3 μ	Sol	Spec	Holman	AC	28	(1956)	1533
$C_{29}H_{50}O_3$	3β-Acetoxycholestan-5α-ol	-	Sol	Band study	Henbest	JCS	-	(1958)	2633
$C_{29}H_{50}O_3$	Cholestan-5α,6α-diol 6α-acetate	-	-	Ident	Becker	JOC	20	(1955)	353
$C_{29}H_{50}O_3$	Δ^5-Cholesten-4α-ol-3-one dimethyl ketal	-	Sol	Band freq	Fieser	JACS	76	(1954)	1728
$C_{29}H_{50}O_3$	2α,5α-Dihydroxycholestane 2-monoacetate	-	Sol	Band freq	Conca	JOC	18	(1953)	1104
$C_{29}H_{50}O_3$	Methyl 5α-hydroxycholestane -3β-carboxylate	-	Sol	Group freq	Roberts	JCS	-	(1954)	3178
$C_{29}H_{50}O_3$	α-Tocopheroxide	2-10 μ	L	Spec	Boyer	JACS	73	(1951)	733
$C_{29}H_{50}O_3$	α-Tocopherylquinone	2-10 μ	L	Spec	Boyer	JACS	73	(1951)	733

		2-16 μ	-	Spec	Issidorides	JACS	73 (1951)	5146
		1600-1800	Sol	Freq	Fuson	JACS	76 (1954)	2526
$C_{29}H_{50}O_4$	Dimethyl 2,3-seco-cholestane-2,3-dioate	-	Sol	Freq, Ident	Smith	JACS	76 (1954)	6119
$C_{29}H_{50}O_5$	Dimethyl 3β-hydroxycholestane -6, 7-dicarboxylate	-	-	Group freq	Gates	JOC	20 (1955)	610
$C_{29}H_{51}N$	3β-Dimethylamino-cholest-5-ene	-	-	Band freq, Struct	Haworth	JCS	- (1953)	1102
$C_{29}H_{51}N$	3α-Dimethylamino-cholest-5-ene	2900-3100	Sol	Group freq	Hill	JCS	- (1958)	760
$C_{29}H_{52}O$	Stigmastanol	625-5000	S	Ident, Spec	Idler	JACS	75 (1953)	1712
$C_{29}H_{52}O_2$	3,3-Dimethoxycholestane	660-1400	Sol	Spec, Band freq	Page	JCS	- (1955)	2017
$C_{29}H_{52}O_3$	α-Tocopherylhydroquinone	2-12 μ	S	Spec	Rosenkrantz	JACS	72 (1950)	3304
$C_{29}H_{54}$	8-(9-Heptadecyl) [3.0,3.2] tricyclododecane	3.4-14.7 μ	Sol	Anal	Francis	AC	25 (1953)	1466
$C_{29}H_{55}NO_{10}$	X-o-Desosaminyl-dihydroerythronolide	-	-	Freq	Wiley	JACS	77 (1955)	3676
$C_{29}H_{58}$	11-(2,4-Dimethylcyclo-pentylmethyl)heneicosane	12.6-14.7 μ	Sol	Anal, Struct	Francis	AC	25 (1953)	1466
$C_{29}H_{58}$	11-(2,5-Dimethylcyclo-11-hexyl)heneicosane	1.1-1.25 μ	L	Anal	Evans	AC	23 (1951)	1604
$C_{29}H_{60}$	n-Nonacosane	5400-8900	Sol	Spec, Assign	Rose	JRNB	19 (1937)	143
		750-1200	S	Struct	Snyder	JCP	27 (1957)	969
		700-1500	S	Freq, Assign	Snyder	JMS	4 (1960)	411
$C_{29}H_{60}O$	d-n-Nonacosan-10-ol	-	-	Ident	Bentley	JCS	- (1955)	596
$C_{29}H_{60}Si$	Cyclopentamethylene-didodecylsilane	2-35 μ	L	Assign	Oshesky	JACS	79 (1957)	2057

$C_{30}H_{14}$	Dibenzcoronene	670-2000	S	Spec	Cannon	SA	4 (1951)	373
$C_{30}H_{14}O_2$	Pyranthrone	-	S	Band freq	Hadzi	JACS	73 (1951)	5460
		6000	S,Sol	Absorption	Akamatu	JCP	20 (1952)	1481
		650-2000	S	Spec, Freq	Durie	AJC	10 (1957)	429
$C_{30}H_{18}N_2O_4$	N,N'-Dimethylindanthrone	5.9-8.5 μ	S	Spec, Struct	Wyman	JACS	78 (1956)	4599
$C_{30}H_{18}O_3$	9-Anthroic anhydride	-	-	Band freq	Greene	JACS	77 (1955)	3852
$C_{30}H_{18}O_3$	9-Anthroic anhydride photomeride	-	-	Struct, Freq	Greene	JACS	77 (1955)	3852
$C_{30}H_{18}O_4$	2,2'-Dimethyl-1,1'-dianthroquinoyl	650-2000	S	Spec, Freq	Durie	AJC	10 (1957)	429
$C_{30}H_{20}Br_2O_8$	Dibromoerythroaphin-fb	666-1626	S	Table	Brown	JCS	- (1955)	954
$C_{30}H_{20}Br_2O_8$	Dibromoerythroaphin-sl	667-1626	S	Table	Brown	JCS	- (1955)	954
$C_{30}H_{20}O_2$	9-Anthraldehyde dimer	-	-	Group freq	Greene	JACS	77 (1955)	3852
$C_{30}H_{20}O_9$	5,5'-Di-C-benzylellagic acid-4-monoacetate	5.0-6.15 μ	S	Struct	Still	JACS	81 (1959)	4615
$C_{30}H_{22}$	1,2-Di-9'-anthranylethane	3-15 μ	S	Spec, Group freq	Roitt	JCS	- (1952)	2695
$C_{30}H_{22}$	10,10'-dimethyl-9,9'-	3-15 μ	S	Spec, Group freq	Roitt	JCS	- (1952)	2695
$C_{30}H_{22}$	1,3-Di-(2-xenyl)benzene	5-38 μ	S	Spec, Freq, Assign	Stewart	JRNB	60 (1958)	125
$C_{30}H_{22}$	1-(2-xenyl)-3-(4-xenyl) benzene	5-38 μ	S	Spec, Freq, Assign	Stewart	JRNB	60 (1958)	125
$C_{30}H_{22}$	1-(3-xenyl)-3-(4-xenyl) benzene	5-38 μ	S	Spec, Freq, Assign	Stewart	JRNB	60 (1958)	125
$C_{30}H_{22}Br_2N_2O_8 \cdot C_5H_5N$	Diaminodibromo-erythroaphin-fb	666-1631	S	Table	Brown	JCS	- (1955)	954

$C_{30}H_{22}Cl_2N_2O_8S_4$	N,N,N',N'-Tetrabenzenesulfonyl-2,3-dichloro-p-phenylenediamine	680-1380	S	Band freq	Adams	JACS	74 (1952)	2608
$C_{30}H_{22}N_2O_2$	2-Phenyl-3-(1-phenyl-2-phthalimidoethyl) indole	-	S,Sol	Group freq	Noland	JACS	81 (1959)	1203
$C_{30}H_{22}N_2O_4$	1,4-Bis methylbenzamido -anthraquinone	1648-1663	-	Group freq	Flett	JCS	- (1948)	1441
$C_{30}H_{22}N_4$	1,1',3',5-Tetraphenyl-3,5'-bipyrazolyl	650-1600	S	Band freq	Finar	JCS	- (1955)	1205
$C_{30}H_{22}N_4$	1,1',5,5'-Tetraphenyl-3,3'-bipyrazolyl	650-1600	S	Band freq	Finar	JCS	- (1955)	1205
$C_{30}H_{22}O_2$	5-Benzylidene-4-hydroxy 2,3,4-triphenyl-Δ^2-cyclopentenone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{30}H_{22}O_2$	9-Methylanthracene photoxide	850-1300	-	Group freq	Nikitin	OS	4 (1958)	702
$C_{30}H_{22}O_4$	4,4'-Bis(benzoylacetyl) biphenyl	1500-3500	S	Freq, Assign, Struct	Martin	JACS	80 (1958)	4891
$C_{30}H_{22}O_4$	1,1,2,2-Tetrabenzoyl-ethane	1.5-2.5 μ	Sol	Freq, Assign	Martin	JACS	81 (1959)	130
$C_{30}H_{22}O_8$	3,3'-Di-o-methyl-5,5'-di-C-benzylellagic acid	5.0-6.15 μ	S	Struct	Stitt	JACS	81 (1959)	4615
$C_{30}H_{22}O_8$	Erythroaphin (sm,fb, en,ce)	670-3500	S	Spec	Johnson	JCS	- (1951)	2633
		-	S	Ident of fb	Brown	JCS	- (1952)	4928
$C_{30}H_{22}O_8$	cis-cis-Erythroaphin-fb	-	-	Ident	Brown	JCS	- (1955)	954
		-	S	Group freq, Struct	Brown	JCS	- (1955)	959
		750-1350	S	Spec, Band freq	Brown	JCS	- (1955)	1144

$C_{30}H_{22}O_8$	cis-trans-Erythroaphin -sl	670-3500	S	Spec, Struct	Johnson	JCS	-	(1951)	2633
		-	S	Ident	Brown	JCS	-	(1955)	954
		-	S	Group freq, Struct	Brown	JCS	-	(1955)	959
		750-1350	S	Spec, Band freq	Brown	JCS	-	(1955)	1144
$C_{30}H_{22}O_8$	trans-trans-Erythroaphin	750-1350	S	Spec, Band freq	Brown	JCS	-	(1955)	1144
$C_{30}H_{22}O_9$	Hydroxyerythroaphin-fb	721-3226	S	Band freq, Table	Brown	JCS	-	(1952)	4928
		-	S	Ident	MacDonald	JCS	-	(1954)	2378
		-	-	Band freq, Ident	Brown	JCS	-	(1955)	954
$C_{30}H_{22}O_9$	Hydroxyerythroaphin-sl	721-3226	S	Band freq, Ident	Brown	JCS	-	(1955)	954
$C_{30}H_{22}O_{10}$	Dihydroxyerythroaphin-fb	699-3268	S	Band freq	Brown	JCS	-	(1952)	4928
		-	S	Group study	MacDonald	JCS	-	(1954)	2378
		700-3333	S	Table	Brown	JCS	-	(1955)	954
$C_{30}H_{22}O_{11}$	Rhodoaphin-be	-	S	Ident, Group study	MacDonald	JCS	-	(1954)	2378
$C_{30}H_{24}N_2O_8S_4$	2,X-Bis(benzenesulfonyl) -p-phenylenedibenzene-sulfonamide	-	-	Ident	Adams	JACS	75	(1953)	3235
$C_{30}H_{24}N_2O_8 \cdot H_2O$	Diaminoerythroaphin-fb-hydrate	697-1629	S	Band freq	Brown	JCS	-	(1952)	4928
		697-3333	S	Table	Brown	JCS	-	(1952)	4928
$C_{30}H_{24}O$	1-Methyl-2,3,4,5-tetra-phenylcyclopenta-2,4-dien-1-ol	2-15 μ	Sol	Spec, Group freq	Sonntag	JACS	75	(1953)	2283
$C_{30}H_{24}OSi$	Di-2-biphenylylsilanol	-	S	Group freq	Gilman	JOC	20	(1955)	862
$C_{30}H_{24}O_2$	Bis-9-hydroxymethyl-anthracene	-	-	Ident	Greene	JACS	77	(1955)	3852
$C_{30}H_{26}N_2$	Diphenyl ketene-N-methyl-imine dimer	-	-	Band freq	Stevens	JACS	76	(1954)	4398
$C_{30}H_{26}N_2O_2$	1-threo-5-Benzylidene-amino-4-(p-benzylidene-aminophenyl)-2-phenyl-1,3-dioxane	-	-	Group freq	Edgerton	JOC	19	(1954)	593

$C_{30}H_{26}N_4O_4$	Usnic acid phenylhydrazone anhydrophenylhydrazone	-	Sol	Group freq	Barton	JCS	- (1953)	603
$C_{30}H_{26}OSi_2$	Pentaphenylhydroxydisilane	-	-	Group study	Gilman	JACS	75 (1953)	1250
$C_{30}H_{26}O_2$	Biphenylene (o-duroyl-phenyl)carbinol	-	-	Group freq	Fuson	JOC	19 (1954)	674
$C_{30}H_{26}O_4$	dl-1,6-Di-o-hydroxy-phenyl-3,4-diphenyl-hexane-1,6-dione	-	-	Group freq	Jack	JCS	- (1954)	3684
$C_{30}H_{26}O_4$	meso-1,6-Di-o-hydroxy-phenyl-3,4-diphenyl-hexane-1,6-dione	-	-	Group freq	Jack	JCS	- (1954)	3684
$C_{30}H_{26}O_4$	Flavpinacol	-	-	Group freq	Jack	JCS	- (1954)	3684
$C_{30}H_{26}O_5$	Di-o-Carbomethoxy-benzhydryl ether	600-4000	Sol	Spec, Group freq	Curtin	JOC	19 (1954)	352
$C_{30}H_{28}$	Cyclo-di-(4,4'-dibenzyl-methane)	3-12 μ	Sol	Spec	Steinberg	JACS	74 (1952)	5388
$C_{30}H_{28}N_2O_4$	4,9-Dihydroxy-1,6-dipiperidinoperylene-3,10-quinone	752-3344	S	Table	Calderbank	JCS	- (1954)	1285
$C_{30}H_{28}O$	p-t-Butylphenyl trityl ketone	-	-	Group freq, Ident	Fuson	JACS	77 (1955)	1138
$C_{30}H_{28}O_4$	Tetraanisylethylene	1000-1700	Sol	Band freq, Ident	Buckles	JACS	82 (1960)	2444
$C_{30}H_{28}O_5$	4'-Methoxy-2,2,2-t-trianisylacetophenone	1000-1700	Sol	Band freq, Ident	Buckles	JACS	82 (1960)	2444
$C_{30}H_{29}NO_7$	2-Veratroyl-3,5-bis(3,4-dimethoxyphenyl)pyridine	-	-	Group freq	Eliel	JACS	75 (1953)	4291
$C_{30}H_{30}$	p,p'-Bis-(4-methylbenzyl) dibenzyl	3-12 μ	Sol	Spec	Steinberg	JACS	74 (1952)	5388
$C_{30}H_{30}NO_5P$	N-Dibenzylphosphoryl-dl-phenylalanine benzyl	3-15 μ	S,L	Spec, Freq	Li	JACS	77 (1955)	3519

$C_{30}H_{30}NO_5P$	N-Dibenzylphosphoryl-dl-phenylalanine benzyl ester	3-15 μ	S,L	Spec, Freq	Li	JACS	77 (1955)	3519
$C_{30}H_{30}O_6$	1,1,2,2-Tetraanisyl-1,2-ethanediol	1000-1700	Sol	Band freq, Ident	Buckles	JACS	82 (1960)	2444
$C_{30}H_{30}O_8$	Gossypol	2-12 μ	Sol	Spec, Struct, Group freq	O'Connor	JACS	76 (1954)	2368
$C_{30}H_{30}O_{16}$	Octa-o-acetyltetra-hydroosperein	-	-	Ident	Lloyd	JCS	- (1955)	2163
$C_{30}H_{32}OSi$	Triphenylsilylhexyl phenyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{30}H_{32}O_3$	1-(p-Duroylphenyl)-3-duryl-1,3-propanedione	-	-	Group freq	Fuson	JACS	77 (1955)	3776
$C_{30}H_{34}N_6O_{10}S_2$	α-Aminomethyl-δ-amino-valeric acid di-(p-hydroxyazobenzene-p'-sulfonate)	2-16 μ	S	Spec, Struct	Van Tamelen	JACS	75 (1953)	2031
$C_{30}H_{34}N_6O_{10}S_2$	Isolysine di-(p-hydroxy-azobenzene-p'-sulfonate)	2-16 μ	S	Spec, Struct, Ident	Van Tamelen	JACS	75 (1953)	2031
$C_{30}H_{35}NO_3$	Dehydroepiandrosterone α-naphthylurethan	-	S	Group freq, I	Werbin	JACS	77 (1955)	4431
$C_{30}H_{35}NO_3$	Testosterone-α-naphthylurethan	-	S	Group freq, I	Werbin	JACS	77 (1955)	4431
$C_{30}H_{36}$	Cyclotriaconta-1,3,11,13,21,23-hexayne	3-15 μ	S	Spec	Wolovsky	JACS	81 (1959)	4600
$C_{30}H_{36}N_2O_7S$	Methyl reserpate-o-tosylate	-	Sol	Ident	Neuss	JACS	77 (1955)	4087
$C_{30}H_{36}O_7S$	dl-Ethylenedioxy-16-tosyloxy-14β-15,16-pregnadiene-11,20-dione	-	S	Freq	Arth	JACS	77 (1955)	3834
$C_{30}H_{36}O_7S$	dl-3-Ethylenedioxy-13α-16-tosyloxypregna-5,16-diene-11,20-dione	-	S	Freq	Arth	JACS	77 (1955)	3834

$C_{30}H_{36}O_7S$	dl-3-Ethylenedioxy-16-tosyloxy-5,16-pregnadiene-11,20-dione	-	S	Freq	Arth	JACS	77 (1955)	3834
$C_{30}H_{37}NO_3$	Etiocholan-17β-ol-3-one -α-naphthylurethane	-	S	Group freq, I	Werbin	JACS	77 (1955)	4431
$C_{30}H_{38}O_6$	Allopregnane-11α,21-diol-3,20-dione-11-acetate	-	Sol	Freq	Sondheimer	JACS	75 (1953)	2601
$C_{30}H_{38}O_7$	3β,16-Diacetoxy-$\Delta^{14(15),20,22}$-bufatrienolide	1000-1900	Sol	Spec, Group freq	Jones	JACS	81 (1959)	5242
$C_{30}H_{38}O_8$	1,4-Diacetoxy-1,4-di-(2-acetoxy-3,4,6-trimethylphenyl)butane	-	-	Spec, Band freq, Struct	Smith	JACS	73 (1951)	3851
$C_{30}H_{38}O_{13}$	Pentaacetylglaucarubol	-	-	Group study	Ham	JACS	76 (1954)	6066
$C_{30}H_{40}OSi$	Triphenylsilyldecyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{30}H_{40}OSi$	Triphenylsilyloctyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{30}H_{40}OSi$	Triphenylsilylundecyl methyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{30}H_{40}O_3S$	3-Benzylthio-Δ^5-pregnene-7-one-20β-ol acetate	-	S	Group freq	Romo	JOC	17 (1952)	1413
$C_{30}H_{40}O_4$	16α-Benzyloxy-Δ^5-pregnenol-3β-one-20 acetate	- 2.5-15 μ	- Sol	Band freq, Group freq Spec, Band freq	Hirschmann Hirschmann	JACS JACS	74 (1952) 74 (1952)	539 5357
$C_{30}H_{40}O_4$	Δ^4-Pregnene-16α-benzyloxy-3,20-dione-20-ethylene ketal	-	S	Band freq	Bernstein	JACS	76 (1954)	5674

$C_{30}H_{40}O_4$	Pristimerin	-	S,Sol	Group freq, Struct	Nakanishi	JACS	29 (1955)	7
		2-12 μ	Sol	Spec, Struct	Nakanishi	BCSJ	77 (1956)	3169
$C_{30}H_{40}O_7S$	Δ^5-Androsten-11α-ol-3, 17-dione-11-p-toluene-sulfonate-3,17-bisethylene ketal	-	S	Group freq	Bernstein	JOC	19 (1954)	41
$C_{30}H_{40}O_7S$	2β-4b-Dimethyl-1β-(2-tosyloxyethyl)-2-acetonyl-7-ethylenedioxy-1,2,3,4, 4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4-one	-	-	Band freq	Johns	JACS	76 (1954)	5026
$C_{30}H_{42}N_3B_3$	B-Tributyl-N-triphenyl-borazole	-	Sol	Struct	Watanabe	SA	16 (1960)	78
$C_{30}H_{42}O_3$	3-i-Propylidene-A-nor-30, 31-bisnorlanosta-5,8-diene-7,11,12-trione	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{30}H_{42}O_3$	Lanosta-2,5,8-triene-7,11,12-trione	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{30}H_{42}O_4$	3β-Acetoxyergosta-5,8(9), 22-triene-7,11-dione	-	S	Group freq, I	Elks	JCS	- (1954)	451
$C_{30}H_{42}O_4$	Dumartierigenindione	-	Sol	Band freq	Djerassi	JACS	76 (1954)	2969
$C_{30}H_{42}O_4$	Δ^5-Pregnene-16α-benzyloxy-3β-ol-20-one ethylene ketal	-	S	Band freq	Bernstein	JACS	76 (1954)	5674
$C_{30}H_{42}O_4$	Pristimerol	2-14 μ	S	Spec	Nakanishi	BCSJ	29 (1956)	7
$C_{30}H_{42}O_6$	Δ^8-22a,5α-Spirosten-3β-ol-7,11-dione-3-propionate	-	Sol	Band freq	Mancera	JACS	75 (1953)	4428

$C_{30}H_{42}O_7S$	2β,4b-Dimethyl-1β-(2-tosyloxyethyl)-2-acetonyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4α-ol	-	-	Band freq	Johns	JACS	76 (1954)	5026
$C_{30}H_{42}O_{10}$	Ouabagenin monoacetonide diacetate	- 2-16 μ	- -	Ident Spec	Sneeden Djerassi	JACS JOC	75 (1953) 19 (1954)	3510 1351
$C_{30}H_{44}Br_2O_4$	3β-Acetoxy-22,23-dibromo-ergost-8(9)-en-7,11-dione	-	S	Group freq	Elks	JCS	- (1954)	451
$C_{30}H_{44}N_2O_4$	Dumortierigenindione dioxime	-	-	Group study	Djerassi	JACS	76 (1954)	2969
$C_{30}H_{44}N_2O_4$	Pilocereine	2-16 μ	Sol	Spec, Struct, Group freq	Djerassi	JACS	75 (1953)	3632
$C_{30}H_{44}O_2$	Dehydrolumisteryl acetate	-	S	Ident	Bladon	JCS	- (1955)	2176
$C_{30}H_{44}O_2$	4,4'-Dihydroxy-3,3',5,5'-tetra-t-butyldiphenyl-ethylene	2-15 μ	Sol	Spec, Band freq	Bohn	JOC	22 (1957)	458
$C_{30}H_{44}O_2$	3,5,6',8'-Tetra-t-butyl-3',4'-dihydrobenzopyran-2'-spirocyclohexa-3,5-dien-2-one	-	-	Group freq	Moore	JCS	- (1954)	243
$C_{30}H_{44}O_2$	Tetra-t-butylstibenequinone	2-15 μ	Sol	Spec, Band freq	Bohn	JOC	22 (1957)	458
$C_{30}H_{44}O_3$	3β-Acetoxyergosta-5,8(9),22-trien-7-one	- -	S,Sol -	Group freq Ident	Elks Elks	JCS JCS	- (1954) - (1954)	451 463
$C_{30}H_{44}O_3$	3β-Acetoxyergosta-5,9(11),22-trien-7-one	- - -	- S,Sol -	Group freq Group freq Ident	Burke Elks Elks	JCS JCS JCS	- (1953) - (1954) - (1954)	3237 451 463
$C_{30}H_{44}O_3$	3β-Acetoxylumista-5,8(9),22-trien-7-one	685-1736	S,Sol	Group freq, Ident, I	Bladon	JCS	- (1955)	2176
$C_{30}H_{44}O_3$	16β-Hydroxy-3-oxo-20-isoburico-7,9(11)-dien-21-oic acid lactone	-	Sol	Band freq	Bowers	JCS	- (1954)	3070
$C_{30}H_{44}O_3$	Lanosta-5,8-diene-7,11,12-trione	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212

$C_{30}H_{44}O_3$	Lanosta-5,8-diene-7,11,12-trione	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{30}H_{44}O_3$	Δ^{12}-18β-Oleanene-3,16-dion-28-al	-	Sol	Band freq	Djerassi	JACS	76 (1954)	4089
$C_{30}H_{44}O_4$	3β-Acetoxy-5α,8α-epidioxy-$\Delta^{6,9(11),22}$-ergostatriene	650-3100	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{30}H_{44}O_4$	3β-Acetoxyergosta-5,22-diene-7,11-dione	-	S	Group freq	Elks	JCS	- (1954)	451
$C_{30}H_{44}O_4$	13-Carboxy-3β,19-dihydroxy-12-nor-11-oxotaraxast-18-ene lactone	-	Sol	Group freq, Struct	McKean	JCS	- (1954)	1989
$C_{30}H_{44}O_4$	7,15-Dioxoergosta-8(14),22-dien-3β-yl acetate	-	Sol	Group freq	Barton	JCS	- (1954)	52
$C_{30}H_{44}O_4$	3β-Hydroxylanosta-5,8-diene-7,11,12-trione	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{30}H_{44}O_4$	Novic acid	-	Sol	Group freq	Barton	JCS	- (1953)	3111
$C_{30}H_{44}O_5$	3β-Acetoxy-5α-hydroxy-ergosta-8(9),22-diene-7,11-dione	-	S	Group freq	Elks	JCS	- (1954)	451
$C_{30}H_{44}O_5$	Δ^{12}-19,30-Bisnoroleanene-11,18,20-trion-3β-ol acetate	-	Sol	Band freq	Djerassi	JACS	76 (1954)	4085
$C_{30}H_{44}O_5$	Δ^{8}-22-isoallospirosten-3β-ol-11-one propionate	-	S	Freq	Sondheimer	JACS	74 (1952)	2696
$C_{30}H_{44}O_5$	9α,11α-Oxido-Δ^{7}-22a,5α-spirosten-3β-ol propionate	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3496

$C_{30}H_{44}O_5$	Δ^{8}-22a,5α-spirosten-3β-ol-11-one propionate	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3496
$C_{30}H_{44}O_6$	Δ^{8}-22a,5α-spirostene-3β 7-diol-11-one-3-propionate	-	Sol	Band freq	Mancera	JACS	75 (1953)	4428
$C_{30}H_{44}O_{16}$	Ethyl-1,1,3,3-tetra-carbethoxy-2,4-cyclo-butane dimalonate(α-form)	2-13 μ	S	Spec,Struct, Band freq	Reid	JACS	73 (1951)	1985
$C_{30}H_{44}O_{16}$	Ethyl 1,1,3,3-tetra-carbethoxy-2,4-cyclo-butane dimalonate(β-form)	2-13 μ	S	Spec, Struct, Band freq	Reid	JACS	73 (1951)	1985
$C_{30}H_{46}$	1-(p- Diphenyl)-n-octa-decane	5400-8900	Sol	Spec, Assign	Rose	JRNB	19 (1937)	143
$C_{30}H_{46}BrO_7$	12α-Bromo-11-keto-3α-methylsuccinoxycholanic acid methyl ester	-	Sol	Group freq	Jones	JACS	74 (1952)	2828
$C_{30}H_{46}Br_2O_3$	3β-Acetoxy-22,23-dibromo-ergost-9-en-7-one	-	S	Group freq	Elks	JCS	- (1954)	451
$C_{30}H_{46}Br_2O_3$	3β-Acetoxy-22,23-Dibromo-9α-ergost-7-en-11-one	-	Sol	Group freq	Elks	JCS	- (1953)	2933
$C_{30}H_{46}Br_2O_3$	3β-Acetoxy-22,23-dibromo-9β-ergost-7-en-11-one	-	Sol	Group freq	Elks	JCS	- (1953)	2933
$C_{30}H_{46}Br_2O_4$	22,23-Dibromo-7α,8α-epoxy-11-oxoergostan-3β-yl acetate	-	S	Group freq	Grigor	JCS	- (1954)	2333
$C_{30}H_{46}Br_2O_4$	22,23-Dibromo-7β,8β-epoxy-11-oxo-9β-ergostan 3β-yl acetate	-	S	Group freq	Grigor	JCS	- (1954)	2333
$C_{30}H_{46}Br_2O_4$	22,23-Dibromo-7β-hydroxy-11-oxoergost-8-en-3β-yl acetate	-	S	Group freq	Grigor	JCS	- (1954)	2933
$C_{30}H_{46}Cl_2O_3$	3β-Acetoxy-22,23-dichloro-9α,11α-epoxyergost-7-one	-	S	Group freq	Elks	JCS	- (1953)	2933

$C_{30}H_{46}Cl_2O_3$	3β-Acetoxy-22,23-dichloro-9α,11α-epoxyergost-7-ene	-	S	Group freq	Elks	JCS	-	(1953)	2933
$C_{30}H_{46}Cl_2O_3$	3β-Acetoxy-22,23-dichloro-9β-ergost-7-en-11-one	-	Sol	Group freq	Elks	JCS	-	(1953)	2933
$C_{30}H_{46}O$	Lanosta-5,8,11-trien-7-one	2.5-15 μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{30}H_{46}O_2$	Anhydrooxoelemadienol	-	S	Band freq	Halsall	JCS	-	(1953)	4139
$C_{30}H_{46}O_2$	4,4'-Dihydroxy-3,3',5,5'-tetra-t-butyldiphenylethane	2-15 μ	Sol	Spec, Band freq	Bohn	JOC	22	(1957)	458
$C_{30}H_{46}O_2$	$\Delta^{7,14,22}$-Ergostatrienol-3β-acetate	-	S,Sol	Group study	Fieser	JACS	75	(1953)	4404
$C_{30}H_{46}O_2$	16β-Hydroxy-20-isoeburico-7,9(11)-dien-21-oic acid lactone	-	Sol	Band freq, Ident	Bowers	JCS	-	(1954)	3070
$C_{30}H_{46}O_2$	Lumisteryl acetate	-	Sol	Group freq	Jones	JACS	72	(1950)	956
		-	Sol	Group freq	Jones	JACS	74	(1952)	5648
$C_{30}H_{46}O_2$	3,5,3',5'-Tetra-t-butyl 2,2'-dihydroxydibenzyl	-	-	Group freq	Moore	JCS	-	(1954)	243
$C_{30}H_{46}O_2$	Urs-12-en-3,11-dione	1350-1500	Sol	Group study, Group freq	Cole	JCS	-	(1956)	1007
		680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{30}H_{46}O_2S_2$	Di-(2-hydroxy-3,5-di-t-butyl-6-methylphenyl) disulphide	-	Sol,S,L	Struct, Assign	Binder	JACS	81	(1959)	3608
$C_{30}H_{46}O_2S_2$	Di-(4-hydroxy-2-methyl-5-H-octylphenyl) disulphide	-	S,Sol,L	Struct, Assign	Binder	JACS	81	(1959)	3608
$C_{30}H_{46}O_2S_2$	Di-(2-hydroxy-3-H-octyl-5-methylphenyl)disulphide	-	S,Sol,L	Struct, Assign	Binder	JACS	81	(1959)	3608

$C_{30}H_{46}O_3$	Acetoxyanthraergosta-5,7,9-trien-7-ol	-	S	Group freq, I	Bladon	JCS	-	(1955)	2176
$C_{30}H_{46}O_3$	3β-Acetoxyergosta-5,8(9)-dien-7-one	-	S	Group freq, I	Bladon	JCS	-	(1955)	2176
$C_{30}H_{46}O_3$	3β-Acetoxyergosta-7,22-dien-11-one	-	S	Band freq	Bachmann	JACS	75	(1953)	3268
		-	Sol	Group freq	Bladon	JCS	-	(1953)	2921
$C_{30}H_{46}O_3$	3β-Acetoxy-9α-ergosta-7,22-dien-11-one	-	Sol	Group freq	Elks	JCS	-	(1953)	2933
$C_{30}H_{46}O_3$	3β-Acetoxy-9β-ergosta-7,22-dien-11-one	-	Sol	Group freq	Bladon	JCS	-	(1953)	2921
		-	Sol	Group freq	Elks	JCS	-	(1953)	2933
$C_{30}H_{46}O_3$	3β-Acetoxyergosta-8(9),22-dien-7-one	-	S,Sol	Group freq	Elks	JCS	-	(1954)	451
$C_{30}H_{46}O_3$	3β-Acetoxyergosta-8(9),22-dien-11-one	-	S	Band freq	Bachmann	JACS	75	(1953)	3268
		-	S	Group freq	Bladon	JCS	-	(1953)	2921
$C_{30}H_{46}O_3$	3β-Acetoxyergosta-9,22-dien-7-one	-	S,Sol	Group freq	Elks	JCS	-	(1954)	451
$C_{30}H_{46}O_3$	3β-Hydroxyoleana-11,13(18)-dien-28-oic acid	1500-3700	Sol	Group freq	Cole	JCS	-	(1959)	2005
$C_{30}H_{46}O_3$	3-Ketooleanolic acid lactone	-	Sol	Band freq	Djerassi	JACS	76	(1954)	2969
$C_{30}H_{46}O_3$	Lanost-8-ene-3,7,11-trione	2.5-15μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{30}H_{46}O_3$	7-Oxoergosta-8(14),22-dien-3β-yl-acetate	-	S	Group freq	Barton	JCS	-	(1954)	52
		1600-1750	Sol	Freq, Spec	Braude	JCS	-	(1955)	3766
$C_{30}H_{46}O_3$	15-Oxoergosta-8(14),22-dien-3β-yl-acetate	-	Sol	Group freq, Struct	Barton	JCS	-	(1954)	52
		1600-1750	Sol	Freq, Spec	Braude	JCS	-	(1955)	3766
$C_{30}H_{46}O_3$	15-Oxo-14ξ-ergosta-7,22-dien-3β-yl-acetate	-	Sol	Group freq	Barton	JCS	-	(1954)	52
$C_{30}H_{46}O_3$	Thurberogenin	2-15μ	Sol	Spec	Djerassi	JACS	75	(1953)	2254
		-	-	Group freq	Djerassi	JACS	76	(1954)	2969

$C_{30}H_{46}O_3S$ Δ-22a-Spirosten-3-one-trimethylene hemithio- - Sol - Djerassi JACS 75 (1953) 3704

$C_{30}H_{46}O_3S$	Δ-22a-Spirosten-3-one-trimethylene hemithioketal	-	Sol	-	Djerassi	JACS	75 (1953)	3704
$C_{30}H_{46}O_4$	3β-Acetoxy-5α,8α-epidioxy-$\Delta^{6,22}$-ergostadiene	650-3100	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{30}H_{46}O_4$	3β-Acetoxy-5β,8β-epidioxy-lumista-6,22-diene	-	S	Ident	Bladon	JCS	- (1955)	2176
$C_{30}H_{46}O_4$	3β-Acetoxy-9α,11α-epoxy-ergosta-7,22-dien-5α-ol	-	Sol	Group freq	Bladon	JCS	- (1953)	2921
$C_{30}H_{46}O_4$	3β-Acetoxy-7β,8β-epoxy-9β-ergost-22-en-11-one	-	Sol	Group freq	Henbest	JCS	- (1954)	728
$C_{30}H_{46}O_4$	3β-Acetoxy-9α,11α-epoxy-ergost-22-en-7-one	-	S	Ident, Group freq	Elks	JCS	- (1954)	451
$C_{30}H_{46}O_4$	3β-Acetoxy-5α-hydroxy-9β-ergosta-7,22-dien-11-one	-	S	Group freq	Bladon	JCS	- (1953)	2921
$C_{30}H_{46}O_4$	7,11-Diketoergost-5-en-3β-yl acetate	-	Sol	Group freq	Barnes	JCS	- (1953)	1149
$C_{30}H_{46}O_4$	7,15-Dioxo-8α,14β-ergost-22-en-3β-yl acetate	-	Sol	Group freq, Band freq	Barton	JCS	- (1954)	52
$C_{30}H_{46}O_4$	7,15-Dioxo-8β,14α-ergost-22-en-3β-yl acetate	-	Sol	Group freq, Band freq	Barton	JCS	- (1954)	52
$C_{30}H_{46-48}O_4$	Dumortierigenin	-	Sol	Group freq, Struct	Djerassi	JACS	76 (1954)	2969
$C_{30}H_{46}O_4$	7α,8α-Epoxy-15-oxo-14ξ-ergost-22-en-3β-yl acetate	-	Sol	Group freq	Barton	JCS	- (1954)	52
$C_{30}H_{46}O_4$	7α-Hydroxy-15-oxoergosta-8(14),22-dien-3β-yl acetate	-	Sol	Group freq, Struct	Barton	JCS	- (1954)	52

$C_{30}H_{46}O_4$	15ξ-Hydroxy-7-oxoergosta-8(14),22-dien-3β-yl acetate	-	Sol	Group freq	Barton	JCS	- (1954)	52
$C_{30}H_{46}O_4$	8α,14α-Oxide-Δ^{22}-ergostene-3β-ol-7-one acetate	-	Sol	Band freq	Fieser	JACS	75 (1953)	4404
$C_{30}H_{46}O_4$	Thurberogenin oxide	-	Sol	Band freq	Djerassi	JACS	77 (1955)	1200
$C_{30}H_{46}O_5$	3β-Acetoxy-5α-hydroxy-ergost-8(9)-ene-7,11-dione	-	S,Sol	Group freq	Elks	JCS	- (1954)	451
$C_{30}H_{46}O_5$	19,30-Bisnoroleanane-11,18,20-trion-3β-ol acetate	-	Sol	Band freq	Djerassi	JACS	76 (1954)	4085
$C_{30}H_{46}O_5$	8-Epi(α)-9-epi(β)-22-isoallospirostan-3β-ol-11-one propionate	-	S	Freq	Sondheimer	JACS	74 (1952)	2696
$C_{30}H_{46}O_5$	3β-Hydroxy-urs-12-ene-27:28-dioic acid	1500-3700	Sol	Freq	Cole	JCS	- (1959)	2005
$C_{30}H_{46}O_5$	22a,5α-8-Iso(α)-spirostan-3β-ol-11-one-propionate	-	Sol	Band freq, Ident	Djerassi	JACS	75 (1953)	3496
$C_{30}H_{46}O_5$	22a-5α-14-Iso(β)-spirostan-3β-ol-11-one propionate	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3496
$C_{30}H_{46}O_5S_2$	Methyl-3α-acetoxy-11,12-diketocholanate-12-trimethylene thioketal	-	Sol	Group freq	Archer	JACS	76 (1954)	4915
$C_{30}H_{46}O_6$	Methyl-3β-acetoxy-7,11-dioxo-25,26,27-trisnorlanostan-24-oate	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{30}H_{46}O_6$	Methyl-3β-acetoxy-5α,22a-C-norspirostan-11a-oate	-	-	Band freq	Wendler	JACS	77 (1955)	1632

$C_{30}H_{46}O_8S$	5α,22a-Spirostane-3β,11α-diol-12-one-3-acetate-11-methanesulfonate	-	-	Band freq, Iso	Wendler	JACS	77 (1955)	1632
$C_{30}H_{46}O_8S$	5α,22a-Spirostane-11α,12β-diol-3-one-11-methanesulfonate 12-acetate	-	-	Band freq, Group freq	Wendler	JACS	77 (1955)	1632
$C_{30}H_{47}D_3O_2$	Δ^{22}-5-Isoergostenol-3α-acetate-d_3	-	Sol	Group freq	Jones	JACS	74 (1952)	5662
$C_{30}H_{47}BrO$	2α-Bromo-β-amyr-12-en-3-one	-	Sol	Group freq	Cookson	JCS	- (1954)	282
$C_{30}H_{47}BrO_2$	2α-Bromoallobetulone	400-4000	Sol	Spec, Ext. Coefficient	Cummins	JCS	- (1957)	3847
$C_{30}H_{47}BrO_3$	12α-Bromo-3β,13β-dihydroxyoleanan-28-oic-13(28)-lactone	1350-1500	Sol	Group freq	Cole	JCS	- (1956)	1007
$C_{30}H_{48}$	3-isopropylidene-A-nor-30,31-bisnorlanosta-7,9(11)-diene	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{30}H_{48}$	Δ^{2}-4-Methylene-3-deoxo-friedelene	-	-	Freq	Corey	JACS	77 (1955)	3667
$C_{30}H_{48}$	Ursa-2,12-diene	680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{30}H_{48}$	Ursa-9(11),12-diene	680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{30}H_{48}Br_2O_3$	3β-Acetoxy-22,23-dibromo-9α-ergostan-11-one	-	Sol	Group freq	Elks	JCS	- (1953)	2933
$C_{30}H_{48}Br_2O_3$	3β-Acetoxy-22,23-dibromo-9β-ergostan-11 one	-	Sol	Group freq	Elks	JCS	- (1953)	2933
$C_{30}H_{48}Cl_2O_3$	3β-Acetoxy-22,23-dichloro-9α-ergostan-11-one	-	Sol	Group freq	Elks	JCS	- (1953)	2933
$C_{30}H_{48}Cl_2O_3$	3β-Acetoxy-22,23-dichloro-9β-ergostan-11-one	-	Sol	Group freq	Elks	JCS	- (1953)	2933

$C_{30}H_{48}O$	β-Amyr-12-en-3-one	-	Sol	Group freq	Cookson	JCS	-	(1954)	282
$C_{30}H_{48}O$	δ-Amyr-13(18)-en-3-one	-	-	Ident	Halsall	JCS	-	(1954)	1902
$C_{30}H_{48}O$	Cycloartenone	5-12 μ	Sol	Spec, Band freq	Barton	JCS	-	(1951)	1444
		2700-3100	Sol	Band freq, Spec	Cole	JCS	-	(1954)	3810
		2.5-15 μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{30}H_{48}O$	Heterolupenal	-	-	Group freq	Ames	JCS	-	(1954)	1905
$C_{30}H_{48}O$	Lup-20(29)-en-3-one	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{30}H_{48}O$	3β-Methoxy-11α-methyl-ergosta-6,8,22-triene	650-900	Sol	Spec	Henbest	JCS	-	(1957)	997
$C_{30}H_{48}O$	Δ^{5}-4-Methylfriedelene	-	-	Freq	Corey	JACS	77	(1955)	3667
$C_{30}H_{48}O$	Phyllanthone	-	Sol	Group freq	Cole	JCS	-	(1954)	3810
$C_{30}H_{48}O$	ψ-Tarazastenone	-	-	Ident	Halsall	JCS	-	(1954)	1902
$C_{30}H_{48}O$	Urs-12-en-3-one	1350-1500	Sol	Group freq	Cole	JCS	-	(1956)	1007
		1350-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{30}H_{48}O$	Urs-12-en-11-one	1350-1500	Sol	Spec, Group freq	Cole	JCS	-	(1956)	1007
		680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{30}H_{48}O_2$	Allobetulone	400-4000	Sol	Spec, Ext. Coefficient	Cummins	JCS	-	(1957)	3847
$C_{30}H_{48}O_2$	Anhydrooxoelemenol	-	Sol	Band freq	Halsall	JCS	-	(1953)	4139
$C_{30}H_{48}O_2$	$\Delta^{7,22}$-Ergostadienol-3β-acetate	-	-	Ident	Nes	JOC	18	(1953)	276
$C_{30}H_{48}O_2$	$\Delta^{8(14),22}$-Ergostadienol 3β-acetate	-	-	Ident, Band freq	Nes	JOC	18	(1953)	276
$C_{30}H_{48}O_2$	Lanost-8-ene-3,7-dione	2.5-15 μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{30}H_{48}O$	3β-Methoxy-14-methylergosta-7,22-dien-15-one	-	Sol	Freq	Page	JCS	-	(1955)	2017
$C_{30}H_{48}O_2$	Olean-12-en-30-oic acid	1500-3700	Sol	Group study	Cole	JCS	-	(1959)	2105

$C_{30}H_{48}O_2$	Olean-12-en-30-oic acid	1500–3700	Sol	Group study	Cole	JCS	-	(1959)	2005
$C_{30}H_{48}O_3$	3β-Acetoxyergost-5-en-11-one	-	L	Group freq	Bladon	JCS	-	(1954)	125
$C_{30}H_{48}O_3$	3β-Acetoxyergost-7-en-11-one	-	-	Struct	Bladon	JCS	-	(1953)	2921
$C_{30}H_{48}O_3$	3β-Acetoxyergost-8(9)-en-7-one	-	S,Sol	Group freq	Elks	JCS	-	(1954)	451
$C_{30}H_{48}O_3$	3β-Acetoxyergost-8(9)-en-11-one	-	S	Group freq	Bladon	JCS	-	(1953)	2921
		-	Sol	Group freq	Barton	JCS	-	(1954)	747
$C_{30}H_{48}O_3$	3β-Acetoxyergost-9(11)-en-7-one	-	S,Sol	Group freq, Ident	Elks	JCS	-	(1954)	451
$C_{30}H_{48}O_3$	3β-Acetoxyergost-22-en-11-one	-	Sol	Group freq	Cameron	JCS	-	(1953)	3864
		-	-	Ident	Bladon	JCS	-	(1954)	125
$C_{30}H_{48}O_3$	3β-Acetoxy-9α-ergost-22-en-11-one	-	Sol	Group freq	Elks	JCS	-	(1953)	2933
$C_{30}H_{48}O_3$	3β-Acetoxy-9β-ergost-22-en-11-one	-	Sol	Group freq	Elks	JCS	-	(1953)	2933
$C_{30}H_{48}O_3$	β-Boswellic acid	1600–3700	Sol	Group freq, H bond	Cole	JCS	-	(1959)	1224
		1500–3700	Sol	Group freq	Cole	JCS	-	(1959)	2005
$C_{30}H_{48}O_3$	$\Delta^{7,14}$-Cholestadienyl cathylate	-	Sol	Group freq	Fieser	JACS	75	(1953)	4404
$C_{30}H_{48}O_3$	3β,13β-Dihydroxy-18α-oleanan-28-oic-13(28) lactone	1350–1500	Sol	Group study	Cole	JCS	-	(1956)	1007
$C_{30}H_{48}O_3$	3β,13β-Dihydroxyoleanan-28-oic-13(28)-lactone	1350–1500	Sol	Group study	Cole	JCS	-	(1956)	1007
$C_{30}H_{48}O_3$	3β,13β-Dihydroxyursan-28-oic-13(28)lactone	1350–1500	Sol	Group study	Cole	JCS	-	(1956)	1007
$C_{30}H_{48}O_3$	Gummosogenin	-	Sol	Band freq	Djerassi	JACS	76	(1954)	4089

		-	-	Ident	Djerassi	JACS	77 (1955)	3579
$C_{30}H_{48}O_3$	3β-Hydroxylanost-5-ene-7,11-dione	2.5-15μ	Sol	Struct	Cole	JCS	- (1959)	1212
		3600-3650	Sol	Ident, Freq	Cole	JCS	- (1959)	1218
$C_{30}H_{48}O_3$	3β-Hydroxylanost-8-ene-7,11-dione	2.5-15μ	Sol	Struct	Cole	JCS	- (1959)	1212
		3600-3650	Sol	Ident, Freq	Cole	JCS	- (1959)	1218
$C_{30}H_{48}O_3$	3β-Hydroxyurs-12-en-28-oic acid	1350-1500	Sol	Group freq, Group study	Cole	JCS	- (1956)	1007
		1500-3700	Sol	Group study	Cole	JCS	- (1959)	2005
$C_{30}H_{48}O_3$	Lanostane-3,7,11-trione	2.5-15μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{30}H_{48}O_3$	Morolic acid	-	-	Ident, Struct	Barton	JCS	- (1951)	257
		1350-1500	Sol	Group freq, Ident	Cole	JCS	- (1956)	1007
		1500-3700	Sol	Group study	Cole	JCS	- (1959)	2005
$C_{30}H_{48}O_3$	a-Nor-2-Ketoeburic-8-enoic acid	-	S	Group freq	Holker	JCS	- (1953)	2414
$C_{30}H_{48}O_3$	Oleanolic acid	1350-1500	Sol	Group freq	Cole	JCS	- (1956)	1007
		1500-3700	Sol	Group study	Cole	JCS	- (1959)	2005
$C_{30}H_{48}O_3$	δ-Oleanolic acid	1500-3700	Sol	Group study	Cole	JCS	- (1959)	2005
$C_{30}H_{48}O_3$	Oleanolic acid lactone	-	Sol	Band freq	Djerassi	JACS	76 (1954)	2969
$C_{30}H_{48}O_3$	18-isooleanolic acid lactone	-	-	Ident	Djerassi	JACS	76 (1954)	5780
$C_{30}H_{48}O_3$	24-Oxo-26,27-bisnor-cycloartanyl acetate	-	-	Ident	Henry	JCS	- (1955)	1607
$C_{30}H_{48}O_3$	3-Oxolupan-28-oic acid	1500-3700	Sol	Group study	Cole	JCS	- (1959)	2005
$C_{30}H_{48}O_4$	3β-Acetoxy-5α,8α,9α,11α-diepoxyergostane	-	-	Group study	Clayton	JCS	- (1953)	2009
$C_{30}H_{48}O_4$	3β-Acetoxy-5α,8α-epidioxy-22-Δ-ergostene	-	Sol	Band freq, I	Henbest	JCS	- (1954)	800
$C_{30}H_{48}O_4$	3β-Acetoxyergostane-7,11-dione	-	S,Sol	Ident, Group freq	Elks	JCS	- (1954)	451

$C_{30}H_{48}O_4$	3β-Acetoxyergostane-7, 11-dione	-	S,Sol	Ident, Group freq	Elks	JCS	-	(1954)	451
$C_{30}H_{48}O_4$	3β-Acetoxyergosta-6,22-diene-5α,8α-diol	650-3100	Sol	Band freq, I	Henbest	JCS	-	(1954)	800
$C_{30}H_{48}O_4$	3β-Acetoxy-5α-hydroxy-ergost-22-en-11-one	-	Sol	Group freq	Bladon	JCS	-	(1954)	125
$C_{30}H_{48}O_4$	3β,23-Dihydroxyolean-12-en-28-oic acid	1500-3700	Sol	Group study	Cole	JCS	-	(1959)	2005
$C_{30}H_{48}O_4$	Ergosta-9(11),22-diene-3β,5α,7ξ-triol-3-monoacetate	-	Sol	Group freq	Elks	JCS	-	(1954)	463
$C_{30}H_{48}O_4$	Ergosta-7,22-dien-3β,5α, 11β-triol-3-monoacetate	-	S	Group freq	Bladon	JCS	-	(1953)	2921
$C_{30}H_{48}O_4$	22a,5α-Spirostane-2β,3β diol acetonide	-	Sol	Band freq	Klass	JACS	77	(1955)	3829
$C_{30}H_{48}O_4$	Stellatogenin	-	Sol	Group freq	Djerassi	JACS	77	(1955)	1200
$C_{30}H_{48}O_5$	3β-Acetoxy-9β,11α-dihydroxy-^{22}-Δ-ergostenone-7	-	-	Group freq	Budziarek	JCS	-	(1952)	2892
$C_{30}H_{48}O_5$	3β-Acetoxy-5α,8α-epoxy-9α-hydroxyergostan-11-one	-	S	Group freq	Clayton	JCS	-	(1953)	2009
$C_{30}H_{48}O_5$	3β-Acetoxy-9α,11α-epoxy-5α-hydroxyergostan-7-one	-	S	Group freq	Bladon	JCS	-	(1953)	2916
$C_{30}H_{48}O_6S$	3β-Acetoxy-5α,8α-epoxy-ergostane-9α,11α-diol sulfite	-	S	Group freq	Clayton	JCS	-	(1953)	2009
$C_{30}H_{48}O_7$	Methyl hecolate-3-acetate	-	Sol	Group freq	Rothman	JACS	76	(1954)	527
$C_{30}H_{48}O_7S$	12-Epirockogenin-3-acetate-12-mesylate	-	S	Group freq	Hirschmann	JACS	76	(1954)	4013

$C_{30}H_{48}O_8S$	5α,22a-Spirostane-3β,11α 12β-triol-11-methane-sulfonate 12-acetate	-	S	Group freq	Wendler	JACS	77 (1955)	1632
$C_{30}H_{49}O$	α-Amyrene-27-d_1	650-4000	Sol	Group freq, I	Barton	JCS	- (1954)	2715
$C_{30}H_{49}D_3O_2$	Ergostanol-3β-acetate-d_3	-	Sol	Group freq	Jones	JACS	74 (1952)	5662
$C_{30}H_{49}BrO$	2-Bromofriedelin	-	-	Group freq	Corey	JACS	77 (1955)	3667
$C_{30}H_{49}BrO$	4-Bromofriedelin	-	-	Freq	Corey	JACS	77 (1955)	3667
$C_{30}H_{49}BrO$	2α-Bromolanost-8(9)-en-3-one	400-4000	Sol	Spec, Substitution	Cummins	JCS	- (1957)	3847
$C_{30}H_{49}BrO$	2β-Bromolanost-8(9)-en-3-one	400-4000	Sol	Spec, Substitution	Cummins	JCS	- (1957)	3847
$C_{30}H_{49}BrO_3$	9α-Bromo-11-oxoergostan-3β-yl acetate	400-4000	Sol	Spec, Substitution	Cummins	JCS	- (1957)	3847
$C_{30}H_{49}BrO_3$	12α-Bromo-11-oxoergostan-3β-yl acetate	400-4000	Sol	Spec, Substitution	Cummins	JCS	- (1957)	3847
$C_{30}H_{49}N_3O_3$	Δ^4-Cholestenol-3β-6-one acetate semicarbazone	-	-	Band freq	Reich	JOC	16 (1951)	1753
$C_{30}H_{50}$	3β-Allyl-5-cholestene	-	-	Ident	Baker	JACS	77 (1955)	3644
$C_{30}H_{50}$	α-Amyrene	650-4000 3-14μ	Sol Sol	Group freq, I Spec	Barton Cole	JCS JCS	- (1954) - (1954)	2715 3807
$C_{30}H_{50}$	Cycloartene	-	Sol	Group freq	Cole	JCS	- (1954)	3810
$C_{30}H_{50}$	3-isopropylidene-A-nor-30,31-bisnorlanost-8-ene	2.5-15μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{30}H_{50}$	Lanosta-7,9(11)-diene	2.5-15μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{30}H_{50}$	Lanosta-8,24-diene	2.5-15μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{30}H_{50}$	α-Lupene	-	Sol	Ext. Coefficient,	Barnard	JCS	- (1950)	915

$C_{30}H_{50}$	α-Lupene	-	Sol	Ext. Coefficient, Freq	Barnard	JCS	-	(1950)	915
$C_{30}H_{50}$	Olean-13(18)-ene	-	-	Ident, Struct	Corey	JACS	77	(1955)	3668
$C_{30}H_{50}$	Olean-18-ene	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{30}H_{50}$	Phyllanthane	650-4000	Sol	Group freq, I	Barton	JCS	-	(1954)	2715
		2700-3100	Sol	Spec, Freq	Cole	JCS	-	(1954)	3810
$C_{30}H_{50}$	Squalene	600-1800	-	Spec	Thompson	TFS	41	(1945)	246
		2-16 μ	L,Sol	Spec	Dauben	JACS	74	(1952)	4321
		2-16 μ	-	Spec, Group freq	Dauben	JACS	74	(1952)	5204
$C_{30}H_{50}$	Squalene C^{14}	2-16 μ	-	Spec, Group freq	Dauben	JACS	74	(1952)	5204
$C_{30}H_{50}$	ψ-Taraxastene	-	S	Band freq	Ames	JCS	-	(1954)	1905
$C_{30}H_{50}$	19α(H)-Taraxast-20(30)-ene	-	S	Ident, Band freq	Ames	JCS	-	(1954)	1905
$C_{30}H_{50}$	Urs-12-ene	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{30}H_{50}Br_2O$	2,2-Dibromolanostan-3-one	400-4000	Sol	Spec, Substitution	Cummins	JCS	-	(1957)	3847
$C_{30}H_{50}O$	δ-Amyr-13(18)-en-3-ol	-	-	Ident	Halsall	JCS	-	(1954)	1902
$C_{30}H_{50}O$	Cycloartenol	750-1500	Sol	Spec, Freq	Cole	JCS	-	(1954)	3810
		950-3139	Sol	Spec, Freq, Group study	Allsop	JCS	-	(1956)	4868
$C_{30}H_{50}O$	9:19-Cyclolanost-24-en-3α-ol	950-3639	Sol	Spec, Freq, Group study	Allsop	JCS	-	(1956)	4868
$C_{30}H_{50}O$	13:27-Cycloursan-3β-ol	-	Sol	Group freq	Cole	JCS	-	(1954)	3810
		3600-3650	Sol	Group freq, Ident	Cole	JCS	-	(1959)	1218
$C_{30}H_{50}O$	Euphol	-	-	Freq	Barbour	JCS	-	(1955)	2194
$C_{30}H_{50}O$	Lanosta-7,9(11)-dien 3β-ol	2.5-15 μ	Sol	Struct	Cole	JCS	-	(1959)	1212
		3600-3650	Sol	Group freq, Ident	Cole	JCS	-	(1959)	1218

$C_{30}H_{50}O$	Lanost-8-en-3-one	400-4000	Sol	Spec, Substitution	Cummins	JCS	- (1957)	3847
		2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{30}H_{50}O$	Lup-20(29)-en-3α-ol	950-3639	Sol	Spec, Freq, Group study	Allsop	JCS	- (1956)	4868
		680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{30}H_{50}O$	Lup-20(29)-en-3β-ol	-	Sol	Ext. Coefficient, Freq	Barnard	JCS	- (1950)	915
		950-3639	Sol	Spec, Freq, Group study	Allsop	JCS	- (1956)	4868
		680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
		3600-3650	Sol	Group freq, Ident	Cole	JCS	- (1959)	1218
$C_{30}H_{50}O$	Lup-20(29)-en-28-ol	680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{30}H_{50}O$	3β-Methoxy-14-methyl-ergosta-7,22-diene	-	Sol	Freq	Page	JCS	- (1955)	2017
$C_{30}H_{50}O$	21-Noreburic-8-en-20-one	-	Sol	Group freq	Holker	JCS	- (1953)	2422
$C_{30}H_{50}O$	Olean-12-en-3α-ol	950-3639	Sol	Spec, Freq, Group study	Allsop	JCS	- (1956)	4868
$C_{30}H_{50}O$	Olean-12-en-3β-ol	950-3639	Sol	Spec, Freq, Group study	Allsop	JCS	- (1956)	4868
		680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{30}H_{50}O$	Olean-18-en-3β-ol	11-13 μ	Sol	Spec, Struct	Barton	JCS	- (1951)	257
		680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
		3600-3650	Sol	Group study	Cole	JCS	- (1959)	1218
$C_{30}H_{50}O$	Stigmasteryl methyl ether	3-12 μ	S,Sol	Band freq, Struct	Josien	JACS	73 (1951)	4445
$C_{30}H_{50}O$	iso-Stigmasteryl methyl ether	3-12 μ	S,Sol	Band freq, Struct	Josien	JACS	73 (1951)	4445
$C_{30}H_{50}O$	ψ-Taraxasterol	-	Sol	Group freq, Band freq	Ames	JCS	- (1954)	1905
		-	-	Ident	Halsall	JCS	- (1954)	1902
$C_{30}H_{50}O$	Ursan-11-one	1350-1500	Sol	Group freq	Cole	JCS	- (1956)	1007
$C_{30}H_{50}O$	Urs-12-en-3α-ol	950-3639	Sol	Spec, Freq, Group	Allsop	JCS	- (1956)	4868

$C_{30}H_{50}O$	Urs-12-en-3α-ol	950-3639	Sol	Speo, Freq, Group freq	Allsop	JCS	- (1956)	4868
$C_{30}H_{50}O$	Urs-12-en-3β-ol	3-14 μ	Sol	Spec	Cole	JCS	- (1954)	3807
		950-3639	Sol	Spec, Freq, Group study	Allsop	JCS	- (1956)	4868
		680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{30}H_{50}O_2$	3β-Acetoxyergost-9(11)-ene	-	L	Group freq	Crawshaw	JCS	- (1954)	731
$C_{30}H_{50}O_2$	Eburico-7,9(11)-diene-16α,21-diol	-	-	Ident	Bowers	JCS	- (1954)	3070
$C_{30}H_{50}O_2$	Δ^{7}-Ergostenol-3β-acetate	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
		-	-	Ident	Nes	JOC	18 (1953)	276
		2.5-13 μ	Sol	Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
		-	Sol	Freq	Page	JCS	- (1955)	2017
$C_{30}H_{50}O_2$	$\Delta^{8(14)}$-Ergostenol-3β-acetate	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		-	Sol	Group freq	Jones	JACS	74 (1952)	5648
		-	-	Ident	Bladon	JCS	- (1953)	2921
		2.5-13 μ	Sol	Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
		-	Sol	Freq	Page	JCS	- (1955)	2017
$C_{30}H_{50}O_2$	Δ^{14}-Ergostenol-3β-acetate	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{30}H_{50}O_2$	Δ^{22}-5-isoergostenol-3α-acetate	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
		-	Sol	Group freq	Jones	JACS	74 (1952)	5662
$C_{30}H_{50}O_2$	Δ^{22}-5β-Ergosten-3α-ol acetate	700-1400	Sol	Ident	Jones	JACS	78 (1956)	1112
$C_{30}H_{50}O_2$	Erythrodiol	-	-	Ident	Djerassi	JACS	76 (1954)	5780
$C_{30}H_{50}O_2$	3β-Hydroxylanost-8-en-7-one	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
		3600-3650	Sol	Group freq	Cole	JCS	- (1959)	1218

$C_{30}H_{50}O_2$	3β-Hydroxyoleanan-12-one	1350-1500 3600-3650	Sol Sol	Spec, Group freq Group freq, Ident	Cole Cole	JCS JCS	- -	(1956) (1959)	1007 1218
$C_{30}H_{50}O_2$	20α-Hydroxy-21-oxo-taraxastane	-	Sol	Band freq	Ames	JCS	-	(1954)	1905
$C_{30}H_{50}O_2$	19-Keto-18(α)-oleanan-2β-ol	-	Sol	Group freq	Ames	JCS	-	(1952)	2868
$C_{30}H_{50}O_2$	Lup-20(29)-ene-3β,28 diol	680-3700 3600-3650	Sol Sol	Freq, I Group freq, Ident	Cole Cole	JCS JCS	- -	(1957) (1959)	1332 1218
$C_{30}H_{50}O_2$	Urs-12-ene-3α,24-diol	1600-3700	Sol	Group freq, H bond	Cole	JCS	-	(1959)	1224
$C_{30}H_{50}O_2$	Urs-12-ene-3β,24 diol	1600-3700	Sol	Group freq, H bond	Cole	JCS	-	(1959)	1224
$C_{30}H_{50}O_2$	Urs-12-ene-3β,28-diol	3600-3650	Sol	Struct	Cole	JCS	-	(1959)	1218
$C_{30}H_{50}O_3$	3β-Acetoxy-9β,11β-epoxyergostane	-	Sol	Ident	Henbest	JCS	-	(1955)	2477
$C_{30}H_{50}O_3$	3β-Acetoxyergostan-7-one	-	S,Sol	Group freq	Elks	JCS	-	(1954)	451
$C_{30}H_{50}O_3$	3β-Acetoxy-8α-ergostan-11-one	-	Sol	Group freq	Bladon	JCS	-	(1953)	2921
$C_{30}H_{50}O_3$	3β-Acetoxy-9α-ergostan-11-one	-	Sol	Group freq	Elks	JCS	-	(1953)	2933
$C_{30}H_{50}O_3$	3β-Acetoxy-9β-ergostan-11-one	- -	Sol Sol	Group freq Group freq	Bladon Elks	JCS JCS	- -	(1953) (1953)	2921 2933
$C_{30}H_{50}O_3$	3β-Acetoxyergost-14-en-5α-ol	-	Sol	Group freq	Bladon	JCS	-	(1954)	736
$C_{30}H_{50}O_3$	3β-Acetoxylumist-7-en-5β-ol	-	S	Group freq	Bladon	JCS	-	(1955)	2176
$C_{30}H_{50}O_3$	3β-Acetoxy-9β-lumist-7-en-5α-ol	-	S	Group freq	Bladon	JCS	-	(1955)	2176
$C_{30}H_{50}O_3$	3β-Hydroxylanostane-7,11-dione	2.5-15 μ 3600-3650	Sol Sol	Struct Group freq, Ident	Cole Cole	JCS JCS	- -	(1959) (1959)	1212 1218

$C_{30}H_{50}O_3$	Longispinogenin	-	Sol	Ident	Djerassi	JACS	76 (1954)	4089
		-	-	Ident	Djerassi	JACS	77 (1955)	3579
$C_{30}H_{50}O_3$	11-Oxoergostan-3β-yl acetate	400-4000	Sol	Spec, Substitution	Cummins	JCS	- (1957)	3847
$C_{30}H_{50}O_3$	15-Oxoergostan-3β-yl acetate	-	Sol	Group freq	Barton	JCS	- (1954)	52
$C_{30}H_{50}O_4$	3β-Acetoxy-5α-hydroxy-ergostan-11-one	-	S	Group freq	Bladon	JCS	- (1953)	2921
$C_{30}H_{50}O_4$	3β-Acetoxy-5α-hydroxy-9β-ergostan-11-one	-	S	Group freq	Bladon	JCS	- (1953)	2921
$C_{30}H_{50}O_4$	3β-Acetoxy-9α-hydroxy-ergostan-11-one	-	S	Group freq	Barton	JCS	- (1954)	747
		-	-	Group freq	Crawshaw	JCS	- (1954)	731
$C_{30}H_{50}O_6$	Lithocholanyl alcohol dicathylate	-	-	Band study	Fieser	JACS	74 (1952)	3309
$C_{30}H_{51}D$	Lanost-7-ene-19-d_1	650-4000	Sol	Group freq, I	Barton	JCS	- (1954)	2715
$C_{30}H_{51}D$	Lanost-8-ene-19-d_1	650-4000	Sol	Group freq, I	Barton	JCS	- (1954)	2715
$C_{30}H_{51}BrO$	2α-Bromolanostan-3-one	400-4000	Sol	Spec, Substitution	Cummins	JCS	- (1957)	3847
$C_{30}H_{51}BrO$	2β-Bromolanostan-3-one	400-4000	Sol	Spec, Substitution	Cummins	JCS	- (1957)	3847
$C_{30}H_{51}BrO_3$	3β-Acetoxy-9α-bromo-ergostan-11β-ol	-	Sol	Freq	Henbest	JCS	- (1955)	2477
$C_{30}H_{51}N$	3α-Isopropylideneamino-cholest-5-ene	-	-	Group freq	Haworth	JCS	- (1955)	986
$C_{30}H_{51}N$	3β-Isopropylideneamino-cholest-5-ene	-	-	Group freq	Haworth	JCS	- (1955)	986
$C_{30}H_{52}$	Cycloartane	650-4000	Sol	Group freq, I	Barton	JCS	- (1954)	2715
		750-1500	Sol	Spec	Cole	JCS	- (1954)	3810

$C_{30}H_{52}$	Euphene	-	Sol	Ident	Barton	JCS	- (1955)	876
$C_{30}H_{52}$	Lanost-8-ene	-	Sol	Ident	Holker	JCS	- (1953)	2422
		-	Sol	Ident	Barton	JCS	- (1955)	876
		2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{30}H_{52}$	Lanost-9(11)-ene	650-4000	Sol	Group freq, I	Barton	JCS	- (1954)	2715
$C_{30}H_{52}$	19α(H)-Taraxastane	-	S	Band freq, Ident	Ames	JCS	- (1954)	1905
$C_{30}H_{52}O$	Artenol	9-11 μ	Sol	Spec	Barton	JCS	- (1951)	1444
$C_{30}H_{52}O$	Cycloartanol	2700-3100	Sol	Spec, Band freq	Cole	JCS	- (1954)	3810
$C_{30}H_{52}O$	Friedelan-3α-ol	3600-3650	Sol	Struct	Cole	JCS	- (1959)	1218
$C_{30}H_{52}O$	Friedelan-3β-ol	3600-3650	Sol	Struct	Cole	JCS	- (1959)	1218
$C_{30}H_{52}O$	Lanostan-3-one	400-4000	Sol	Spec, Substitution	Cummins	JCS	- (1957)	3847
$C_{30}H_{52}O$	Lanost-8-en-3α-ol	950-3639	Sol	Spec, Freq, Group study	Allsop	JCS	- (1956)	4868
$C_{30}H_{52}O$	Lanost-8-en-3β-ol	950-3639	Sol	Spec, Freq, Group study	Allsop	JCS	- (1956)	4868
		2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
		3600-3650	Sol	Group freq, Ident	Cole	JCS	- (1959)	1218
$C_{30}H_{52}O$	Lanost-9(11)-en-3β-ol	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
		3600-3650	Sol	Group freq, Ident	Cole	JCS	- (1959)	1218
$C_{30}H_{52}O$	Lupan-3β-ol	3600-3650	Sol	Group freq, Ident	Cole	JCS	- (1959)	1218
$C_{30}H_{52}O_2$	Ergostan-3β-ol-acetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		1180-1300	Sol	Band study, I	Jones	JACS	73 (1951)	3215
		-	Sol	Band freq	Cole	JCS	- (1952)	4969
		1682-1782	Sol	I, Ext. Coefficient, Band study	Jones	JACS	74 (1952)	5648
		-	Sol	Group freq	Jones	JACS	74 (1952)	5662
		-	Sol	Group study	Jones	JACS	74 (1952)	80
		2.5-13 μ	Sol	Group freq, Struct	Rosenkrantz	JACS	75 (1953)	903
		-	Sol	Group freq	Page	JCS	- (1955)	2017
		770-3700	Sol	Freq, I	Rosenkrantz	JACS	77 (1955)	2237
		700-1400	Sol	Band study, Ident	Jones	JACS	78 (1956)	1152

		700-1400	Sol	Band study, Ident	Jones	JACS	78 (1956)	1152
$C_{30}H_{52}O_2$	Lumistanol-3α-acetate	-	-	Band study	Barton	JCS	- (1953)	1027
$C_{30}H_{52}O_2$	Lumistanol-3β-acetate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		1180-1300	Sol	Band study, I	Jones	JACS	73 (1951)	3215
		-	Sol	Group freq, Band freq	Cole	JCS	- (1952)	4969
		1686-1786	Sol	I, Ext. Coefficient, Band study	Jones	JACS	74 (1952)	80
		-	-	Band freq	Barton	JCS	- (1953)	1027
$C_{30}H_{52}O_3$	3β-Acetoxyergostan-5α-ol	-	-	Group freq	Bladon	JCS	- (1954)	736
$C_{30}H_{52}O_3$	18β-Oleanane-3β,13β,28-triol	-	Sol	Group freq	Djerassi	JACS	76 (1954)	2969
$C_{30}H_{52}O_4$	3β-Acetoxyergostane-5α, 14α-diol	-	-	Group freq	Bladon	JCS	- (1954)	736
$C_{30}H_{52}O_4$	3β-Acetoxylumistane-5β, 8β-diol	-	S	Group freq	Bladon	JCS	- (1955)	2176
$C_{30}H_{52}O_4$	Stellatogenin tetrol	-	-	Group freq	Djerassi	JACS	77 (1955)	1200
$C_{30}H_{53}D$	Lanostane-19-d_1	650-4000	Sol	Group freq, I	Barton	JCS	- (1954)	2715
$C_{30}H_{54}$	Lanostane	650-4000	Sol	Group freq, I	Barton	JCS	- (1954)	2715
$C_{30}H_{54}$	3β-Propylcholestane	-	-	Ident	Baker	JACS	77 (1955)	3644
$C_{30}H_{58}O_4$	Di-n-decyl sebacate	2-16 μ	Sol	Spec	Stahl	JACS	74 (1952)	5487
$C_{30}H_{60}O_2$	n-Triacontanoic acid	2-15 μ	S	Spec, Qual anal	Meiklejohn	AC	29 (1957)	329
$C_{30}H_{62}$	n-Triacontane	10.0-10.75 μ	Sol	Quan. Anal	Johnson	AC	29 (1957)	468
		650-800	L,S	Band freq	Martin	SA	12 (1958)	12
		700-1500	S	Freq, Assign	Snyder	JMS	4 (1960)	411
$C_{30}H_{64}Si$	Tri-n-decylsilane	2-16 μ	Sol	Group freq	Kniseley	SA	15 (1959)	651

$C_{30}H_{78}O_4Si_8$	Hexadecamethyl-3,10,17,24-tetraoxa-2,4,9,11,16,18,23,25-Octasila-hexacosane	-	-	Group freq	Sommer	JACS	77 (1955)	2482

C_{31} COMPOUNDS

$C_{31}H_{24}O_4$	4-Acetoxy-5-hydroxy-2,3,4,5-tetraphenylcyclopent-2-enone	-	Sol	Freq, Struct	Yates	JACS	76 (1954)	5110
$C_{31}H_{24}O_4$	1,1,3,3-Tetrabenzoyl-propane	2.5-6.5 μ	Sol	Freq, Assign	Martin	JACS	81 (1959)	130
$C_{31}H_{25}N$	p-Trityldiphenylamine	2.9 μ	-	Ident	Craig	JACS	71 (1949)	2250
$C_{31}H_{28}O$	p-(t-Butyl)-α,β,β-triphenylacrylophenone	-	-	Group freq	Fuson	JACS	77 (1955)	994
$C_{31}H_{30}O$	p-t-Amylphenyl trityl ketone	-	-	Group freq, Ident	Fuson	JACS	77 (1955)	1138
$C_{31}H_{34}OSi$	Triphenylsilylheptyl phenyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{31}H_{36}N_2O_7 \cdot HCl$	O-3,4,5-Trimethoxy-benzoylcorynanthine hydrochloride	-	-	Freq	Huebner	JACS	77 (1955)	469
$C_{31}H_{38}O_{10}$	$\Delta^{5,7,9(11)}$-Pregnatriene-17α,21-diol-3,20-dione 21-acetate 3,20-bisethylene ketal maleic anhydride adduct	-	S	Freq	Antonucci	JACS	76 (1954)	2956
$C_{31}H_{38}O_{11}$	Methylpolyacetylgluco-siduronate of $\Delta^{1,3,5}$-estratriene-ol-17-one	650-3700	S	Spec, Assign	Smakula	JACS	81 (1959)	1708
$C_{31}H_{40}Br_2N_4O_7$	Methyl-3,11-diketo-4,12Y-dibromocholanate-3-	-	-	Spec, Ident	McGuckin	JACS	74 (1952)	3951

$C_{31}H_{40}Br_2N_4O_7$	Methyl-3,11-diketo-4, 12α-dibromocholanate-3-(2,4-dinitrophenyl-hydrazone)	-	-	Spec, Ident	McGuckin	JACS	74 (1952)	3951
$C_{31}H_{40}N_4O_8$	3β,21-Diacetoxy-Δ^5-pregnen-20-one 2,4-dinitrophenylhydrazone	-	Sol	Group freq, Ident	Reich	JOC	19 (1954)	1041
$C_{31}H_{40}O_4$	3β-Benzoxy-20-hydroxy-Δ^5-cholenic acid lactone	1000-1900	Sol	Spec, Freq	Jones	JACS	81 (1959)	5242
$C_{31}H_{40}O_4$	Δ^5-20-(spiro-2-oxa-3-oxocyclopentano)-pregnenol-3β-benzoate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{31}H_{40}O_5$	3β-Benzoyloxy-4:4:14-trimethyl-5α-pregnane 7:11:20-trione	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{31}H_{40}O_8$	Dimethyl ester of maleic anhydride adduct of 3β, 20-diacetoxy-5,7,9(11), 20-pregnatetrane	-	-	Freq	Moffett	JACS	74 (1952)	2183
$C_{31}H_{40}O_9$	Dimethyl ester of maleic anhydride adduct of 3β, 20-diacetoxy-9,11-oxido-5,7,20-pregnatriene	-	-	Freq	Moffett	JACS	74 (1952)	2183
$C_{31}H_{40}O_{11}$	Methyl polyacetyl-glucosiduronate of $\Delta^{3,5}$,3,3-estratriene-3,17β-diol	650-3700	S	Spec, Assign	Smakula	JACS	81 (1959)	1708
$C_{31}H_{42}OSi$	Triphenylsilylnonyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826

$C_{31}H_{42}OSi$	Triphenylsilylundecyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{31}H_{42}O_5$	3,26-Diacetoxy-$\Delta^{3,5,7,20(22)}$-furostetraene	-	-	Group study	Dauben	JACS	75 (1953)	3255
$C_{31}H_{42}O_6S$	2β,4b-Dimethyl-1β-(2-tosyloxyethyl)-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4-one	-	-	Band freq	Hohns	JACS	76 (1954)	5026
$C_{31}H_{42}O_{12}$	Ouabagenin tetraacetate	-	-	Struct	Florey	JOC	19 (1954)	1174
$C_{31}H_{44}O_4S$	$\Delta^{3,5,7}$-22a-3-(β-Acetoxyethylmercapto)-spirostatriene	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3704
$C_{31}H_{44}O_5$	Methyl 3:12:19-trioxo-olean-13(18)-en-28-oate	1350-1500 680-3700	Sol Sol	Freq Freq, I	Cole Cole	JCS JCS	- (1956) - (1957)	1007 1332
$C_{31}H_{44}O_6$	$\Delta^{7,9(11)}$-22a,5β-Spirostadiene-3α,7-diol diacetate	-	Sol	Band freq	Rosenkrantz	JACS	75 (1953)	4430
$C_{31}H_{44}O_6S$	2β,4b-Dimethyl-1β-(2-tosyloxyethyl)-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4α-ol	-	-	Band freq	Johns	JACS	76 (1954)	5026
$C_{31}H_{44}O_6S$	2β-4b-Dimethyl-1β-(2-tosyloxyethyl)-2-methallyl-7-ethylenedioxy-1,2,3,4,4aα,4b,5,6,7,8,10,10aβ-dodecahydrophenanthrene-4β-ol	-	-	Band freq	Johns	JACS	76 (1954)	5026
$C_{31}H_{44}O_7$	Kammogenin acetate	700-1400	Sol	Band study Spec. Ident	Jones Eddy	JACS AC	[illegible]	[illegible]

$C_{31}H_{44}O_7$	Kammogenin acetate	- 700-1400	Sol Sol	Band study Spec, Ident	Jones Eddy	JACS AC	74 (1952) 25 (1953)	80 266
$C_{31}H_{44}O_7$	20α-Δ^5-Kammogenin acetate	2750-3100	Sol	Spec, Band freq	Smith	AC	31 (1959)	1539
$C_{31}H_{44}O_7$	Δ^8-22a,5α-Spirostene-3β,11α-diol-7-one-3,11-diacetate	-	Sol	Ident	Mancera	JACS	75 (1953)	4428
$C_{31}H_{44}O_7$	$\Delta^{8(9)}$-22-Isoallospirosten-3β,11α-diol-7-one diacetate	-	Sol	Freq	Djerassi	JACS	74 (1952)	1712
$C_{31}H_{44}O_7$	$\Delta^{9(11)}$-22a,5α-Spirostane-3β,11-diol-12-one 3,11-diacetate	-	Sol	Band freq	Djerassi	JACS	76 (1954)	5533
$C_{31}H_{45}BrO_7$	23a-Bromo-3β,12α-diacetoxy-5α,22a-spirostan-11-one	724-1758	Sol	Group freq, Assign	Dickson	JCS	- (1955)	447
$C_{31}H_{45}BrO_7$	23a-Bromo-3β,12β-diacetoxy-5α,22a-spirostan-11-one	728-1752	Sol	Group freq, Assign	Dickson	JCS	- (1955)	447
$C_{31}H_{45}O_5$	Diacetyldihydrojervine	2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{31}H_{46}ClNO_5$	22,26-Imino-3α-chloro-16-jervene-23-ol-11-one 23,N-diacetate	-	S	Band freq	Iselin	JACS	76 (1954)	5616
$C_{31}H_{46}ClNO_5$	17a,22,26-Nitrilo-3α-chlorogervane-17,23-diol-11-one 17,23-diacetate	-	S	Band freq	Iselin	JACS	76 (1954)	5616
$C_{31}H_{46}ClNO_6$	22,26-Imino-3α-chloro-13(17a)-jervene-17,23-diol-11-one,23,N-diacetate	-	S	Band freq	Iselin	JACS	76 (1954)	5616

$C_{31}H_{46}N_2O_4$	N,N'-Dibenzyloxy-α-dodecylglutaramide	-	S	Group freq	Ames	JCS	- (1955)	631
$C_{31}H_{46}O_3$	Dehydroeburiconic acid	-	S	Ident	Gascoigne	JCS	- (1953)	1830
$C_{31}H_{46}O_3$	$\Delta^{13(18),19}$-30-Noroleanen-3β-ol-11-one 3-acetate	-	Sol	Band freq	Djerassi	JACS	76 (1954)	4085
$C_{31}H_{46}O_4$	Methyl diketoechinocystate	-	-	Ident	Djerassi	JACS	77 (1955)	3579
$C_{31}H_{46}O_4$	Methyldioxoelemadienate	-	Sol	Band freq	Halsall	JCS	- (1953)	4139
$C_{31}H_{46}O_4$	Methyl-3:19-dioxo-olean-12-en-28-oate	1350-1500	Sol	Freq	Cole	JCS	- (1956)	1007
		680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{31}H_{46}O_4$	Methyl-3:19-dioxo-olean 13(18)-en-28-oate	1350-1500	Sol	Freq	Cole	JCS	- (1956)	1007
$C_{31}H_{46}O_4$	Δ^{12}-18β-Oleanen-3,21-dion-28-oic acid methyl ester	-	Sol	Band freq	Djerassi	JACS	77 (1955)	1825
$C_{31}H_{46}O_5$	Pseudodiosgenin diacetate	-	-	Ident	Bauben	JACS	76 (1954)	4618
		660-5000	Sol	Spec, Group freq	Hayden	AC	26 (1954)	550
		-	Sol	Band freq	Ziegler	JACS	77 (1955)	1223
$C_{31}H_{46}O_5S_2$	22a,5β-Spirostan-3α-ol-11-one-7-cycloethylene-mercaptal acetate	-	Sol	Band freq	Rosenkrantz	JACS	75 (1953)	4430
$C_{31}H_{46}O_6$	ψ-Hecogenin diacetate	-	-	Ident	Callow	JCS	- (1955)	1966
$C_{31}H_{46}O_6$	Kryptogenin acetate	-	Sol	Freq	Bowers	JCS	- (1953)	2548
		700-1400	Sol	Spec, Ident	Eddy	AC	25 (1953)	266
$C_{31}H_{46}O_6$	Yuccagenin diacetate	850-1000	Sol	Spec	Rothman	JACS	74 (1952)	4012
		700-1400	Sol	Spec, Ident	Eddy	AC	25 (1953)	266
		890-1340	Sol	Group freq, I	Jones	JACS	75 (1953)	158
$C_{31}H_{46}O_7$	3β,11ξ-Diacetoxy-5α,22a-spirostan-12-one	-	Sol	Group freq	Rosenfeld	JACS	77 (1955)	4367

$C_{31}H_{46}O_7$	3β,11ξ-Diacetoxy-5α, 22a-spirostan-12-one	-	Sol	Group freq	Rosenfeld	JACS	77 (1955)	4367
$C_{31}H_{46}O_7$	3β,12β-Diacetoxy-5α, 22a-spirostan-11-one	-	-	Ident	Rosenfeld	JACS	77 (1955)	4367
		-	-	Ident	Wendler	JACS	77 (1955)	1632
$C_{31}H_{46}O_7$	Manogenin diacetate	800-1050	Sol	Freq, Anal	Wall	AC	24 (1952)	1337
		700-1400	Sol	Spec, Ident	Eddy	AC	25 (1953)	266
		890-1340	Sol	Group freq, I	Jones	JACS	75 (1953)	158
		-	-	Ident	Krider	JACS	76 (1954)	2938
$C_{31}H_{46}O_7$	20-Isomanogenin diacetate	7-15μ	Sol	Spec, Freq	Eddy	AC	27 (1955)	1067
$C_{31}H_{46}O_7$	8,14ξ-Oxido-22a-allo-spirostane-7ξ-ol-3-one ethylene ketal acetate	-	S	Group freq	Bernstein	JOC	18 (1953)	1418
$C_{31}H_{46}O_7$	5α,22a-Spirostane-3β,11α-diol-12-one diacetate	-	-	Band study	Wendler	JACS	77 (1955)	1632
$C_{31}H_{46}O_9$	7-Keto-3α,6α,12α-triacetoxycholanic acid methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{31}H_{47}NO_5$	O,N-Diacetyltetrahydrojervine	-	S	Band freq	Wintersteinger	JACS	76 (1954)	5609
$C_{31}H_{47}O_6$	Pseudosisalagenin diacetate	-	S	Ident	Callow	JCS	- (1955)	1671
		-	S,Sol	Group freq	Callow	JCS	- (1955)	1966
$C_{31}H_{48}N_2O_2 \cdot HBr$	5-Palmitoyl-7-(1-piperidylmethyl)-8-quinolinol hydrobromide	-	-	Struct	Edgerton	JACS	74 (1952)	5209
$C_{31}H_{48}O_2$	Bis-(2-hydroxy-3-methyl-5-isooctylphenyl)-methane	2.75-3.2μ	S,Sol	Spec, H bond	Coggeshall	JACS	72 (1950)	2836
$C_{31}H_{48}O_2$	Di-(2-hydroxy-3,5-di-t-butyl-6-methylphenyl)-methane	2.5-3.4μ	S,Sol	Freq	Ambelang	JACS	75 (1953)	947

$C_{31}H_{48}O_2$	Di-(4-hydroxy-2-methyl-5-t-butylphenyl)-octylmethane	2.5-3.4 μ	S,Sol	Freq	Ambelang	JACS	75 (1953)	947
$C_{31}H_{48}O_2$	2-Methyl-2-phylyl-2,3-dihydro-1,4-naphto-quinone	-	-	Ident	Hirschmann	JACS	76 (1954)	4592
$C_{31}H_{48}O_2$	Methylursa-2:12-dien-28-oate	680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{31}H_{48}O_3$	Methyldehydro-oxo-elemenate	-	Sol	Band freq	Holsall	JCS	- (1953)	4139
$C_{31}H_{48}O_3$	Methyl 3β-hydroxyoleano-11:13(18)-dien-28-oate	680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{31}H_{48}O_3$	Methyl 3-oxolup-20(29)-en-28-oate	680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{31}H_{48}O_3$	Methyl 3-oxoolean-18-en-28-oate	1350-1500 680-3700	Sol Sol	Freq Freq, I	Cole Cole	JCS JCS	- (1956) - (1957)	1007 1332
$C_{31}H_{48}O_3$	Methyl 3-oxours-12-en-28-oate	1350-1500 680-3700	Sol Sol	Freq Freq, I	Cole Cole	JCS JCS	- (1956) - (1957)	1007 1332
$C_{31}H_{48}O_3$	Methyl pinicolate-A	-	Sol	Group freq	Guider	JCS	- (1954)	4471
$C_{31}H_{48}O_3$	Norechinocystenolone acetate	-	Sol	Freq	Djerassi	JACS	77 (1955)	3579
$C_{31}H_{48}O_4$	Methyl machaerate	-	Sol	Group freq	Djerassi	JACS	77 (1955)	1825
$C_{31}H_{48}O_5$	Dihydrodiosgenin diacetate	835-1000	Sol	Spec, Anal	Wall	AC	24 (1952)	1337
$C_{31}H_{48}O_5$	Pseudosarsapogenin diacetate	- -	Sol Sol	Spec, Group freq Freq	Hayden Scheer	AC JACS	26 (1954) 77 (1955)	550 641
$C_{31}H_{48}O_5$	Pseudosmilegenin diacetate	- -	Sol Sol	Spec, Group freq Freq	Hayden Scheer	AC JACS	26 (1954) 77 (1955)	550 641
$C_{31}H_{48}O_5$	Pseudotigogenin diacetate	- 5-16 μ	Sol Sol	Spec, Group freq Spec, Ident	Hayden Callow	AC JCS	26 (1954) - (1950)	550 -

$C_{31}H_{48}O_5$	Pseudotigogenin diacetate	- 5-16 μ	Sol Sol	Spec, Group freq Spec, Ident	Hayden Callow	AC JCS	26 (1954) - (1955)	550 1966
$C_{31}H_{48}O_5S$	22a-5α-Spirostan-3β-ol-12-one acetate ethylene hemithioketal	-	Sol	Ident	Djerassi	JACS	75 (1953)	3704
$C_{31}H_{48}O_6$	Anhydrohecolyl alcohol diacetate	-	-	Group freq, I	Rothman	JACS	76 (1954)	527
$C_{31}H_{48}O_6$	22-Isoallospirostan-3β, 6α-diol-3,6-diacetate	700-1400	Sol	Spec, Ident	Eddy	AC	25 (1953)	266
$C_{31}H_{48}O_6$	22-Isospirostan-3β,6β-diol diacetate	1800-1050 890-1340	Sol Sol	Freq, Anal Spec, Group freq, I	Wall Jones	AC JACS	24 (1952) 75 (1953)	1337 158
$C_{31}H_{48}O_6$	20-isochlorogenin diacetate	7-15 μ	Sol	Spec, Band freq	Eddy	AC	27 (1955)	1067
$C_{31}H_{48}O_6$	Cholegenin diacetate	-	-	Group freq	Mazur	JCS	- (1954)	1223
$C_{31}H_{48}O_6$	25-isocholegenin diacetate	-	-	Group freq	Mazur	JCS	- (1954)	1223
$C_{31}H_{48}O_6$	3β,12α-Diacetoxy-5α,22a spirostane	-	Sol	Group freq, Ident	Elks	JCS	- (1954)	1739
$C_{31}H_{48}O_6$	3β,12β-Diacetoxy-5α,22a-spirostane	-	Sol	Group freq	Elks	JCS	- (1954)	1739
$C_{31}H_{48}O_6$	12-Dihydromanogenin diacetate-2,3	890-1340	Sol	Group freq, I	Jones	JACS	75 (1953)	158
$C_{31}H_{48}O_6$	Gitogenin diacetate	800-1050 700-1400 890-1340 -	Sol Sol Sol Sol	Freq, Anal Spec, Ident Group freq, I Band freq	Wall Eddy Jones Klass	AC AC JACS JACS	24 (1952) 25 (1953) 75 (1953) 77 (1955)	1337 266 158 3829
$C_{31}H_{48}O_6$	20-isogitogenin diacetate	7-15 μ	Sol	Spec, Band freq	Eddy	AC	27 (1955)	1067
$C_{31}H_{48}O_6$	20-isomarkogenin diacetate	7-15 μ	Sol	Spec, Band freq	Eddy	AC	27 (1955)	1067

$C_{31}H_{48}O_6$	Rockogenin diacetate	-	-	Ident	Hirschmann	JACS	76 (1954)	4013
$C_{31}H_{48}O_6$	Samogenin acetate	800-1050	Sol	Freq, Anal	Wall	AC	24 (1952)	1337
		700-1400	Sol	Spec, Ident	Eddy	AC	25 (1953)	266
		890-1500	Sol	Spec, Group freq, I	Jones	JACS	75 (1953)	158
$C_{31}H_{48}O_6$	22a,5α-Spirostan-2β,3β-diol diacetate	-	Sol	Band freq	Herran	JACS	76 (1954)	5531
		-	Sol	Band freq	Klass	JACS	77 (1955)	3829
$C_{31}H_{48}O_6$	22a,5α-Spirostane-3β,6β-diol diacetate	-	Sol	Band freq	Romo	JACS	76 (1954)	5169
$C_{31}H_{48}O_6$	22b-Spirostane-2ϵ,3β-diol 2,3-diacetate	680-1400	Sol	Spec, Struct, Band freq	Wall	JACS	75 (1953)	4437
$C_{31}H_{48}O_7$	3β,6β-Diacetoxy-5α-hydroxy-22a-spirostane	-	Sol	Band freq	Romo	JOC	19 (1954)	1509
$C_{31}H_{48}O_7$	22a,5α-C-Nor-D-homo-spirostane-3β,17aϵ,18-triol 3,18-diacetate	-	-	Group freq	Hirschmann	JACS	76 (1954)	4013
$C_{31}H_{48}O_7$	5α,22a-Spirostane-3β,11α,12β-triol 3,11-diacetate	-	-	Iso	Wendler	JACS	77 (1955)	1632
$C_{31}H_{48}O_7$	5α,22a-Spirostane-3β,11α,12β-triol 3,12-diacetate	-	-	Iso	Wendler	JACS	77 (1955)	1632
$C_{31}H_{49}NO_4$	N,O-Diacetyltomatidine	2-15μ	S,Sol	Spec, Struct	Fontaine	JACS	73 (1951)	878
$C_{31}H_{49}NO_4$	6-Nitrostigmasteryl acetate	-	Sol	Band freq	Anagostopoulos	JACS	76 (1954)	532
$C_{31}H_{50}O_2$	3β-Acetoxy-$\Delta^{5,22}$-stigmastadiene	2.5-15μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{31}H_{50}O_2$	Methyl lup-2-en-28-oate	680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{31}H_{50}O_2$	Methyl urs-12-en-28-oate	1350-1500	Sol	Freq	Cole	JCS	- (1956)	1007
		1350-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{31}H_{50}O_2$	Δ -Stigmasta-dienol-3β-acetate	-	Sol	Freq	Jones	JACS	74 (1952)	5648

$C_{31}H_{50}O_2$	$\Delta^{}$-Stigmasta-dienol-3β-acetate	-	Sol	Freq	Jones	JACS	74 (1952)	5648
$C_{31}H_{50}O_2$	$\Delta^{7,22}$-Stigmastadienol-3β-acetate	-	-	Ident	Himilton	JCS	- (1952)	5051
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
$C_{31}H_{50}O_2$	ψ-Taraxasteryl formate	-	Sol	Group freq	Ames	JCS	- (1954)	1905
$C_{31}H_{50}O_3$	3β-Acetoxy-7α-methoxy $\Delta^{8(14)22}$-ergostadiene	-	-	Comparison	Fieser	JACS	75 (1953)	4404
$C_{31}H_{50}O_3$	14-Acetoxy-3β-methoxy ergosta-7,22-diene	-	Sol	Freq	Page	JCS	- (1955)	2017
$C_{31}H_{50}O_3$	Allobetulin formate	1350-1500	Sol	Freq	Cole	JCS	- (1956)	1007
$C_{31}H_{50}O_3$	Cholesteryl acetoacetate	-	-	Ident	Carroll	JACS	75 (1953)	5400
		-	Sol	Freq	Jones	JACS	74 (1952)	5648
$C_{31}H_{50}O_3$	Eburicoic acid	-	Sol	Freq	Holker	JCS	- (1953)	2422
$C_{31}H_{50}O_3$	Methyl 3α-hydroxy lup-20(29)-en-28-oate	950-3639	Sol	Spec, Band study	Allsop	JCS	- (1956)	4868
		680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{31}H_{50}O_3$	Methyl 3β-hydroxylup-20(29)-en-28-oate	950-3639	Sol	Spec, Band study	Allsop	JCS	- (1956)	4868
		680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{31}H_{50}O_3$	Methyl 3β-hydroxyolean-12-en-28-oate	680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
		3600-3650	Sol	Freq, Struct	Cole	JCS	- (1959)	1218
$C_{31}H_{50}O_3$	Methyl 3β-hydroxyolean-18-en-28-oate	1350-1500	Sol	Freq	Cole	JCS	- (1956)	1007
		680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{31}H_{50}O_3$	Methyl 3α-hydroxyurs-12-en-24-oate	1600-3700	Sol	H bond, Freq	Cole	JCS	- (1959)	1224
$C_{31}H_{50}O_3$	Methyl 3β-hydroxyurs-12-en-24-oate	1600-3700	Sol	H bond, Freq	Cole	JCS	- (1959)	1224

$C_{31}H_{50}O_3$	Methyl 3β-hydroxyurs-12-en-28-oate	1350-1500	Sol	Freq	Cole	JCS	- (1956)	1007
		680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
		3600-3650	Sol	Freq, Struct	Cole	JCS	- (1959)	1218
$C_{31}H_{50}O_3$	Methyl A-nor-2-keto-eburic-o-enoate	-	S	Band freq	Holker	JCS	- (1953)	2414
$C_{31}H_{50}O_3$	Methyl oleanolate	-	-	Ident	Djerassi	JACS	77 (1955)	3579
		1350-1500	Sol	Freq	Cole	JCS	- (1956)	1007
$C_{31}H_{50}O_3$	Methyl-3-oxolupan-28-oate	1350-1500	Sol	Freq	Cole	JCS	- (1956)	1007
$C_{31}H_{50}O_3$	Δ^5-Stigmastenol-3β-one--7-acetate	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{31}H_{50}O_3$	Δ^{22}-Stigmasten-3β-ol-6-one acetate	-	Sol	Band freq	Anagnostopoulos	JACS	76 (1954)	532
$C_{31}H_{50}O_4$	Δ^5-Cholestene-3β-4α-diol diacetate	-	Sol	Band freq	Fieser	JACS	76 (1954)	1728
$C_{31}H_{50}O_4$	$\Delta^{8(14)}$-Cholestene-3β, 7α-diol diacetate	-	Sol	Band freq, Ident	Fieser	JACS	75 (1953)	4404
$C_{31}H_{50}O_4$	Δ^5-Cholesten-4α-ol-3-one ethylene ketal acetate	-	Sol	Band freq	Fieser	JACS	76 (1954)	1728
$C_{31}H_{50}O_4$	3β,7α-Diacetoxy-Δ^5-cholestene	2.5-15μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{31}H_{50}O_4$	3β,7β-Diacetoxy-Δ^5-cholestene	2.5-15μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
$C_{31}H_{50}O_4$	Methyl 3β,19α-dihydroxy olean-12-en-28-oate	680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
		3600-3650	Sol	Freq, Struct	Cole	JCS	- (1959)	1218
$C_{31}H_{50}O_4$	Methyl echinocystate	-	-	Ident	Djerassi	JACS	77 (1955)	3579

$C_{31}H_{50}O_4$	Methyl echinocystate	-	-	Ident	Djerassi	JACS	77 (1955)	3579
$C_{31}H_{50}O_4$	Methyl hederagenin	1600-3700	Sol	Freq, H bond	Cole	JCS	- (1959)	1224
$C_{31}H_{50}O_4$	Methyl 3β-hydroxy-12-oxo oleanan-28-oate	1350-1500	Sol	Freq	Cole	JCS	- (1956)	1007
		3600-3650	Sol	Freq, Struct	Cole	JCS	- (1959)	1218
$C_{31}H_{50}O_4$	Methyl machaevinate	-	-	Ident	Djerassi	JACS	77 (1955)	1825
$C_{31}H_{50}O_4$	Methyl polyporenate	-	Sol	Group freq, Struct	Guider	JCS	- (1954)	3234
$C_{31}H_{50}O_4$	Methyl siaresinolate	1350-1500	Sol	Freq	Cole	JCS	- (1956)	1007
$C_{31}H_{50}O_5$	Dihydropseudosarsasapogenin diacetate	-	-	Ident, Iso	Scheer	JACS	77 (1955)	641
$C_{31}H_{50}O_5$	Dihydropseudosmilagenin diacetate	-	-	Ident, Iso	Scheer	JACS	77 (1955)	641
$C_{31}H_{50}O_5$	Dihydrotigogenin diacetate	-	-	Band study	Doukas	JACS	75 (1953)	5355
		-	Sol	Group freq	Elks	JCS	- (1954)	1739
		-	Sol	Group freq, Struct	Callow	JCS	- (1955)	1966
$C_{31}H_{50}O_5$	Methyl 3β,19α-dihydroxy-12-oxo-oleanan-28-oate	1350-1500	Sol	Freq	Cole	JCS	- (1956)	1007
		3600-1650	Sol	Freq	Cole	JCS	- (1959)	1218
$C_{31}H_{50}O_5$	Methyl arjunolate	-	Sol	Group freq	King	JCS	- (1954)	3995
$C_{31}H_{50}O_6$	Methyl dihydro-12-oxo-arjunolate	-	S	Group freq	King	JCS	- (1954)	3995
$C_{31}H_{50}O_6$	Methyl 12,13-epoxy-arjunolate	-	Sol	Group freq	King	JCS	- (1954)	3995
$C_{31}H_{50}O_6$	Methyl terminolate	-	S,Sol	Group freq	King	JCS	- (1955)	1333
$C_{31}H_{50}O_{10}$	Andromedotoxin	-	S	Group freq	Wood	JACS	76 (1954)	5689
$C_{31}H_{52}$	Eburico-8,20-diene	-	Sol	Group freq	Holker	JCS	- (1953)	2422
$C_{31}H_{52}O$	Cyclolaudenol	-	Sol	Freq	Bentley	JCS	- (1955)	596
		2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
		3600-3650	Sol	Freq, Struct	Cole	JCS	- (1959)	1218

$C_{31}H_{52}O$	Euphorbol	-	-	Group study	Barbour	JCS	-	(1955)	2194
$C_{31}H_{52}O_2$	Methyl lupan-28-oate	1350-1500	Sol	Freq	Cole	JCS	-	(1956)	1007
$C_{31}H_{52}O_2$	Δ^5-Stigmastenol-3β acetate	-	S,Sol	Group freq	Tarpley	APS	9	(1955)	69
$C_{31}H_{52}O_3$	Cholestanol-3β-aceto-acetate	-	Sol	Group freq	Jones	JACS	74	(1952)	5648
$C_{31}H_{52}O_3$	Methyl betulinate	-	-	Ident	Djerassi	JACS	76	(1954)	5780
$C_{31}H_{52}O_3$	1-n-Octane-2-n-octanoic acid methyl ester-5-t-butyl-7-methylchroman	2-15 μ	L	Spec	Sprengling	JACS	74	(1952)	2937
$C_{31}H_{52}O_3$	3β,16β,21-Trihydroxy eburico-7,9(11)-diene	-	-	Ident	Bowers	JCS	-	(1953)	2548
$C_{31}H_{52}O_4$	Δ^5-Cholesten-4α-ol-3-one dimethyl ketal acetate	-	Sol	Band freq	Fieser	JACS	76	(1954)	1728
$C_{31}H_{54}O_2$	Stigmastanol-3β acetate	- -	Sol S	Group freq Ident, Spec	Jones Idler	JACS JACS	74 75	(1952) (1953)	5648 1712
$C_{31}H_{54}O_2$	5β-stigmast-22-en-3-one 3-dimethyl ketal	-	-	Group freq	Slomp	JACS	77	(1955)	1216
$C_{31}H_{56}O_2$	3,3-Diethoxycholestane	-	Sol	Band freq	Page	JCS	-	(1955)	2017
$C_{31}H_{60}$	11 α-Decahydronaphthalenehencicosane	1.1-1.25 μ	L	Group Absorption, Anal	Evans	AC	23	(1951)	1604

C_{32} COMPOUNDS

$C_{32}H_{18}Cl_2O_3$	cis-meso-4,5-Bis-(2'-Chloro-phenyl)-3,6-diphenyl-phthalic anhydride	-	-	Ident	Shapiro	JACS	75	(1953)	4769
$C_{32}H_{18}Cl_2O_3$	trans-4,5-Bis-(2'-Chloro-phenyl)-3,6-diphenyl-	-	-	Ident	Shapiro	JACS	75	(1953)	4769

$C_{32}H_{18}Cl_2O_3$	trans-4,5-Bis-(2'-Chlorophenyl)-3,6-diphenylphthalic anhydride	-	-	Ident	Shapiro	JACS	75 (1953)	4769
$C_{32}H_{18}N_8$	Phthalocyanine (Metal free)	650-2000	S	Struct, Band study	Cannon	SA	4 (1951)	373
$C_{32}H_{20}O_4$	1,6-Dihydroxy-1,6-di-p-biphenyl-1,3,5-hexatriene-cis-3,4-dioic bislactone	2-15.5 μ	S	Spec, Group freq	Klingsberg	CR	54 (1954)	59
$C_{32}H_{22}O_2$	Tetraphenylphthalide	2-16 μ	S	Spec	Bonner	JOC	18 (1953)	426
$C_{32}H_{23}N_5O_2$	3,3 -Iminobis(4-benzylidene-1-phenyl-5-pyrazolone)	400-4000	-	Freq	Gagnon	CJC	37 (1959)	110
$C_{32}H_{24}$	1,2,5,6,9,10,13,14-Tetrabenzocyclohexadeca-1,3,5,7,9,11,13,15-Octene	-	Sol	Freq	Bergmann	JACS	75 (1953)	4281
$C_{32}H_{24}N_2O_4S_2$	Anthracene-p-quinone dibenzenesulfonimide	-	-	Group freq	Adams	JACS	74 (1952)	2603
$C_{32}H_{24}N_2O_5S_2$	2-(β-Hydroxy-α-naphthyl)-1,4-naphthalenedibenzenesulfonamide	-	-	Group study	Adams	JACS	74 (1952)	5560
$C_{32}H_{24}O$	2-Biphenyl trityl ketone	-	S	Spec, Struct	Mosher	JACS	73 (1951)	795
		-	-	Group freq, Ident	Fuson	JACS	77 (1955)	1138
$C_{32}H_{24}O$	O-(α, α-Diphenyl-o-tolyl)-benzophenone	-	S	Spec, Struct	Mosher	JACS	73 (1951)	795
$C_{32}H_{24}O$	9,10,10-Triphenyl-9,10-dihydro-9-phenanthrol	-	S	Spec, Struct, Ident	Mosher	JACS	73 (1951)	795
$C_{32}H_{24}O_2$	O-(o-Benzoylphenyl)-triphenyl carbinol	-	S	Spec, Ident, Struct	Mosher	JACS	73 (1951)	795
$C_{32}H_{24}O_8$	Tetra-m-cresotide	1700-1800	S,Sol	Group freq	Short	JCS	- (1952)	206

$C_{32}H_{24}O_8$	Tetra-o-cresotide	1700–1800	Sol	Group freq	Short	JCS	- (1952)	206
$C_{32}H_{24}O_8$	Tetra-p-cresotide	1700–1800	S	Group freq	Short	JCS	- (1952)	206
$C_{32}H_{26}$	Pentaphenylethane	650–2000	Sol	Spec	Cannon	SA	4 (1951)	373
		-	Sol	Group freq, I	Pinchas	JCS	- (1954)	863
$C_{32}H_{26}O$	Pentaphenylethanol	-	S	Group freq	Mosher	JACS	75 (1953)	4604
$C_{32}H_{26}O$	1-Triphenylacetyl-2-phenyl-1,2-dihydrobenzene enol form	-	S	Band study	Mosher	JACS	75 (1953)	4604
$C_{32}H_{26}O_2$	1,4-Dibenzal-1,4-dibenzoylbutane	-	-	Group freq, Struct	Fuson	JACS	77 (1955)	174
$C_{32}H_{26}O_2$	9,10-Dimethylanthracene photoxide	850–1300	-	Freq	Nikitin	OS	4 (1958)	702
$C_{32}H_{26}O_2$	1,1,8,8-Tetraphenyl-trans-2,trans-6-octadien-4-yne-1,8-diol	-	L	Group freq, I	Allan	JCS	- (1955)	1874
$C_{32}H_{26}O_2$	Tetraphenyl-o-xylylene-α,α'-diol	2–16 μ	S	Spec, Band study	Bonner	JOC	18 (1953)	426
$C_{32}H_{26}O_8$	Bis isocoumaranone	-	-	Band freq	Wasserman	JACS	81 (1955)	4615
$C_{32}H_{26}O_8$	O-Tetramethyl-5,5'-dibenzylellagic acid	5–6.15 μ	S	Struct	Stitt	JACS	77 (1959)	973
$C_{32}H_{27}NO$	1-Methyl-3,5-di-(p-phenylbenzylidene)-4-piperidone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{32}H_{27}NO$	1-Methyl-3,5-di-(p-phenylbenzyl)-4-pyridone	-	S	Group freq	Leonard	JACS	77 (1955)	1852
$C_{32}H_{27}NO_3$	Ethyl α-Cyano-β-(o-anisyl) β-(9-fluorenyl)-β-phenyl-propionate	-	-	Freq	Elderfeld	JACS	76 (1954)	5439

$C_{32}H_{27}N_5O_2$	N-Benzyl-3-(3-benzyl-ureido)-5,6-diphenyl-pyrazinamide	-	Sol	Band freq, Struct	Taylor	JACS	74 (1952)	1651
$C_{32}H_{30}$	9,10-Dimesitylphenanthrene	-	-	Prod. of react.	Fuson	JOC	16 (1951)	637
$C_{32}H_{32}N_2O_4$	p,p'-Bis(N,N-dimethyl-carboxamido)-benzo-pinacol	670-3600	S	Spec, Group freq	Lynn	JOC	16 (1951)	1546
$C_{32}H_{32}N_2O_4$	1,6(or 7)-Dicyclohexyl-amino-4,9-dihydroxy-perylene-3,10-quinone	754-3333	S	Table	Colderbank	JCS	- (1954)	1285
$C_{32}H_{32}O$	α-Benzhydryl-γ-phenyl-butyromesitylene	-	-	Group freq	Fuson	JOC	18 (1953)	1263
$C_{32}H_{32}O_2$	9,10-Dihydro-9,10-dihydroxy-9,10-dimesitylphenanthrene	-	-	Ident	Fuson	JOC	19 (1954)	373
$C_{32}H_{32}O_2$	(o-Mesitoylphenyl)-o-(α-mesitylbenzylalcohol)	-	-	Band freq, Struct	Fuson	JOC	16 (1951)	631
		-	-	Ident	Fuson	JACS	77 (1955)	3776
$C_{32}H_{34}$	Cyclodotriaconta-1,3,9,11,17,19,25,27-Octayne	3-15 μ	S	Spec	Wolovsky	JACS	81 (1959)	4600
$C_{32}H_{34}N_4O_4$	Deuteroporphyrin dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{32}H_{34}N_4O_4$	Rhodoporphyrin free acid	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{32}H_{34}O_8$	Gossypol dimethyl ether	2-12 μ	Sol	Spec, Group freq, Struct	O'Connor	JACS	76 (1954)	2368
$C_{32}H_{34}O_{12}S_4$	tetra-O-p-toluene-sulfonylerythritol	800-1620	S	Band freq	Tipson	JACS	74 (1952)	1354
$C_{32}H_{34-36}O_{14}$	Chartreusin	2-14.5 μ	S	Spec	Leach	JACS	75 (1953)	4011
$C_{32}H_{36}OSi$	Triphenylsilyloctyl phenyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826

$C_{32}H_{37}NO_4$	Desoxycorticosterone α-naphthylurethan	-	S	I, Group freq	Werbin	JACS	77 (1955)	4431
$C_{32}H_{38}N_2O_8$	Canescine	2-15 μ	S	Spec, Group freq	Klohs	JACS	77 (1955)	4084
		-	S	Struct	MacPhillamy	JACS	77 (1955)	4335
		2.5-12 μ	Sol	Spec	Neuss	JACS	77 (1955)	4087
$C_{32}H_{38}N_2O_{10}$	Deserpidinediol	-	S	Ident	MacPhillamy	JACS	77 (1955)	4335
$C_{32}H_{38}N_2O_{10}$	Isodeserpidinediol	-	S	Ident	MacPhillamy	JACS	77 (1955)	4335
$C_{32}H_{38}N_4$	Aetioporphyrin	670-4000	S	Spec, Assign	Falk	ASJR	4A (1951)	579
$C_{32}H_{39}NO_3$	Δ^5-Pregnenolone-α-naphthylurethan	-	S	Group freq, I	Werbin	JACS	77 (1955)	4431
$C_{32}H_{40}O_4Si_4$	2,4,6,8-Tetraethyltetraphenylcyclotetrasiloxane	2-16 μ	Sol	Spec	Young	JACS	70 (1948)	3758
$C_{32}H_{40}O_{19}\cdot 7\frac{1}{2}H_2O$	Robinin	-	-	Freq	Inglett	JOC	23 (1958)	93
$C_{32}H_{42}O_5$	21-Benzylidenepregnane-3α,20β-diol-11-one diacetate	-	-	Band study	Oliveto	JACS	76 (1954)	6111
$C_{32}H_{42}O_{11}$	Methyl polyacetylglucosiduronate of $\Delta^{3,5}$-androstadiene-3-ol-17-one	650-3700	L	Spec, Assign	Smakula	JACS	81 (1959)	1708
$C_{32}H_{43}BrO_6$	Methyl monobromodiketopyroquinovadienoate acetate	-	Sol	Group freq	Barton	JCS	- (1953)	3111
$C_{32}H_{44}OSi$	Triphenylsilyldecyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826

$C_{32}H_{44}O_2$	(10-p-10-p)-Cyclophandione-1,17	-	Sol	Group freq	Schubert	JACS	76 (1954)	5462
$C_{32}H_{44}O_4$	Methyl 3,16-dioxoeburico-7,9(11),24(28)-triene-21-oate	-	-	Ident	Bowers	JCS	- (1953)	2548
$C_{32}H_{44}O_5$	Δ^5-Pregnene-16α-benzyloxy-3,20-dione bisethylene ketal	-	S	Band freq	Bernstein	JACS	76 (1954)	5674
$C_{32}H_{44}O_5$	Δ^5-Pregnene-16α-benzyloxy-3β-ol-20-one acetate ethylene ketal	-	S	Band freq	Bernstein	JACS	76 (1954)	5674
$C_{32}H_{44}O_{11}$	Methylpolyacetylglucosiduronate of Δ^4-androstene-17β-ol-3-one	650-3700	Sol	Spec, Assign	Smakula	JACS	81 (1959)	1708
$C_{32}H_{44}O_{11}$	Methyl polyacetylglucopyranosiduronate of Δ^5-androstene-3β-ol-17-one	650-3700	L	Assign, Spec	Smakula	JACS	81 (1959)	1708
$C_{32}H_{46}N_2O_5$	Pilocereine acetate	-	Sol	Band freq	Djerassi	JACS	75 (1953)	3632
$C_{32}H_{46}N_4O_5$	B-Norcoprostane-3,6-dione-3-(2,4-dinitrophenylhydrazone	-	Sol	Band freq	Fieser	JACS	75 (1953)	4386
$C_{32}H_{46}O_4$	Pristimerol dimethyl ether	2-14 μ	S	Spec	Nakanishi	BCSJ	29 (1956)	7
$C_{32}H_{46}O_5$	3β-Acetoxylanosta-5:8-diene-7:11:12-trione	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{32}H_{46}O_5$	18-Dehydroglycyrrhetic acid 3-acetate	-	Sol	Band freq	Djerassi	JACS	76 (1954)	4085

$C_{32}H_{46}O_6S$	6-Keto-3α-p-toluene-sulfonoxy allocholanic acid, methyl ester	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{32}H_{46}O_6S$	Methyl 3α-p-toluene-sulfonoxy-12-ketocholanate	-	-	Band freq	Reich	JOC	16 (1951)	1753
$C_{32}H_{46}O_{11}$	Methyl polyacetyl-glucopyranosiduronate of androstane-3β-ol-17-one	650-3700	Sol	Spec, Assign	Smakula	JACS	81 (1959)	1708
$C_{32}H_{47}NO$	4-Phenyl-Δ^5-4-aza-cholestenone-3	2-12 μ	Sol	Band freq	Woodwards	JACS	74 (1952)	4223
$C_{32}H_{48}Br_2C_5$	3β,7β-Diacetoxy-22,23-dibromo-14β-ergost-8-en-11-one	-	S	Group freq	Grigor	JCS	- (1954)	2333
$C_{32}H_{48}Br_2O_5$	22,23-Dibromo-3β,7β-diacetoxyergost-8-en-11-one	-	S	Group freq	Grigor	JCS	- (1954)	2333
$C_{32}H_{48}O_3$	Anhydro-oxoelemadienyl acetate-I	-	Sol	Band freq	Halsoll	JCS	- (1953)	4139
$C_{32}H_{48}O_3$	Anhydro-oxoelemadienyl acetate-II	-	Sol	Band freq	Halsoll	JCS	- (1953)	4139
$C_{32}H_{48}O_3$	Ergosteryl acetoacetate	-	Sol	Spec, Ident	Bader	JACS	74 (1952)	3992
$C_{32}H_{48}O_4$	3β-Acetoxylanosta-5:8-dien-7:11-dione	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{32}H_{48}O_4$	Methyl 3,16-dioxoeburico-7,9(11)-diene-21-oate	- -	S -	Band freq Ident	Bowers Cort	JCS JCS	- (1953) - (1954)	2548 3713
$C_{32}H_{48}O_4$	Methyl 3β-hydroxy-16-oxoeburico-7,9(11),24(28)-triene-21-oate	-	Sol	Band freq, Struct	Bowers	JCS	- (1953)	2548
$C_{32}H_{48}O_4$	Methyl polyporenate C	-	Sol	Freq, Struct	Bowers	JCS	- (1953)	2548

$C_{32}H_{48}O_4$	Thurberogenin acetate	-	-	Ident	Djerassi	JACS	77 (1955)	1200
$C_{32}H_{48}O_5$	3β-Acetoxy-13β-hydroxy-12-oxooleanan-28-oic 13(28)lactone	1350-1500	Sol	Freq	Cole	JCS	- (1956)	1007
$C_{32}H_{48}O_5$	3β-Acetoxy-23-oxoolean-12-en-28-oic acid	1500-3700	Sol	Freq	Cole	JCS	- (1959)	2005
$C_{32}H_{48}O_5$	3β,5α-Diacetoxy-9α,11α-epoxyergosta-7,22-diene	-	Sol	Group freq	Bladon	JCS	- (1953)	2921
$C_{32}H_{48}O_5$	3β,5α-Diacetoxyergosta-7,22-diene-11-one	-	Sol	Group freq	Bladon	JCS	- (1953)	2921
$C_{32}H_{48}O_5$	3β,5α-Diacetoxyergosta-8,22-dien-11-one	-	Sol	Group freq	Bladon	JCS	- (1953)	2921
$C_{32}H_{48}O_5$	3β,5α-Diacetoxyergosta-8(9),22-dien-7-one	-	Sol	Group freq	Elks	JCS	- (1954)	463
$C_{32}H_{48}O_5$	3β,5α-Diacetoxy ergosta-9(11),22-dien-7-one	-	Sol	Group freq	Elks	JCS	- (1954)	463
$C_{32}H_{48}O_5$	3β,5α-Diacetoxy-9β-ergosta-7,22-dien-11-one	-	Sol	Group freq	Bladon	JCS	- (1953)	2921
$C_{32}H_{48}O_5$	3β,7α-Diacetoxyergosta-8,22-dien-11-one	-	L	Group freq	Henbest	JCS	- (1954)	728
$C_{32}H_{48}O_5$	3β,7β-Diacetoxyergosta-8,22-dien-11-one	-	L	Group freq	Henbest	JCS	- (1954)	728
$C_{32}H_{48}O_5$	3β,11α-Diacetoxyergosta-5,8(9)-dien-7-one	-	S	Group freq	Bladon	JCS	- (1953)	2916
$C_{32}H_{48}O_5$	Dumortierigenin monoacetate	-	Sol	Group freq	Djerassi	JACS	76 (1954)	2969
$C_{32}H_{48}O_5$	$\Delta^{7,14,22}$-Ergostatriene-3β,5α,6α-triol 3,6-diacetate	-	Sol	Band freq	Fieser	JACS	75 (1953)	4066

$C_{32}H_{48}O_6$	3α,12α-Diacetoxy-7,24-dioxo-26,27-bisnorlanost-8-ene	-	Sol	Band freq	Halsall	JCS	-	(1954)	2385
$C_{32}H_{49}ClO_3$	3β-Acetoxyolean-12-en-28-oyl chloride	1350-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{32}H_{49}NO_9$	Cevadine	2-13μ	Sol	Spec	Kupchan	JACS	75	(1953)	5519
		-	Sol	Group freq	Barton	JCS	-	(1954)	3950
$C_{32}H_{50}O_2$	Olea-11,13(18)-dienyl acetate	-	Sol	Band freq	Barton	JCS	-	(1955)	876
$C_{32}H_{50}O_2$	19α(H)-Taraxasta-20(30),21-dien-3β-yl acetate	-	S	Band freq	Ames	JCS	-	(1954)	1905
$C_{32}H_{50}O_3$	3β-Acetoxylanosta-8:24-dien-26-al	2.575μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{32}H_{50}O_3$	3β-Acetoxylup-20(29)-en-30-al	1350-1500	Sol	Freq	Cole	JCS	-	(1956)	1007
		680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{32}H_{50}O_3$	3β-Acetoxyolean-18-en-28-al	1350-1500	Sol	Freq	Cole	JCS	-	(1956)	1007
		680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{32}H_{50}O_3$	3β-Acetoxyurs-12-en-11-one	1350-1500	Sol	Freq	Cole	JCS	-	(1956)	1007
		680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{32}H_{50}O_3$	Anhydro-oxoelemenyl acetate-II	-	S	Band freq	Halsall	JCS	-	(1953)	4139
$C_{32}H_{50}O_3$	7-Ketolanosta-5,8-dien-3β-yl acetate	-	Sol	Freq	Barton	JCS	-	(1953)	1842
$C_{32}H_{50}O_4$	3β-Acetoxy-13β-hydroxy-oleanan-28-oic-13(28)-lactone	1350-1500	Sol	Freq	Cole	JCS	-	(1956)	1007
$C_{32}H_{50}O_4$	3β-Acetoxy-13β-hydroxy-18α-oleanan-28-oic-13(28)-lactone	1350-1500	Sol	Freq	Cole	JCS	-	(1956)	1007

$C_{32}H_{50}O_4$	3β-Acetoxylanost-5-ene-7;11-dione	2.5-15 μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{32}H_{50}O_4$	3β-Acetoxylanost-8-ene-7;11-dione	2.5-15 μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{32}H_{50}O_4$	3β-Acetoxylup-20(29)-en-28-oic acid	1500-3700	Sol	Freq	Cole	JCS	-	(1959)	2005
$C_{32}H_{50}O_4$	3β-Acetoxyolean-12-en-28-oic acid	1500-3700	Sol	Freq	Cole	JCS	-	(1959)	2005
$C_{32}H_{50}O_4$	3β-Acetoxy-18-olean-12-en-28-oic acid	1500-3700	Sol	Freq	Cole	JCS	-	(1959)	2005
$C_{32}H_{50}O_4$	Methyl 3β-hydroxy-16-oxoeburico-7,9(11)-diene-21-oate	-	Sol	Band freq, Struct	Bowers	JCS	-	(1953)	2548
$C_{32}H_{50}O_4$	Methyl 16β-hydroxy-3-oxo-eburico-7,9(11)-diene-21-oate	-	Sol	Band freq	Bowers	JCS	-	(1953)	2548
$C_{32}H_{50}O_4$	Olean-18-ene-3β,28-diol diformate	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{32}H_{50}O_4$	Oleanolic acid acetate	-	-	Band freq, Ident	Djerassi	JACS	75	(1953)	2254
$C_{32}H_{50}O_4$	18-Isooleanolic acid lactone acetate	-	Sol	Band freq	Djerassi	JACS	76	(1954)	2969
		-	-	Ident	Djerassi	JACS	77	(1955)	1200
$C_{32}H_{50}O_4$	Olean-18-en-3β,28-diol diformate	1350-1500	Sol	Freq	Cole	JCS	-	(1956)	1007
$C_{32}H_{50}O_5$	3β-Acetoxy-12α;13β-dihydroxyoleanan-28-oic 13(28)-lactone	1350-1500	Sol	Freq	Cole	JCS	-	(1956)	1007
		3600-3650	Sol	Freq, Struct	Cole	JCS	-	(1959)	1218
$C_{32}H_{50}O_5$	3β,11α-Diacetoxy-5α,8α-epoxyergost-9-ene	-	Sol	Group freq	Clayton	JCS	-	(1953)	2009
$C_{32}H_{50}O_5$	3β,5α-Diacetoxyergost-22-en-11-one	-	S	Group freq	Bladon	JCS	-	(1954)	125

$C_{32}H_{50}O_5$	Hecogenin tetrahydropyranyl ether	-	-	Band study	Hirschmann	JACS	76 (1954)	4013
$C_{32}H_{50}O_5$	Stellatogenin monoacetate	-	Sol	Freq	Djerassi	JACS	77 (1955)	1200
$C_{32}H_{50}O_5S$	22a,5α-Spirostan-3β-ol-12-one acetate trimethylene hemithioketal	-	Sol	Ident	Djerassi	JACS	75 (1953)	3704
$C_{32}H_{50}O_{13}$	Steviolbioside	-	-	Group study	Wood	JOC	20 (1955)	875
$C_{32}H_{51}BrO_3$	11β-Bromo-12-oxo-18-oleanan-3β-yl acetate	-	Sol	Group freq	Allan	JCS	- (1955)	2125
$C_{32}H_{52}N_2O_3$	Lycopodine	-	Sol	Group freq	Marion	JACS	73 (1951)	305
$C_{32}H_{52}O_2$	Cycloartenyl acetate	-	Sol	Group study	Cole	JCS	- (1954)	3810
$C_{32}H_{52}O_2$	9:19-Cyclolanost-24-en 3α-yl acetate	950-3639	-	Spec, Freq	Allsop	JCS	- (1956)	4868
$C_{32}H_{52}O_2$	9:19-Cyclolanost-24-en 3β-yl acetate	950-3639	-	Spec, Freq	Allsop	JCS	- (1956)	4868
$C_{32}H_{52}O_2$	Isoeuphadienyl acetate	-	Sol	Band freq	Barton	JCS	- (1955)	876
$C_{32}H_{52}O_2$	Lanosta-5,7-dien-3β-yl-acetate	-	Sol	Freq	Barton	JCS	- (1953)	1842
$C_{32}H_{52}O_2$	Lanosta-7:9(11)-dien-3β-yl acetate	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{32}H_{52}O_2$	Lanosta-8,24-dienyl acetate	3-14 μ	Sol	Spec, Band study	Cole	JCS	- (1954)	3807
$C_{32}H_{52}O_2$	Lanosta-8:24-dien-3β-yl acetate	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{32}H_{52}O_2$	Methyl eburico-2,8-dienoate	-	S	Group freq	Holker	JCS	- (1953)	2414
$C_{32}H_{52}O_2$	Lup-20(29)-en-3α-yl-acetate	950-3639 680-3700	- Sol	Spec Freq, I	Allsop Cole	JCS JCS	- (1956) - (1957)	4868 1332

$C_{32}H_{52}O_2$	Lup-20(29)-en-3β-yl acetate	950-3639	Sol	Spec	Allsop	JCS	-	(1956)	1007
		1350-1500	Sol	Freq	Cole	JCS	-	(1956)	1007
		680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{32}H_{52}O_2$	Methyl dehydrodideoxy-dihydrotumulosate	-	-	Ident	Cort	JCS	-	(1954)	2713
$C_{32}H_{52}O_2$	Olean-12-en-3α-yl acetate	950-3639	-	Spec	Allsop	JCS	-	(1956)	4868
$C_{32}H_{52}O_2$	Olean-12-en-3β-yl acetate	950-3639	Sol	Spec, Band study	Allsop	JCS	-	(1956)	4868
$C_{32}H_{52}O_2$	Phyllanthyl acetate	-	Sol	Freq	Cole	JCS	-	(1954)	3810
$C_{32}H_{52}O_2$	19α(H)-Taraxast-20-en-3β-yl acetate	-	S	Ident	Ames	JCS	-	(1954)	1905
$C_{32}H_{52}O_2$	ψ-Taraxasteryl acetate	-	Sol	Group freq	Ames	JCS	-	(1954)	1905
$C_{32}H_{52}O_2$	Taraxeryl acetate	-	S	Freq	Brooks	JCS	-	(1955)	1675
$C_{32}H_{52}O_2$	Urs-12-en-3α-yl acetate	950-3639	-	Spec, Freq	Allsop	JCS	-	(1956)	4868
$C_{32}H_{52}O_2$	Urs-12-en-3β-yl acetate	950-3639	-	Spec, Band study	Allsop	JCS	-	(1956)	4868
		1350-1500	Sol	Freq	Cole	JCS	-	(1956)	1007
		680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{32}H_{52}O_3$	3β-Acetoxy-7α-ethoxy-$\Delta^{8,14,22}$-Ergostadiene	-	S,Sol	Group freq, Ident	Fieser	JACS	75	(1953)	4404
$C_{32}H_{52}O_3$	3β-Acetoxylanost-8-en-7-one	-	Sol	Freq	Barton	JCS	-	(1953)	1842
		2.5-15μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{32}H_{52}O_3$	3β-Acetoxylanost-8-en-11-one	2.5-15μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{32}H_{52}O_3$	3β-Acetoxylup-20(29)-en-28-ol	3600-3650	Sol	Struct, Freq	Cole	JCS	-	(1959)	1218
$C_{32}H_{52}O_3$	3β-Acetoxyoleanan-12-one	1350-1500	Sol	Freq	Cole	JCS	-	(1956)	1007

$C_{32}H_{52}O_3$	3β-Acetoxyolean-18-en-28-ol	3600-3650	Sol	Struct, Freq	Cole	JCS	-	(1959)	1218
$C_{32}H_{52}O_3$	11-Keto-Δ^9-lanostenol-2 acetate	-	Sol	Struct, Group freq	McGhie	JCS	-	(1952)	3176
$C_{32}H_{52}O_3$	Lup-20(29)-ene-3β:28-diol 3-acetate	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{32}H_{52}O_3$	Methyl 16α-hydroxyeburico-7,9(11)-dien-21-oate	-	S	Freq	Bowers	JCS	-	(1954)	3070
$C_{32}H_{52}O_3$	Methyl 16α-hydroxy-20-isoeburico-7,9(11)-dien-21-oate	-	S	Freq	Bowers	JCS	-	(1954)	3070
$C_{32}H_{52}O_3$	Olean-18-ene-3β:28-diol 3-acetate	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{32}H_{52}O_3$	11-Oxoeuph-8-enyl acetate	-	S	Group freq	Barton	JCS	-	(1955)	876
$C_{32}H_{52}O_4$	3β-Acetoxylanostane-7:11-dione	2.5-15μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{32}H_{52}O_4$	3β,5α-Diacetoxyergost-14-one	-	-	Group freq	Bladon	JCS	-	(1954)	736
$C_{32}H_{52}O_4$	3β,11-Diacetoxyergost-9(11)-ene	-	Sol	Group freq	Cramshaw	JCS	-	(1954)	731
$C_{32}H_{52}O_5$	3β,11α-Diacetoxy-9α,11α-epoxyergostane	-	-	Group freq	Cramshaw	JCS	-	(1954)	731
$C_{32}H_{52}O_5$	3β,5α-Diacetoxy-9β-ergostan-11-one	-	Sol	Group freq	Bladon	JCS	-	(1953)	2921
$C_{32}H_{52}O_5$	$\Delta^{8(14)}$-Ergostene-3β,5α,6α-triol 3,6-diacetate	-	Sol	Band freq, Ident	Fieser	JACS	75	(1953)	4066
$C_{32}H_{53}N_3O_3$	Cholesteryl acetoacetate semicarbazone	-	-	Freq	Bader	JACS	73	(1951)	4195

$C_{32}H_{53}O_2$	Methyl betulate	1350–1500	Sol	Freq	Cole	JCS	-	(1956)	1007
$C_{32}H_{54}$	5-(7-Tetrahydronaphthyl) -n-docosene-5	5400–8900	Sol	Assign, Spec	Rose	JRNB	19	(1937)	143
$C_{32}H_{54}O_2$	Cycloartanyl acetate	9–11 μ	Sol	Spec, Freq	Barton	JCS	-	(1951)	1444
		-	Sol	Freq	Cole	JCS	-	(1954)	3810
$C_{32}H_{54}O_2$	Isotirucallenyl acetate	-	-	Group study	Barbour	JCS	-	(1955)	2194
$C_{32}H_{54}O_2$	Δ^7-Lanostenol acetate	-	-	Ident	Woodward	JACS	76	(1954)	2852
$C_{32}H_{54}O_2$	Lanostenyl acetate	-	Sol	Struct	Barton	JCS	-	(1951)	3147
$C_{32}H_{54}O_2$	Lanost-7-en-3β-yl acetate	2.5–15 μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{32}H_{54}O_2$	Lanost-8-en-3α-yl acetate	950–3639	-	Spec, Band study	Allsop	JCS	-	(1956)	4868
$C_{32}H_{54}O_2$	Lanost-8-en-3β-yl acetate	950–3639	-	Spec, Band study	Allsop	JCS	-	(1956)	4868
		2.5–15 μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{32}H_{54}O_2$	Lanost-9(11)-en-3β-yl acetate	2.5–15 μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{32}H_{54}O_3$	3β-Acetoxylanostan-11-one	2.5–15 μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{32}H_{54}O_3$	7-Oxoeuphanyl acetate	-	S	Ident	Barton	JCS	-	(1955)	876
$C_{32}H_{54}O_4$	3β,11β-Diacetoxyergostane	-	Sol	Group freq	Cramshaw	JCS	-	(1954)	731
$C_{32}H_{54}O_4$	ψ-Taraxastanetriol 3-acetate	-	-	Ident	Halsall	JCS	-	(1954)	1902
$C_{32}H_{56}$	5-(7-Tetrahydronaphthyl) -n-docosane	5400–8900	Sol	Assign, Spec	Rose	JRNB	19	(1937)	143
$C_{32}H_{56}O_3$	3β-Acetoxylanostan-11-ol	3600–3650	Sol	Freq	Cole	JCS	-	(1959)	1218
$C_{32}H_{56}O_3$	7β-Acetoxylanostan-11α-ol	3600–3650	Sol	Freq	Cole	JCS	-	(1959)	1218

$C_{32}H_{62}$	5-(2-Decahydronaphthyl)-n-docosane	5400-8900	Sol	Spec, Assign	Rose	JRNB	19 (1937)	143
$C_{32}H_{64}O_4$	Dipalmitoylperoxide	-	Sol	Group freq	Davison	JCS	- (1951)	2456
$C_{32}H_{64}O_4$	Di-n-undecylsebacate	2-16 μ	Sol	Spec	Stahl	JACS	74 (1952)	5489
$C_{32}H_{66}$	n-Ditriacontane	721-732 700-3000	L,S Sol	Temp. effect on bands Molecular Ext. Coefficient	Robert Jones	CPR SA	234 (1952) 9 (1957)	2270 235

C_{33} COMPOUNDS

$C_{33}H_{24}O$	2,3,6,7-Tetraphenyl-$\Delta^{2,6,8}$-cyclo-indatrienone	1600-1800	Sol	Group freq	Fuson	JACS	76 (1954)	2526
$C_{33}H_{24}O$	3,3,5,6-Tetraphenyl-indanone	2-16 μ	S	Spec, Struct	Allen	JOC	20 (1955)	315
$C_{33}H_{26}N_2O_7S_2$	Ethyl-1,4-naphtho-quinone dibenzene-sulfonimido-2-benzoyl acetate	-	-	Group study	Adams	JACS	74 (1952)	5557
$C_{33}H_{26}O$	p-Benzylphenyl trityl ketone	-	-	Group freq	Fuson	JACS	77 (1955)	1138
$C_{33}H_{26}O$	1,1,2,3,3-Pentaphenyl-2-propen-1-ol	-	-	Group freq, Ident	Lutz	JACS	77 (1955)	366
$C_{33}H_{28}N_2O_7S_2$	Ethyl-1,4-naphthalene dibenzenesulfonamido-2-benzoyl acetate	-	-	Group study	Adams	JACS	74 (1952)	5557
$C_{33}H_{28}O$	2-Hydroxy-1,1,1,3,3-pentaphenylpropane	-	Sol	Group freq, I	Pinchas	JCS	- (1954)	863

$C_{33}H_{29}NO_2$	3-Cyano-1,6-diphenyl-3,4-di-O-tolyl-hexane-1,6-dione	-	-	Band study	Potts	JCS	- (1955)	2466
$C_{33}H_{33}N_3O_3$	3,4,6,7,8,10,11,12-Octahydro-3,7,11-tribenzyl-2H-benzo 1,2-e,3,4-e',5,6-e" tris-m-oxazine	2-15 μ	S	Spec	Burke	JACS	72 (1950)	4691
$C_{33}H_{34}N_4O_5$	2-Formyldeuteroporphyrin dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{33}H_{34}N_4O_5$	4-Formyldeuteroporphyrin dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{33}H_{38}N_8O_{10}$	3α-Hydroxy-11,20-diketo-17α-pregnan-21-al-20,21-bis-(2,4-dinitrophenyl-hydrazone)	-	S	Ident	Mattox	JACS	74 (1952)	4340
$C_{33}H_{38}N_8O_{10}$	3α-Hydroxy-11,20-diketo pregnan-21-al-20,21-bis-(2,4-dinitrophenyl-hydrazone)	-	S	Ident	Mattox	JACS	74 (1952)	4330
$C_{33}H_{38}OSi$	Triphenylsilylnonyl phenyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{33}H_{40}N_2O_9$	Reserpine	2-12 μ	Sol	Spec, Group freq	Djerassi	JACS	75 (1953)	5446
		-	-	Group freq, Struct	Klohs	JACS	75 (1953)	4867
		-	Sol	Group freq	Neuss	JACS	75 (1953)	4870
		-	-	Ident	Djerassi	JACS	76 (1954)	4463
		-	-	Ident	Klohs	JACS	76 (1954)	1381
		-	S	Spec	Klohs	JACS	76 (1954)	2843
		2.5-12 μ	S,Sol	Spec, Struct, Group freq	Neuss	JACS	76 (1954)	2463
		-	-	Stereo	Diassi	JACS	77 (1955)	2028
		-	-	Ident, Iso	MacPhillamy	JACS	77 (1955)	4335
		5-12 μ	Sol	Spec	Neuss	JACS	77 (1955)	4087
$C_{33}H_{40}N_2O_9$	3-isoreserpine	-	-	Ident	MacPhillamy	JACS	77 (1955)	4335

$C_{33}H_{40}N_4O_7$	22a-Spirosta-4,8-diene-3,11-dione-3-2,4-dinitrophenylhydrazone	-	Sol	Group freq	Djerassi	JCS	- (1954)	2346
$C_{33}H_{43}NO_7$	22,26-Imino-5,13,15,17(17a)-jervatetraene-3β,23-diol-11-one triacetate	-	S	Band freq	Wintersteiner	JACS	75 (1953)	4938
$C_{33}H_{45}NO_6$	Triacetyl dihydro-11-ketoveratramine	-	-	Band freq, Ident	Wintersteiner	JACS	74 (1952)	4474
$C_{33}H_{46}OSi$	Triphenylsilylundecyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{33}H_{47}NO_7$	17a,22,26-Nitrilo-jerv-5-ene-3β,17,23-triol-11-one-3,17,23-triacetate	-	S	Band freq	Wintersteiner	JACS	75 (1953)	4938
$C_{33}H_{47}NO_7 \cdot HClO_4$	22,26-Imino-3β,17,23-triacetoxy-5,13(17a)-jervadiene-11-one perchlorate	-	S	Band freq	Wintersteiner	JACS	76 (1953)	4938
$C_{33}H_{47}NO_8$	22,26-Imino-5,13(17a)-jervadiene-3β,17,23-triol-11-one-3,23,N-triacetate	-	S	Band freq	Wintersteiner	JACS	76 (1953)	4938
$C_{33}H_{47}NO_8$	22,26-Imino-16-jervene-3β,23-diol-11,15-dione-3,23,N-triacetate	-	S	Band freq	Wintersteiner	JACS	76 (1954)	5609
$C_{33}H_{47}NO_8$	22,26-Imino-17(20)-isojervene-3β,23-diol-11,16-dione-3,23,N-triacetate	-	S	Band freq	Wintersteiner	JACS	76 (1954)	5609
$C_{33}H_{47}NO_{10}$	Cevagenine C-ortho-acetate diacetate	2-13 μ	Sol	Spec, Group freq, Ident	Kupchan	JACS	77 (1955)	686

$C_{33}H_{48}N_4O_4$	Δ-Cholesten-3-one-2,4-dinitrophenylhydrazone	-	Sol	Ident	Beereboom	JACS	75 (1953)	3500

$C_{33}H_{48}N_4O_4$	Δ^{1}-Cholesten-3-one-2,4-dinitrophenylhydrazone	-	Sol	Ident	Beereboom	JACS	75 (1953)	3500
$C_{33}H_{48}N_4O_4$	Δ^{4}-Cholesten-3-one-2,4-dinitrophenylhydrazone	-	Sol	Band freq, Group freq	Reich	JOC	18 (1953)	822
$C_{33}H_{48}N_4O_5$	Cholestane-3,6-dione-2,4-dinitrophenylhydrazone	-	Sol	Band freq, Ident	Fieser	JACS	75 (1953)	4377
$C_{33}H_{48}N_4O_6$	Ketone-104-2,4-dinitrophenylhydrazone	-	Sol	Band freq	Fieser	JACS	75 (1953)	4418
$C_{33}H_{48}O_5$	Methyl-3β-acetoxy-11-oxooleana-12;18-dien-28-oate	1350-1500	Sol	Group freq, Ident	Cole	JCS	- (1956)	1007
$C_{33}H_{49}NO$	4-Benzyl-Δ^{5}-4-aza-cholestenone-3	2-12 μ	Sol	Band freq	Woodward	JACS	74 (1952)	4223
$C_{33}H_{49}NO_7$	22,26-Imino-16-jervene-3β,23-diol-11-one-3,23,N-triacetate	-	S	Band freq	Wintersteiner	JACS	76 (1954)	5609
$C_{33}H_{49}NO_7$	22,26-Imino-17(20)-isojervene-3β,23-diol-11-one-3,23,N-triacetate	-	S	Band freq	Wintersteiner	JACS	76 (1954)	5609
$C_{33}H_{49}NO_7$	16,22,26-Nitrilojervane-3β,17,23-triol-11-one	-	S	Band freq	Wintersteiner	JACS	76 (1954)	5609
$C_{33}H_{49}NO_7$	Veratrosine	-	-	Ident	Klohs	JACS	75 (1953)	2133
$C_{33}H_{49}NO_{10}$	Cevinilal C-orthoacetate diacetate	-	-	Group freq	Kupchan	JACS	77 (1955)	683
$C_{33}H_{49}NO_{10}$	Zygadenine triacetate	2-13 μ	Sol	Spec	Kupchan	JACS	75 (1953)	1025
		-	Sol	Ident, Band freq	Kupchan	JACS	77 (1955)	689
$C_{33}H_{49}NO_{10}$	Pseudozygadenine triacetate	2-13 μ	Sol	Spec	Kupchan	JACS	75 (1953)	1025

$C_{33}H_{49}NO_{11}$	Protocevine triacetate	2-13 μ	Sol	Spec, Ident	Kupchan	JACS	75	(1953)	5519
$C_{33}H_{50}O_4$	3-Acetoxy-23-hydroxy eburico-8,24(28)-dien-21-oic-lactone	-	Sol	Group freq	Holker	JCS	-	(1953)	2422
$C_{33}H_{50}O_4$	3β-Acetoxy-16β-hydroxy-20-isoebruico-7,9(11)-dien-21-oic acid lactone	-	Sol	Freq	Bowers	JCS	-	(1954)	3070
$C_{33}H_{50}O_4$	Methyl-3β-acetoxyoleana-9(11),12-dien-28-oate	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{33}H_{50}O_4$	Methyl-3β-acetoxyoleana-11,13(18)-dien-28-oate	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{33}H_{50}O_4$	Methyl-3β-acetoxyoleana-12,18-dien-28-oate	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{33}H_{50}O_5$	Methyl 3β-acetoxy-11-oxo-18α-olean-12-en-28-oate	1350-1500	Sol	Group freq, Ident	Cole	JCS	-	(1956)	1007
$C_{33}H_{50}O_5$	Methyl-3β-acetoxy-11-oxoolean-12-en-28-oate	1350-1500 680-3700	Sol Sol	Group freq, Ident Freq, I	Cole Cole	JCS JCS	- -	(1956) (1957)	1007 1332
$C_{33}H_{50}O_5$	Methyl-3β-acetoxy-11-oxoolean-12-en-29-oate	1350-1500	Sol	Assign	Cole	JCS	-	(1956)	1007
$C_{33}H_{50}O_5$	Methyl-3β-acetoxy-11-oxoolean-12-en-30-oate	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{33}H_{50}O_5$	Methyl-3β-acetoxy-11-oxo-18-isoolean-12-en-28-oate	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{33}H_{50}O_5$	Methyl-3β-acetoxy-19-oxo-18α-olean-12-en-28-oate	1350-1500	Sol	Group freq, Ident	Cole	JCS	-	(1956)	1007
$C_{33}H_{50}O_5$	Methyl-3β-acetoxy-11-oxours-12-ene-28-oate	1350-1500 680-3700	Sol Sol	Assign Freq, I	Cole Cole	JCS JCS	- -	(1956) (1957)	1007 1332

$C_{33}H_{50}O_6$ Methyl acetoxy- - Sol Band freq, Struct Halsall JCS - (1953) 4139

$C_{33}H_{50}O_6$	Methyl acetoxy-dioxoelemenate	-	Sol	Band freq, Struct	Halsall	JCS	-	(1953)	4139
$C_{33}H_{50}O_6$	Methyl-3β-acetoxy-12, 19-dioxooleanan-28-oate	1350-1500	Sol	Group freq, Ident	Cole	JCS	-	(1956)	1007
$C_{33}H_{50}O_8$	Digitogenin triacetate	-	Sol	Band freq	Klass	JACS	77	(1955)	3829
$C_{33}H_{50}O_8$	5α,22a-Spirostane-3β,11α, 12β-triol triacetate	-	-	Group study	Wendler	JACS	77	(1955)	1632
$C_{33}H_{50}O_9$	22a,5α-Spirostane-2α,3β-diol-15-one dicathylate	-	Sol	Band freq	Klass	JACS	77	(1955)	3829
$C_{33}H_{50}O_9$	22a,5α-14-Isospirostane-2α,3β-diol-15-one dicathylate	-	Sol	Band freq	Klass	JACS	77	(1955)	3829
$C_{33}H_{52}O_3$	$\Delta^{5,22}$-Stigmastadienol 3β-acetoacetate	-	Sol	Group freq	Jones	JACS	74	(1952)	5648
$C_{33}H_{52}O_4$	O-Acetyleburicoic acid	-	-	Ident	Cort	JCS	-	(1954)	3713
$C_{33}H_{52}O_4$	Methyl-3α-acetoxylup-20(29)-en-28-oate	950-3639 680-3700	Sol Sol	Spec, Freq, Ident Freq, I	Allsop Cole	JCS JCS	- -	(1956) (1957)	4868 1332
$C_{33}H_{52}O_4$	Methyl-3β-acetoxylup-20(29)-en-28-oate	950-3639 680-3700	Sol Sol	Spec, Freq, Ident Freq, I	Allsop Cole	JCS JCS	- -	(1956) (1957)	4868 1332
$C_{33}H_{52}O_4$	Methyl-3β-acetoxylup-olean-12-en-28-oate	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{33}H_{52}O_4$	Methyl-3β-acetoxy-olean-18-en-28-oate	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{33}H_{52}O_4$	Methyl-3β-acetoxy-18-isoolean-12-en-28-oate	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{33}H_{52}O_4$	Methyl-3β-acetoxy-urs-12-en-28-oate	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{33}H_{52}O_4$	Methyl morolate acetate	11-13 μ	Sol	Spec, Group freq	Barton	JCS	-	(1951)	257

$C_{33}H_{52}O_5$	Methyl-3β-acetoxy-19α-hydroxyolean-12-en-28-oate	680-3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{33}H_{52}O_5$	Methyl-3β-acetoxy-11-oxooleanan-28-oate	1350-1500	Sol	Group freq, Ident	Cole	JCS	-	(1956)	1007
$C_{33}H_{52}O_5$	Methyl-3β-acetoxy-12-oxooleanan-28-oate	1350-1500	Sol	Group freq, Ident	Cole	JCS	-	(1956)	1007
$C_{33}H_{52}O_5$	Methyl-3β-acetoxy-19-oxo-18α-oleanan-28-oate	1350-1500	Sol	Group freq, Ident	Cole	JCS	-	(1956)	1007
$C_{33}H_{52}O_5$	Methyl-3β-acetoxy-19-oxooleanan-28-oate	1350-1500	Sol	Group freq, Ident	Cole	JCS	-	(1956)	1007
$C_{33}H_{52}O_6$	Methyl acetoxydioxo-elemanate	-	Sol	Band freq	Halsall	JCS	-	(1953)	4139
$C_{33}H_{52}O_6$	Methyl-3β-acetoxy-19α-hydroxy-12-oxoleanan-28-oate	1350-1500 3600-3650	Sol Sol	Group freq, Ident Group freq, Ident	Cole Cole	JCS JCS	- -	(1956) (1959)	1007 1218
$C_{33}H_{52}O_8$	Gitogenin dicathylate	-	Sol	Band freq	Klass	JACS	77	(1955)	3829
$C_{33}H_{52}O_9$	Digitogenin 2,3-dicathylate	-	Sol	Band freq	Klass	JACS	77	(1955)	3829
$C_{33}H_{52}O_9$	neodigitogenin-2,3-dicathylate	-	Sol	Band freq	Klass	JACS	77	(1955)	3829
$C_{33}H_{52}O_{11}$	Acetylundromedofoxin	-	S	Freq	Wood	JACS	76	(1954)	5689
$C_{33}H_{53}NO_7$	Isorubijervosine	2-13 μ	S	Spec	Klohs	JACS	75	(1953)	2133
$C_{33}H_{54}O_2$	Cyclolaudenol acetate	-	Sol	Group freq	Bentley	JCS	-	(1955)	596
$C_{33}H_{54}O_2$	9:19-Cycloeburic-25-en-3β-yl acetate	2.5-15 μ	Sol	Struct	Cole	JCS	-	(1959)	1212
$C_{33}H_{54}O_3$	Δ^5-Stigmastenol-3β-acetoacetate	-	Sol	Group freq	Jones	JACS	74	(1952)	5648

$C_{33}H_{54}O_6$	Δ^4-Cholestene-3β,6β-diol dicathylate	-	-	Freq	Fieser	JACS	74 (1952)	3309
$C_{33}H_{54}O_6$	Δ^5-Cholestene-3β,4β-diol dicathylate	-	-	Freq	Fieser	JACS	74 (1952)	3309
$C_{33}H_{54}O_6$	Δ^5-Cholestene-3β,7β-diol dicathylate	-	-	Freq	Fieser	JACS	74 (1952)	3309
$C_{33}H_{54}O_6$	7α-Hydroxycholesterol dicathylate	-	-	Freq	Fieser	JACS	74 (1952)	3309
$C_{33}H_{56}O_2$	Cyclolaudanyl acetate	-	Sol	Group freq	Bentley	JCS	- (1955)	596
$C_{33}H_{56}O_2$	9:19-Cycloeburican-3β-yl acetate	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{33}H_{56}O_2$	Isoeuphorbenyl acetate	-	-	Group study	Barbour	JCS	- (1955)	2194
$C_{33}H_{56}O_6$	Coprostane-3β,6α-diol dicathylate	-	-	Freq	Fieser	JACS	74 (1952)	3309
$C_{33}H_{66}NO_8P$	L-α-(Dimyristoyl)-Cephalin	2-16 μ	S	Spec, Band freq	Baer	JACS	74 (1952)	152
		2.5-14.5 μ	S	Spec, Struct	Marinetti	JACS	76 (1954)	1347
$C_{33}H_{68}Si$	Cyclopentamethylene ditetradecylsilane	2-35 μ	L	Assign	Oshesky	JACS	79 (1957)	2057

C_{34} COMPOUNDS

$C_{34}H_{16}O_2$	Violanthrone	630-2010	S	Spec	Cannon	SA	4 (1951)	373
		-	S	Group	Hadzi	JACS	73 (1951)	5460
		6000	S,Sol	Absorption	Akamatu	JCP	20 (1952)	1481
		650-2000	S	Spec assign	Durie	AJC	10 (1957)	429
$C_{34}H_{16}O_2$	isoviolanthrone	6000	S,Sol	Absorption	Akamatu	JCP	20 (1952)	1481
		650-2000	S	Spec, Group freq	Durie	AJC	10 (1957)	429

$C_{34}H_{18}$	isoviolanthrene	650-2000	S	Spec, Group freq	Durie	AJC	10 (1957)	429
$C_{34}H_{18}O_2$	3,3'-Dibenzanthronyl	-	S	Group freq	Hadzi	JACS	73 (1951)	5460
$C_{34}H_{18}O_2$	4,4'-Dibenzanthronyl	-	S	Group freq	Hadzi	JACS	73 (1951)	5460
		650-2000	S	Spec, Group freq	Durie	AJC	10 (1957)	429
$C_{34}H_{24}$	1,2,3,4-Tetraphenyl-fulvalene	-	-	Band study	Schreiber	JACS	76 (1954)	3354
		-	-	Band study	Schreiber	JACS	76 (1954)	6125
$C_{34}H_{26}O$	1-Cyclopentadienyl-tetraphenylcyclo-pentadien-1-ol	-	-	Group freq	Schreiber	JACS	76 (1954)	3354
$C_{34}H_{26}O_{10}$	3,3'-Di-O-methyl-5,5'-di-C-benzylellagic acid diacetate	5.0-6.15 μ	S	Struct	Stitt	JACS	81 (1959)	4615
$C_{34}H_{26}O_{12}$	Diacetyldihydroxy-erythroaphin-fb	687-3333	S	Table	Brown	JCS	- (1955)	1144
$C_{34}H_{27}N_5O_4$	3,3'-Imino bis-(4-p-methoxybenzylidene-1-phenyl-5-pyrazolone)	400-4000	-	Freq, Discussion	Gagnon	CJC	37 (1959)	110
$C_{34}H_{28}O_2$	1-Benzyl-2,2,4,4-tetra-phenyloxetanol	-	S,Sol	Band freq	Holy	JACS	77 (1955)	391
$C_{34}H_{30}Cl_2N_4O_4Si$	N,N-Bis-(β-hydroxyethyl)-m-triphenylsilyl-p-(2,6-dichloro-4-nitrophenylazo) aniline	2-16 μ	Sol	Spec, Freq	Sunthanbar	JOC	18 (1953)	47
$C_{34}H_{30}Cl_2N_6O_4$	Benzidine yellow	2-16 μ	S	Spec	Tyler	AC	25 (1953)	390
$C_{34}H_{30}O_6$	meso-1,6-Di-O-acetoxy-phenyl-3,4-diphenyl-hexane-1,6-dione	-	-	Group freq	Jack	JCS	- (1954)	3684
$C_{34}H_{30}O_6$	dl-1,6-Di-O-acetoxyphenyl-3,4-diphenylhexane-1,6-dione	-	-	Group freq	Jack	JCS	- (1954)	3684

$C_{34}H_{31}N_5O_4$	3,3'-Imino bis-(4-p-methoxybenzylidene-1-phenyl-pyrazalin-5-ol)	400-4000	-	Freq	Gagnon	CJC	37 (1959)	110
$C_{34}H_{32}$	5-Neopentyl-1,2,3,4-tetraphenylcyclopentadiene	-	-	Group freq	Fuson	JOC	18 (1953)	570
$C_{34}H_{34}$	9,10-Didurylphenanthrene	-	-	Ident	Fuson	JOC	19 (1954)	373
$C_{34}H_{34}N_4O_4$	Protoporphyrin (free acid)	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{34}H_{34}N_4O_6$	Diformyldeuteroporphyrin dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{34}H_{34}O_2$	2,2'-Diduroylbiphenyl	- -	- -	Ident Ident	Fuson Fuson	JOC JACS	19 (1954) 77 (1955)	373 3776
$C_{34}H_{34}O_2$	p,p'-Diduroylbiphenyl	-	-	Group freq, Ident	Fuson	JACS	76 (1954)	5561
$C_{34}H_{36}N_4O_5$	Monoacetyldeuteroporphyrin dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{34}H_{36}O_2$	9,10-Diduryl-9,10-dihydro-9,10-dihydroxyphenanthrene	-	-	Group freq	Fuson	JOC	19 (1954)	373
$C_{34}H_{36}O_2$	O-(O-Duroylphenyl)-phenyldurylcarbinol	-	-	Ident	Fuson	JACS	77 (1955)	3776
$C_{34}H_{38}N_2O_6 \cdot H_2SO_4 \cdot 5H_2O$	Morphine sulfate pentahydrate	650-500C	S	Spec	Manning	APS	10 (1956)	85
$C_{34}H_{40}OSi$	Triphenylsilyldecyl phenyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{34}H_{40}O_2$	$\Delta^{20,22}$-3α,9α-Epoxy-22,22'-diphenylbisnorcholenone-11	1713	Sol	Freq, Struct, Anal	Jones	JACS	71 (1949)	241

$C_{34}H_{42}N_2O_9$	N-Methylreserpine	-	S	Band study	Huebner	JACS	76 (1954)	5792
$C_{34}H_{42}O_2$	$\Delta^{20,22}$-22,22'-Diphenylbisnorcholanol-3α-one-11	1713	Sol	Freq, Struct, Anal	Jones	JACS	71 (1949)	241
$C_{34}H_{42}O_6$	Apogossypol hexamethyl ether	2-12 μ	Sol	Spec, Struct, Group	O'Connor	JACS	76 (1954)	2368
$C_{34}H_{44}O_6$	$\Delta^{17(20)}$-21-Benzal-pregnenetriol-3α,12α, 20-triacetate	-	Sol	Group freq	Jones	JACS	74 (1952)	2820
$C_{34}H_{45}NO_2$	Dicyclohexylamine 1,4-Di-(β-phenyl-α-hydroxy ethyl) benzene adduct	1000-3750	S	H bond	Nakagawa	BCSJ	33 (1960)	433
$C_{34}H_{46}N_2 \cdot H_2SO_4$	N-Methylmorphinan sulfate	-	-	Ident	Ginsburg	JCS	- (1953)	1524
$C_{34}H_{46}N_2O_4$	Bis (2,4,6-triisopropyl-benzoyl) furoxan	-	S,Sol	Table, Group freq, I	Boyer	JACS	77 (1955)	4238
$C_{34}H_{46}N_2O_6 \cdot H_2SO_4 \cdot H_2O$	Atropine sulfate	-	Sol	Quan anal	Marsh	AC	27 (1955)	636
$C_{34}H_{46}O_6$	3β-Benzoyloxy-7,11-dioxo-25,26,27-trisnor-lanostan-24-oic acid	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{34}H_{46}O_6$	21-Benzylidenepregnane-3α,11α,20β-triol triacetate	-	-	Group study	Oliveto	JACS	76 (1954)	6111
$C_{34}H_{46}O_6$	Pristimerin (reductive acetate	2-14 μ	Sol	Spec	Nakanishi	BCSJ	29 (1956)	7

$C_{34}H_{46}O_{11}$	Methyl polyacetyl-glucosiduronate of $\Delta^{3,5}$-pregnadiene-3-ol-20-one	650–3700	L,S	Spec, Assign	Smakula	JACS	81 (1959)	1708
$C_{34}H_{47}NO_4S$	Δ^{4}-Isorubijervone-p-toluenesulfonate	2–13 μ	Sol	Spec, Struct	Weisenborn	JACS	75 (1953)	259
$C_{34}H_{48}N_2O_7$	16,22-Epoxycoprostan-3β-ol-3-(3,5,dinitro-benzoate)	-	-	Ident	Wall	JACS	77 (1955)	1230
$C_{34}H_{48}OS$	7-Dehydrocholesteryl thiobenzoate	670–3700	S	Spec	Bernstein	JOC	16 (1951)	685
$C_{34}H_{48}O_3$	$\Delta^{9(11)}$-Cholestenol-3β-one-7-benzoate	-	Sol	Group study	Fieser	JACS	75 (1953)	121
$C_{34}H_{48}O_{11}$	Methyl polyacetylgluco-pyranosiduronate of Δ^{5}-pregnene-3β-ol-20-one	650–3700	S,L	Spec, Assign	Smakula	JACS	81 (1959)	1708
$C_{34}H_{49}NO_9$	Cevadine orthoacetate	-	Sol	Group freq	Barton	JCS	- (1954)	3950
$C_{34}H_{50}Br_2O_2$	5β,6α-Dibromocholestan-3β-yl-benzoate	400–1400	Sol	Group freq	Barton	JCS	- (1956)	331
$C_{34}H_{50}Br_2O_2$	5α,6β-Dibromocholestan-3β-yl-benzoate	400–1400	Sol	Group freq	Barton	JCS	- (1956)	331
$C_{34}H_{50}Cl_2O_2$	5α,6α-Dichlorocholestanol-3β-benzoate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{34}H_{50}Cl_2O_2$	5α,6β-Dichlorocholestanol-3β-benzoate	- 400–1400	Sol Sol	Group freq Group freq	Jones Barton	JACS JCS	72 (1950) - (1956)	956 331

$C_{34}H_{50}OS$	Cholesteryl thio-benzoate	670-3700	S	Spec	Bernstein	JOC	16 (1951)	685
$C_{34}H_{50}O_2$	Δ^5-Cholestenol-3β-benzoate	-	Sol	Group freq	Jones	JACS	72 (1950)	956
		2.5-15 μ	Sol	Spec, Band freq	Hirschmann	JACS	74 (1952)	5357
		-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{34}H_{50}O_2$	$\Delta^{8(14)}$-Cholestenol-3β-benzoate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{34}H_{50}O_2$	Δ^{14}-Cholestenol-3β-benzoate	-	-	Assign	Jones	JACS	70 (1948)	2024
$C_{34}H_{50}O_2$	sym-Di-(p-carbethoxynonamethylenephenyl) ethane cyclicacyloin	-	-	Group freq	Fuson	JACS	74 (1952)	1621
$C_{34}H_{50}O_3$	Δ^5-Cholestene diol-3β, 4β-benzoate-3	-	Sol	Group freq	Jones	JACS	72 (1950)	956
$C_{34}H_{50}O_6$	Dumortierigenin diacetate	-	Sol	Group freq	Djerassi	JACS	76 (1954)	2969
$C_{34}H_{51}BrO_3$	5α-Bromo-6β-hydroxy cholestan-3β-yl-benzoate	400-1400	Sol	Group freq	Barton	JCS	- (1956)	331
$C_{34}H_{51}ClO_3$	5α-Chloro-6β-hydroxy-cholestan-3β-yl-benzoate	400-1400	Sol	Group freq	Barton	JCS	- (1956)	331
$C_{34}H_{51}ClO_3$	6β-Chloro-5α-hydroxy-cholestan-3β-yl-benzoate	400-1400	Sol	Group freq	Barton	JCS	- (1956)	331
$C_{34}H_{51}NO_3S$	3-Desoxy-5,6-dihydro-isorubijervine tosylate	2-13 μ	Sol	Spec, Struct	Weisenborn	JACS	75 (1953)	259

$C_{34}H_{51}NO_3S$	Solanidane-3β-ol tosylate	2-13 μ	Sol	Spec, Struct	Weisenborn	JACS	75 (1953)	259
$C_{34}H_{51}NO_5S$	Isorubijervine-p-toluenesulfonate	2-13 μ	Sol	Spec, Struct	Weisenborn	JACS	75 (1953)	259
$C_{34}H_{52}$	5-(ρ-Diphenyl)-n-docosene-5	5400-8900	Sol	Assign, Spec	Rose	JRNB	19 (1937)	143
$C_{34}H_{52}O_2$	Cholestanol-4β-benzoate	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{34}H_{52}O_4$	Methyl-3β-acetoxy-eburico-7,9(11),24(28)-triene-21-oate	-	-	Ident	Bowers	JCS	- (1953)	2548
$C_{34}H_{52}O_4$	Oleana-9(11),12-diene-3,28-diol diacetate	680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{34}H_{52}O_4$	Oleana-11,13(18)-diene-3,28-diol diacetate	680-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{34}H_{52}O_5$	Gummosogenin diacetate	-	Sol	Band freq	Djerassi	JACS	76 (1954)	4089
$C_{34}H_{52}O_5S$	Cholestane-3β,5α-diol-6-one-3-p-toluene-sulfonate	-	-	Band freq	Reich	JOC	16 (1951)	1753
$C_{34}H_{52}O_6$	3β:12α-Diacetoxy-13β-hydroxyoleanan-28-oic-13(28)-lactone	1350-1500	Sol	Group freq, Ident	Cole	JCS	- (1956)	1007
$C_{34}H_{52}O_6$	3β,12α,24-Triacetoxy-26,27-bisnorlanosta-8,23-diene	-	Sol	Band freq	Halsall	JCS	- (1954)	2385
$C_{34}H_{53}NO_{10}$	Germidine	2-14 μ	S	Freq, I, Struct	Fried	JACS	74 (1952)	3041
		-	Sol	Anal	Papinean	AC	24 (1952)	1918
		-	Sol	Ident	Kupchan	JACS	76 (1954)	5545
		-	S,Sol	Ident	Weisenborn	JACS	76 (1954)	5543

$C_{34}H_{53}NO_{10}$	isogermidine	850–3700	Sol	Spec, Ident	Myers	JACS	77	(1955)	3348
$C_{34}H_{54}O_4$	Lup-20(29)-ene-3β, 28-diol diacetate	680–3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{34}H_{54}O_4$	Methyl-3β-acetoxyeburico-7,9(11)-diene-21-oate	-	-	Ident	Bowers	JCS	-	(1953)	2548
$C_{34}H_{54}O_4$	Methyl-3-acetoxyeburico-7,24(28)-dien-21-oate	-	Sol	Group freq	Holker	JCS	-	(1953)	2422
$C_{34}H_{54}O_4$	Methyl-O-acetyleburicoate	-	-	Ident	Cort	JCS	-	(1954)	3713
$C_{34}H_{54}O_4$	Olean-9(11)-ene-3β, 28-diol diacetate	680–3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{34}H_{54}O_4$	Olean-18-ene-3β, 28-diol diacetate	680–3700	Sol	Freq, I	Cole	JCS	-	(1957)	1332
$C_{34}H_{54}O_5$	3β,28-Diacetoxyoleanan-19-one	1350–1500	Sol	Assign	Cole	JCS	-	(1956)	1007
$C_{34}H_{54}O_5$	3β,28-Diacetoxyolean-12-en-19α-ol	3600–3650	Sol	Assign	Cole	JCS	-	(1959)	1218
$C_{34}H_{54}O_6$	3β,7α,11α-Triacetoxy-ergost-22-ene	-	Sol	Band study	Barton	JCS	-	(1953)	1842
$C_{34}H_{54}O_6$	3β,7β,11α-Triacetoxy-ergost-22-ene	-	Sol	Band study	Barton	JCS	-	(1953)	1842
$C_{34}H_{56}O_4$	Methyl-3-acetoxyeburic-7-enoate	-	S	Group freq	Holker	JCS	-	(1953)	2414
$C_{34}H_{56}O_5$	18β-Oleanane-3β,13β,28-triol-3,28-diacetate	-	Sol	Band freq	Djerassi	JACS	76	(1954)	2969
$C_{34}H_{58}O_5$	3β,7β-Diacetoxy-lanostan-11α-ol	3600–3650	Sol	Group freq, Ident	Cole	JCS	-	(1959)	1218
$C_{34}H_{66}O_4$	Di-n-dodecylsebacate	2–16 μ	Sol	Spec	Stahl	JACS	74	(1952)	5487
$C_{34}H_{68}O_2$	Octadecylpalmitate	710–730	S	Band study	Chapman	JCS	-	(1957)	4489

$C_{34}H_{70}$	11-n-Deoyltetracosane	1.1-1.25 μ 3.4-14.7 μ	L Sol	Group study, Anal Group anal	Evans Francis	AC AC	23 (1951) 25 (1953)	1604 1466
$C_{34}H_{70}$	3-Methyltritriacontane	700-1400	Sol	Spec	Stallberg	N	160 (1947)	580
$C_{34}H_{70}$	4-Methyltritriacontane	700-1400	Sol	Spec	Stallberg	N	160 (1947)	580
$C_{34}H_{70}$	n-Tetratriacontane	2.6-3.8 μ 1470	Sol L,S	Spec, Assign Freq	Fox Stein	PRS JCP	A175 (1940) 22 (1954)	208 1993

C_{35} COMPOUNDS

$C_{35}H_{18}O_4$	16-Methoxy-17-hydroxy-dibenzanthrone	650-2000	S	Spec, Struct	Durie	AJC	11 (1958)	168
$C_{35}H_{28}O_3$	4,5-Dibenzoyl-3,6-dimethyl-1,2-diphenyl-3,6-methano-7-oxocyclohexene	2-15 μ	S	Spec	Allen	JOC	20 (1955)	306
$C_{35}H_{30}O_{10}$	3-Methyl-D-glucose tetrabenzoate	8-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_{35}H_{31}NO_9$	Monohydroxymonopiperidinoerythroaphin-fb	722-3289	S	Table	Brown	JCS	- (1955)	954
$C_{35}H_{34}N_2O_4S_2$	N,N'-Dibenzyl-N,N'-dibenzenesulfonyl-diaminomesitylene	650-4000	S	Iso	Adams	JACS	70 (1948)	4204
$C_{35}H_{35}ClN_4O_5$	Chlorocruoroporphyrin-dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{35}H_{36}O_7$	Gossypolmonoisoprene	2-12 μ	Sol	Spec, Group freq, Struct	O'Connor	JACS	76 (1954)	2368
$C_{35}H_{39}N_5O_4$	Ergotinin	-	Sol	Freq	Marion	JACS	73 (1951)	305

$C_{35}H_{40}N_8O_{11}$	3α-Acetoxy-11,20-diketo-pregnan-21-al-20,21-bis-(2,4-dinitrophenylhydrazone)	-	S	Ident	Mattox	JACS	74 (1952)	4340
$C_{35}H_{42}N_2O_9$	Rescinnamine	-	S	Spec	Klohs	JACS	76 (1954)	2843
		-	S	Group freq, Struct	Klohs	JACS	77 (1955)	2241
$C_{35}H_{42}OSi$	Triphenylsilylundecyl phenyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_{35}H_{42}O_2$	Δ^{22}-3α,9α-Epoxy-24,24'-diphenylnorcholenone-11	1713	Sol	Freq, Struct anal	Jones	JACS	71 (1949)	241
$C_{35}H_{44}O_3$	3α,9α-Epoxy-23,23'-diphenylnorcholanol-23-one-11	1713	Sol	Freq, Struct	Jones	JACS	71 (1949)	241
$C_{35}H_{46}O_6$	Methyl-3β-benzoyloxy-7,11-dioxo-25,26,27-tris-norlanost-8-en-24-oate	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{35}H_{46}O_{15}$	Pentaacetylglaucarubin	-	-	Band study	Ham	JACS	76 (1954)	6066
$C_{35}H_{47}N_5O_{11}$	Cevine orthoacetate-2,4-dinitrophenylhydrazone	-	-	Struct, Group freq	Barton	JCS	- (1954)	2137
$C_{35}H_{49}NO_{10}$	Vanilloylzygadenine	2-13 μ	Sol	Spec	Kupchan	JACS	75 (1953)	1025
		-	-	Ident	Kupchan	JACS	77 (1955)	755
$C_{35}H_{49}NO_{11}$	Anhydroprotocevine tetraacetate	2-13 μ	Sol	Spec, Ident	Kupchan	JACS	75 (1953)	5519
$C_{35}H_{51}F_3O_{10}$	Digitogenin-2,3-dicathylate-15-trifluoroacetate	-	Sol	Band freq	Klass	JACS	77 (1955)	3829
$C_{35}H_{51}NO_{11}$	Zygadenine tetraacetate	-	Sol	Band freq	Kupchan	JACS	77 (1955)	689
$C_{35}H_{52}O_2$	3β-Benzyloxyergost-9-ene	-	-	Group freq	Crawshaw	JCS	- (1954)	731

$C_{35}H_{52}O_5$	Lantadene B	-	S,Sol	Group freq, Ident	Barton	JCS	-	(1954)	3689
$C_{35}H_{52}O_5$	Rehmannic acid	-	S,Sol	Group freq	Barton	JCS	-	(1954)	3689
$C_{35}H_{52}O_6$	Icterogenin	-	-	Struct, Freq	Barton	JCS	-	(1954)	887
		-	S	Group freq	Barton	JCS	-	(1954)	3689
$C_{35}H_{53}NO_{10}$	22,26-Iminojervane-3β, 16,17,23-tetrol-11-one-3,16,23,N-tetraacetate	-	S	Band freq	Wintersteiner	JACS	76	(1954)	5609
$C_{35}H_{54}N_2O_2$	Cholestan-3-one-2-(p-dimethylamino-phenyl) nitrone	-	Sol	Band freq	Beereboom	JACS	75	(1953)	3500
$C_{35}H_{54}O_3$	3β-Benzoyloxyergostan-11α-ol	-	Sol	Group freq	Crawshaw	JCS	-	(1954)	731
$C_{35}H_{54}O_6$	Methyl diacetylcochalate	-	Sol	Band study	Djerassi	JACS	77	(1955)	3579
$C_{35}H_{54}O_6$	Methyl diacetyl-machaerinate	-	-	Ident	Djerassi	JACS	77	(1955)	1825
$C_{35}H_{54}O_7$	Methyl-3α,12α-diacetoxy-24-oxolanost-8-en-26-oate	-	Sol	Band freq	Halsall	JCS	-	(1954)	2385
$C_{35}H_{54}O_8S_2$	22a,5α-Spirostane-2α,3β-diol-15-one dicathylate ethylene thioketal	-	Sol	Band freq	Klass	JACS	77	(1955)	3829
$C_{35}H_{64}O_5$	D-1,2-Dipalmitolein	2-15 μ	Sol	Spec, Group freq	Hanohan	JACS	76	(1954)	1804
$C_{35}H_{68}O_5$	D-1,2-Dipalmitin	2-15 μ	Sol	Spec, Group freq	Hanohan	JACS	76	(1954)	1804
$C_{35}H_{68}O_5$	1,3-Dipalmitin	2-12 μ	Sol	Band study	Goldblatt	JACS	77	(1955)	2477
		0.9-3 μ	Sol	Spec	Holman	AC	28	(1956)	1533
$C_{35}H_{70}O$	Stearone	1650-1800	Sol	Group study	Cross	TFS	47	(1951)	354
		0.9-3 μ	Sol	Spec	Holman	AC	28	(1956)	1533
		1700	Sol	Freq, I	Thompson	SA	9	(1957)	208
$C_{35}H_{72}$	3-Methyltetra-triacontane	700-1400	Sol	Spec	Stallberg	N	160	(1947)	580

$C_{35}H_{72}$	4-Methyltetratriacontane	700-1400	Sol	Spec	Stallberg	N	160 (1947)	580
$C_{35}H_{72}$	5-Methyltetratriacontane	700-1400	Sol	Spec	Stallberg	N	160 (1947)	580

C_{36} COMPOUNDS

$C_{36}H_{20}O_4$	16,17-Dimethoxydibenzanthrone	650-2000	S	Spec, Group freq	Durie	AJC	10 (1957)	429
$C_{36}H_{20}O_4$	16-Ethoxy-17-hydroxydibenzanthrone	650-2000	Sol	Spec, Ident	Durie	AJC	11 (1958)	168
$C_{36}H_{24}Cl_4N_2O_8S_4$	N,N,N',N'-Tetrabenzenesulfonyl-3,3',5,5'-tetrachlorobenzidine	-	-	Spec	Adams	JACS	74 (1952)	3033
$C_{36}H_{26}N_2O_4S_2$	Anthracene-1,4-naphthoquinone dibenzene sulfonimide adduct	-	-	Freq	Adams	JACS	74 (1952)	2593
$C_{36}H_{26}O_{12}$	5,5'-Di-C-benzylellagic acid tetraacetate	5.0-6.15 μ	S	Struct	Stitt	JACS	81 (1959)	4615
$C_{36}H_{27}ClSi$	Tri-2-biphenylylchlorosilane	-	-	Ident	Gilman	JOC	20 (1955)	862
$C_{36}H_{28}O$	1-Benzyl-2,3,4,5-tetraphenylcyclopenta-2,4-dien-1-ol	2-15 μ	Sol	Spec, Group freq	Sonntag	JACS	75 (1953)	2283
$C_{36}H_{28}OSi$	Tri-2-biphenylylsilanol	-	Sol	Group freq	Gilman	JOC	20 (1955)	862
$C_{36}H_{28}Si$	Tri-2-biphenylylsilane	-	S	Group freq	Gilman	JOC	20 (1955)	862
$C_{36}H_{30}N_3B_3$	Hexaphenylborazole	-	S,Sol	Struct	Watnabe	SA	16 (1960)	78

$C_{36}H_{50}O$ 4,7-Dimethyl-4,7-methano- 2-15 μ S Group freq

$C_{36}H_{30}O$	4,7-Dimethyl-4,7-methano-10-oxo-1,2,5,6-tetraphenyl 4,7,8,9-tetrahydroindene	2-15 μ	S	Group freq	Allen	JOC	20 (1955)	306
$C_{36}H_{30}OSi_2$	Hexaphenyldisiloxane	-	-	Ident	Brook	JACS	76 (1954)	2333
$C_{36}H_{30}O_3Si_3$	Hexaphenylcyclotrisiloxane	650-1300	Sol	Spec	Thompson	JCS	- (1947)	289
		2-16 μ	Sol	Spec	Young	JACS	70 (1948)	3758
		650-1650	S	Spec, Group assign	Richards	JCS	- (1949)	124
$C_{36}H_{32}O_4Si_3$	1,3-Dihydroxyhexaphenyltrisiloxane	650-1300	-	Spec	Thompson	JCS	- (1947)	289
		500-1650	S	Spec, Group assign	Richards	JCS	- (1949)	124
$C_{36}H_{36}$	1,4-Di-t-butyl-1,4-dibiphenylene-2-butene	-	-	Ident	Fuson	JOC	16 (1951)	21
$C_{36}H_{38}N_2$	Diphenyl ketene-N-n-butylimine dimer	-	-	Freq	Stevens	JACS	76 (1954)	4398
$C_{36}H_{38}N_4O_6$	Diacetyldeuteroporphyrin dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{36}H_{40}$	Cyclohexatriaconta-1,3,10,12,19,21,28,30-octayne	3-15 μ	S	Spec	Wolovsky	JACS	81 (1959)	4600
$C_{36}H_{40}N_2O_4$	p,p'-Bis(N,N-diethylcarboxamido) benzopinacol	670-3600	S	Spec, Group freq,	Lynn	JOC	16 (1951)	1546
$C_{36}H_{42}N_2O_6 \cdot H_2SO_4 \cdot 5H_2O$	Codeine sulfate pentahydrate	680-5000	S	Spec	Manning	APS	10 (1956)	85
$C_{36}H_{42}N_2O_{10}P_2S_2$	N,N -Bis-(dibenzylphosphoryl)-1-cystine dimethyl ester	3-15 μ	L,S	Spec, Group freq	Li	JACS	77 (1955)	3519
$C_{36}H_{42}N_4O_4$	Mesoporphyrin dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579

$C_{36}H_{42}N_4O_6$	Haematoporphyrin dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{36}H_{42}O_8$	Gossypol hexamethyl ether (violet, m.p 146-8°)	2-12 μ	Sol	Spec, Struct, Group freq	O'Connor	JACS	76 (1954)	2368
$C_{36}H_{42}O_8$	Gossypol hexamethyl ether (pale yellow, m.p 160-2°)	2-12 μ	Sol	Spec, Struct, Group freq	O'Connor	JACS	76 (1954)	2368
$C_{36}H_{42}O_{12}$	Deserpidinediol diacetate	-	S	Assign	Phillamy	JACS	77 (1955)	4335
$C_{36}H_{42}O_{12}$	3-Isodeserpidinediol diacetate	-	S	Assign	Phillamy	JACS	77 (1955)	4335
$C_{36}H_{44}N_2O_9$	N-Allylreserpine	-	S	Band study	Huebner	JACS	76 (1954)	5792
$C_{36}H_{44}O_2$	Δ^{23}-3α,9α-Epoxy-24,24'-diphenyl-cholenone-11	1713	Sol	Absorption freq, Struct	Jones	JACS	71 (1949)	241
		-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{36}H_{46}N_4$	Octaethylporphin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
$C_{36}H_{46}O_3$	24,24-Diphenylchol-23-en-3α,12β-diol-11-one	-	-	Group freq	Heishberg	JACS	74 (1952)	2585
$C_{36}H_{46}O_3$	3α,9α-Epoxy-24,24'-diphenylcholanol-24-one-11	1713	Sol	Struct, Absorption freq	Jones	JACS	71 (1949)	241
$C_{36}H_{48}N_4$	Octaethylchlorin	400-4000	S,Sol	Spec, H bond	Mason	JCS	- (1958)	976
$C_{36}H_{50}N_2O_6$	$\Delta^{5,24(28)}$-Stigmastadienol-3β-3,5-dinitrobenzoate	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{36}H_{50}N_4$	Octaethyltetrahydroporphin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976

$C_{36}H_{50}O_5$	3β-Acetoxy-4β-benzoxy-Δ^5-cholesten-7-one	-	-	Ident	Jailer	JACS	74 (1952)	5220
$C_{36}H_{50}O_5$	3β-Benzoxy-4β-acetoxy-Δ^5-cholesten-7-one	-	-	Ident	Jailer	JACS	74 (1952)	5220
$C_{36}H_{50}O_8$	$\Delta^{7,14,22}$-Ergostatriene-3β,5α,6α-triol 3,6-diacetate maleic anhydride adduct	-	-	Freq	Cords	JACS	75 (1953)	5416
$C_{36}H_{51}NO_{10}$	Cevadine orthoacetate acetate	-	Sol	Group freq, Struct	Barton	JCS	- (1954)	3950
$C_{36}H_{51}NO_{10}$	Veratroylzygadenine	-	-	Ident	Klohs	JACS	75 (1953)	4925
		2-13 μ	Sol	Spec, Ident	Kupchan	JACS	75 (1953)	1025
		-	Sol	Ident	Kupchan	JACS	77 (1955)	755
$C_{36}H_{52}N_2O_6S$	Hecogenin acetate toluene-p-sulfonyl-hydrazone	-	Sol	Group freq	Elks	JCS	- (1954)	1739
$C_{36}H_{52}O_2$	$\Delta^{5,24(28)}$-Stigmastadienol-3β-benzoate	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{36}H_{52}O_3$	3β-Benzoyloxy-4,4-dimethyl-15-keto-$\Delta^{8(14)}$-cholestene	-	-	Group freq	Woodward	JACS	76 (1954)	2852
$C_{36}H_{52}O_3$	Δ^5-Cholestenol-3β-benzoyl acetate	-	Sol	Group freq	Jones	JACS	74 (1952)	5648
$C_{36}H_{52}O_7S$	22a-5α-Spirostane-3β,11α-diol-3-acetate-11-p-toluenesulfonate	-	Sol	Band freq	Rosenkrantz	JACS	76 (1954)	2227

$C_{36}H_{52}O_8$	Methyl c:d-diketo-polyporenate A a:b-diacetate	-	Sol	Struct	Holsall	JCS	- (1953)	468
$C_{36}H_{53}NO_{10}$	Dihydroevadine ortho-acetate	-	Sol	Group freq	Barton	JCS	- (1954)	3950
$C_{36}H_{55}NO_{11}$	Neogermitrine	2-14 μ	S	Struct, Freq, I	Fried	JACS	74 (1952)	3041
		-	Sol	Anal	Papinean	AC	24 (1952)	1918
		-	-	Ident	Kupchan	JACS	75 (1953)	4641
		-	-	Ident	Klohs	JACS	76 (1954)	1152
		-	Sol	Ident	Kupchan	JACS	76 (1954)	5545
		-	-	Ident	Kupchan	JACS	77 (1955)	755
$C_{36}H_{56}O_6$	Longispinogenin triacetate	-	Sol	Ident	Djerassi	JACS	76 (1954)	4089
		-	-	Ident	Djerassi	JACS	76 (1954)	5780
		-	-	Ident	Djerassi	JACS	77 (1955)	3579
$C_{36}H_{56}O_6$	Methyl-O-diacetyl-dehydrodihydro-tumulosate	-	Sol	Band freq, Ident	Cort	JCS	- (1954)	3713
$C_{36}H_{56}O_6$	Methyl-O-diacetyl-tumulosate	-	-	Band freq	Cort	JCS	- (1954)	3713
$C_{36}H_{58}O_4$	Bis (1,3,5-tri-t-butyl-2,5-cyclo-hexadien-4-one) peroxide	-	Sol	Group freq	Cook	JACS	75 (1953)	6242
$C_{36}H_{58}O_6$	Methyl-O-diacetyl-dihydrotumulosate	-	-	Freq	Cort	JCS	- (1954)	3713
$C_{36}H_{62}O_6$	Glyceryl triunde-cylenate	1100-1800	-	Spec	Barnes	IEC	15 (1943)	659
$C_{36}H_{70}O_4$	Distearoyl peroxide	-	Sol	Group freq	Davison	JCS	- (1951)	2456
$C_{36}H_{70}O_4$	Di-n-tridecyl sebacate	2-16 μ	Sol	Spec	Stahl	JACS	74 (1952)	5487
$C_{36}H_{72}N_2O_6S$	Sphingosine sulfate	2-16 μ	Sol	Spec	Mislow	JACS	74 (1952)	5155

$C_{36}H_{72}O_2$	n-Hexatriacontanoic acid	2-15 μ	S	Spec, Quant anal	Meiklejohn	AC	29 (1957)	329
$C_{36}H_{74}$	n-Hexatriacontane	721-732	L,S	Band study	Robert	CPR	234 (1952)	2270
		13.8 μ	S	Spec	Krimm	JCP	22 (1954)	567
		700-3000	Sol	Ext. coefficient	Jones	SA	9 (1957)	235
		650-800	L,S	Band freq	Martin	SA	12 (1958)	12
$C_{36}H_{74}NO_9P$	1-α-(Dimyristoyl) lecithin	2.8-12 μ	Sol	Spec, Group freq, Struct	Baer	JACS	75 (1953)	621
		2.5-14.5 μ	S	Spec	Marinetti	JACS	76 (1954)	1347
$C_{36}H_{74}S$	Dioctadecyl thioether	1100-1400	S	Spec, Band study	Jones	JACS	74 (1952)	2575
$C_{36}H_{74}S_2$	Dioctadecyl disulfide	1100-1400	S	Spec, Band study	Jones	JACS	74 (1952)	2575
$C_{36}H_{76}Si$	Di-n-octadecylsilane	2-16 μ	Sol	Group freq	Kniseley	SA	15 (1959)	651
$C_{36}H_{76}Si$	Tri-n-dodecylsilane	2-16 μ	Sol	Group freq	Kniseley	SA	15 (1959)	651

C_{37} COMPOUNDS

$C_{37}H_{22}O_4$	16-Methoxy-17-ethoxydibenzanthrone	600-2000	L	Spec, Ident	Durie	AJC	11 (1958)	168
$C_{37}H_{28}O$	3,6-Methano-7-oxo-1,2,3,5,6-pentaphenylcyclohexene	2-15 μ	S	Group freq, Spec	Allen	JOC	20 (1955)	306
$C_{37}H_{30}Si$	Triphenylmethyltriphenylsilane	-	-	Ident	Brook	JACS	75 (1953)	4759
		-	-	Similarity to Ge compd	Brook	JACS	76 (1954)	77
$C_{37}H_{30}Si$	p-Triphenylsilylphenyldiphenylmethane	-	-	Ident	Brook	JACS	75 (1953)	4759
$C_{37}H_{32}Si_2$	Pentaphenyl-p-tolyldisilane	-	Sol	Freq, Absorption	Margoshes	AC	27 (1955)	351

$C_{37}H_{48}O_{16}$	Hexaacetylglaucarubin	-	-	Group study	Ham	JACS	76 (1954)	6066
$C_{37}H_{52}O_3$	3β-Benzoyloxylup-20(29)-en-30-al	1350-1500 680-3700	Sol Sol	Freq Freq, Double bond	Cole Cole	JCS JCS	- (1956) - (1957)	1007 1332
$C_{37}H_{52}O_4$	3β-Benzoyloxylanost-8-ene-7,11-dione	2.5-15 μ	Sol	Struct	Cole	JCS	- (1959)	1212
$C_{37}H_{54}O_2$	Olean-12-en-3β-yl benzoate	1350-1500 1350-3700	Sol Sol	Freq Freq, I	Cole Cole	JCS JCS	- (1956) - (1957)	1007 1332
$C_{37}H_{54}O_2$	Olean-18-en-3β-yl benzoate	1350-3700	Sol	Freq, I	Cole	JCS	- (1957)	1332
$C_{37}H_{54}O_2$	Urs-12-en-3β-yl benzoate	1350-1500 1350-3700	Sol Sol	Freq Freq, I	Cole Cole	JCS JCS	- (1956) - (1957)	1007 1332
$C_{37}H_{54}O_3$	3β-Benzoyloxy-oleanan-12-one	1350-1500	Sol	Freq	Cole	JCS	- (1956)	1007
$C_{37}H_{54}O_3$	3β-Benzoyloxy-4,4,14-trimethyl-15-keto-Δ^7-cholestene	-	-	Group freq	Woodward	JACS	76 (1954)	2852
$C_{37}H_{54}O_6$	22-(β,β-Dimethylacryloyloxy) oleanonic acetic anhydride	-	Sol	Group freq	Barton	JCS	- (1954)	3689
$C_{37}H_{55}NO_{12}$	Triacetylprotoveratridine	-	S,Sol	Spec, Struct	Kupchan	JACS	76 (1954)	5545
$C_{37}H_{57}NO_{10}$	Germanidine	-	-	Group freq	Klohs	JACS	75 (1953)	4925
$C_{37}H_{59}NO_{11}$	Germerine	3-14 μ -	S Sol	Freq, I, Struct Anal	Fried PapineauCouture	JACS AC	74 (1952) 24 (1952)	3041 1918
$C_{37}H_{59}NO_{12}$	Germbudine	850-3700	Sol	Spec	Myers	JACS	77 (1955)	3348
$C_{37}H_{59}NO_{12}$	Neogermbudine	850-3700	Sol	Spec	Myers	JACS	77 (1955)	3348
$C_{37}H_{67}NO_{13}$	Erythromycin	2.5-12 μ	Sol	Spec, Group freq,	Flynn	JACS	76 (1954)	3121

$C_{37}H_{67}NO_{13}$	Erythromycin	2.5-12 μ	Sol	Spec, Group freq, Struct	Flynn	JACS	76 (1954)	3121
		2.5-12 μ	Sol	Spec	Pettinga	JACS	76 (1954)	569
		-	-	Ident	Flynn	JACS	77 (1955)	3104
		-	-	Freq, Anal	Marsh	AC	27 (1955)	636
$C_{37}H_{69}NO_{13}$	Dihydroerythromycin	-	-	Group freq	Wiley	JACS	77 (1955)	3676
$C_{37}H_{74}NO_8P$	L-α-(Dipalmitoyl)-cephalin	2-16 μ	S	Spec, Anal, Band freq	Baer	JACS	74 (1952)	152
$C_{37}H_{76}Si$	Cyclopentamethylene-dihexadecylsilane	2-35 μ	L	Assign	Oshesky	JACS	79 (1957)	2057

C_{38} COMPOUNDS

$C_{38}H_{24}O_4$	16,17-Diethoxy-dibenzanthrone	650-2000	S	Spec, Freq	Durie	AJC	10 (1957)	429
$C_{38}H_{28}O_4$	1-Cyclopentadienyl-tetraphenylcyclo-pentadien-1-ol maleic anhydride adduct	-	-	Group freq	Schreiber	JACS	76 (1954)	3354
$C_{38}H_{32}O_9S$	Bis-p-phenylphenacyl-riddellate sulfite	-	S	Group freq	Adams	JACS	75 (1953)	4638
$C_{38}H_{32}O_{12}$	Tetraacetyldihydro-erythroaphin-fb	-	-	Ident	Brown	JCS	- (1955)	959
$C_{38}H_{34}N_2O_8$	10,10'-Di-(1,2-dimethoxycarbonyl-ethyl)-5,5',10,10'-tetrahydro-5,5'-diacridinyldene	-	S	Ident, Group freq	Acheson	JCS	- (1954)	3240
$C_{38}H_{34}Si_2$	1,1-Di-p-tolyl-1,2, 2,2-tetraphenyldisilane	-	Sol	Freq, Absorption	Margoshes	AC	27 (1955)	351

$C_{38}H_{34}Si_2$	1,2-Di-p-tolyl-1,1,2,2-tetraphenyldisilane	-	Sol	Freq, Absorption	Margoshes	AC	27 (1955)	351
$C_{38}H_{38}O_2$	1,4-Dibenzal-1,4-dimesitoylbutane	-	-	Ident	Fuson	JOC	19 (1954)	1575
$C_{38}H_{38}O_4$	1,4-Dibenzoyl-1,4-dimesitoylbutane	-	-	Ident	Fuson	JOC	19 (1954)	1575
$C_{38}H_{38}O_{12}$	Methylapogossypolone tetraacetate	2-12 μ	Sol	Spec, Struct, Config	Shirley	JACS	77 (1955)	4606
$C_{38}H_{40}N_2O_7$	Temuipine	-	Sol	Ident, Spec	Bick	JCS	- (1953)	695
$C_{38}H_{40}O_2$	1,4-Dimesitoyl-2,3-diphenylcyclohexane	-	-	Group freq	Fuson	JACS	77 (1955)	174
$C_{38}H_{40}O_4$	1,2-Diphenyl-1,2-dihydroxy-3,6-dimesitoylcyclohexane	-	Sol	Iso, Band and Group freq	Fuson	JOC	19 (1954)	1575
$C_{38}H_{46}N_4O_6$	Tetramethylhaematoporphyrin dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{38}H_{47}BrO_3$	12α-Bromo-24,24-diphenylchol-23-en-3α-ol-11-one acetate	-	-	Spec	Hershberg	JACS	74 (1952)	2585
$C_{38}H_{48}O_3$	Δ^{23}-24,24-Diphenylcholenol-3α-one-11-acetate	-	S,Sol	Group freq	Tarpley	APS	9 (1955)	69
$C_{38}H_{48}O_4$	24,24-Diphenylchol-23-en-3α,12β-diol-11-one acetate	- -	- S,Sol	Spec Group freq	Hershberg Tarpley	JACS APS	74 (1952) 9 (1955)	2585 69
$C_{38}H_{50}O_2$	Δ^{23}-3α-Acetoxy-24,24'-diphenylcholene	-	Sol	Group freq	Jones	JACS	72 (1950)	956

$C_{38}H_{52}O_3$	Cholesteryl-1-naphthylcarbonate	5.70-10.60 μ	Sol	Table	Tsou	JACS	76 (1954)	6108
$C_{38}H_{52}O_3$	Cholesteryl-2-naphthylcarbonate	-	Sol	Band freq	Tsou	JACS	76 (1954)	6108
$C_{38}H_{53}NO_2$	Cholesterol-α-naphthylurethan	-	S	Group freq	Werbin	JACS	77 (1955)	4431
$C_{38}H_{53}NO_{11}$	Anhydrocevadine triacetate	2-13 μ	Sol	Spec	Kupchan	JACS	75 (1953)	5519
$C_{38}H_{53}NO_{11}$	Cevadine orthoacetate diacetate	- 2-13 μ	Sol Sol	Group freq, Struct Spec, Group freq, Struct	Barton Kupchan	JCS JACS	- (1954) 77 (1955)	3950 686
$C_{38}H_{54}O_3$	Cholestanyl-2-naphthyl-carbonate	-	Sol	Band freq	Tsou	JACS	76 (1954)	6108
$C_{38}H_{54}O_4$	Methyl-3β-benzoyloxy olean-18-en-28-oate	1350-1500 1350-3700	Sol Sol	Assign Freq, I	Cole Cole	JCS JCS	- (1956) - (1957)	1007 1332
$C_{38}H_{55}NO_2$	β-Cholestanol-α-naphthylurethan	-	S	Group freq, I, Ext. coefficient	Werbin	JACS	77 (1955)	4431
$C_{38}H_{57}NO_{12}$	Monoacetylneo-germitrine	- -	S,Sol S	Spec Ident	Kupchan Weisenborn	JACS JACS	76 (1954) 76 (1954)	5545 5543
$C_{38}H_{60}O_{18}$	Stevioside	-	-	Group freq	Wood	JOC	20 (1955)	875
$C_{38}H_{64}O_4$	Methyl-β-elaeo-stearate dimer	-	-	Group freq	Clingman	JCS	- (1954)	1088
$C_{38}H_{65}N_{15}O_{16}\cdot 6HCl$	Roseothricin hydro-chloride salt A	600-4000	S	Spec, Struct	Goto	BCSJ	30 (1957)	729
$C_{38}H_{72}O_7$	β-Lactyl-α,γ-dipalmitin	2-12 μ	Sol	Band freq	Goldblatt	JACS	77 (1955)	2477
$C_{38}H_{74}O_4$	Di-n-tetradecyl sebacate	2-16 μ	Sol	Spec	Stahl	JACS	74 (1952)	5487

$C_{38}H_{98}O_5Si_{10}$	Eicosamethyl-3,10,17, 24,31-pentaoxa-2,4,9, 11,16,18,23,25,30,32-decasilatritriacontane	-	-	Group freq	Sommer	JACS	77 (1955)	2482

C_{39} COMPOUNDS

$C_{39}H_{31}N_3O_{20}$	Tri-p-nitrobenzoyl-asperuloside	-	S	Group freq	Briggs	JCS	- (1954)	4182
$C_{39}H_{34}O_{14}$	Tribenzoylasperuloside	-	S	Group freq	Briggs	JCS	- (1954)	4182
$C_{39}H_{36}Si_2$	1,1,1-Triphenyl-2,2,2-tri-p-tolyldisilane	-	Sol	Group freq	Margoshes	AC	27 (1955)	351
$C_{39}H_{36}Si_2$	1,1,2-Triphenyl-1,2,2-tri-p-tolyldisilane	-	Sol	Group freq	Margoshes	AC	27 (1955)	351
$C_{39}H_{48}O_3$	(7-p-7-p-7-p) Cyclophantrione-1,14,27	-	Sol	Group freq	Schubert	JACS	76 (1954)	5462
$C_{39}H_{54}$	2-Diphenylmethylene-A-norcholestane	-	S	Band freq	Smith	JACS	76 (1954)	6119
$C_{39}H_{54}$	3-Diphenylmethylene-A-norcholestane	-	S	Band freq	Smith	JACS	76 (1954)	6119
$C_{39}H_{54}N_4O_{12}$	22a,5α-Spirostane-2α, 3β-diol-15-one dicathylate-2,4-dinitrophenylhydrazone	-	Sol	Band freq	Klass	JACS	77 (1955)	3829
$C_{39}H_{54}N_4O_{12}$	22a,5α-isospirostane-2α, 3β-diol-15-one dicathylate-2,4-dinitrophenylhydrazone	-	Sol	Band freq	Klass	JACS	77 (1955)	3829
$C_{39}H_{57}NO_{11}$	Germinitrine	-	-	Band freq	Klohs	JACS	75 (1953)	4925

$C_{39}H_{59}NO_{11}$	Germanitrine	-	-	Band freq	Klohs	JACS	75 (1953)	4925
$C_{39}H_{61}NO_{12}$	Germitrine	2-14 μ	S	Freq, I	Fried	JACS	74 (1952)	3041
		-	Sol	Anal	Papinean	AC	24 (1952)	1918
$C_{39}H_{61}NO_{14}$	Desacetylneo-protoveratrine	-	-	Ident	Klohs	JACS	75 (1953)	3595
		900-3700	Sol	Spec, Ident	Myers	JACS	77 (1955)	3348
$C_{39}H_{74}O_6$	Trilaurin	650-4000	L	Spec, Anal	Chapman	JCS	- (1956)	2522
		720	S	Band study	Chapman	JCS	- (1957)	4489
$C_{39}H_{76}O_5$	1:2-Distearin (A,B,C)	670-3500	S,L	Struct	Chapman	JCS	- (1958)	4680
$C_{39}H_{76}O_5$	1:3-Distearin (D)	700-3500	S,L	Struct	Chapman	JCS	- (1958)	4680
$C_{39}H_{76}O_5$	Glyceryl distearate	-	-	Struct	Gray	JPC	53 (1949)	23
$C_{39}H_{77}O_9P$	α,β-Distearoyl-α-glyceryldihydrogen-phosphate	-	-	Assign, Table	Bellamy	JCS	- (1953)	728

C_{40} COMPOUNDS

$C_{40}H_{28}N_4O_4$	O-Quinonedibenzimide dimer	-	-	Band freq	Adams	JACS	76 (1954)	2763
$C_{40}H_{29}ClO$	10-Chloro-4,7-methano-3,5,6,8,10-pentaphenyl-4,7,8,9-tetrahydroindenone	-	S	Group freq, Struct	Allen	JOC	20 (1955)	310
$C_{40}H_{30}$	1,2-Dibenzyl-1,2-dibiphenyleneethane	-	-	Ident	Fuson	JOC	16 (1951)	21
$C_{40}H_{30}O_2$	4,7-Methano-3,5,6,8,10-pentaphenyl-4,7,8,9-tetrahydroinden-10-olone	-	S	Struct, Band freq	Allen	JOC	20 (1955)	310

$C_{40}H_{38}Br_2O_8 \cdot H_2O$	Dibromopiperidinoerythroaphin-fb hydrate	665-1629	S	Table	Brown	JCS	- (1955)	954
$C_{40}H_{38}N_4O_{16}$	Uroporphyrin I octacarboxylic acid	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{40}H_{38}Si_2$	1,1-Diphenyl-1,2,2,2-tetra-p-tolyldisilane	-	Sol	Group freq	Margoshes	AC	27 (1955)	351
$C_{40}H_{38}Si_2$	1,2-Diphenyl-1,1,2,2-tetra-p-tolyldisilane	-	Sol	Group freq	Margoshes	AC	27 (1955)	351
$C_{40}H_{40}$	Cyclotetraconta-1,3,9,11,17,19,25,27,33,35-decayne	3-15 μ	S	Spec	Wolovsky	JACS	81 (1959)	4600
$C_{40}H_{40}N_2O_8$	Dipiperidinoerythroaphin-fb	738-1631	S	Table, Ident	Brown	JCS	- (1955)	954
$C_{40}H_{46}N_4O_8$	Coproporphyrin I tetramethyl ester (α & β)	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{40}H_{46}N_4O_8$	Coproporphyrin III tetramethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{40}H_{48}$	Cyclotetraconta-1,3,11,13,21,23,31,33-octayne	3-15 μ	S	Spec	Wolovsky	JACS	81 (1959)	4600
$C_{40}H_{48}$	Renieratene	2-15 μ	S	Spec, Anal	Yamaguchi	BCSJ	30 (1957)	979
$C_{40}H_{48}N_4O_4 \cdot H_2SO_4 \cdot 2H_2O$	Quinine sulphate dihydrate	650-5000	S	Spec	Manning	APS	10 (1956)	85
$C_{40}H_{52}O_{27}$	α-Cellotriose hendecaacetate	8-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_{40}H_{54}$	Dehydrocarotene-I	-	-	Group study	Karmaker	JACS	77 (1955)	55

$C_{40}H_{56}$	α-Carotene (all trans)	6.8-14 μ	Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}$	neo- α-Carotene B	6.8-14 μ	Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}$	neo- α-Carotene U	6.8-14 μ	S,Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}$	β-Carotene	1-14 μ	L	Spec	Stair	JRNB	11 (1933)	703
		-	-	Quant mech.	Mulliken	JCP	7 (1939)	364
		1-14 μ	-	Data	Arouoff	CR	47 (1950)	175
$C_{40}H_{56}$	β-Carotene (central mono-cis)	6.5-14 μ	Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}$	β-Carotene (all-trans)	2-15 μ	Sol	Spec, Group freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}$	neo-β-Carotene B	6.8-14 μ	Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}$	neo-β-Carotene U	6.5-14 μ	Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}$	γ-Carotene (all-trans)	6.8-14 μ	Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}$	neo-γ-Carotene P	6.8-14 μ	Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}$	pro-γ-Carotene	6.8-14 μ	Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}$	Lycopene (all-trans)	6.8-14 μ	Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}$	neo-Lycopene A	6.8-14 μ	Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}$	Prolycopene	6.8-14 μ	Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}O_2$	Zeaxathin (all-trans)	6.8-14 μ	S,Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}O_2$	neozeaxanthin A	6.8-14 μ	S,Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}O_2$	neozeaxanthin B	6.8-14 μ	S,Sol	Spec, Band freq	Lunde	JACS	77 (1955)	1647
$C_{40}H_{56}O_2$	Xanthophyll	1.3-14.2 μ	L	Freq	Stair	PR	33 (1929)	1092
		1-14 μ	L	Spec	Stair	JRNB	11 (1933)	703

$C_{40}H_{60}O_{12}$	Methyl polyacetyl-glucosiduronate of $\Delta^{3,5}$-Cholestadiene-3-ol	650-3700	L,S	Spec, Assign	Smakula	JACS	81 (1959)	1708
$C_{40}H_{74}O_5$	Diethylene glycol oleate	2-15μ	L	Spec	Kendall	APS	7 (1953)	179
$C_{40}H_{78}NO_9P$	(Dipalmitoleyl)-L-α-lecithin	2-15μ	Sol	Spec	Hanahan	JACS	74 (1952)	5070
$C_{40}H_{78}O_4$	Di-n-pentadecyl sebacate	2-16μ	Sol	Spec	Stahl	JACS	74 (1952)	5487
$C_{40}H_{82}NO_9P$	(Dipalmitoyl)-L-α-lecithin	2-15μ	Sol	Spec	Hanahan	JACS	74 (1952)	5070
		2.8-12μ	Sol	Spec, Group freq, Assign	Baer	JACS	75 (1953)	621

C_{41} COMPOUNDS

$C_{41}H_{26}O_2$	Triptycyl triptoate	2-12μ	Sol	Spec, Struct	Bartlett	JACS	76 (1954)	1088
$C_{41}H_{32}O_2$	4,7-Methano-10-methoxy-3,5,6,8,10-pentaphenyl-4,7,8,9-tetrahydro-indanone	-	S	Struct	Allen	JOC	20 (1955)	310
$C_{41}H_{40}Si_2$	Penta-p-tolylphenyl-disilane	-	Sol	Freq	Margoshes	AC	27 (1955)	351
$C_{41}H_{47}NO_{17}$	Wilforzine	-	S,Sol	Iso	Beroza	JACS	75 (1953)	2136
$C_{41}H_{47}NO_{19}$	Wilforgine	2-16μ	S,Sol	Spec, Band freq	Beroza	JACS	74 (1952)	1585
$C_{41}H_{47}NO_{20}$	Wilfortrine	2-16μ	S,Sol	Spec, Band freq	Beroza	JACS	74 (1952)	1585
$C_{41}H_{48}N_4O_{13}$	Pseudosmilaginin di-3,5-dinitro-benzoate	660-5000	S,Sol	Spec, Group freq	Hayden	AC	26 (1954)	550
		-	Sol	Group freq	Scheer	JACS	77 (1955)	641

$C_{41}H_{48}N_4O_{13}$	Pseudosarsasapogenin di-3,5-dinitrobenzoate	660-5000 -	S,Sol Sol	Spec, Group freq Group freq	Hayden Scheer	AC JACS	26 (1954) 77 (1955)	550 641
$C_{41}H_{54}O_4$	$\Delta^{8(14)}$-Cholestene-3β, 7α-diol dibenzoate	-	Sol	Freq	Fieser	JACS	75 (1955)	4404
$C_{41}H_{54}O_5$	Dihydropseudosarsasapogenin dibenzoate	-	-	Iso	Scheer	JACS	77 (1955)	641
$C_{41}H_{54}O_5$	Dihydropseudosmilagenin dibenzoate	-	Sol	Iso	Scheer	JACS	77 (1955)	641
$C_{41}H_{56}N_4O_8$	Lantadene B 2,4-dinitrophenylhydrazone	-	Sol	Band freq	Barton	JCS	- (1954)	3689
$C_{41}H_{56}N_4O_8$	Rehmannic acid 2,4-dinitrophenylhydrazone	-	Sol	Band freq	Barton	JCS	- (1954)	3689
$C_{41}H_{61}NO_{13}$	Escholerine	-	-	Group freq	Klohs	JACS	76 (1954)	1152
$C_{41}H_{63}NO_{14}$	Protoveratrine A	2-14 μ 2-13 μ -	S Sol Sol	Struct Spec Analysis	Fried Klohs Coutureg	JACS JACS AC	74 (1952) 74 (1952) 24 (1952)	3041 5107 1918
$C_{41}H_{63}NO_{15}$	Neoprotoveratrine	2-13 μ 800-3700	Sol Sol	Spec Spec, Ident	Klohs Myers	JACS JACS	74 (1952) 77 (1955)	5107 3348
$C_{41}H_{82}NO_8P$	L-α-(distearoyl)-Cephalin	2-16 μ	S	Spec, Anal, Band freq	Baer	JACS	74 (1952)	152
$C_{41}H_{84}Si$	Cyclopentamethylene-dioctyldecylsilane	2-35 μ	L	Assign	Oshesky	JACS	79 (1957)	2057

C_{42} COMPOUNDS

$C_{42}H_{24}O_{12}$	Hexasalicylide	1700-1800	S	Group freq	Short	JCS	- (1952)	206
$C_{42}H_{26}O_3$	Triptoic anhydride	2-12 μ	Sol	Spec, Struct	Bartlett	JACS	76 (1954)	1088

$C_{42}H_{26}O_4$	Ditriptoyl peroxide	2-12 μ	Sol	Spec, Struct	Bartlett	JACS	76 (1954)	1088
$C_{42}H_{30}Cl_2$	1,4-Di-(p-chlorobenzyl)-1,4-dibiphenylene-2-butene	-	Sol	Band study	Lavie	JOC	18 (1953)	367
$C_{42}H_{30}O_8$	Ellagorubin	5.0-6.15 μ	S	Struct	Stitt	JACS	81 (1959)	4615
$C_{42}H_{30}O_8$	O-Tetrabenzylellagic acid	5.0-6.15 μ	S	Struct	Stitt	JACS	81 (1959)	4615
$C_{42}H_{32}$	1,4-Dibenzyl-1,4-dibiphenylene-2-butene (trans)	-	-	Freq	Lavie	JOC	18 (1953)	367
$C_{42}H_{32}Cl_2$	1,4-Di-(p-Chlorobenzyl)-1,4-dibiphenylenebutane	-	Sol	Freq	Lavie	JOC	18 (1953)	367
$C_{42}H_{34}$	1,4-Dibenzyl-1,4-dibiphenylenebutane	-	-	Group freq	Lavie	JOC	18 (1953)	367
$C_{42}H_{42}N_4O_6 \cdot 2C_2H_5OH$	Gossypoldiphenyl-hydrazone	2-12 μ	Sol	Spec, Group freq, Struct	O'Connor	JACS	76 (1954)	2368
$C_{42}H_{42}O_{14}$	Gossypol hexaacetate (white)	2-12 μ	Sol	Spec, Group freq, Struct	O'Connor	JACS	76 (1954)	2368
$C_{42}H_{42}O_{14}$	Gossypol hexaacetate (yellow)	2-12 μ	Sol	Spec, Group freq, Struct	O'Connor	JACS	76 (1954)	2368
$C_{42}H_{42}Si_2$	Hexa-p-tolyldisilane	-	Sol	Freq	Margoshes	AC	27 (1955)	351
$C_{42}H_{44}N_2O_8 \cdot C_5H_5N$	Biscyclohexylamino-erythroaphin-fb	825-1631	S	Ident	Brown	JCS	- (1955)	954
$C_{42}H_{46}O_{12}$	Methylapogossypol hexaacetate	2-12 μ	Sol	Spec, Struct	Shirley	JACS	77 (1955)	4606
$C_{42}H_{67}NO_{16}$	Megnamycin	2-11 μ	Sol	Spec, Struct	Wagner	JACS	75 (1953)	4684

$C_{42}H_{78}O_4$	Diphytyl oxalate	-	L	Band freq	Hirschmann	JACS	76 (1954)	4592
$C_{42}H_{82}O_4$	Di-n-hexadecyl-sebacate	2-16 μ	Sol	Spec	Stahl	JACS	74 (1952)	5487

C_{43} COMPOUNDS

$C_{43}H_{30}N_4O_{11}S$	Methyl-3,3-dimethyl-9-oxo-5-phenyl-6,8-diphthalimido-7-(phthalimidoacetoxy)-4-thia-1-azabicyclo 3.4.0 -7-nonene-2-carboxylate	2-11 μ	Sol	Spec, Band freq	Sheehan	JACS	73 (1951)	4373
$C_{43}H_{48}O_7$	2β,8β,11α-Tribenzoyloxy-lananone	-	Sol	Band study	Barnes	JCS	- (1953)	571
$C_{43}H_{48}O_7$	3β,7β,11α-Tribenzoyl-oxy-4,4,14-trimethyl-5α-androstan-17-one	2.5-15 μ	Sol	Struct	Cole	JCS	— (1959)	1212
$C_{43}H_{49}NO_{18}$	Wilforine	2-16 μ	S,Sol	Spec, Band study	Beroza	JACS	73 (1951)	3656
		-	S,Sol	Comparison	Beroza	JACS	75 (1953)	2136
$C_{43}H_{49}NO_{19}$	Wilfordine	2-16 μ	S,Sol	Spec, Band study	Beroza	JACS	73 (1951)	3656
$C_{43}H_{61}Cl_3O_4$	5,16-Pregnadien-3β-ol 20-one 2:1 chloroform adduct	-	-	Freq	Cords	JACS	75 (1953)	5416
$C_{43}H_{66}N_{12}O_{12}S_2$	Oxytocin	-	-	Ident	duVigneaud	JACS	75 (1953)	4879

C_{44} COMPOUNDS

$C_{44}H_{26}Cl_4N_4$	Tetra-(p-chloro-phenyl)porphine	600-3500	S	Assign	Thomas	JACS	78 (1956)	1338

$C_{44}H_{26}N_8O_8$	Tetra-(p-nitrophenyl) porphine	600-3500	S	Assign	Thomas	JACS	78 (1956)	1338
$C_{44}H_{30}N_4$	Tetraphenylporphine	600-3500	S	Assign	Thomas	JACS	78 (1956)	1338
$C_{44}H_{30}N_4$	meso-Tetraphenylporphine	400-4000	S,Sol	Spec, H bond	Mason	JCS	- (1958)	976
$C_{44}H_{30}O_4$	1,2-Di-9'-(bis-10'-benzoyloxy)-anthranylethane	3-15μ	S	Spec, Group freq	Roitt	JCS	- (1952)	2695
$C_{44}H_{30}O_{10}$	cis-trans-Dibenzoylerythroaphin-sl	- 696-1754	S S	Group freq Freq	Brown Brown	JCS JCS	- (1955) - (1955)	959 1144
$C_{44}H_{34}O_8$	O-Dimethylellagorubin	5-6.15μ	S	Struct	Stitt	JACS	81 (1959)	4615
$C_{44}H_{36}$	5-Benzyl-5-phenylethyl-1,2,3,4-tetraphenylcyclopentadiene	-	-	Group freq, Ident	Fuson	JOC	18 (1953)	570
$C_{44}H_{38}F_{35}N_3O_{10}$	Heptafluorobutyric acid-N,N-dimethylaniline	-	-	Freq	Hauptschein	JACS	73 (1951)	5139
$C_{44}H_{50}O_2$	1,6-Diduryl-2,5-dimesityl-2,4-hexadiene-16-dione	-	-	Group freq	Fuson	JACS	75 (1953)	1494
$C_{44}H_{52}O_2$	1,6-Diduryl-2,5-dimesityl-1,3,5-hexatriene-1,6-diol	-	-	Group freq	Fuson	JACS	75 (1953)	1494
$C_{44}H_{54}O_6$	Dumortierigenin dibenzoate	-	Sol	Band freq	Djerassi	JACS	76 (1954)	2969
$C_{44}H_{56}O_{20}$	Methyl polyacetylglucosiduronate of $\Delta^{1,3,5}$-estratriene-3, 17β-diol	650-3700	S	Spec, Assign	Smakula	JACS	81 (1959)	1708

$C_{44}H_{86}O_4$	Di-n-heptadecyl-sebacate	2-16 μ	Sol	Spec	Stahl	JACS	74 (1952)	5487
$C_{44}H_{90}NO_9P$	L-α-(Distearoyl)-lecithin	2.8-12 μ	Sol	Spec, Group freq	Baer	JACS	75 (1953)	621

C_{45} COMPOUNDS

$C_{45}H_{32}N_4O_8S_4$	Bis-(1,4-naphthoquinone-dibenzenesulfonimido-2)-methane	-	-	Group study	Adams	JACS	74 (1952)	5557
$C_{45}H_{32}O$	2-Oxo-1,1,3,3,5,6-hexaphenylindan	-	S	Spec, Struct	Allen	JOC	20 (1955)	315
$C_{45}H_{35}N_5O_{10}S_4$	Bis-(1,4-napththalene-dibenzenesulfonamido-2)-nitromethane	-	-	Group study	Adams	JACS	74 (1952)	5557
$C_{45}H_{36}N_4O_8S_4$	Bis-(1,4-naphthalene-dibenzenesulfonamido-2)-methane	-	-	Group study	Adams	JACS	74 (1952)	5557
$C_{45}H_{42}O_{10}S_2$	D-Glucose diethyl-mercaptal pentabenzoate	8-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_{45}H_{50}$	Cyclopentatetraconta-1,3,10,12,19,21,28,30,37,39-decayne	3-15 μ	S	Spec	Wolovsky	JACS	81 (1959)	4600
$C_{45}H_{70}N_2O_4S_2$	N,N'-Didodecyl-N,N'-dibenzenesulfonyl-diaminomesitylene	650-4000 650-3900	S -	Melting point Spec, Iso	Adams Adams	JACS JACS	62 (1940) 70 (1948)	732 4204
$C_{45}H_{74}O_{17}$	Sarsasaponin	840-1000	S	Spec, Band freq	Rothman	JACS	74 (1952)	4013
$C_{45}H_{78}O_7$	O-Benzyl-β-lactyl-α,γ-dipalmitin	2-12 μ	Sol	Band freq	Goldblatt	JACS	77 (1955)	2477

$C_{45}H_{86}O_6$	Trimyristin	-	Sol	Quant anal	Shreve	AC	22 (1950)	1261
		2-16 μ	Sol	Spec	Shreve	AC	22 (1950)	1498
		-	Sol	Anal	Swern	JAOC	27 (1950)	17

C_{46} COMPOUNDS

$C_{46}H_{34}O_{10}$	Ellagorubin diacetate	5.0-15 μ	S	Struct	Stitt	JACS	81 (1959)	4615
$C_{46}H_{75}NO_{17}$	Candidin	700-4000	S	Spec, Struct	Vining	CJC	34 (1956)	1163
$C_{46}H_{89}N_2PS$	N,N-Di-n-decyl-benzenethio-phosphonic diamide	2-12 μ	S	Spec, Anal	Daasch	AC	23 (1951)	853
$C_{46}H_{90}O_4$	Di-n-octadecyl-sebacate	2-16 μ	Sol	Spec	Stahl	JACS	74 (1952)	5487

C_{47} COMPOUNDS

$C_{47}H_{66}O_{22}$	Methylpolyacetyl-glucosiduronate of allopregnane-3β,17α,21-triol-20-one	650-3700	S	Spec, Assign	Smakula	JACS	81 (1959)	1708
$C_{47}H_{76}O_{18}$	Sarsasaponin acetate	840-1000	Sol	Spec	Rothman	JACS	74 (1952)	4013
$C_{47}H_{79}N_2O_7P$	α, α'-Dipalmitoyl-β-glyceryl-N,N-diphenyl-phosphorodiamidate	-	-	Assign	Bellamy	JCS	- (1953)	728

C_{48} COMPOUNDS

$C_{48}H_{34}$	m-Octaphenyl	5-38 μ	S	Spec, Freq, Assign	Stewart	JRNB	60 (1958)	125
$C_{48}H_{34}O_{12}$	Hexa-m-cresotide	1700-1800	S	Group freq	Short	JCS	- (1952)	206
$C_{48}H_{34}N_4$	Tetra-p-tolyl-porphine	600-3500	S	Assign	Thomas	JACS	78 (1956)	1338
$C_{48}H_{38}N_4O_4$	Tetra-(p-methoxy-phenyl) porphine	600-3500	S	Assign	Thomas	JACS	78 (1956)	1338
$C_{48}H_{40}O_4Si_4$	Octaphenylcyclo-tetrasiloxane	650-1300	-	Spec	Thompson	JCS	- (1947)	289
		2-16 μ	Sol	Spec	Young	JACS	71 (1948)	3758
		500-1650	S	Spec, Assign	Richards	JCS	- (1949)	124
$C_{48}H_{54}N_4O_{16}$	Uroporphyrin I octamethyl ester (α and β)	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
		-	-	Ident	MacDonald	JACS	75 (1953)	3040
$C_{48}H_{54}N_4O_{16}$	Uroporphyrin III octamethyl ester (β)	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$C_{48}H_{93}NO_9 \cdot H_2O$	Cerebrin	2-16 μ	S	Spec	Mislow	JACS	74 (1952)	5155
$C_{48}H_{102}N_3O_6P_3$	n-Octyl phospho-nitrilate	2-21 μ	L	Spec, Anal	Daasch	AC	23 (1951)	853

C_{49} COMPOUNDS

$C_{49}H_{36}O_8$	3,3',4-Tri-O-benzyl-5,5' - di-C- benzyl-ellagic acid	5.0-6.15 μ	S	Struct	Stitt	JACS	81 (1959)	4615

C_{50} COMPOUNDS

$C_{50}H_{32}O_{11}$	2',3,3',4,4'-Penta-benzoxybenzal-acetophenone	1550-4000	S	Group freq	Hergert	JACS	75 (1953)	1622
$C_{50}H_{39}N$	ρ, ρ'-Di-trityl diphenylamine	2.9μ	-	Ident	Craig	JACS	71 (1949)	2250
$C_{50}H_{70}O_8$	Bis (methyl-3β-acetoxybisnor-choladienate)	-	Sol	Group freq	Mosetting	JOC	17 (1952)	764

C_{51} COMPOUNDS

$C_{51}H_{38}O_9$	3,3',4-Tri-O-benzyl-5,5'-di-C-benzyl-ellagic acid acetate	5.0-6.15μ	S	Struct	Stitt	JACS	81 (1959)	4615
$C_{51}H_{85}O_9P$	α,β-Distearoyl-α'-glyceryl diphenyl phosphate	670-3500	-	Assign, Spec	Bellamy	JCS	- (1953)	728
$C_{51}H_{98}O_6$	Tripalmitin	1100-1800	-	Spec	Barnes	IEC	15 (1943)	659
		650-3500	S,L	Spec, Struct	Chapman	JCS	- (1956)	2522
		0.9-3μ	Sol	Spec	Holman	AC	28 (1956)	1533
		720	S	Band study	Chapman	JCS	- (1957)	4489

C_{52} COMPOUNDS

$C_{52}H_{34}O_2$	9,10-Diphenylanthra-cenephotooxide	850-1300	-	Freq	Nikilin	OS	4 (1958)	702
$C_{52}H_{70}O_{35}$	α-Cellotetraose tetradecaacetate	8-15μ	S	Spec	Kuhn	AC	22 (1950)	276

$C_{52}H_{77}NO_{17}$	O,N-Dicarbobenzoxydes-N-methylerythromycin	-	-	Freq	Flynn	JACS	77 (1955)	3104
$C_{52}H_{102}O_6$	1-Stearodipalmitin	720	S	Band study	Chapman	JCS	- (1957)	4489

C_{54} COMPOUNDS

$C_{54}H_{86}$	α-Cholesterylene	600-3600	-	Spec	Owades	JACS	73 (1951)	4223
$C_{54}H_{90}O$	2α-(Δ^2-Cholesten-3-yl)-cholestan-3-one	-	-	Group freq	Corey	JACS	77 (1955)	1672
$C_{54}H_{90}O$	Dicholesteryl ether	-	-	Ident	Tsou	JACS	76 (1954)	6108
$C_{54}H_{90}O_2$	Epicholesterol-Δ^4-cholesten-3-one complex	-	Sol	Band freq, Ident	Fieser	JACS	75 (1953)	4377
$C_{54}H_{90}O_3$	Epicholesterol-Δ^4-cholesten-6β-ol-3-one complex	-	S	Bonding study	Fieser	JACS	75 (1953)	4377
$C_{54}H_{92}O_2$	Cholestanoneepicholesterol complex	-	S,Sol	Group freq, Band freq	Fieser	JACS	75 (1953)	4377
$C_{54}H_{110}$	n-Tetrapentacontane	1470	L,S	Freq	Stein	JCP	22 (1954)	1993

C_{55} COMPOUNDS

$C_{55}H_{74}N_4O_5$	Phoephytin	1-14 μ	L	Spec	Stair	JRNB	11 (1933)	703
		1-14 μ	-	Spec	Aronoff	CR	47 (1950)	175
		630-3500	S,Sol	Spec, Freq, Assign	Weigl	JACS	75 (1953)	2173

$C_{55}H_{106}O_6$	Palmitostearin	-	Sol	Anal	Shreve	AC	22 (1950)	1261
		2-16 μ	Sol	Spec	Shreve	AC	22 (1950)	1498
		-	Sol	Anal	Swern	JAOC	27 (1950)	17
$C_{55}H_{106}O_6$	1-Palmitodistearin (β_L form)	720	S	Band study	Chapman	JCS	- (1957)	4489

C_{56} COMPOUNDS

$C_{56}H_{42}O_8$	O-Tetrabenzyl-5,5'-di-C-benzylellagic acid	5.0-6.15 μ	S	Struct	Stitt	JACS	81 (1959)	4615
$C_{56}H_{90}O_7$	5α-Hydroxy-6-keto-cholestane-3β-carboxylic anhydride	-	S	Group freq	Roberts	JCS	- (1954)	3178
$C_{56}H_{94}O_5$	5α-Hydroxycholestane-3β-carboxylic anhydride	-	S,Sol	Group freq	Roberts	JCS	- (1954)	3178

C_{57} COMPOUNDS

$C_{57}H_{104}O_6$	Trislaidin	-	Sol	Quant anal	Shreve	AC	22 (1950)	1261
		2-16 μ	Sol	Spec	Shreve	AC	22 (1950)	1498
		-	Sol	Anal	Swern	JAOC	27 (1950)	17
		1-12 μ	Sol	Spec	Feuge	JAOC	28 (1951)	420
$C_{57}H_{104}O_6$	Triolein	-	-	Spec, Iso	Benedict	JACS	72 (1950)	4356
		-	Sol	Quant anal	Shreve	AC	22 (1950)	1261
		2-16 μ	L	Spec	Shreve	AC	22 (1950)	1498
		-	Sol	Anal	Swern	JAOC	27 (1950)	17
		1-12 μ	Sol	Spec	Feuge	JAOC	28 (1951)	420
$C_{57}H_{110}O_6$	Tristearin	1050-1800	-	Spec	Barnes	IEC	15 (1943)	659
		-	-	Struct, Ident	Gray	JPC	53 (1949)	23
		1-12 μ	Sol	Spec	Feuge	JAOC	28 (1951)	420
		650-3500	L,S	Spec, Struct	Chapman	JCS	(1956)	2522

		650-3500	L,S	Spec, Struct	Chapman	JCS	- (1956)	2522
$C_{57}H_{110}O_6$	Tristearin (β_L form)	720	S	Band study	Chapman	JCS	- (1957)	4489
C_{58} COMPOUNDS								
$C_{58}H_{82}O_8$	Bis-(3β-acetoxy-22-isospirostadiene)	-	Sol	Group freq	Mosettig	JOC	17 (1952)	764
C_{59} COMPOUNDS								
$C_{59}H_{92}O_4$	Chromanol	2-10 μ	Sol	Group freq	Hoffman	JACS	82 (1960)	4744
C_{64} COMPOUNDS								
$C_{64}H_{46}N_{10}O_4$	3,3'-Iminobis-(4-benzylidene-1-phenyl-5-pyrazolone) dimer	400-4000	-	Freq	Graynon	CJC	37 (1959)	110
$C_{64}H_{130}$	Tetrahexacontane		S,L, Sol	Spec, Assign	Krimm	PR	94 (1954)	1426
C_{65} COMPOUNDS								
$C_{65}H_{124}NO_{12}P$	α, α'-Dilauroyl-kephalin	670-3500	-	Spec, Assign	Bellamy	JCS	- (1953)	728
$C_{65}H_{124}NO_{12}P$	α,β-Dilauroylkephalin	670-3500	-	Spec, Assign	Bellamy	JCS	- (1953)	728

$C_{72}H_{60}O_4Si_5$	Tetrakistriphenyl-siloxysilane	600-3000	Sol	Spec, Assign	Zeitler	JPC	61 (1957)	1174

IIa. Inorganic Compound of Nonmetals

(Containing elements C, H, D, T, halogens, N, O, P, S, As, B, Se, Si and noble gases)

Formula	Name	Range	State	Remarks	Reference			
$CHDN_2$	Cyanamide-d_1	17900-40300 Mc/Sec	-	Spec, Struct	Tyler	PRCS	- (1959)	155
CHN	Hydrogen cyanide	-	-	Thermo	Tolman	JACS	45 (1923)	2277
		3-15 μ	G	Spec	Baker	PR	23 (1924)	200
		-	G	Vib-rot. analysis	Badger	PR	37 (1931)	800
		-	G	Thermo	Badger	JACS	54 (1932)	3523
		3-15 μ	G	Spec	Choi	PR	42 (1932)	777
		-	G	Freq, Assign	Adel	PR	45 (1934)	277
		-	G	Spec, Anal	Herzberg	PRS	147 (1934)	434
		-	-	Freq	Mecke	TFS	30 (1934)	200
		1-20 μ	G	Mol. Const.	Bartunek	PR	48 (1935)	516
		-	-	Thermo	Gordon	JCP	3 (1935)	259
		4.3-5.4 μ	Sol	Spec	Gordy	JCP	3 (1935)	664
		1.04 μ	G	Pressure effect	Cornell	PR	50 (1936)	279
		4.2-5.4 μ	Sol	Spec	Gordy	JCP	4 (1936)	85
		-	G	Pressure broadening	Herzberg	PR	50 (1936)	1186
		-	-	FC	Penney	PRS	156 (1936)	654
		-	-	Freq	Williams	JCP	4 (1936)	85
		-	G	Pressure effect	Cornell	PR	51 (1937)	739
		-	-	Thermo	Gordon	JCP	5 (1937)	30
		-	G	FC	Linnett	JCS	- (1937)	1399
		-	G	Pressure broadening	Watson	PR	51 (1937)	48
		-	-	Group study	Herzberg	JCP	8 (1940)	847
		-	-	FC	Crawford	JCP	9 (1941)	69
		-	-	Freq	Redlich	JCP	9 (1941)	298
		-	-	Freq	Herzberg	RMP	14 (1942)	219
		14	G	Pressure broadening	Foley	PR	61 (1942)	545
		-	-	Bonding	Mecke	TFS	30 (1942)	200
		-	-	Quant Mech.	Barnes	IEC	15 (1943)	659
		-	-	Freq	Nielsen	JCP	11 (1943)	160
		-	G	Pressure broadening	Foley	PR	69 (1946)	616
		14	G	Self broadening	Foley	PR	69 (1946)	628
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Anal	Halverson	RMP	19 (1947)	87
		-	-	FC	Walsh	TFS	43 (1947)	60
		-	G	Pressure broadening	Anderson	PR	76 (1949)	647
		-	G	Struct	Chen	PR	75 (1949)	1113
		-	-	Quant. Mech., FC	Duchesne	JCP	17 (1949)	586

79-2100	S	Spec, Assign	Hoffman	JCP	17	(1949)	1163
-	-	Bonding	Linnett	TFS	45	(1949)	844
-	-	Thermo	Stamm	JCP	17	(1949)	104
-	-	Bonding	Nielsen	PR	78	(1950)	296
-	G	Microwave	Shulman	PR	77	(1950)	421
-	-	Potential energy function	Brooks	TFS	47	(1951)	1152
-	-	Pressure broadening	Mizushima	PR	83	(1951)	94
-	-	FC	Thomas	JCP	19	(1951)	1162
-	-	I	Crawford	JCP	20	(1952)	977
-	G	Spec, Struct, Mol. Const.	Herzberg	N	169	(1952)	997
712-3312	G	I	Hyde	JCP	20	(1952)	647
-	G	Light velocity measurement	Rank	PR	86	(1952)	799
-	G	Mol. Const.	Rank	JOSA	42	(1952)	693
-	-	FC	Thomas	JCP	20	(1952)	920
-	-	FC	Thomas	JCS	-	(1952)	2383
-	G	Microwave	Weatherly	PR	87	(1952)	517
0.5-2.5	G	Spec, Struct, Anal	Douglas	JCP	21	(1953)	448
10	G	Microwave	Collier	PR	95	(1954)	1201
-	-	Thermo	Pennington	JCP	22	(1954)	1442
6500	G	Mol. Const.	Rank	PR	94	(1954)	575
5500	G	Bond	Wiggins	JCP	22	(1954)	547
1.5	-	Band study	Jaffe	JOSA	45	(1955)	405
1.5	G	High resolution interferometry	Jaffe	JOSA	45	(1955)	636
-	G	Band study	Rank	PR	100	(1955)	993
-	Sol	Freq, I	Skinner	JCS	-	(1955)	487
-	G	Microwave	White	JCP	23	(1955)	249
2-9	G	Anal	Baker	AC	28	(1956)	1391
0.8-2	G	Microwave	Burrus	PR	101	(1956)	599
2095	Sol	Freq, I	Penneman	JCP	24	(1956)	293
2-15	G	Spec	Pierson	AC	28	(1956)	1218
1.0-1.6	-	Spec	Rank	JOSA	46	(1956)	477
-	-	Pressure broadening	Pigott	JCP	26	(1957)	384
-	G	Microwave	Weatherley	DA	18	(1958)	1469
-	-	Bond study, I	Wilmshurst	JPC	62	(1958)	631
-	G	Freq	Caldow	PRS	254	(1960)	1
-	-	Band study	Rank	JMS	4	(1960)	518
1-3	G	Molecular Const.	Rank	JOSA	50	(1960)	421

$C^{12}HN$	Hydrogen cyanide (isotopic)	-	G	Freq	Richardson	JCP	19 (1951)	1213
$C^{12}HN^{14}$	Hydrogen cyanide (isotopic)	-	G	Microwave	Simmons	PR	77 (1950)	77
$C^{13}HN^{14}$	Hydrogen cyanide (isotopic)	-	G	Microwave	Simmons	PR	77 (1950)	77
$C^{13}HN$	Hydrogen cyanide (isotopic)	2160-2000	S	Spec	Hoffman	JCP	17 (1949)	1163
		-	G	Freq	Richardson	JCP	19 (1951)	1213
		-	L,G	Mol. Const.	Kagarise	JCP	20 (1952)	1437
		-	-	Freq	Stranks	JACS	75 (1953)	2015
		4-7.5	G	Freq, Assign	Barr	JCS	- (1956)	3428
		3-14	Sol	Solvent effect, I	Caldow	PRS	254 (1960)	17
		1-3	-	Spec, Mol. Const.	Rank	JOSA	50 (1960)	421
CHNO	Cyanic acid	1.031	G	Spec	Herzberg	PR	50 (1936)	390
		-	Sol	Freq, I	Davison	JCS	- (1953)	3712
		-	-	FC	Thomas	TFS	49 (1953)	855
CHNO	Isocyanic acid	-	-	Microwave	Jones	JCP	18 (1950)	990
		-	G	Spec, Anal	Reid	JCP	18 (1950)	1544
		-	-	FC, Freq	Thomas	JCS	- (1952)	2383
		-	-	Thermo	Luft	JCP	22 (1954)	956
CHNS	Isothiocyanic acid	-	-	Freq	Jones	JCP	18 (1950)	990
		-	-	Struct	Jones	JCP	18 (1950)	1511
		400-4000	G	Spec, Assign	Reid	JCP	18 (1950)	1512
		-	-	FC	Thomas	JCS	- (1952)	2383
		-	-	FC	Thomas	TFS	49 (1953)	855
CH_2N_2	Cyanamide	2-15	S	Spec, Struct	Sukhorukov	OS	7 (1959)	9
		-	-	Spec, Struct	Tyler	PRCS	- (1959)	153
CH_3NSi	Silyl cyanide	300-3500	G	Assign, Struct	Linton	DA	19 (1958)	687
CH_3OB	Borine carbonyl	2-25	-	Theoretical	Cowan	JCP	17 (1949)	218
		-	-	Microwave	Strandberg	JCP	17 (1949)	429
		2-25	G	Spec, Assign, NCA	Cowan	JCP	18 (1950)	1101
		-	-	Thermo	Galbraith	JCP	22 (1954)	1461

		2164	-	Freq	Margoshes	JCP	22 (1954)	381
		-	-	Mol. Const.	Meal	JCP	24 (1956)	1126
		200-3200	S,G	Spec, Assign, NCA	Bethke	JCP	26 (1957)	1118
		-	-	FC	Bethke	JCP	27 (1957)	978
CH_4N_2O	Ammonium isocyanate	250-3000	S	Spec, Freq, Assign, H bond	Waddington	JCS	- (1958)	4340
		400-4000	S	Spec	Waddington	JCS	- (1959)	2499
CH_4N_2S	Ammonium thiocyanate	2.5-7.5 μ	Sol	Spec	Gordy	JCP	3 (1935)	664
		2-16 μ	S	Spec, Anal	Miller	AC	24 (1952)	1253
		250-4000	S	Freq, Assign, H bond	Waddington	JCS	- (1958)	4340
		-	S	Spec, Struct	Tramer	CPR	249 (1959)	2755
		300-880	S	Spec	Miller	SA	16 (1960)	135
CH_5NO_3	Ammonium bicarbonate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$CH_5N_3O.HCl$	Semicarbazide hydrochloride	700-3500	S	Ident, Assign	Davison	JCS	- (1955)	3389
CH_5N_3S	Thiosemicarbazide	700-1700	S	Spec, Struct, Config. Assign, Taut	Lieber	CJC	36 (1958)	801
$CH_6N_2O_2$	Ammonium carbamate	2-9 μ	Sol	Spec, Freq	Jencks	ABB	88 (1960)	193
$CH_8N_2O_3$	Ammonium carbonate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135
CDN	Hydrogen cyanide-d_1	-	-	Freq	Adel	PR	45 (1934)	277
		17.5 μ	G	Mol. Const.	Bartunek	PR	47 (1935)	330
		1-20 μ	G	Spec, Const.	Bartunek	PR	48 (1935)	516
		-	-	Thermo	Gordon	JCP	5 (1937)	30
		-	-	FC	Linnett	JCS	- (1937)	1399
		-	-	FC	Crawford	JCP	9 (1941)	69
		-	-	Anal	Halverson	RMP	19 (1947)	87
		-	-	I	Crawford	JCP	20 (1952)	977
		569-2629	G	I	Hyde	JCP	20 (1952)	647
		-	G	Microwave	Weatherly	PR	87 (1952)	517
		0.5-2.5 μ	G	Spec, FC	Douglas	JCP	21 (1953)	448
		1900-8000	G	Freq	Allen	JCP	23 (1955)	1356
		3020	G	Rot. Anal	Checkland	TFS	51 (1955)	1

		3020	G	Rot. Anal	Checkland	TFS	51 (1955)	1
		-	G	Microwave	White	JCP	23 (1955)	249
		-	-	Freq, I	Skinner	JCS	- (1955)	487
		-	G	Microwave	Burrus	PR	101 (1956)	599
		-	-	Struct	Amat	JMS	2 (1958)	163
		-	G	Freq	Caldow	PRS	254 (1960)	1
$C^{12}DN$	Hydrogen cyanide-d_1 (isotopic)	-	G	Freq, FC	Richardson	JCP	19 (1951)	1213
$C^{13}DN$	Hydrogen cyanide-d_1 (isotopic)	-	G	Freq, FC	Richardson	JCP	19 (1951)	1213
$C^{12}DN^{14}$	Hydrogen cyanide-d_1 (isotopic)	-	G	Microwave	Simmons	PR	77 (1950)	77
$C^{13}DN^{14}$	Hydrogen cyanide-d_1 (isotopic)	-	G	Microwave	Simmons	PR	77 (1950)	77
CD_2N_2	Cyanamide-d_2	-	-	Spec, Struct	Tyler	PRCS	- (1959)	155
CD_3F	Methyl-d_3 fluoride	2-13 μ	G	Struct	Edgell	JACS	78 (1956)	2358
CD_3NSi	Silyl cyanide-d_3	300-3500	G	Assign, Struct	Linton	DA	19 (1958)	687
CBrFO	Carbonyl bromofluoride	300-2200	G	Spec	Patty	SA	15 (1959)	60
CBrN	Cyanogen bromide	-	-	FC	Penny	PRS	156 (1936)	654
		-	-	FC	Linnett	JCS	- (1937)	1399
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Microwave	Feld	PR	72 (1947)	1116
		-	-	Microwave	Gordy	PR	72 (1947)	259
		-	-	Microwave	Torones	PR	71 (1947)	644
		-	-	Microwave	Torones	PR	72 (1947)	513
		-	-	FC	Walsh	TFS	43 (1947)	60
		-	-	Microwave	Bardeen	PR	73 (1948)	97
		-	-	Microwave	Bardeen	PR	73 (1948)	627
		-	-	Quant. Mech., FC	Duchesne	JCP	17 (1949)	586
		-	-	FC	Linnett	TFS	45 (1949)	844
		-	-	Pressure broadening	Mizushima	PR	83 (1951)	94

		-	-	FC	Thomas	JCP	19 (1951)	1162
		-	-	FC	Thomas	JCP	20 (1952)	920
		-	G	Microwave	Trambarulo	PR	95 (1954)	622
		300-3200	G,S	Spec, Assign	Freitago	JCP	24 (1956)	109
$C^{12}Br^{79}N^{15}$	Cyanogen bromide Isotopic	-	G	Microwave	Tetenbaum	PR	86 (1952)	440
$C^{13}Br^{79}N^{14}$	Cyanogen bromide (isotopic)	-	G	Microwave	Smith	PR	74 (1948)	370
		-	G	Microwave	Tetenbaum	PR	86 (1952)	440
$C^{13}Br^{81}N^{14}$	Cyanogen bromide (isotopic)	-	G	Microwave	Smith	PR	74 (1948)	370
		-	G	Microwave	Tetenbaum	PR	86 (1952)	440
$C^{12}Br^{79}N^{14}$	Cyanogen bromide (isotopic)	-	G	Microwave	Smith	PR	74 (1948)	370
		-	G	Microwave	Townes	PR	74 (1948)	1113
		-	G	Microwave	Tetenbaum	PR	86 (1952)	440
		-	G	Microwave	Burrus	PR	101 (1956)	599
$C^{12}Br^{81}N^{14}$	Cyanogen bromide (isotopic)	-	G	Microwave	Smith	PR	74 (1948)	370
		-	G	Microwave	Townes	PR	74 (1948)	1113
		-	G	Microwave	Tetenbaum	PR	86 (1952)	440
		-	G	Microwave	Burrus	PR	101 (1956)	599
$CBr^{79}N$	Cyanogen bromide (isotopic)	-	-	Microwave	Townes	PR	74 (1948)	1113
$C^{12}Br^{81}N^{15}$	Cyanogen bromide (isotopic)	-	G	Microwave	Tetenbaum	PR	86 (1952)	440
$CBr^{81}N$	Cyanogen bromide (isotopic)	1 μ	-	Microwave	Townes	PR	71 (1947)	642
CClFO	Carbonyl chlorofluoride	2-40 μ	G,L	Spec, Assign	Nielsen	JCP	20 (1952)	596
		-	-	NCA, FC, Thermo	Lovell	JCP	22 (1954)	1953
		-	-	Freq	Kogarise	JACS	77 (1955)	1377
CClN	Cyanogen chloride	-	-	FC	Penney	PRS	156 (1936)	654
		-	-	FC	Linnett	JCS	- (1937)	1399
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Microwave	Townes	PR	71 (1947)	644

		-	-	FC	Walsh	TFS	43 (1947)	60
		-	-	Microwave	Bardeen	PR	73 (1948)	97
		-	-	FC, Quant. Mech.	Duchesne	JCP	17 (1949)	586
		-	-	FC	Linnett	TFS	45 (1949)	844
		2-20 μ	G	Spec	Nixon	JCP	18 (1950)	1361
		-	-	Hybridization	Duchesne	JCP	19 (1951)	246
		-	-	Microwave, Pressure broadening	Mizushima	PR	83 (1951)	94
		-	-	Pressure broadening	Thomas	JCP	19 (1951)	1162
		-	-	FC	Thomas	JCP	20 (1952)	920
		-	Sol	Freq, I	Skinner	JCS	- (1955)	487
		300-3200	G,S	Spec, Assign	Freitag	JCP	24 (1956)	109
		-	-	Ident	Baker	TFS	53 (1957)	1397
$CCl^{35}N$	Cyanogen chloride (isotopic)	1 μ	-	Microwave	Townes	PR	71 (1947)	64
		0.2 μ	G	Microwave	Burrus	PR	101 (1956)	599
$CCl^{37}N$	Cyanogen chloride (isotopic)	1 μ	-	Microwave	Townes	PR	71 (1947)	64
		-	G	Microwave	Smith	PR	74 (1948)	370
		-	G	Microwave	Townes	PR	74 (1948)	1113
		0.2 μ	G	Microwave	Burrus	PR	101 (1956)	599
$C^{12}Cl^{35}N^{14}$	Cyanogen chloride (isotopic)	-	G	Microwave	Townes	PR	72 (1947)	513
		-	G	Microwave	Smith	PR	74 (1948)	370
		-	G	Mol. Const.	Yarmus	PR	105 (1957)	928
		-	G	Microwave	Townes	PR	74 (1958)	1113
$C^{13}Cl^{37}N^{14}$	Cyanogen chloride (isotopic)	-	G	Microwave	Smith	PR	74 (1948)	370
		-	G	Microwave	Townes	PR	74 (1948)	1113
$C^{14}ClN$	Cyanogen chloride (isotopic)	2-16 μ	G	Freq, FC	Richardson	JCP	18 (1950)	155
$C^{13}Cl^{35}N^{14}$	Cyanogen chloride (isotopic)	-	G	Microwave	Townes	PR	72 (1947)	513
		-	G	Microwave	Smith	PR	74 (1948)	370
		-	G	Microwave	Townes	PR	74 (1948)	1113
$C^{13}ClN$	Cyanogen chloride (isotopic)	2-16 μ	G	Freq, FC	Richardson	JCP	18 (1950)	155
CClNS	Thiocyanogen chloride	400-2210	Sol	Spec	Nelson	JCS	- (1960)	604

CCl_2O	Carbonyl chloride	-	-	Mol. Const.	Villars	CR	11 (1932)	369
		-	-	Struct	Mulliken	JCP	3 (1935)	564
		-	-	Thermo	Stevenson	JCP	6 (1938)	25
		-	-	Freq, Thermo	Thompson	TFS	37 (1941)	251
		1300-1800	-	Spec	Barnes	IEC	15 (1943)	659
		-	-	FC	Walsh	TFS	43 (1947)	158
		-	-	FC	Torkington	PRS	206 (1951)	17
		2-40 μ	G,L	Spec, Assign	Nielsen	JCP	20 (1952)	596
		-	-	Potential function	Duchesne	JCP	22 (1954)	1464
		-	-	Freq	Johannesen	JRNB	53 (1954)	197
		1827	-	Freq	Margoshes	JCP	22 (1954)	381
		-	-	Freq	Kagarise	JACS	77 (1955)	1377
		2-15 μ	G	Spec	Pierson	AC	28 (1956)	1281
		500-5500	G	Spec, Assign	Catalano	JACS	80 (1958)	1054
		-	G	I, FC	Lovell	JMS	4 (1960)	173
$C^{12}Cl_2^{35}O^{16}$	Carbonyl chloride (isotopic)	-	-	Microwave	Robinson	JCP	21 (1953)	1741
$C^{12}Cl_2^{37}O^{16}$	Carbonyl chloride (isotopic)	-	-	Microwave	Robinson	JCP	21 (1953)	1741
CCl_2S	Thiophosgene	-	-	FC	Thompson	TFS	37 (1941)	251
		-	-	FC	Torkington	PRS	206 (1951)	17
		-	-	Vibrations	Duchesne	JCP	21 (1953)	548
		-	G	I, FC	Lovell	JMS	4 (1960)	173
CCl_3NS	Thiocyanogen trichloride	400-4000	L,G, Sol	Spec, Struct	Bacon	JCS	- (1958)	164
CF	Carbon fluoride	-	-	FC	Wu	PR	71 (1947)	118
CFN	Cyanogen fluoride	105.2-2294	-	FC, Freq	Thomas	JCP	20 (1952)	920
		-	-	Thermo	Luft	JCP	21 (1953)	1900
		1000-3000	G	Struct	Aynsley	PRCS	- (1959)	265
		-	G	Spec	Sheridan	N	185 (1959)	96
CF_2	Carbon difluoride	-	-	Vibrations	Duchesne	JCP	21 (1953)	2005
CF_2O	Carbonyl fluoride	7.74 μ	G	Anal	Nielson	JCP	19 (1951)	98
		2-40 μ	L,G	Spec, Assign	Nielsen	JCP	20 (1952)	596
		-	-	Ident	Callomon	JCS	- (1953)	3709

		-	-	FC	Lovell	PR	95	(1954)	300
		-	-	NCA, FC, Thermo	Lovell	JCP	22	(1954)	1953
		-	-	Ident	Barr	JCS	-	(1955)	1881
		-	-	Freq	Kagarise	JACS	77	(1955)	1377
CIN	Cyanogen iodide	-	-	FC	Penney	PRS	156	(1936)	654
		-	-	FC	Linnett	JCS	-	(1937)	1399
		-	-	Microwave	Gordy	PR	72	(1947)	259
		-	-	FC	Walsh	TFS	43	(1947)	60
		-	-	Microwave	Bardeen	PR	73	(1948)	627
		-	-	Microwave	Gilliam	PR	73	(1948)	635
		-	-	Quant. Mech., FC	Duchesne	JCP	17	(1949)	580
		-	-	FC	Linnett	TFS	45	(1949)	844
		0.2-0.3 μ	G	Microwave	Gilliam	PR	78	(1950)	140
		-	-	Pressure broadening	Mizushima	PR	83	(1951)	94
		-	-	FC	Thomas	JCP	19	(1951)	1162
		-	-	FC	Thomas	JCP	20	(1952)	920
		3.8-12 μ	Sol	Spec	Hazeldine	JCS	-	(1954)	4145
		-	Sol	Freq	Glusker	JCS	-	(1955)	471
		-	-	Microwave	Javan	PR	99	(1955)	1302
		-	-	Microwave	Low	PR	97	(1955)	1664
		300-3200	G,S	Spec, Assign	Freitag	JCP	24	(1956)	109
		3-14 μ	Sol	Solvent effect, I	Caldow	PRS	254	(1960)	17
$C^{12}I^{127}N^{14}$	Cyanogen iodide (isotopic)	-	G	Microwave	Smith	PR	74	(1948)	370
		-	G	Microwave	Townes	PR	74	(1948)	1113
$C^{13}I^{127}N^{14}$	Cyanogen iodide (isotopic)	-	G	Microwave	Smith	PR	74	(1948)	370
CN	Cyanide radical	-	-	FC	Brige	BAPS	1	(1925)	12
		-	-	Morse potential	Morse	PR	34	(1929)	57
		-	-	FC	Badger	JCP	2	(1934)	128
		-	-	Mol. Const.	Pekeris	PR	45	(1934)	98
		-	-	FC	Linnett	JCS	-	(1937)	1399
		-	-	Potential function	Linnett	TFS	36	(1940)	1123
		-	-	Potential function	Clark	TFS	37	(1941)	299
		-	-	FC	Linnett	TFS	38	(1942)	1
		-	-	FC	Wu	PR	71	(1947)	118
		1-1.6 μ	G	Oxyacetylene flame	Benedict	PR	83	(1951)	249
		2053	G	Spec	White	JCP	21	(1953)	1399

		1-2.6 μ	G	Freq	Benedict	JRNB	52	(1954)	57
		8700-9200	G	Spec	Benedict	JRNB	53	(1954)	161
		2080	Sol	Freq, I	Penneman	JCP	24	(1956)	293
CNO	Isocyanate ion	500-3800	S,Sol	Freq	Maki	JCP	31	(1959)	772
CNS	Isothiocyanate ion	-	-	FC	Penney	PRS	156	(1946)	654
CNS	Thiocyanate ion	-	-	FC	Linnett	JCS	-	(1937)	1399
CO	Carbon monoxide	-	-	Rotation	Kemble	PR	8	(1916)	689
		-	-	Theory of Harmonics	Kemble	PR	8	(1916)	701
		-	-	Theory of Harmonics	Kemble	PR	15	(1920)	95
		-	-	Thermo	Tolman	JACS	45	(1923)	2277
		-	-	Thermo	Urey	JACS	45	(1923)	1445
		4.6 μ	G	Moment of Inertia	Lowny	JOSA	8	(1924)	647
		-	-	Rate study	David	TFS	22	(1926)	273
		-	-	Band study	Brige	PR	30	(1927)	365
		-	-	Radiation of Combst.	Garner	TFS	24	(1928)	470
		1-8 μ	G	Spec	Bailey	TFS	25	(1929)	29
		1-7 μ	G	Spec	Bailey	JCS	-	(1929)	51
		-	-	Flame radiation	Garner	JCS	-	(1929)	1123
		-	-	Spec	Langer	PR	33	(1929)	1097
		-	-	Morse potential	Morse	PR	34	(1929)	57
		-	-	Freq	Rideal	TFS	25	(1929)	921
		-	-	Freq, Spec	Snow	TFS	25	(1929)	930
		-	-	I	Shearin	PR	35	(1930)	973
		-	-	Freq	Snow	PR	35	(1930)	563
		-	-	FC	Lochte	TFS	28	(1932)	698
		4.66 μ	G	I	Matheson	PR	40	(1932)	813
		-	-	Thermo	Gordon	JCP	1	(1933)	297
		-	-	Thermo	Kassel	JCP	1	(1933)	576
		-	-	Polarization	Matheson	PR	44	(1933)	604
		-	-	FC	Badger	JCP	2	(1934)	128
		-	G	Spec	Cross	JCP	2	(1934)	6
		-	-	Thermo	Johnston	JACS	56	(1934)	271
		-	-	Freq	Mecke	TFS	30	(1934)	2000
		-	-	Electric moments	Mulliken	JCP	2	(1934)	1400
		-	-	Mol. Const.	Pekeris	PR	45	(1934)	98
		-	-	FC	Sutherland	PRS	148	(1935)	250
		-	G	FC	Thompson	JCS	-	(1937)	1384

–	G	FC	Thompson	JCS	– (1937)	1396
–	–	Ident	Bailey	JCP	6 (1938)	225
2.34-4.66μ	G	Spec	Whitcomb	PR	55 (1939)	181
–	–	Spec	Geydon	PRS	176 (1940)	505
–	–	Potential function	Linnett	TFS	36 (1940)	1123
–	G	Thermo	Pitzer	CR	27 (1940)	39
–	–	Potential function	Clark	TFS	37 (1941)	299
–	–	Emission	Gaydon	PRS	178 (1941)	61
–	–	Thermo	Hulburt	JCP	9 (1941)	61
0.6-1μ	G	Spec	Gaydon	PRS	181 (1942)	197
4.66μ	–	Spec	Lagermann	JCP	10 (1942)	193
–	–	FC	Linnett	TFS	38 (1942)	1
–	–	Freq	Barnes	IEC	15 (1943)	659
–	G	Absorption	Nielsen	RMP	16 (1944)	307
–	G	Anal	O'Bryan	JOSA	35 (1945)	799
–	G	Anal, Pressure broadening	Coggeshall	JAP	17 (1946)	450
–	–	Spec	Coggeshall	JCP	15 (1947)	65
–	G	Anal	Seyfried	IEC	19 (1947)	298
–	–	FC	Walsh	TFS	43 (1947)	60
–	–	FC	Walsh	TFS	43 (1947)	158
–	–	FC	Wu	PR	71 (1947)	118
15μ	–	Emission, Absorption	Silverman	JCP	16 (1948)	155
–	G	Ident	Adel	PR	75 (1949)	1766
4.7μ	G	CO in atmosphere	Adel	PR	75 (1949)	1766
–	–	Emission band	Herman	JCP	17 (1949)	220
1.2-2.5μ	–	Spec	Herzberg	JCP	17 (1949)	1099
1-15μ	G	$CO-O_2$ explosion	Bullock	JCP	18 (1950)	1114
6μ	G	Spec	Chapman	PR	78 (1950)	333
–	G	Emmission	Penner	JAP	21 (1950)	685
2100-6400	G	Freq	Rao	JCP	18 (1950)	213
–	G	Absorption	Penner	JCP	19 (1951)	272
2142-4270	G	I	Penner	JCP	19 (1951)	807
4270	G	I	Penner	JCP	19 (1951)	817
–	G	Freq	Penner	JCP	19 (1951)	1351
–	G	Unpressurized line width	Penner	JCP	19 (1951)	1361
2.3-4.7μ	G	Spec	Penner	JAP	21 (1951)	685

–	G	Spec	Plyler	JOSA	41 (1951)	867
2-6μ	G	Anal	Roberts	JACS	73 (1951)	618
2.3-2.6μ	G	CO-O_2 flame	Silverman	PR	82 (1951)	337
–	G	Emission, Absorption	Silverman	AC	23 (1951)	1047
2142	G	Absorption	Weber	JCP	19 (1951)	974
2.3-2.4μ	G	CO in atmosphere	Goldberg	PR	85 (1952)	140
2.3-2.33μ	G	CO in atmosphere	Goldberg	PR	85 (1952)	481
2.3μ	G	Telluric CO	Howard	PR	87 (1952)	679
–	–	Polarizability	Matossi	JCP	20 (1952)	819
–	–	Emission	Penner	JAP	23 (1952)	256
–	G	Emission	Penner	JAP	23 (1952)	825
4.1-5.5μ	G	Spec	Plyler	JCP	20 (1952)	1178
–	G	Vibrations	Schwartz	JCP	20 (1952)	1591
2.3-4.7μ	G	Absorption	Shaw	PR	86 (1952)	654
4.7μ	G	Telluric CO	Shaw	PR	87 (1952)	380
2.3μ	G	Spec	Silverman	PR	87 (1952)	214
4.7μ	G	Double monochrome	Walsh	JOSA	42 (1952)	96
2150-2170	G	Spec	Benesch	JOSA	43 (1953)	1119
–	–	I	Bullock	JOSA	43 (1953)	389
2040-2220	G	Caliberation of prism	Downie	JOSA	43 (1953)	941
–	G	Emission	Lee	JOSA	43 (1953)	619
2143	G	Rotation line width	Weber	JCP	21 (1953)	1503
2053-2198	G	Spec	White	JCP	21 (1953)	1399
–	–	I	Aroeste	JCP	22 (1954)	1273
–	G	Line shape	Benedict	PR	94 (1954)	752
1-2.6μ	G	Freq	Benedict	JRNB	52B (1954)	57
–	G	Pressure broadening	Blau	PR	93 (1954)	360
4.5-6μ	–	Spec	Eischeus	JCP	22 (1954)	1164
–	–	I	Herman	JCP	22 (1954)	481
–	G	I	Herman	PR	94 (1954)	752
2143	–	Freq	Margoshes	JCP	22 (1954)	381
–	–	Emission	Penner	JRNB	52B (1954)	75
4300	G	Spec	Silverman	JRNB	52B (1954)	51
–	G	Emission	Smith	PR	93 (1954)	361
–	G	I	VincentGeisse	CPR	239 (1954)	251
–	–	Collision detection	deWette	JCP	22 (1954)	1620
2.4μ	G	Emission, Spec	Williams	PR	93 (1954)	361

		2-11.5 μ	G	Spec	Donovan	JCP	23 (1955)	1592
		-	G	I	Herman	JCP	23 (1955)	637
		-	-	Potential function	Lippincott	JCP	23 (1955)	1131
		-	-	Anal	Patterson	AC	27 (1955)	574
		2169	G	I	Penner	JCP	23 (1955)	2244
		4.67 μ	G	Mol. Const.	Plyler	JOSA	45 (1955)	102
		4-6 μ	G	Spec, Mol. Const.	Plyler	JRNB	55 (1955)	183
		1-5.5 μ	G	Emmission	Wilkinson	AC	27 (1955)	162
		2-15 μ	G	Emmission	Dickey	JCP	25 (1955)	180
		2.5-7.5 μ	-	Spec	Eischens	JPC	60 (1956)	194
		-	G	Spec	Neu	JPC	60 (1956)	320
		100-600	G	Spec	Palik	JCP	25 (1956)	1174
		2-15 μ	G	Spec	Pierson	AC	28 (1956)	1218
		-	-	FC	Baughan	TFS	53 (1957)	1046
		4.260 μ	G	Freq	Rank	JOSA	47 (1957)	686
		1700-2100	G	Spec	Eischens	JCE	35 (1958)	385
		-	-	Vibrations	Jones	DA	19 (1958)	456
		4000-4360	G	Mol. Const.	Plyler	JRNB	61 (1958)	53
		-	-	Chrometography	Smith	AC	30 (1958)	1217
		1800-2100	S	Spec	Garland	JPC	63 (1959)	1423
		-	Sol	Struct	Lascombe	BSCF	- (1959)	1175
		-	-	Band study	Singleton	DA	19 (1959)	2372
		2100-2300	G	Spec	Mould	SA	16 (1960)	479
		-	-	Band study	Rank	JMS	4 (1960)	518
$C^{12}O$	Carbon monoxide (isotopic)	-	G	Mol. Const.	Lagemann	PR	72 (1947)	284
		4.7 μ	G	Spec	Migeotte	PR	75 (1949)	1108
		0.2-0.3 μ	G	Microwave	Gilliam	PR	78 (1950)	140
		4.7-5.1 μ	-	Spec	Eischens	JPC	60 (1956)	194
$C^{12}O^{16}$	Carbon monoxide (isotopic)	1.58-2.35 μ	G	Spec, Mol. Const.	Plyler	JCP	20 (1952)	175
		-	G	Microwave	Bedard	PR	92 (1953)	1440
		2140	G	Spec, Mol. Const.	Mills	TFS	49 (1953)	224
		4.5-5.2 μ	G	Mol. Const.	Plyler	JOSA	43 (1953)	822
$C^{12}O^{18}$	Carbon monoxide (isotopic)	1.58-2.35 μ	G	Spec	Plyler	JCP	20 (1952)	175
		2140	G	Spec, Mol. Const.	Mills	TFS	49 (1953)	224
		4.5-5.2 μ	G	Mol. Const.	Plyler	JOSA	43 (1953)	822
		4-6 μ	G	Spec, Mol. Const.	Plyler	JRNB	55 (1955)	183

$C^{13}O$	Carbon monoxide (isotopic)	-	G	Mol. Const.	Lagemann	PR	72 (1947)	284
		4.7μ	G	Spec	Migeotte	PR	75 (1949)	1108
		0.2-0.3μ	G	Microwave	Gilliam	PR	78 (1950)	140
		4.7-5.1μ	-	Spec	Eischers	JPC	60 (1956)	194
$C^{13}O^{16}$	Carbon monoxide (isotopic)	1.58-2.35μ	G	Spec	Plyler	JCP	20 (1952)	175
		2140	G	Spec, Mol. Const.	Mills	TFS	49 (1953)	224
		4.5-5.2μ	G	Mol. Const.	Plyler	JOSA	43 (1953)	822
		4-6μ	G	Spec, Mol. Const.	Plyler	JRNB	55 (1955)	183
CO^{17}	Carbon monoxide (isotopic)	-	G	Mol. Const., Struct	Rosenblum	JCP	27 (1957)	828
CO	Carbon monoxide ion	-	-	Morse potential	Morse	PR	34 (1929)	57
		-	-	Potential function	Linnett	TFS	36 (1940)	1123
		-	-	Potential function	Clark	TFS	37 (1941)	299
		-	-	FC	Linnett	TFS	38 (1942)	1
		-	-	FC	Wu	PR	71 (1947)	118
COS	Carbonyl sulfide	-	-	Struct	Lichte	TFS	28 (1932)	698
		-	-	Freq	Bailey	PRS	140 (1933)	605
		-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
		1-20μ	G	Spec	Bartunek	PR	48 (1935)	516
		-	-	Thermo	Cross	JCP	3 (1935)	825
		-	-	FC	Penney	PRS	156 (1936)	654
		-	-	FC	Glockler	RMP	15 (1943)	111
		-	-	Quant. Mech.	Nielsen	JCP	11 (1943)	160
		-	-	Quant. Mech.	Glockler	JCP	13 (1945)	388
		-	-	Vib. Anal	Carter	JCP	14 (1946)	32
		-	-	FC	Glockler	JCP	14 (1946)	294
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Vib. Anal	Kron	JCP	14 (1946)	19
		1μ	-	Microwave	Townes	PR	71 (1947)	64
		-	-	Microwave	Townes	PR	72 (1947)	1266
		-	-	FC	Walsh	TFS	43 (1947)	158
		-	-	Spec	Dailey	AC	21 (1949)	540
		-	-	FC, Quant. Mech.	Duchesne	JCP	17 (1949)	586
		-	-	Microwave	Strandberg	PR	75 (1949)	270
		-	-	Doubling theory	Nielsen	PR	78 (1950)	296
		-	G	Microwave	Shulman	PR	77 (1950)	421
		2-2.5μ	G	Freq, Assign, FC, I	Collomon	PRS	208 (1951)	341
		-	-	Pressure broadening	Mizushima	PR	83 (1951)	94

		859-2079	G	I	Robinson	AC	23 (1951)	1044
		-	-	Mol. Const. I	Robinson	JCP	19 (1951)	1162
		-	-	FC	Thomas	JCP	19 (1951)	1162
		-	-	Polarizability	Matossi	JCP	20 (1952)	819
		859-2064	G	I	Mckean	JCP	20 (1952)	520
		-	G	Vibrations	Schwartz	JCP	20 (1952)	1591
		-	-	FC, Freq	Thomas	JCS	- (1952)	2383
		2079	-	Freq	Margoshes	JCP	22 (1954)	381
		-	-	Microwave	Peter	PR	95 (1954)	622
		1.9 μ	G	I	Wingfield	JCP	22 (1954)	1949
		-	G	Microwave	Anderson	PR	97 (1955)	1654
		-	-	Microwave	Law	PR	97 (1955)	1664
		0.8-2 μ	G	Microwave	Burrus	PR	101 (1956)	599
		1-5.5 μ	-	Rot. Const.	Allen	JCP	26 (1957)	400
		1.25 μ	-	Microwave, I	Dymanus	P	25 (1959)	859
		-	-	Band study, Mol. Const.	Saksena	DA	20 (1959)	701
		-	-	Mol. Const.	Saksena	JCP	31 (1959)	839
		-	-	FC	Verdier	JCP	30 (1959)	1372
$C^{12}O^{16}S^{32}$	Carbonyl sulfide (isotopic)	-	G	Microwave	Townes	PR	72 (1947)	513
		-	G	Microwave	Townes	PR	74 (1948)	1113
		-	G	Microwave	Shulman	PR	77 (1950)	500
		-	G	Microwave	Burrus	PR	93 (1954)	897
		-	G	Microwave	King	PR	93 (1954)	407
		-	G	Microwave	Dymanus	JCP	32 (1960)	717
$C^{12}O^{16}S^{33}$	Carbonyl sulfide (isotopic)	-	G	Microwave	Townes	PR	72 (1947)	513
		-	G	Microwave	Townes	PR	74 (1948)	1113
		5 μ	G	Spec, Mol. Const.	Calloman	PRS	222 (1954)	431
$C^{12}O^{16}S^{34}$	Carbonyl sulfide (isotopic)	-	G	Microwave	Townes	PR	72 (1947)	513
		-	G	Microwave	Townes	PR	74 (1948)	1113
		-	G	Microwave	Shulman	PR	77 (1950)	500
$C^{12}O^{18}S^{32}$	Carbonyl sulfide (isotopic)	-	G	Microwave	Townes	PR	74 (1948)	1113
$C^{13}O^{16}S^{32}$	Carbonyl sulfide (isotopic)	-	G	Microwave	Townes	PR	74 (1948)	1113
		-	G	Microwave	Shulman	PR	77 (1950)	500
$C^{13}O^{16}S^{34}$	Carbonyl sulfide (isotopic)	-	G	Microwave	Townes	PR	74 (1948)	1113

$C^{14}O^{16}S^{32}$	Carbonyl sulfide (isotopic)	-	G	Microwave	Townes	PR	74 (1948)	1113
COSe	Carbonyl selenide	-	-	Quant. Mech., FC	Duchesne	JCP	17 (1949)	586
$COSe^{76}$	Carbonyl selenide (isotopic)	0.8-2 μ	G	Microwave	Burrus	PR	101 (1956)	599
$COSe^{77}$	Carbonyl selenide (isotopic)	0.8-2 μ	G	Microwave	Burrus	PR	101 (1956)	599
$COSe^{78}$	Carbonyl selenide (isotopic)	0.8-2 μ	G	Microwave	Burrus	PR	101 (1956)	599
$COSe^{79}$	Carbonyl selenide (isotopic)	0.8-2 μ	G	Microwave	Burrus	PR	101 (1956)	599
$COSe^{80}$	Carbonyl selenide (isotopic)	0.8-2 μ	G	Microwave	Burrus	PR	101 (1956)	599
$COSe^{82}$	Carbonyl selenide (isotopic)	0.8-2 μ	G	Microwave	Burrus	PR	101 (1956)	599
CO_2	Carbon dioxide	-	-	Thermo	Tolman	JACS	45 (1923)	2277
		6.7 μ	G	Spec	Ellis	PR	26 (1925)	283
		-	G	Bunsen's flame	Ellis	PR	26 (1925)	469
		-	G	Spec	Dickinson	PR	34 (1929)	582
		-	G	Comparison with Raman	Langer	PR	33 (1929)	1097
		-	-	Rotator theory	Bailey	TFS	26 (1930)	197
		-	-	Vibrations	Yates	PR	36 (1930)	555
		-	-	Atmospheric temp.	Hulburt	PR	38 (1931)	1876
		15 μ	G	Spec	Sleator	PR	38 (1931)	147
		-	G	Thermo.	Badger	JACS	54 (1932)	3523
		-	-	Vibrations	Dennison	PR	41 (1932)	304
		-	-	Struct, Thermo.	Lochte	TFS	28 (1932)	698
		4.3-15 μ	G	Spec, Mol. Const.	Martin	PR	41 (1932)	291
		-	-	Thermo.	Rodebush	PR	40 (1932)	113
		-	-	Dispersion	Smallwood	PR	41 (1932)	164
		-	G	Mol. Const.	Villars	CR	11 (1932)	369
		-	G	Spec	Weber	PR	40 (1932)	835

-	G	Spec	Weber	PR	40 (1932)	835
-	-	Vib	Adel	PR	44 (1933)	99
10 μ	G	Band study	Barker	PR	44 (1933)	185
-	-	Thermo	Gordon	JCP	1 (1933)	308
-	-	Perturbation theory	Kassel	JCP	1 (1933)	414
1.4-5 μ	G	Spec	Baker	PR	45 (1934)	1
-	-	Potential field	Goodeve	TFS	30 (1934)	60
-	-	Thermo	Kassel	JACS	56 (1934)	1838
-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
5-21 μ	G	Absorption	Adel	PR	47 (1935)	580
-	-	Excited electronic state	Duncan	JCP	3 (1935)	384
1.2031-1 μ	G	Band study	Herzberg	PR	48 (1935)	706
-	-	FC	Sutherland	PRS	148 (1935)	250
-	G	Refractive Index	Keys	CR	19 (1936)	195
4.2-4.3 μ	G	Anal	McAlister	PR	49 (1936)	704
-	G	FC	Penney	PRS	156 (1936)	654
-	G	FC	Thompson	JCS	- (1937)	1384
-	G	FC	Thompson	JCS	- (1937)	1396
-	-	Quant. Mech.	Weinberg	JCP	5 (1937)	517
4.3 μ	G	Rotational Anal	Cameron	PR	53 (1938)	246
1650-5000	-	Caliberation	Gershinowitz	JCP	6 (1938)	197
4.2-15 μ	G	Freq	Shearin	JOSA	28 (1938)	61
-	-	Coriolis coupling theory	Jahn	PR	56 (1939)	680
-	G	Freq	Dennison	RMP	12 (1940)	175
-	G	Thermo	Pitzer	CR	27 (1940)	39
-	G	Solar Spec.	Adel	PR	59 (1941)	915
2-14 μ	G	Spec	McAlister	RSI	12 (1941)	314
-	-	Quant. Mech.	Redlich	JCP	9 (1941)	298
-	-	Freq	Barker	RMP	14 (1942)	198
-	-	l-type doubling	Herzberg	RMP	14 (1942)	219
13.9-15.4 μ	G	Spec	Oetjen	RSI	13 (1942)	515
-	-	FC	Glockler	RMP	15 (1943)	111
-	-	Quant. Mech.	Nielsen	JCP	11 (1943)	140
-	G	Spec	Babrovnikoff	RMP	16 (1944)	271
-	-	Absorption	Nielsen	RMP	16 (1944)	307
-	-	Vibrations	Shaffer	RMP	16 (1944)	245
-	-	Quant. Mech.	Glockler	JCP	13 (1945)	388
2300-2400	G	Band study	Nielsen	PR	68 (1945)	173
-	-	Vib. Anal	Carter	JCP	14 (1946)	32

-	G	Anal	Coggeshall	JAP	17 (1946)	450
-	-	FC	Gordy	JCP	14 (1946)	305
-	-	Vib. Anal	Kron	JCP	14 (1946)	19
2 μ	-	Spec	Adel	PR	72 (1947)	538
4.3-13 μ	G	Spec	Bell	RSI	18 (1947)	48
-	-	Pressure broadening	Coggeshall	JCP	15 (1947)	65
14-16 μ	-	Quant. Mech.	Kaplan	JCP	15 (1947)	809
15 μ	G	Struct	Nielsen	JOSA	37 (1947)	296
-	G	Anal, Pressure broadening	Seyfried	IEC	19 (1947)	298
-	-	I	Thornd	JCP	15 (1947)	868
-	-	FC	Walsh	TFS	43 (1947)	60
-	-	FC	Walsh	TFS	43 (1947)	158
-	-	Thermo	Crawford	JCP	16 (1948)	233
1-24 μ	G	Spec	Plyler	JRNB	40 (1948)	113
1.7-24 μ	G	Spec	Plyler	JRNB	40 (1948)	449
-	-	Absorption	Silverman	JCP	16 (1948)	155
-	G	Absorption	Adel	PR	75 (1949)	1262
2.08 μ	-	Atmosphere	Adel	PR	75 (1949)	1262
-	-	Quant. Mech., FC	Duchesne	JCP	17 (1949)	586
-	G	Emission	Giasburg	PR	75 (1949)	1317
-	-	FC	Linnett	TFS	45 (1949)	844
-	G	Performance of Cashmancell	McMath	JOSA	39 (1949)	903
-	G	Absorption	Mohler	PR	75 (1949)	520
0.8-5 μ	G	Acetylene flame	Plyler	JRNB	42 (1949)	567
2-16 μ	-	Band study	Sheline	JCP	17 (1949)	747
1286-1388	G	Absorption	Welsh	PR	76 (1949)	580
6 μ	G	Spec	Chapman	PR	78 (1950)	333
-	-	Anal	Coggeshall	AC	22 (1950)	381
-	G	Spec	Goldberg	PR	78 (1950)	74
2.7 μ	G	Freq	Jones	PR	77 (1950)	1004
15 μ	G	I	Kaplan	JCP	18 (1950)	186
-	G	Rad. Equilibria	Plass	PR	78 (1950)	334
9-10 μ	G	Spec	Shaw	PR	79 (1950)	1017
2.7 μ	G	Spec	Benedict	JRNB	46 (1951)	246
4.2 μ	G	R-Branch Heads	Benedict	JCP	19 (1951)	1325
-	G	I	Eggers	JCP	19 (1951)	1554
-	G	I	Eggers	AC	23 (1951)	1045
4 μ	G	Band study	Herrick	AC	23 (1951)	661
-	-	Caliberation of twin beam meter	Koppins	AC	23 (1951)	554

1.5 μ	G	Absorption	Plass	PR	85 (1951)	708
2-6 μ	G	Anal	Roberts	JACS	73 (1951)	618
-	-	I	Robinson	AC	23 (1951)	1044
15 μ	G	Spec	Taylor	JCP	19 (1951)	1314
-	-	FC	Thomas	JCP	19 (1951)	1162
-	G	Anal	Weigl	JACS	73 (1951)	5058
7000	G	Spec	Gailar	JRNB	48 (1952)	392
-	G	Spec, Freq	Gailar	PR	86 (1952)	586
2.7 μ	G	Spec	Goulden	JSI	29 (1952)	215
4.3-14.9 μ	G	Inst. perform.	Ham	JOSA	42 (1952)	496
1-21 μ	G	Emission	Holm	JAP	23 (1952)	1283
1-7 μ	G	Absorption	Howard	JOSA	42 (1952)	856
15-25 μ	G	Spec, Freq	Marrison	JSI	29 (1952)	233
-	-	Polarizability	Matoszi	JCP	20 (1952)	819
600-3800	S	Spec, Assign	Osberg	JCP	20 (1952)	1345
4.1-5.5 μ	G	Spec	Plyler	JCP	20 (1952)	1178
4-.5 μ	G	Band study	Plyler	JOSA	42 (1952)	875
-	G	Vib.	Schwartz	JCP	20 (1952)	1591
2000-5000	G	Spec	Talley	JOSA	42 (1952)	982
4.5-25 μ	G	Atmospheric transmission	Taylor	JCP	20 (1952)	528
4-25 μ	G	Spec	Taylor	JOSA	42 (1952)	286
2.4-25 μ	G	Spec	Taylor	JCP	20 (1952)	1884
-	-	FC	Thomas	JCS	- (1952)	2383
2.8-4.3 μ	G	Spec	Tourin	JCP	20 (1952)	1651
4.3-15 μ	G	Struct	Walsh	TFS	43 (1952)	60
-	G	Anal	Watkins	AC	24 (1952)	591
618-5109	G	Absorption	Weber	JCP	20 (1952)	1820
4.3 μ	G	Spec	Yarnell	JSI	29 (1952)	352
15 μ	G	Line width	Adel	PR	90 (1953)	1024
-	G	Band study	Adel	JOSA	43 (1953)	1053
4.25 μ	G	Cathode ray tube presentation	Brown	JSI	30 (1953)	5
-	G	I	Bullock	JOSA	43 (1953)	389
280-5435	G	Calibration data for prism	Downie	JOSA	43 (1953)	941
-	-	Distributed rotation	Van Dranen	JCP	21 (1953)	1404
12.5 μ	G	Spec, Assign	Herzberg	JOSA	43 (1953)	1037
-	G	Emission	Lee	JOSA	43 (1953)	619
15 μ	G	Thermo	Plaso	PR	91 (1953)	458
4.25 μ	G	Spec	Roberts	JSI	30 (1953)	199

–	–	Energy exchange	Widom	JCP	21	(1953)	1670
2349	G	Spec	White	JCP	21	(1953)	1399
–	G	Line shape	Benedict	PR	94	(1954)	752
4900	G	Band study	Benedict	JRNB	52B	(1954)	57
–	–	Anal	Berton	CPR	238	(1954)	477
1.28μ	G	Microwave	Birnbaum	PR	95	(1954)	622
640–700	G	I	Cole	JOSA	44	(1954)	741
–	G	Transmission	Fahrenfort	JCP	22	(1954)	1631
–	G	Absorption	Fahrenfort	JP	15	(1954)	617
2–7μ	G	Spec	France	PR	94	(1954)	1423
–	–	Anal	Garvin	JACS	76	(1954)	1523
–	G	Ident	Haszeldine	JCS	–	(1954)	4026
–	–	Band freq	Johannesen	JRNB	53	(1954)	197
–	G	Band study	Kendrick	JOSA	44	(1954)	501
–	G	Emissivity calculations	Penner	JAP	25	(1954)	660
–	–	FC	Teranishi	JCP	22	(1954)	896
2.8–4.3μ	G	Spec	Tourin	JRNB	52B	(1954)	87
–	G	Thermo.	Woolley	JRNB	52	(1954)	289
–	G	Fermi resonance	Courtoy	JCP	23	(1955)	975
2–11.5μ	G	Spec	Donovan	JCP	23	(1955)	1592
2.7μ	G	Anal, Spec	France	JCP	23	(1955)	471
–	G,L,S	Absorption, Freq	Gaizauskas	PR	99	(1955)	1639
10.4μ	G	Band study	Kostkowski	JOSA	45	(1955)	406
3–5μ	–	Random errors	Lord	AC	27	(1955)	327
–	–	Anal	Patterson	AC	27	(1955)	574
4–6μ	G	Spec, Mol. Const.	Plyler	JRNB	55	(1955)	183
3–16μ	G	Spec	Sloan	JOSA	45	(1955)	455
13.8–15.6μ	G	Spec	Yates	JOSA	45	(1955)	192
–	–	Fermi resonance	Amat	JCP	24	(1956)	44
–	–	Spec	Neu	JPC	60	(1956)	320
2–15μ	G	Spec	Pierson	AC	28	(1956)	1218
2.7–15μ	G	Spec, Anal	Rossmann	JCP	24	(1956)	1007
721–742	–	I	Kostkowski	JCP	26	(1957)	1252
800	S	Spec, Freq, Assign	Dows	SA	13	(1958)	308
–	–	Pressure modulation	Gilfert	JOSA	48	(1958)	765
1100–2000	G,L	Spec	Binder	JACS	81	(1959)	3608
–	–	Absorption	Singleton	DA	19	(1959)	2372
–	Sol	Spec	Jacob	CPR	249	(1959)	523
450–3000	G	Absorption	Edwards	JOSA	50	(1960)	617
3–6μ	G	Spec	Mould	SA	16	(1960)	479

		1020-1100	G	Struct	Nielsen	JPR	21 (1960)	24
		-	-	I	Schurin	JCP	33 (1960)	1878
$C^{12}O_2$	Carbon dioxide (isotopic)	-	G	Anal	Mitatz	JCP	19 (1951)	887
		4.5-15.8 μ	G	Spec, Anal	Nielson	JCP	22 (1954)	36
$C^{12}O_2^{16}$	Carbon dioxide (isotopic)	-	G	Study of isotopes	Nielsen	PR	53 (1938)	983
		2 μ	G	Isotope study	Goldberg	PR	74 (1948)	1881
		1.5-2.5 μ	G	Spec	Goldberg	PR	76 (1949)	1848
		-	-	Doubling theory	Detteer	JCP	20 (1952)	101
		15 μ	G	Spec	Rossmann	JCP	24 (1956)	103
		3500-8000	G	Anal, Mol. Const.	Courtoy	CJP	35 (1957)	608
		-	-	Band study	Orssmann	DA	19 (1958)	341
$C^{12}O^{16}O^{18}$	Carbon dioxide (isotopic)	2 μ	G	Isotopes	Goldberg	PR	74 (1948)	1881
		1.5-2.5 μ	G	Spec	Goldberg	PR	76 (1949)	1848
		-	-	I	Eggers	JCP	27 (1957)	1405
		-	-	Freq	Eggers	JCP	28 (1958)	512
$C^{13}O_2$	Carbon dioxide (isotopic)	-	-	Quant. Mech.	Nielsen	JPR	68 (1945)	173
		2240-2320	G	Vibrations	Glockler	JCP	17 (1949)	388
		-	-	Freq	Sheline	JCP	17 (1949)	747
		-	G	Isotopes, Anal	Mitatz	JCP	19 (1951)	887
		4.5-15.8 μ	G	Spec, Anal	Nielsen	JCP	22 (1954)	36
$C^{13}O_2^{16}$	Carbon dioxide (isotopic)	4.37 μ	G	Vib.	Nielsen	PR	53 (1938)	983
		2 μ	G	Isotopes	Goldberg	PR	74 (1948)	1881
		1.5-2.5 μ	G	Spec	Goldberg	PR	76 (1949)	1848
		2.7 μ	G	Freq	Jones	PR	79 (1950)	1004
		4-6 μ	G	Spec, Mol. Const.	Plyler	JRNB	55 (1955)	183
$C^{14}O_2^{16}$	Carbon dioxide (isotopic)	-	G	Freq	Nielsen	PR	83 (1951)	245
$C^{14}O_2$	Carbon dioxide (isotopes)	2-16 μ	-	Freq	Sheline	JCP	17 (1949)	747
		4.5-15.8 μ	G	Spec, Anal	Nielsen	JCP	22 (1954)	36
CO_2^-	Carboxylate ion	-	S	Freq	Mizushima	JACS	75 (1953)	4870
CO_3^{-2}	Carbonate ion	-	-	Vib.	Nielsen	PR	32 (1928)	773
		-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
		-	-	FC	Cassie	PRS	148 (1935)	87
		-	-	Selection rule	Halford	JCP	14 (1946)	8

		-	-	FC	Heath	TFS	44 (1948)	873
		-	-	Quant. Mech.	Hornig	JCP	16 (1948)	1063
		-	-	FC	Linnett	TFS	48 (1952)	592
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2368
CO_3	Carbon trioxide	-	-	Band study	Tagirov	DANS	116 (1957)	797
CP	Carbon phosphorus	-	-	FC	Linnett	TFS	38 (1942)	1
		-	-	FC	Wu	PR	71 (1947)	118
CS	Carbon monosulfide	-	-	FC	Lochte	TFS	28 (1932)	698
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	FC	Badger	PR	48 (1935)	284
		-	-	FC	Linnett	TFS	38 (1942)	1
		-	-	FC	Wu	PR	71 (1947)	118
$C^{12}S^{32}$	Carbon monosulfide (isotopic)	-	-	Microwave	Mockler	PR	98 (1955)	1837
$C^{12}S^{33}$	Carbon monosulfide (isotopic)	-	-	Microwave	Mockler	PR	98 (1955)	1837
$C^{12}S^{34}$	Carbon monosulfide (isotopic)	-	-	Microwave	Mockler	PR	98 (1955)	1837
$C^{13}S^{32}$	Carbon monosulfide (isotopic)	-	-	Microwave	Mockler	PR	98 (1955)	1837
CSSe	Thiocarbonyl selenide	2-15 μ	L,G	Spec, Ident	Wentik	JCP	29 (1958)	188
CSTe	Thiocarbonyl telluride	-	-	Microwave	Hardy	PR	95 (1954)	385
		2-15 μ	Sol	Spec, Ident	Wentik	JCP	29 (1958)	188
CS_2	Carbon disulfide	2 μ	L	Dispersion	Nichols	PR	1 (1893)	1
		5.2 μ	L	Transparency	Hollnagel	PR	11 (1918)	505
		0.4-2.0 μ	L	Refractive index	Coblentz	JOSA	4 (1920)	432
		-	-	Magnetic rotation	Ingersoll	JOSA	5 (1921)	156
		0.8-2.0 μ	L	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
		3-6.5 μ	L	Spec	Daniels	JACS	47 (1925)	2856
		-	-	Freq, Thermo.	Lecomte	TFS	25 (1929)	864
		-	-	Vibrations	Yates	PR	36 (1930)	555

25 μ	G	Assign	Dennison	PR	38	(1931)	2077
0.5-2 μ	L	Kerr Effect	Ingersoll	PR	37	(1931)	1184
6.7-33 μ	G	Transmission	Strong	PR	37	(1931)	1565
-	-	Assign	Bhagvantam	PR	39	(1932)	1020
20.7-41 μ	G	Spec	Dennison	PR	41	(1932)	304
-	-	Struct, Thermo	Lochte	TFS	28	(1932)	698
-	-	Isotope effect	Salant	PR	42	(1932)	812
20.7-41 μ	G	Spec	Strong	PR	42	(1932)	267
4.61 μ	-	Spec, Struct	Bailey	PRS	140	(1933)	605
2 μ	L	Kerr effect	Ingersoll	PR	44	(1933)	399
25.2 μ	G	Spec	Strong	PR	45	(1934)	877
-	-	Quant. Mech.	Wilson	JCP	2	(1934)	432
-	-	Thermo.	Cross	JCP	3	(1935)	829
-	-	Excited electronic state	Duncan	JCP	3	(1935)	384
-	-	Struct	Mulliken	JCP	3	(1935)	564
1-12 μ	L	Dispersion	Pfund	JOSA	25	(1935)	351
52-152 μ	L	Dispersion	Cartwright	PRS	154	(1936)	138
-	-	FC	Penney	PRS	156	(1936)	654
0.6-9.0 μ	L	Refractive index	Pfund	JOSA	26	(1936)	230
4.54-4.62 μ	G	Spec, Anal	Sanderson	PR	50	(1936)	209
1-2.5 μ	L	Spec	Kinsey	PR	51	(1937)	1074
-	L	Dispersion	Davis	JOSA	30	(1940)	488
-	-	FC	Glockler	RMP	15	(1943)	111
-	-	Absorption	Nielsen	RMP	16	(1944)	307
-	-	Quant. Mech.	Glockler	JCP	13	(1945)	388
3-20 μ	L	Spec	Torkington	TFS	41	(1945)	184
-	-	FC	Gordy	JCP	14	(1946)	305
-	-	FC	McDowell	PRS	187	(1946)	398
2-24 μ	L,G	Spec, Assign	Plyler	JRNB	39	(1947)	59
24-40 μ	-	Freq	Plyler	JCP	16	(1948)	1008
2-15 μ	-	Instrument callibration	Crooker	PR	76	(1949)	592
-	-	Quant. Mech., FC	Duchesne	JCP	17	(1949)	586
-	-	FC	Linnett	TFS	45	(1949)	844
3 μ	-	Dispersion	Lecomte	JPR	11	(1950)	67
650-1400	L	Spec	Cannon	SA	4	(1951)	373
4.7 μ	Sol	Anal	Meeks	AC	23	(1951)	792
-	-	I	Robinson	AC	23	(1951)	1044
1523	G	I	Robinson	JCP	19	(1951)	881
8-15 μ	-	Spec	Scott	JACS	73	(1951)	2599
-	-	FC	Thomas	JCP	19	(1951)	1162
2.2 μ	L	Freq	Acquista	JRNB	49	(1952)	13

		2.2 μ	G	Spec, Freq	Gailar	PR	86	(1952)	586
		-	G	Spec, Freq	Gailar	JRNB	48	(1952)	392
		-	-	Polarizability	Matossi	JCP	20	(1952)	819
		1523	G	I	Mckean	JCP	20	(1952)	520
		23-27 μ	G	Prism performance	Plyler	JRNB	49	(1952)	61
		2-15 μ	L	Spec	Pristera	APS	6	(1952)	29
		2-15 μ	L	Spec	Tarpley	AC	24	(1952)	315
		-	-	FC	Thomas	JCS	-	(1952)	2383
		382.5-469.7	G	Spec	Hadni	CPR	236	(1953)	1761
		7-13.5 μ	L	Spec	Eckstein	JCP	22	(1954)	28
		1200-1800	Sol	Band study, I	Ketelaar	JCP	23	(1955)	749
		1500-2100	Sol	Solutes effect	Ketelaar	JCP	23	(1955)	1549
		-	Sol	Spec	Sirkar	JCP	23	(1955)	2439
		-	G	Anal, Struct	Allen	JACS	78	(1956)	4843
		-	-	FC	Baughan	TFS	53	(1957)	1046
		-	-	Depolarizing light theory	Buckingham	TFS	53	(1957)	884
		1-13 μ	L	Dispersion	Jaffe	JOSA	47	(1957)	782
		380-415	G	Spec	Lord	JOSA	47	(1957)	689
		15-150 μ	-	Spec	Lord	JOSA	47	(1957)	340
		-	-	Freq	Pinchas	AC	29	(1957)	334
		2.2 μ	G	Freq, Mol. Const.	Guenther	JCP	28	(1958)	682
		1200-2500	G	Freq	Jones	JCP	28	(1958)	995
		2-25.27 μ	G,L	Assign, Freq	Schatz	JCP	29	(1958)	959
		2-15 μ	L,G	Spec, Ident	Wentik	JCP	29	(1958)	188
		4530-4575	-	Freq, Struct, Mol. Const.	Guenther	JCP	31	(1959)	1095
		-	G	I	Smirnov	OS	7	(1959)	193
		700-1400	S	I, Assign, Spec	Whalley	CJC	38	(1960)	2105
$C^{13}S_2$	Carbon disulfide (isotopic)	-	-	Quant. Mech.	Glockler	JCP	13	(1945)	388
CSe_2	Carbon diselenide	800-2500	-	Spec	Treiber	ACS	11	(1957)	752
		2-15 μ	L,G	Spec, Ident	Wentik	JCP	29	(1958)	188
		7.6-7.9 μ	Sol,G	I	Wentik	JCP	31	(1959)	834
CSi	Silicon carbide	-	S	Emissivity	Pirani	JSI	16	(1939)	372
		-	-	Spec	Ramdas	PIAS	37	(1953)	571
		1-15 μ	-	Spec	Stewart	JRNB	59	(1957)	405
		1-25 μ	-	Freq	Spitzer	PR	113	(1959)	127
		1-15 μ	L	Anal	Spitzer	PR	113	(1959)	133

C_2	Carbon	0.778-2.14 μ	S	Transmission	Nichols	PR	1 (1893)	1
		0.8-8 μ	-	Spec	Nichols	PR	2 (1895)	260
		2.4 μ	-	Emission	Barker	PR	7 (1916)	451
		-	-	Spec	King	PR	14 (1919)	271
		0.9-2 μ	-	Spec	Ingram	PR	33 (1929)	1092
		0.9-2 μ	-	Freq	Ingram	PR	34 (1929)	421
		-	-	Morse potential	Morse	PR	34 (1929)	57
		5-50 μ	-	Absorption	Cartwright	PR	35 (1930)	415
		6.7-33 μ	-	Transmission	Strong	PR	37 (1931)	1565
		20-130 μ	-	Spec	Barnes	PR	39 (1932)	562
		-	-	FC	Badger	JCP	2 (1934)	128
		0.5-2.2 μ	S	Transmission	Hulburt	RSI	5 (1934)	85
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		1-120 μ	S	Spec	Barnes	JOSA	26 (1936)	428
		-	-	Particle size	Gamble	IEC	9 (1937)	310
		0.83-1.13 μ	S	Spec	Kiess	JRNB	20 (1938)	33
		-	-	Potential function	Linnett	TFS	36 (1940)	1123
		-	-	FC	Clark	TFS	37 (1941)	293
		-	-	Potential function	Clark	TFS	37 (1941)	299
		-	-	Thermo	Hulburt	JCP	9 (1941)	61
		2-25 μ	S	Spec	Wells	JPC	45 (1941)	1055
		-	-	FC	Linnett	TFS	38 (1942)	1
		1-17 μ	S	Emissive power	Smith	RSI	13 (1942)	63
		1-2 μ	-	Solar atomic lines	McMath	PR	72 (1947)	644
		-	-	FC	Wu	PR	71 (1947)	118
		1-39 μ	S	Spec	Plyler	JOSA	38 (1948)	988
		1-16 μ	G	Oxyacetylene flame	Benedict	PR	83 (1951)	245
		2-11 μ	S	Spec	Waldock	JPC	56 (1952)	654
		1-2.6 μ	G	Band freq	Benedict	JRNB	52B (1954)	57
		-	-	Thermo.	Glockler	JCP	22 (1954)	159
		-	-	Freq, Spec	Minnhagen	AMAF	7 (1954)	413
C_2	Dicarbon radical	7900-8300	G	Spec	Benedict	JRNB	53 (1954)	161
C_2N_2	Cyanogen	20.7-152 μ	G	Spec	Strong	PR	42 (1932)	267
		-	-	Spec	Woo	PR	39 (1932)	932
		-	-	Assign	Shochow Woo	JCP	3 (1935)	541

		-	-	Thermo	Linnett	JCS	-	(1937)	1399
		-	-	FC	Bailey	JCP	7	(1939)	859
		-	-	Spec, Assign	Burick	JCP	7	(1939)	1114
		-	-	Freq, Thermo	Thompson	TFS	37	(1941)	344
		-	-	FC	Walsh	TFS	42	(1946)	779
		-	-	FC	Walsh	TFS	43	(1947)	60
		-	-	FC	Linnett	TFS	45	(1949)	844
		2150	G	I	Nixon	JCP	18	(1950)	1316
		-	-	Interaction theory	Duchesne	JCP	19	(1951)	1191
		-	-	FC	Jones	PRS	211	(1952)	285
		-	-	Polarizability	Matossi	JCP	20	(1952)	819
		2157-2675	G	Spec	Craine	TFS	49	(1953)	1273
		2-15 μ	G	Spec	Pierson	AC	28	(1956)	1218
		-	-	Freq, Thermo	Rutner	JCP	24	(1956)	173
		-	-	Spec, NCA	Miyazava	JCP	29	(1958)	421
$C_2^{12}N_2^{14}$	Cyanogen (isotopic)	400-2400	G	NCA, I, FC	Schultz	JMS	2	(1958)	113
$C^{12}C^{13}N_2^{14}$	Cyanogen (isotopic)	400-2400	G	NCA, I, FC	Schultz	JMS	2	(1958)	113
$C_2N_2S_2$	Thiocyanogen	400-2210	Sol	Spec	Nelson	JCS	-	(1960)	604
C_3	Carbon	-	-	Thermo	Glockler	JCP	22	(1954)	159
C_3O_2	Carbon suboxide	-	-	Quant. Mech.	Wilson	JCP	2	(1934)	432
		-	-	FC, Spec	Thompson	PRS	157	(1936)	331
		2-25 μ	G	Spec, Freq, Assign	Lord	JCP	5	(1937)	642
		-	-	Struct	Thompson	JCS	-	(1937)	1291
		-	-	FC	Thompson	JCS	-	(1937)	1384
		-	-	FC	Thompson	JCS	-	(1937)	1396
		-	-	Thermo	Thompson	TFS	37	(1941)	249
		-	-	FC	Walsh	TFS	43	(1947)	158
		-	-	FC	Linnett	TFS	45	(1949)	844
		120-244	G	Freq	O'Loane	JCP	21	(1953)	669
		275-4600	G	Spec, FC	Long	PRS	223	(1954)	251
		2.2-20 μ	G	Spec, Assign	Rix	JCP	22	(1954)	429
		1575-2264	G	I	Williams	JCP	22	(1954)	345
$C_4N_4O_4Si$	Silicon isocyanate	-	-	Freq, Assign	Widmair	ZAUA	300	(1959)	194

$C_4N_4S_4Si$	Silicon tetraiso-thiocyanate	-	-	Spec, Struct	Goubeau	ZAUA	294 (1958)	96
HD	Hydrogen-d_1	-	G	Spec	Herzberg	N	166 (1950)	563
HDClN	Monochloramine-d_1	-	G	Mol. Const.	Moore	JACS	74 (1952)	6076
HDO	Water-d_1	-	-	Quant. Mech.	Vanvleck	JCP	1 (1933)	357
		1-7 μ	L	Spec	Casselman	PR	45 (1934)	221
		1-10 μ	-	Assign	Ellis	JCP	2 (1934)	559
		-	-	Spec	Rank	JCP	2 (1934)	464
		-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
		1375-1475	-	Spec, Assign	Barker	JCP	3 (1935)	660
		2.6-3.8 μ	Sol	Spec	Borst	JCP	6 (1938)	61
		23-135 μ	G	D-O Study	Fuson	PR	56 (1939)	982
		3 μ	Sol	Spec, H bond	Errera	JCP	8 (1940)	63
		-	-	Quant. Mech. Shaffer	Shaffer	JCP	12 (1944)	504
		-	-	Quant. Mech.	Glockler	JCP	13 (1945)	388
		1	G	Microwave	Townes	PR	70 (1946)	558
		-	-	Anal	Halverson	RMP	19 (1947)	87
		-	-	Microwave	King	PR	71 (1947)	433
		1-2.5 μ	-	Spec, Microwave	Strandberg	PR	73 (1948)	188
		3.67 μ	G	Absorption	Gebbie	PR	76 (1949)	1534
		-	-	Microwave	Strandberg	JCP	17 (1949)	901
		3.7 μ	G	Spec	Chapman	PR	78 (1950)	71
		6 μ	G	Spec	Chapman	PR	78 (1950)	333
		1-14 μ	G	Atmospheric transmission	Gebbie	PRS	206 (1951)	87
		1.5-4.2 μ	G	Spec, Anal	Benedict	JCP	21 (1953)	1302
		-	-	Microwave	Jen	JCP	21 (1953)	520
		-	-	Microwave	Posener	JCP	21 (1953)	1401
		-	-	Thermo	Friedman	PR	94 (1954)	1423
		-	-	Freq	Jones	JCP	22 (1954)	217
		-	-	Centrifugal distortion theory	Posener	PR	95 (1954)	374
		0-35 μ	G	Spec, Microwave	Rogers	PR	95 (1954)	622
		475-3500	G	Microwave	Walsbaum	JCP	23 (1955)	1601
		1.25-4.1 μ	G	Spec, Mol. Const.	Benedict	JCP	24 (1956)	1139
		3.98 μ	Sol	Anal	Spell	AC	29 (1957)	166
		1300-7500	-	Spec, H bond	Waldron	JCP	26 (1957)	809

		-	-	Struct	Gailar	DA	19 (1958)	839
		3350-3800	Sol	Band shift	Saumagne	BSCF	- (1958)	813
		1190-1720	G	Anal, Freq	Gailar	JMS	4 (1960)	1
		1000-7000	L	Freq	Haas	JCP	32 (1960)	1763
HDO_2	Hydrogen peroxide-d_1	-	G	Microwave	Massey	PR	95 (1954)	622
HDS	Hydrogen sulfide-d_1	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
		1-15 μ	G	Freq, Assign	Bailey	JCP	4 (1936)	625
		1.5-12 μ	G	Spec, Freq, Assign	Nielsen	JCP	5 (1937)	277
		-	-	Quant. Mech.	Glockler	JCP	13 (1945)	388
		-	-	Anal	Halverson	RMP	19 (1947)	87
		-	-	Microwave	King	PR	71 (1947)	433
		-	-	Spec		JA	4 (1954)	611
		6.140 μ	G	Anal, Spec	Crosby	JCP	23 (1955)	1660
		-	-	Thermo	Haar	PR	99 (1955)	638
HDS^{32}	Hydrogen sulfide-d_1 (isotopic)	-	-	Microwave	Hillger	PR	83 (1951)	575
HDS^{33}	Hydrogen sulfide-d_1 (isotopic)	-	-	Microwave	Hillger	PR	83 (1951)	575
HDS^{34}	Hydrogen sulfide-d_1 (isotopic)	-	-	Microwave	Hillger	PR	83 (1951)	575
HDSe	Hydrogen selenide-d_1	1610-2385	-	Struct	Sears	PR	53 (1938)	330
		4-12 μ	G	Spec, Freq, Assign	Cameron	JCP	7 (1939)	994
		-	-	Anal	Halverson	RMP	19 (1947)	87
		8000-43000	-	Struct	Veselago	IANS	22 (1958)	1150
HD_2N	Ammonia-d_2	-	-	Freq	Howard	JCP	3 (1935)	207
		800-1000	G	Spec	Migoette	PR	50 (1936)	418
		-	-	Quant. Mech.	Wall	JCP	5 (1937)	314
		-	-	Anal	Halverson	RMP	19 (1947)	87
		-	-	Ident	Burgess	PR	76 (1949)	1267
		733-982	G	Ident	Bigeleisen	JCP	20 (1952)	718
		800-3500	S	Spec, Assign, NCA	Reding	JCP	23 (1955)	1053
		30-200	-	Spec, Mol. Const.	Palik	JCP	26 (1957)	1093
		-	-	Thermo	Thyagarajan	JMS	5 (1960)	307

HD_2P	Phosphine-d_2	-	G	Freq	Weston	JCP	20 (1952)	1820
		-	G	Microwave	Sirvetz	JCP	21 (1953)	898
		50-100	G	Freq	Strong	JCP	21 (1953)	2092
		-	-	Thermo	Thyagarajan	JMS	5 (1960)	307
HD_2As	Arsine-d_2	-	-	Thermo	Thyagarajan	JMS	5 (1960)	307
HD_3FN	Ammonium fluoride-d_3	800-3600	S	Freq, Spec	Plumb	JCP	23 (1955)	447
HD_3Ge	Germane-d_3	2112	G	Spec, Freq, Anal	Lindeman	JCP	22 (1954)	1723
HD_3Si	Silane-d_3	4250-4400	G	Spec, Anal	Boyd	JCP	23 (1955)	922
		2-16μ	G	Spec, Assign, FC, Anal	Meal	JCP	24 (1956)	385
		-	-	Mol. Const.	Meal	JCP	24 (1956)	1126
HD_3Si^{29}	Silane-d_3 (isotopic)	4300	G	Rotation lines	Boyd	JCP	23 (1955)	922
HD_3Si^{30}	Silane-d_3 (isotopic)	4300	G	Rotation lines	Boyd	JCP	23 (1955)	922
HD_5B_2	Diborane-d_5	2-15μ	G	Spec, Freq, Assign	Lehmann	JCP	29 (1958)	1248
HT	Tritium hydride	-	-	Thermo	Jones	JCP	16 (1948)	1077
HTO	Water-t_1	-	-	Quant. Mech.	Libby	JCP	11 (1943)	101
		-	-	Thermo	Friedman	PR	94 (1954)	1423
		700-7000	G	Freq, Assign	Staats	JCP	24 (1956)	916
HTS	Hydrogen sulfide-t_1	-	-	Thermo	Haar	PR	99 (1955)	638
HT_2N	Ammonia-t_2	-	-	Thermo	Thyagarajan	JMS	5 (1960)	307
HT_2P	Phosphine-t_2	-	-	Thermo	Thyagarajan	JMS	5 (1960)	307
HT_2As	Arsine-t_2	-	-	Thermo	Thyagarajan	JMS	5 (1960)	307
HBr	Hydrogen bromide	-	-	Theory of harmonics	Kemble	PR	15 (1920)	95
		3.9μ	G	Struct	Randall	PR	15 (1920)	152

-	G	Ionization potential	Kemble	PR	19 (1922)	394
-	-	Thermo	Urey	JACS	45 (1923)	1445
-	-	Freq	Rideal	TFS	25 (1929)	921
-	-	Freq, Spec	Snow	TFS	25 (1929)	930
-	L,G	Freq	Breit	PR	36 (1930)	871
-	G	I	Shearin	PR	35 (1930)	973
4850	L	Freq	Salant	PR	37 (1931)	108
-	-	Freq	Salant	PR	37 (1931)	373
-	-	Thermo	Gordon	JCP	1 (1933)	692
2-4 μ	G	Mol. Const.	Plyler	PR	44 (1933)	984
-	-	Electronic moment	Mulliken	JCP	2 (1934)	712
-	-	Spec	Plyler	JCP	2 (1934)	306
-	-	I	Kemble	JCP	3 (1935)	316
1.5-2.8 μ	-	Assign	Barr	JCP	4 (1936)	92
2300-3100	-	Solvent effect	Leberknight	PR	51 (1937)	430
5.4-5.75 μ	-	Strong, & weak acid study	Plyler	PR	51 (1937)	685
-	-	Solvent effect	Williams	PR	51 (1937)	288
-	-	Quant. Mech.	Sutherland	JCP	8 (1940)	161
-	-	FC	Sutherland	JCP	8 (1940)	161
-	-	Thermo	Hulburt	JCP	9 (1941)	61
-	Sol	FC	Warhurst	TFS	40 (1944)	26
-	-	FC	Gordy	JCP	14 (1946)	305
-	-	Quant. Mech.	Davies	JCP	17 (1949)	374
-	-	Bond study	Warhurst	TFS	45 (1949)	461
-	-	FC	Heath	TFS	46 (1950)	137
-	-	Emission	Penner	JAP	21 (1950)	685
-	-	FC	Platt	JCP	18 (1950)	927
-	-	FC	Sheline	JCP	18 (1950)	927
-	G	I	Penner	AC	23 (1951)	1048
2600	G	Spec	Bullock	JCP	20 (1952)	1808
-	-	FC	Moller	JCP	20 (1952)	203
2410-2675	G	Calibration of prism	Downie	JOSA	43 (1953)	941
40-140 μ	G	Spec	Hansler	JCP	21 (1953)	1340
-	-	Bond study	Huggins	JACS	75 (1953)	4426
-	G	I	Penner	JCP	21 (1953)	649
2559	G	Line width	Weber	JCP	21 (1953)	1503
-	-	I	Aroeste	JCP	22 (1954)	1273
1.28 μ	G	Microwave	Birnbaum	PR	95 (1954)	622
-	-	Thermo	Pennington	JCP	22 (1954)	1442
300-4000	S	Spec, Assign, Struct, FC	Hornig	JCP	23 (1955)	662

		-	-	Potential function	Lippincott	JCP	23 (1955)	1131
		2-15 μ	G	Spec	Pierson	AC	28 (1956)	1218
		-	-	FC	Baughan	TFS	53 (1957)	1046
		-	-	Spec	Coulon	CPR	245 (1957)	2247
		1900-2800	S	Spec	Horning	JCP	27 (1957)	752
		2-25 μ	S	Iso., Spec, Struct	Falk	CJC	35 (1957)	1195
		-	Sol	Struct	Lascombe	BSCF	- (1959)	1175
		-	G,L,S	Perterbation of fundamental of HBr	Vu	CPR	249 (1959)	2758
		-	Sol	Solvent effect	Grange	SA	16 (1960)	981
		-	-	Spec, Mol. Const.	Plyler	JRNB	64 (1960)	377
$H^{79}Br$	Hydrogen bromide (isotopic)	-	G	Spec, Mol. Const.	Mould	SA	16 (1960)	479
$H^{81}Br$	Hydrogen bromide (isotopic)	-	G	Spec, Mol. Const.	Mould	SA	16 (1960)	479
HBr_3Si	Tribromosilane	-	-	Anal	Halverson	RMP	19 (1947)	87
		-	-	Freq, FC	Murata	JCP	23 (1955)	2451
HCl	Hydrogen chloride	1-2.2 μ	Sol	Spec	Callow	JCS	109 (1916)	55
		-	-	Rotation	Kemble	PR	8 (1916)	689
		-	-	Theory of harmonics	Kemble	PR	8 (1916)	701
		-	-	Theory of harmonics	Kemble	PR	15 (1920)	95
		3.4 μ	G	Struct	Randall	PR	15 (1920)	152
		1.76-3.46 μ	G	Struct	Randall	PR	15 (1920)	541
		3-5 μ	G	I	Bourgin	PR	29 (1921)	794
		-	G	Ionization potential	Kemble	PR	19 (1922)	394
		3.5 μ	-	I	Kemble	PR	21 (1923)	713
		3.2-3.85 μ	G	Struct	Randall	JOSA	7 (1923)	45
		3.3-3.7 μ	G	Absorption	Spence	JOSA	7 (1923)	169
		-	-	Thermo	Tolman	JACS	45 (1923)	2277
		-	-	Thermo	Urey	JACS	45 (1923)	1445
		3.46 μ	G	Struct	Lowny	JOSA	8 (1924)	647
		-	-	Duration in upper state	Tolman	PR	23 (1924)	693
		3.46 μ	-	I	Kemble	PR	25 (1925)	1
		-	G	Thermo	Hicks	JACS	48 (1926)	1520
		-	-	Dielectric const.	Vanvleck	PR	30 (1927)	31
		-	-	Band study, I	Bourgin	PR	32 (1928)	234
		-	-	I	Dennison	PR	31 (1928)	503

-	-	Thermo	Hutchisson	JACS	50	(1928)	1859
3.46 μ	G	Spec	Barker	TFS	25	(1929)	912
2.5-1.8 μ	G	I	Colby	PR	34	(1929)	53
1.76 μ	G	I	Dunham	PR	34	(1929)	438
-	-	Quantum theory	Ellis	PR	33	(1929)	625
-	-	Spec	Langer	PR	33	(1929)	1097
1.8-3.5 μ	G	I	Meyer	PR	34	(1929)	44
-	-	Freq	Rideal	TFS	25	(1929)	921
-	L	Spec	Salant	PR	33	(1929)	1096
-	-	Freq, Spec	Snow	TFS	25	(1929)	921
-	G	Spec	Wood	PR	33	(1929)	1097
-	L,G	Freq	Breit	PR	36	(1930)	871
-	-	I	Dunham	PR	35	(1930)	1347
-	G	I	Shearin	PR	35	(1930)	973
-	G	Spec	Wood	PR	35	(1930)	1355
5543	L	Freq	Salant	PR	37	(1931)	708
-	-	Spec	Salant	PR	37	(1931)	373
1.71-1.75 μ	G	Isotope effect	Hardy	PR	41	(1932)	471
3.5-4.8 μ	G	Spec	Hardy	PR	42	(1932)	279
20.7-152 μ	G	Spec	Strong	PR	42	(1932)	267
-	-	Thermo	Gordon	JCP	1	(1933)	297
-	-	FC	Badger	JCP	2	(1934)	128
-	-	Electric moments	Mulliken	JCP	2	(1934)	400
-	-	Electric moments	Mulliken	JCP	2	(1934)	712
-	-	Mol. Const.	Pekeris	PR	45	(1934)	98
-	-	Spec	Plyler	JCP	2	(1934)	306
14-30 μ	G	Spec, Anal	Strong	PR	45	(1934)	877
-	-	FC	Badger	PR	48	(1935)	284
-	G	3rd Harmonic	Cleaves	PR	48	(1935)	850
-	-	I	Kemble	JCP	3	(1935)	316
1-10 μ	G	Dispersion	Rollefson	PR	48	(1935)	779
3.7 μ	S	Spec	Shearin	PR	48	(1935)	299
1.5-7.8 μ	-	Assign	Barr	JCP	4	(1936)	92
-	-	Quant. Mech.	Bell	TFS	32	(1936)	1013
-	G	Pressure broadening	Herzberg	PR	50	(1936)	1186
2-4.2 μ	-	Transmission curve	Williams	PR	50	(1936)	719
1.76 μ	Sol	Solvent effect	Plyler	PR	49	(1936)	215
-	-	Solvent effect	West	JCP	5	(1936)	14
3-4 μ	-	Solvent effect	West	PR	49	(1936)	405
50-150 μ	Sol	Band study	Cartwright	JCP	5	(1937)	776
2.6-5.8 μ	Sol	Spec	Gordy	PR	52	(1937)	1075

2300-3100	-	Solvent effect	Leberknight	PR	51	(1937)	430
5.4-5.75 μ	-	Strong & weak acid study	Plyler	PR	51	(1937)	685
2000-3700	Sol	Spec, H bond	Buswell	JACS	60	(1938)	2528
-	-	H bond	Freymann	JCP	6	(1938)	497
3.5 μ	G	Spec	Randall	RMP	10	(1938)	72
1.7-3.5 μ	G	Freq	Shearin	JOSA	28	(1938)	61
2.6-5.4 μ	G,Sol	Solvent effect	Gordy	JCP	7	(1939)	99
3.5 μ	G	Spec	Randall	JAP	10	(1939)	768
-	-	H bond	Rodebush	JPC	43	(1939)	219
5300-5000	-	Spec	West	JCP	7	(1939)	795
2500-3500	Sol	Spec, H bond	Buswell	JCP	8	(1940)	362
2600-2800	S	Spec	Lee	PRS	176	(1940)	493
-	-	Entropy	Linnett	TFS	36	(1940)	527
-	-	Quant. Mech.	Mulliken	JCP	8	(1940)	382
-	-	FC	Sutherland	JCP	8	(1940)	161
-	-	H bond	Sutherland	TFS	36	(1940)	889
-	-	Solvent effect	Gordy	JCP	9	(1941)	215
-	-	Thermo	Hulburt	JCP	9	(1941)	61
3 μ	Sol	Band study	Obrien	JACS	63	(1941)	2709
2.7 μ	G	Spec	Smith	RSI	13	(1942)	54
-	Sol	FC	Warhurst	TFS	40	(1944)	26
3-4 μ	G	Dispersion	Wright	RSI	15	(1944)	22
3.46 μ	G	Spec	Barnes	JAP	16	(1945)	77
-	G	Pressure broadening	Foley	PR	69	(1946)	616
-	-	FC	Gordy	JCP	14	(1946)	305
2.7 μ	G	Spec	Bell	RSI	18	(1947)	48
-	-	Spec	Coggeshall	JCP	15	(1947)	65
3.5 μ	G	Struct	Coggeshall	JCP	15	(1947)	65
-	-	FC	Nielsen	JOSA	37	(1947)	296
-	Sol	Band study	Parnell	PR	74	(1948)	123
-	G	Pressure broadening	Anderson	PR	76	(1949)	647
-	-	Quant. Mech.	Davies	JCP	17	(1949)	374
-	-	Bond lengths	Warhurst	TFS	45	(1949)	461
-	-	FC	Warhurst	TFS	45	(1949)	476
-	-	FC	Heath	TFS	46	(1950)	137
100-600 μ	G	Spec	McCurbin	JOSA	40	(1950)	537
-	G	Emission	Penner	JAP	21	(1950)	685
-	-	FC	Platt	JCP	18	(1950)	927
-	-	FC	Sheline	JCP	18	(1950)	932
100-700 μ	-	Spec	McCurbin	JOSA	41	(1951)	289

-	G	I	Penner	AC	23 (1951)	1048
3.5 μ	G	I	Ham	JOSA	42 (1952)	496
2.700 μ	S	Isotopic dilution	Hiebert	JCP	20 (1952)	918
100-700 μ	G	Spec	McCubbin	JCP	20 (1952)	668
-	-	Chemical binding	Mecke	JCP	20 (1952)	1935
-	-	FC	Moller	JCP	20 (1952)	203
300-5900	G	Spec	Newman	JCP	20 (1952)	749
-	-	Emissivity	Penner	JAP	23 (1952)	825
3.5 μ	G	Instrument performance	Walsh	JOSA	42 (1952)	96
3.46 μ	G	Pressure broadening	Benesch	PR	91 (1953)	308
2725-3060	G	Calibration of prism	Downie	JOSA	43 (1953)	941
40-140 μ	G	Spec	Hansler	JCP	21 (1953)	1340
-	G	Line width	Huggins	JACS	75 (1953)	4126
-	G	I	Penner	JCP	21 (1953)	649
2886	G	Line width	Weber	JCP	21 (1953)	1503
-	-	I	Aroeste	JCP	22 (1954)	1273
-	-	Line shape	Benedict	PR	94 (1954)	752
1.28 μ	G	Microwave	Birnbaum	PR	95 (1954)	622
3.4 μ	G	Spec	Gaunt	JSI	31 (1954)	315
-	Sol	Freq	Herbrandson	JACS	76 (1954)	4046
-	G	I	Herman	PR	94 (1954)	752
-	Sol	Freq	Johannessen	JRNB	53 (1954)	197
5668	Sol	Freq	Josien	JCP	22 (1954)	1169
-	Sol	Association	Josien	CPR	238 (1954)	2525
-	-	FC	Mitra	JCP	22 (1954)	564
-	G	Ident	Moore	JACS	76 (1954)	5253
-	G	Band study	Randall	JAP	10 (1954)	768
-	G	Emission	Smith	PR	93 (1954)	361
-	-	Collision deactivation theory	deWette	JCP	22 (1954)	1620
-	-	Line shape	Benedict	PR	98 (1955)	1551
-	G	I	Herman	JCP	23 (1955)	637
300-4000	S	Spec, Assign, Spec, Struct	Hornig	JCP	23 (1955)	662
-	-	Potential function	Lippincott	JCP	23 (1955)	1131
186-267	G	Calibration of prism	Mills	JOSA	45 (1955)	785
1-5.5 μ	G	Emission, Spec	Wilkinson	AC	27 (1955)	162
2-15 μ	G	Spec	Pierson	AC	28 (1956)	1218
-	G	Freq, Spec, Mol. Const.	Yarmus	PR	104 (1956)	365
-	-	FC	Baughan	TFS	53 (1957)	1046
2-25 μ	Sol	Spec	Falk	CJC	35 (1957)	1195

		1900-2800	-	Spec	Hornig	JCP	27 (1957)	752
		-	-	Pressure effection line width	Cameo-BOSCO	JPR	19 (1958)	688
		1.76 μ	G	Spec	Kimel	JCP	31 (1959)	81
		-	Sol	Struct	Lascombe	BSCF	- (1959)	1175
		-	-	Freq	Schuller	CPR	248 (1959)	2194
		-	Sol	Band shift-study	Vu	CPR	248 (1959)	2469
		5660	G	I	Atwood	CPR	250 (1960)	3816
		-	Sol	Absorption	Grange	SA	16 (1960)	981
		-	-	I	Herman	JCP	32 (1960)	1393
		1800-2800	G	Spec, Mol. Const.	Mould	SA	16 (1960)	479
		-	-	Freq	Oksengorn	CPR	250 (1960)	1016
		-	G	Mol. Const.	Plyler	ZE	64 (1960)	717
		-	Sol	Solvent effect, Freq	Schuller	SA	16 (1960)	789
HCl^{35}	Hydrogen chloride (isotopic)	1.8-3.5 μ	G	I	Meyer	PR	34 (1929)	44
		1.71-1.75 μ	G	Isotope effect	Hardy	PR	41 (1932)	471
		3.45 μ	G	Spec, Anal	Mills	PRS	218 (1953)	29
		-	G	I	Herman	PR	98 (1955)	1550
		1000-3400	G	Spec, Mol. Const.	Stull	JOSA	50 (1960)	1279
HCl^{37}	Hydrogen chloride (isotopic)	1.8-3.5 μ	G	I	Meyer	PR	34 (1929)	44
		1.71-1.75 μ	G	Isotope effect	Hardy	PR	41 (1932)	471
		3.45 μ	G	Spec, Anal	Mills	PRS	218 (1953)	29
		-	G	I	Herman	PR	98 (1955)	1550
		1000-3400	G	Spec, Mol. Const.	Stull	JOSA	50 (1960)	1279
HCl^{+}	Hydrogen chloride ion	-	-	Doubling theory	Mulliken	PR	28 (1931)	85
		-	-	FC	Wu	PR	71 (1947)	118
$HClF_4$	Chlorine trifluoride hydrofluoride	2.4-2.6 μ	G	Mol. Complexes	Burke	JMS	3 (1959)	381
HClO	Hydrogen hypochlorite	1-15 μ	G	Spec, Assign	Hedberg	JCP	19 (1951)	508
$HClO_4$	Perchloric acid	-	-	H_3O ion study	Bethell	JCP	21 (1953)	1421
		2-25 μ	Sol	Iso, Spec, Struct	Falk	CJC	35 (1957)	1195
		600-4000	S	Group study	Braunholtz	JCS	- (1959)	868
HCl_2N	Dichloramine	1.4-25 μ	G	Mol. Const., Assign	Moore	JACS	74 (1952)	6076
		-	-	Band study	Huggins	JACS	75 (1953)	4126
HCl_2B	Dichloroborane	1-15 μ	G	Anal	Nadeau	AC	32 (1960)	1480

HCl_3Si	Trichlorosilane	-	-	Anal	Halverson	RMP	19 (1947)	87
		-	G	Band freq	Richards	JCS	- (1949)	124
		650-5000	G,L	Spec, Assign	Gibian	JACS	73 (1951)	1431
		450-700	G	Spec, Freq, Assign	Hawkins	JCP	21 (1953)	1122
		-	-	Freq	West	JACS	75 (1953)	1002
		2050-2250	Sol	Freq, Struct	Smith	SA	15 (1959)	412
$HCl_3^{35}Si^{28}$	Trichlorosilane (isotopic)	-	-	Microwave	Mockler	JCP	21 (1953)	1710
$HCl_3^{37}Si^{28}$	Trichlorosilane (isotopic)	-	-	Microwave	Mockler	JCP	21 (1953)	1710
HF	Hydrogen fluoride (monomer)	2.5 μ	G	Struct	Randall	PR	15 (1920)	152
		-	-	Thermo	Urey	JACS	45 (1923)	1445
		-	-	Freq	Mecke	TFS	25 (1929)	936
		-	-	Freq	Rideal	TFS	25 (1929)	921
		-	-	Freq, Spec	Snow	TFS	25 (1929)	930
		-	-	Thermo	Villars	JACS	51 (1929)	2374
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	G	Freq	Kirkpatrick	PR	48 (1935)	945
		-	-	Bond energy	Davies	JCP	15 (1947)	739
		-	-	FC	Wu	PR	71 (1947)	118
		-	-	Association	Evans	JCP	16 (1948)	324
		-	-	Bond length	Warhurst	TFS	45 (1949)	461
		-	-	FC	Warhurst	TFS	45 (1949)	476
		-	-	Thermo	Westrum	JACS	71 (1949)	1940
		-	-	FC	Heath	TFS	46 (1950)	137
		-	G	Emission	Penner	JAP	21 (1950)	685
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
		7700	G	Mol. Const.	Talley	PR	77 (1950)	521
		0.86-2.7 μ	G	Spec	Moller	JCP	20 (1952)	203
		-	-	FC	Moller	JCP	20 (1952)	203
		2.5 μ	G	Complex study	Pemsler	JCP	22 (1954)	1834
		500-4000	Sol	H bond	Adams	JMS	1 (1957)	306
		-	-	FC	Baughan	TFS	53 (1957)	1046
		-	Sol	I, Freq	Wenograd	JACS	79 (1957)	5844

		300–5000	Sol	Spec, I	Giguere	CJC	36 (1958)	1013
		3000–4000	Sol	Polymerization	Josien	CPR	246 (1958)	3339
		–	G	Spec, I	Kuipers	JMS	2 (1958)	75
		–	–	Band study	Smith	SA	12 (1958)	224
		–	Sol	Solvent effect	Grange	SA	16 (1960)	981
		–	–	Freq	Oksengorn	CPR	250 (1960)	1016
HF	Hydrogen fluoride (dimer)	3810–4000	G	Spec	Smith	JMS	3 (1959)	473
		3845–4000	G	Spec	Hergert	JOSA	50 (1960)	1264
HF	Hydrogen fluoride (polymer)	–	–	Duration in upper state	Tolman	PR	33 (1924)	693
		–	–	Spec	Plyler	JCP	2 (1934)	306
		–	–	H bond	Buswell	JCP	7 (1939)	856
		–	–	Thermo	Murphy	JCP	7 (1939)	806
		–	–	H bond, Spec	Buswell	JCP	8 (1940)	362
		–	–	Quant. Mech.	Mulliken	JCP	8 (1940)	382
		–	–	FC	Sutherland	JCP	8 (1940)	161
		–	G	H bond	Sutherland	JCP	36 (1940)	889
		–	–	Window material to resist HF	Vodar	JCP	8 (1940)	161
		–	L,Sol	Freq	Wahrhaffig	JCP	8 (1940)	349
		–	–	Thermo	Hulburt	JCP	9 (1941)	61
		–	–	FC	Glockler	JCP	10 (1942)	606
		–	–	FC	Gordy	JCP	14 (1946)	305
		–	–	Association	Evans	JCP	16 (1948)	324
		–	–	Quant. Mech.	Davies	JCP	17 (1949)	374
		–	–	H bond, Thermo	Westnem	JACS	71 (1949)	1940
		3000–4250	G	Spec	Shelton	JCS	19 (1951)	1312
		–	–	Bond study	Huggins	JACS	75 (1953)	4126
		–	Sol	Spec	Jones	JCP	22 (1954)	781
		–	–	FC	Mitra	JCP	22 (1954)	564
		2.5 μ	G	Complex study	Pemsler	JCP	22 (1954)	1834
		–	G	Spec	Kuipers	PR	99 (1955)	1624
		400–10000	L,Sol	Spec	Maybury	JCP	23 (1955)	1277
		–	G	Vibration relation time	Penny	JCP	23 (1955)	1281
		16–23 μ	G	Spec	Smith	PR	99 (1955)	1624
HF_3Si	Trifluorosilane	–	G	Microwave	Heath	TFS	50 (1954)	779
		200–2400	G	Spec, Assign	Newman	SA	15 (1959)	793

HF_3Si^{28}	Trifluorosilane (isotopic)	-	G	Microwave	Sheridan	PR	77 (1950)	719
		1-4 μ	-	Mol. Const.	Burrus	JCP	26 (1957)	391
HF_3Si^{29}	Trifluorosilane (isotopic)	-	G	Microwave	Sheridan	PR	77 (1950)	719
HF_3Si^{30}	Trifluorosilane (isotopic)	-	G	Microwave	Sheridan	PR	77 (1950)	719
HI	Hydrogen iodide	-	-	Thermo	Urey	JACS	45 (1923)	1445
		-	-	Freq	Rideal	TFS	25 (1929)	921
		-	-	Freq	Snow	TFS	25 (1929)	930
		-	-	Thermo	Villars	JACS	52 (1930)	1733
		-	-	Freq	Salant	PR	37 (1931)	373
		4262-6262	L	Freq	Salant	PR	37 (1931)	108
		-	-	Electric moment	Mulliken	JCP	2 (1934)	400
		-	-	Electric moment	Mulliken	JCP	2 (1934)	712
		-	-	I	Kemble	JCP	3 (1935)	316
		2.5-4.5 μ	G	Spec, Mol. Const.	Nielsen	PR	47 (1935)	585
		2260-4416	G	Freq	Kirkpatrick	PR	49 (1936)	104
		-	-	Thermo	Murphy	JCP	4 (1936)	344
		-	G	Solvent	Williams	PR	51 (1937)	288
		-	-	I	Mulliken	JCP	7 (1939)	20
		-	-	Quant. Mech.	Mulliken	JCP	8 (1940)	382
		-	-	FC	Sutherland	JCP	8 (1940)	161
		-	-	Thermo	Hulburt	JCP	9 (1941)	61
		-	Sol	FC	Warhurst	TFS	40 (1944)	26
		260-1020	G	Calibration check	Cooley	PR	67 (1945)	296
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Quant. Mech.	Davies	JCP	17 (1949)	374
		-	-	Bond study	Warhurst	TFS	45 (1949)	461
		-	-	FC	Heath	TFS	46 (1950)	137
		-	G	Emission	Penner	JAP	21 (1950)	685
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
		4 μ	-	FC	Boyd	SA	5 (1952)	308
		-	-	FC	Moller	JCP	20 (1952)	203
		-	-	Bond study	Huggins	JACS	75 (1953)	4126
		-	G	Ident	Green	JACS	76 (1954)	2127
		300-4000	S	Spec, Assign, Struct, FC	Hornig	JCP	23 (1955)	662

		-	-	Potential function	Lippincott	JCP	23	(1955)	1131
		45-170	G	Freq	Palik	JCP	23	(1955)	217
		-	-	FC	Baughan	TFS	53	(1957)	1046
		2-25 μ	Sol	Spec, Freq	Falk	CJC	35	(1957)	1195
		-	Sol	Struct	Lascombe	BSCF	-	(1959)	1175
		-	Sol	Solvent effect	Grange	SA	16	(1960)	981
HIO_3	Iodic acid	-	S	Spec, Struct	Dasent	JCS	-	(1960)	2429
HN	Nitrogen hydride	-	-	Freq	Mecke	TFS	25	(1929)	936
		-	-	FC	Platt	JCP	18	(1950)	932
		-	-	FC	Sheline	JCP	18	(1950)	927
		-	-	FC	Mitra	JCP	22	(1954)	564
HNO	Nitroxyl	1000-3800	S	Struct	Brown	JCP	29	(1958)	883
HNO_2	Nitrous acid	6950-7060	G	Spec	Jones	JACS	65	(1943)	2274
		2-23 μ	G	Spec, Iso	Dor	JCP	19	(1951)	1064
		2-25 μ	G	Spec, Struct, Thermo	Jones	JCP	19	(1951)	1599
		-	G,Sol	Freq	O'Sullivan	JCS	-	(1957)	4144
HNO_3	Nitric acid	0.78-2.4 μ	L	Dissociation	Kinsey	PR	35	(1930)	284
		-	L	Dilution effect	Kinsey	PR	36	(1930)	603
		-	Sol	Spec	Plyler	JCP	2	(1934)	306
		-	G	Spec	Badger	JCP	4	(1936)	711
		-	-	Anal	Baver	JCP	5	(1937)	852
		6-15 μ	G	Spec, Struct, Assign	Williams	JACS	61	(1939)	2987
		6850-7000	G	Spec	Jones	JACS	65	(1943)	2274
		-	G	Assign	Redlich	JACS	69	(1947)	2240
		-	-	Assign, Struct	Ingold	JCS	-	(1950)	2612
		400-3500	G	Spec, Assign, Thermo	Cohn	JCS	-	(1952)	4272
		550-4000	S	H_3O ion study	Bethell	JCP	21	(1953)	142
		1.4 μ	G	Decomposition rate	Ellis	JACS	3	(1953)	318
		-	G	Spec	Nightingale	JPC	58	(1954)	1047
		-	-	Assign	Ryason	JCP	22	(1954)	2000
		-	-	Thermo	Palm	JCP	23	(1955)	1562
		-	-	Freq, Assign	Dodd	TFS	52	(1956)	145
		2-15 μ	G	Spec	Pierson	AC	28	(1956)	1218
		2-25 μ	Sol	Spec	Falk	CJC	35	(1957)	1195
		700-4000	-	Spec, Freq	Marcus	JCP	27	(1957)	564
		600-4000	S	Group study	Braunholtz	JCS	-	(1959)	868
		8000-35000	-	Microwave, Assign	Millen	JCS	-	(1960)	1523

$HNO_3.H_2O$	Nitric acid monohydrate	550-4000	S,L	Ion study	Bethell	JCP	21 (1953)	1421
HN_3	Hydrazoic acid	2000-3800	Sol	Spec, H bond	Buswell	JACS	61 (1939)	2809
		2-21 μ	G	Spec, Struct, FC	Davies	TFS	35 (1939)	1184
		-	G	Freq, Assign, Quant. Mech.	Eyster	JCP	8 (1940)	135
		2-20 μ	G	Freq, Assign, Thermo	Eyster	JCP	8 (1940)	369
		2 μ	-	Freq	Lieber	AC	23 (1951)	1594
		-	-	FC, Freq	Thomas	JCS	- (1952)	2383
		-	-	FC	Thomas	TFS	49 (1953)	855
		-	S,Sol	Study of unstable species	Whittle	JCP	22 (1954)	1943
		400-3500	G,S, Sol	Spec, Anal, Assign, Thermo	Dows	JCP	23 (1955)	1258
		2-15 μ	S	Spec	Dows	JCP	23 (1955)	1606
		-	-	Band freq	Sawicki	JACS	77 (1955)	957
		-	-	FC	Gray	TFS	53 (1957)	901
		1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295
$HN^{15}N^{14}N^{14}$	Hydrazoic acid (isotopic)	-	-	Microwave	Amble	JCP	18 (1950)	1422
$HN^{14}N^{15}N^{14}$	Hydrazoic acid (isotopic)	-	-	Microwave	Amble	JCP	18 (1950)	1422
$HN^{14}N^{14}N^{15}$	Hydrazoic acid (isotopic)	-	-	Microwave	Amble	JCP	18 (1950)	1422
HN_3^{14}	Hydrazoic acid (isotopic)	-	-	Microwave	Amble	JCP	18 (1950)	1422
HO	Hydroxy radical	-	-	Freq	Mecke	TFS	25 (1929)	936
		-	-	Doubling theory	Mulliken	PR	38 (1931)	85
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	Thermo	Hulburt	JCP	9 (1941)	61
		-	-	FC	Wu	PR	71 (1947)	118
		0.8-5 μ	G	Acetylene flame	Plyler	JRNB	42 (1949)	567
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
		7450-7900	G	Spec	Hornbeck	JCP	19 (1951)	512

		-	G	Spec	Penner	JCP	20 (1952)	522
		3-3.8 μ	G	Spec	Plyler	JCP	20 (1952)	1178
		1.4-1.7 μ	G	Anal	Benedict	JCP	21 (1953)	398
		0.75-0.95 μ	-	Band study	Dejardin	PR	90 (1953)	359
		-	-	Rotational temp.	Penner	JCP	21 (1953)	31
		1-2.6 μ	G	Freq	Benedict	JRNB	52B (1954)	57
		-	G	Rotational temp.	Elliott	JCP	22 (1954)	101
		-	-	Thermo	Haar	PR	95 (1954)	614
		-	-	FC	Mitra	JCP	22 (1954)	564
		-	G	Emission	Penner	JRNB	52B (1954)	35
		-	-	Microwave	Dousmanis	PR	100 (1955)	1735
		-	G	Spec	Dows	JCP	23 (1955)	499
		-	-	Thermo	Haar	JCP	23 (1955)	869
		-	G	Spec	Jones	PR	99 (1955)	1637
		-	-	Potential function	Lippincott	JCP	23 (1955)	1131
		490-660	G	Spec	Madden	JCP	23 (1955)	408
		10000-16000	G	Freq	Mckinley	JCP	23 (1955)	784
		1.5 μ	-	Spec	Rogge	JCP	33 (1960)	453
HO_2	Hydrogen dioxide radical	1035	S	Evidence for existence	Giguere	JCP	22 (1954)	2085
HB	Boronhydride	-	-	Doubling theory	Mulliken	PR	38 (1931)	85
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
		-	-	FC	Mitra	JCP	22 (1954)	564
HP	Phosphorous monohydride	-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	932
		-	-	FC	Mitra	JCP	22 (1954)	564
HS	Sulfur hydride	-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
		-	-	FC	Mitra	JCP	22 (1954)	564
		-	-	Thermo	Haar	JCP	23 (1955)	869
HAs	Arsenic hydride	-	-	FC	Sheline	JCP	18 (1950)	927
HHe	Helium hydride molecule ion	-	-	Quant. Mech.	Mulliken	JCP	7 (1936)	20
		-	-	I	Beach	JCP	4 (1939)	353
		-	-	Freq, Quant. Mech.	Evett	JCP	23 (1955)	1169

HSe	Selenium hydride	-	-	FC	Sheline	JCP	18 (1950)	927
HSi	Silicon monohydride	-	-	Doubling theory	Mülliken	PR	38 (1931)	85
		-	-	FC	Wu	PR	71 (1947)	118
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
		-	-	FC	Mitra	JCP	22 (1954)	564
		-	G	Mol. Const.	Douglas	CJP	35 (1957)	71
H_2	Hydrogen	-	-	Specific heat theory	Kemble	PR	11 (1918)	156
		-	-	Specific heat	Tolman	PR	22 (1923)	470
		-	-	Thermo	Urey	JACS	45 (1923)	1445
		-	-	Emission	Pfund	JOSA	9 (1924)	193
		-	-	Combustion rate	David	TFS	22 (1926)	273
		10.7 μ	G	Spec	Poetker	PR	30 (1927)	418
		1.00-4.9 μ	G	Spec	Babcock	PR	32 (1928)	327
		-	-	I	McAlister	PR	31 (1928)	917
		-	-	Quant. Mech.	Wang	PR	31 (1928)	579
		1-7 μ	G	Freq	Bailey	TFS	25 (1929)	29
		1-9 μ	G	Freq	Bailey	JCS	- (1929)	51
		8000-9000	G	Spec, I	Morse	PR	34 (1929)	57
		-	-	Electronic levels	Richardson	TFS	25 (1929)	686
		1-4 μ	G	Emission curves	Garner	TFS	26 (1930)	36
		-	-	Thermo	Villars	JACS	52 (1930)	1733
		-	-	Doubling theory	Mulliken	PR	38 (1931)	85
		-	-	Wave mechanics	Rosen	PR	38 (1931)	2099
		-	-	Rotating vibrator theory	Dunham	PR	41 (1932)	721
		8.7 μ	G	Dispersion	Korff	RMP	4 (1932)	471
		-	-	Freq	Rosen	PR	43 (1933)	5
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Thermo	Johnston	JCP	2 (1934)	389
		-	G	Anal	Dieke	PR	47 (1935)	261
		-	-	Quant. Mech.	Mulliken	JCP	3 (1935)	375
		-	G	Pressure broadening	Watson	JPC	41 (1937)	61
		1.175 μ	-	Anal	Richardson	PRS	164 (1938)	316
		-	-	I	Mulliken	JCP	7 (1939)	20
		-	G	Thermo	Pitzer	CR	27 (1940)	39
		-	G	Spec, Anal	Ginsburg	PR	59 (1941)	632
		-	-	Thermo	Hulburt	JCP	9 (1941)	61
		0.6-1 μ	G	Spec	Gaydon	PRS	181 (1942)	197

-	-	FC	Glockler	JCP	10 (1942)	606
-	Sol	FC	Warhurst	TFS	40 (1944)	26
-	-	Quant. Mech.	Coulson	TFS	41 (1945)	141
-	-	FC	Gordy	JCP	14 (1946)	305
-	-	Spec	Coggeshall	JCP	15 (1947)	65
-	-	Interatomic distance	Wu	PR	71 (1947)	111
-	-	Collision excitation	Wu	PR	71 (1947)	118
-	-	Decomposition product	Simard	JCP	16 (1948)	836
-	G	Spec	Herzberg	N	163 (1949)	170
3500-5500	G	Absorption	Welsh	PR	76 (1949)	580
3600-5200	G	Absorption	Crawford	PR	80 (1950)	469
-	G	Absorption	Mizushima	PR	77 (1950)	150
-	G	Anal	D'Neal	AC	22 (1950)	991
-	-	FC	Platt	JCP	18 (1950)	932
-	-	FC	Sheline	JCP	18 (1950)	927
8000-9000	G	Spec, I	Welsh	PR	83 (1951)	1264
3500-5500	G	Absorption	Chisholm	PR	88 (1952)	957
-	G	Absorption	Crawford	PR	91 (1953)	1569
-	-	Bond study	Huggins	JACS	75 (1953)	4126
-	G	Absorption	Chisholm	CJP	15 (1954)	511
3500-5500	G	Absorption	Chisholm	CJP	32 (1954)	291
6505	G	Transmission	Fahrenfort	JCP	22 (1954)	1631
-	-	Potential energy function	Frost	JCP	22 (1954)	1017
-	L,S	Absorption	Allin	PR	98 (1955)	554
3500-5500	L,S,G	Spec	Allin	PR	99 (1955)	1639
4000-5500	L,S	Spec	Hare	PR	99 (1955)	1887
8-15 μ	G	Spec	Ketelaar	JCP	23 (1955)	413
-	-	Potential function	Lippincott	JCP	23 (1955)	603
-	-	Potential function	Lippincott	JCP	23 (1955)	1131
-	-	Vibrations	Penney	JCP	23 (1955)	1281
1-2 μ	G	Emission	Porto	JOSA	45 (1955)	447
-	L,S	Spec	Allin	JCP	24 (1956)	1116
-	-	Potential function	Backel	JCP	24 (1956)	553
-	-	Electric-nuclear motion coupling	Wu	JCP	24 (1956)	48
-	-	FC	Baughan	TFS	53 (1957)	1046
420-1300	G	Spec	Colpa	MP	1 (1957)	14
4000-5000	G	Spec, Struct	Gush	CJP	35 (1957)	712
4130-4760	S	Spec, Freq, Assign	Gush	PR	106 (1957)	1101

H_2^+	Hydrogen molecule ion	-	-	Morse potential	Morse	PR	34 (1929)	57
		-	-	I	Mulliken	JCP	7 (1939)	20
		-	-	FC	Glockler	JCP	10 (1942)	606
		-	-	Quant. Mech.	Coulson	TFS	41 (1945)	141
		-	-	Potential energy function	Frost	JCP	22 (1954)	1017
		-	-	Potential function	Lippincott	JCP	23 (1955)	603
		-	-	Electric-nuclear motion coupling	Wu	JCP	24 (1956)	48
H_2DN	Ammonia-d_1	-	-	Freq	Howard	JCP	3 (1935)	207
		800-1000	G	Spec	Migoette	PR	50 (1936)	418
		-	-	Quant. Mech.	Wall	JCP	5 (1937)	314
		-	-	Anal	Halverson	RMP	19 (1947)	87
		-	-	Group study	Burgess	PR	76 (1949)	1267
		-	-	Criticism	Bigeleisen	JCP	20 (1952)	1495
		733-982	G	Isotope properties	Stedman	JCP	20 (1952)	718
		800-3500	S	Spec, Assign, NCA	Reding	JCP	23 (1955)	1053
		30-2000	-	Spec, Mol. Const.	Palik	JCP	26 (1957)	1093
		10-80 μ	G	Spec	Loewenstein	JOSA	50 (1960)	1163
H_2DO_2P	Deutero hypophosphorous acid	-	L	Freq	Hammond	JACS	77 (1955)	2444
H_2DP	Phosphine-d_1	-	G	Freq	Weston	JCP	20 (1952)	1820
		-	-	Microwave	Sirvetz	JCP	21 (1953)	898
		50-100	G	Freq	Stroup	JCP	21 (1953)	2092
		-	-	Thermo	Thyagarajan	JMS	5 (1960)	307
H_2DAs	Arsine-d_1	-	-	Thermo	Thyagarajan	JMS	5 (1960)	307
H_2DAs^{75}	Arsine-d_1 (isotopic)	-	-	Microwave	Jashe	PR	95 (1954)	299
H_2D_2Si	Silane-d_2	2-16 μ	G	Spec, Assign, FC, Anal	Meal	JCP	24 (1956)	385
$H_2D_4NO_4P$	Ammonium dihydrogen phosphate-d_4	300-3000	S	Freq, Spec	Blinc	MP	1 (1959)	381
$H_2D_4B_2$	Diborane-d_4	2-15 μ	G	Spec	Lehmann	JCP	29 (1958)	1248

H_2TN	Ammonia-t_1	-	-	Thermo	Thyagarajan	JMS	5 (1960)	307
H_2TP	Phosphine-t_1	-	-	Thermo	Thyagarajan	JMS	5 (1960)	307
H_2TAs	Arsine-t_1	-	-	Thermo	Thyagarajan	JMS	5 (1960)	307
H_2Br_2Si	Dibromosilane	-	-	Freq, Assign	Hawkins	JCP	21 (1953)	1122
		2-25 μ	G	Spec, Assign, Thermo	Mayo	JCP	23 (1955)	1344
		-	-	Freq, FC	Murata	JCP	23 (1955)	2451
H_2ClN	Chloroamine	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
		1.4-25 μ	G	Spec, Assign	Moore	JACS	74 (1952)	6076
H_2Cl_2Si	Dichlorosilane	400-5000	G	Spec, Assign, Thermo	Hawkins	JCP	21 (1953)	360
		-	-	Freq, Assign, Thermo	Hawkins	JCP	21 (1953)	1122
		2050	Sol	Freq, Struct	Smith	SA	15 (1959)	412
$H_2Cl_4OSi_2$	1,1,3,3-Tetrachloro-disiloxane	-	G	Spec, Freq	West	JACS	75 (1953)	1002
		2050-2250	Sol	Freq, Struct	Smith	SA	15 (1959)	412
$H_2F_2Si^{28}$	Difluorosilane (isotopic)	12000-38000	G	Spec, Mol. Const.	Laune	JCP	26 (1957)	1359
$H_2F_2Si^{29}$	Difluorosilane (isotopic)	12000-38000	G	Spec, Mol. Const.	Laurie	JCP	26 (1957)	1359
H_2N	Amine free radical	-	-	Struct	Mulliken	JCP	1 (1933)	492
H_2N_2	Diimide	2-15 μ	S	Spec	Dows	JCP	23 (1955)	1606
H_2O	Water	0.77-2.82 μ	L	Transmission curves	Nichols	PR	1 (1893)	1
		9 μ	G	Spec	Rubens	AP	300 (1898)	584
		-	L	Absorption	Rubens	AP	300 (1898)	602
		2-4 μ	L	Spec	Angstrom	PR	3 (1914)	47
		1-6 μ	L	Freq	Coblentz	PR	10 (1917)	96
		0.6-1.35 μ	L	Activity vs concentration	Hulburt	JPC	21 (1917)	150
		1-3 μ	L	Spec	Gromtham	PR	18 (1921)	339

0.4-1.3 μ	L	Polarization	Ingersoll	JOSA	5	(1921)	156
0.7-2.1 μ	L	Temperature effect	Collins	PR	20	(1922)	486
0.75-18 μ	G	Scattering loss	Fowle	JOSA	6	(1922)	99
0.8-2.0 μ	L	Magnetic rotation	Ingersoll	JOSA	6	(1922)	663
6 μ	G	Spec	Sleator	PR	19	(1922)	394
-	L,S,G	Absorption	Brown	PR	21	(1923)	103
0.4-2.7 μ	L	Refractive index	Tear	PR	21	(1923)	611
310 μ	L	Transmission	Weniger	JOSA	7	(1923)	517
-	-	Freq	Ellis	JOSA	8	(1924)	1
0.75-1.4 μ	S	Optical properties	Plyler	JOSA	9	(1924)	545
0.8-2.3 μ	L,G	Spec	Collins	PR	26	(1925)	771
-	G	Bumens flame	Ellis	PR	26	(1925)	283
0.7-1.4 μ	L	Photochemistry	Franklin	JPC	29	(1925)	713
0.3-7 μ	S	Reflectivities	Hulbert	JOSA	17	(1928)	23
0.9727 μ	L	Freq	Lamby	PR	31	(1928)	706
-	G	Freq	Bailey	TFS	25	(1929)	29
5-8 μ	G	Freq	Bailey	TFS	25	(1929)	32
0.4-3 μ	G	Transmission of fog	Granath	PR	33	(1929)	1073
0.4-3 μ	G	Absorption curves for fog	Granath	PR	34	(1929)	140
-	L	Spec	Lecomte	TFS	25	(1929)	864
-	-	Freq	Mecke	TFS	25	(1929)	936
-	-	Mol. Const.	Rideal	TFS	25	(1929)	921
-	-	Water of crystallization	Schaefer	TFS	25	(1929)	841
-	-	Electric moment	Williams	CR	6	(1929)	589
-	-	Freq	Bailey	TFS	26	(1930)	197
-	G	Spec	Bailey	TFS	26	(1930)	203
3-4 μ	G	Absorption	Barnes	PR	36	(1930)	296
1.4-1.9 μ	G	Spec	Brackett	RSI	1	(1930)	181
0.7-1.05 μ	L	Spec	Collins	PR	36	(1930)	305
0.2-2.4 μ	L	Body fluids	Forsythe	JOSA	20	(1930)	693
0.3-2.6 μ	G	Transmission	Anderson	PR	37	(1931)	1012
-	G	Atmospheric temp.	Hulburt	PR	38	(1931)	1876
1.13-1.45 μ	G	Spec, Ident	McAlister	PR	37	(1931)	1012
7-9 μ	G	Band study	Nielsen	PR	37	(1931)	1012
1.87-6.26 μ	G	Spec, Freq	Plyler	PR	37	(1931)	1493
1.4-1.9 μ	G	Band study	Plyler	PR	38	(1931)	1784
6.7 μ	G	Spec	Firestone	RSI	3	(1932)	163
0-8.7 μ	-	Dispersion	Korff	TFS	46	(1932)	137
1.4-1.9 μ	G	Spec, Freq, Assign	Plyler	PR	39	(1932)	77
6.26 μ	G	Band study	Silverman	PR	41	(1932)	486

20.7-152 μ	G	Spec	Strong	PR	42	(1932)	267
-	G	Spec	Villars	CR	11	(1932)	369
10-25 μ	G	Spec	Weber	PR	40	(1932)	835
0.7-2.7 μ	G	Spec	Ellis	RSI	4	(1933)	123
-	-	Thermo	Gordon	JCP	1	(1933)	308
-	-	Struct	Mulliken	JCP	1	(1933)	492
-	-	Quant. Mech.	VanVleck	JCP	1	(1933)	357
60-125 μ	G	Spec	Wright	PR	44	(1933)	391
-	G	FC	Bonner	PR	46	(1934)	458
1-7 μ	L	Spec	Casselman	PR	45	(1934)	221
1-10 μ	-	Assign	Ellis	JCP	2	(1934)	559
-	G	Thermo	Gordon	JCP	2	(1934)	65
0.4-7 μ	G	Absorption	Hulbert	P	5	(1934)	101
-	-	Freq	Mecke	TFS	30	(1934)	200
-	-	Electronic moment	Mulliken	JCP	2	(1934)	400
2.5-6.5 μ	L	Spec	Plyler	JCP	2	(1934)	303
-	-	Spec	Rank	JCP	2	(1934)	464
13-22 μ	G	Spec	Strong	PR	45	(1934)	877
-	-	Quant. Mech.	Wilson	JCP	2	(1934)	432
5-21 μ	G	Absorption	Adel	PR	47	(1935)	580
-	-	Comparison	Barker	JCP	3	(1935)	660
38-170 μ	G	Absorption	Barnes	PR	47	(1935)	918
-	-	Vibrations	Duncan	JCP	3	(1935)	384
1.2-7.5 μ	Sol	Spec	Gordy	JCP	3	(1935)	664
-	-	Anal	Plyler	JCP	3	(1935)	679
1.5-2.8 μ	-	Assign	Barr	JCP	4	(1936)	92
50-200 μ	L	Absorption	Cartwright	PR	49	(1936)	101
15-150 μ	L	Struct	Cartwright	PR	49	(1936)	470
5.2-152 μ	S,Sol, L	Dispersion	Cartwright	PRS	154	(1936)	138
-	-	H bond	Gordy	JCP	4	(1936)	749
2.5-6.5 μ	L	H bond	Gordy	JCP	4	(1936)	769
1-2.5 μ	L	Spec	Kinsey	PR	49	(1936)	105
-	-	FC	Penney	PRS	156	(1936)	654
4-10 μ	L	Freq	Williams	PR	49	(1936)	869
4-5 μ	Sol	Quant. Anal	Williams	JCP	4	(1936)	251
2.7-6.3 μ	L,Sol	Spec	Williams	JCP	4	(1936)	154
-	-	Thermo	Wilson	JCP	4	(1936)	526
9000-11000	L	Spec, H bond	Badger	JCP	5	(1937)	839
-	G	Pressure effect	Collins	PR	51	(1937)	88
1.79 μ	L	Absorption	Cornell	PR	51	(1937)	1074
-	L,S	Struct	Cross	JACS	59	(1937)	1134

-	-	Absorption	Gordy	JCP	5	(1937)	202
0.98–1.7 μ	L	Spec	Kellner	PRS	159	(1937)	410
-	-	Theoretical	King	JCP	5	(1937)	405
-	-	Theoretical	King	JCP	5	(1937)	413
1.25–3 μ	L	Rotation	Kinsey	PR	51	(1937)	1074
18–75 μ	G	Spec	Randall	PR	52	(1937)	160
2–8 μ	L	Spec	Williams	JACS	59	(1937)	1422
2.8–6.2 μ	L,Sol	Spec, Freq	Williams	JPC	41	(1937)	645
-	-	Quant. Mech.	Badger	JCP	6	(1938)	711
2.6–3.8 μ	Sol	Spec	Borst	JCP	6	(1938)	61
1.875–1.399 μ	G,L	Rotation	Ellis	PR	54	(1938)	599
-	-	Spec	Ellis	JCP	6	(1938)	316
-	-	Freq	Ellis	JCP	6	(1938)	723
-	-	Absorption	Elsasser	PR	53	(1938)	768
3250–3600	Sol	Stray light correction	Errera	JFS	34	(1938)	728
2.5–3.5 μ	L,Sol	Spec, H bond	Gordy	JACS	60	(1938)	605
3–5.4 μ	-	Spec	Plyler	JCP	6	(1938)	316
63–98 μ	G	Spec	Randall	RSI	9	(1938)	404
18–80 μ	G	Spec	Randall	RMP	10	(1938)	72
2.6–23.8 μ	L	Freq	Shearin	JOSA	28	(1938)	61
2.6–3.5 μ	L	Spec, Freq	Buswell	JPC	43	(1939)	1181
2–2.65 μ	L	Absorption	Collins	PR	55	(1939)	470
1.5–2 μ	L	Group study	Ellis	PR	55	(1939)	597
-	-	Heat transfer	Elsasser	PR	56	(1939)	855
23–135 μ	G	Study of D_2O	Fuson	PR	56	(1939)	982
4.7 μ	L	Solute effect	Gautier	PR	56	(1939)	616
-	-	Coriolis coupling theory	Jahn	PR	56	(1939)	680
0.5–1.2 μ	L	Optical filters	Pfund	JOSA	29	(1939)	56
-	-	H bond, Freq	Rodebush	JPC	43	(1939)	219
53–106	L	Dispersion	Skolil	PR	55	(1939)	880
-	-	Statistical mechanics	Stephenson	JCP	7	(1939)	614
10410–10480	-	Spec	Zumwalt	JCP	7	(1939)	235
-	-	H bond, Freq	Badger	JCP	8	(1940)	288
-	-	Vibration-Rotation Theory	Darling	PR	57	(1940)	128
-	G	Freq	Dennison	RMP	12	(1940)	175
3 μ	Sol	Spec, H bond	Errera	JCP	8	(1940)	63
2.5–7.5 μ	-	Spec	Fox	PRS	174	(1940)	234
-	G	Thermo	Pitzer	CR	27	(1940)	39
1–12 μ	G	Transmission	Sanderson	JOSA	30	(1940)	405

1-10 μ	G	Transmission	Smith	JOSA	30 (1940)	332
-	G	Spec	Adel	PR	59 (1941)	915
2.8-3.3 μ	Sol	Reflection	Buswell	JPC	45 (1941)	543
0.3-15 μ	L	Dispersion	Centeno	JOSA	31 (1941)	244
3.3-6.26 μ	G	Spec, Anal	Elsasser	PR	59 (1941)	218
6 μ	G	Spec	McAlister	RSI	12 (1941)	314
-	G	Emission	Nielsen	PR	59 (1941)	565
-	-	Quant. Mech.	Redlich	JCP	9 (1941)	278
-	-	Freq	Barker	RMP	14 (1942)	198
0.6-1 μ	G	Spec	Gaydon	PRS	181 (1942)	197
1.4-1.87 μ	G	Absorption	Haworth	PR	62 (1942)	298
3 μ	-	H_2O in crystal	Lyon	PR	61 (1942)	482
1.4-2.7 μ	G	Spec, Anal	Nielsen	PR	62 (1942)	422
5-18 μ	G	Spec	Oetjen	RSI	13 (1942)	515
-	-	Quant. Mech.	Schaffer	JCP	10 (1942)	405
7 μ	G	Spec	Smith	RSI	13 (1942)	54
-	-	FC	Glockler	RMP	15 (1943)	111
-	-	Ratio Rule	Noether	JCP	11 (1943)	97
-	G	Spec	Bobrovnikoff	RMP	16 (1944)	271
-	G	Absorption	Nielsen	RMP	16 (1944)	307
-	-	Quant. Mech.	Schaffer	JCP	12 (1944)	504
1-7 μ	L	Transmission	Williams	PR	66 (1944)	6
6 μ	G	Spec	Barnes	JAP	16 (1945)	77
0.4-1.1 μ	G	Spec	Foster	JOSA	35 (1945)	601
-	-	Quant. Mech.	Glockler	JCP	13 (1945)	388
-	-	FC	Linnett	TFS	41 (1945)	223
5.7-6.7 μ	G	Resolving power	Oetjen	JOSA	35 (1945)	743
6.25 μ	G	Amplifier performance	Roess	RSI	16 (1945)	172
1 μ	G	Microwave	Becker	PR	70 (1946)	300
-	-	FC	Gordy	JCP	14 (1946)	315
-	-	Quant. Mech.	King	JCP	14 (1946)	35
-	-	FC	Simpson	JCP	14 (1946)	294
1 μ	G	Microwave	Townes	PR	70 (1946)	558
16-18.6 μ	G	Line width	Adel	PR	71 (1947)	806
3-5 μ	G	Spec	Bell	RSI	18 (1947)	48
-	Sol	Anal	Benning	IAC	19 (1947)	867
-	-	Refractive index	Brown	PR	72 (1947)	534
-	-	Anal	Halverson	RMP	19 (1947)	87
1.5-24 μ	L	Vibrations	Johnson	PR	72 (1947)	158
-	-	Microwave	King	PR	71 (1947)	433
-	-	Moment of Inertia	King	JCP	15 (1947)	85
2.6-4.2 μ	Sol	Spec	Martin	N	159 (1947)	403

-	-	Microwave	Vanvleck	PR	71	(1947)	425
1.9 μ	G	Spec	Badger	RSI	19	(1948)	861
1.35 μ	G	Anal	Benedict	PR	74	(1948)	1264
-	-	Rotational levels	Ginsburg	PR	74	(1948)	1052
-	-	Spec, Microwave	Golden	PR	73	(1948)	92
-	-	FC	Heath	TFS	44	(1948)	556
6 μ	G	Spec	Hovorka	RSI	19	(1948)	915
1.42-25 μ	G	Absorption	Mohler	PR	74	(1948)	702
-	G	Anal	Nelson	PR	74	(1948)	703
1-24 μ	G	Spec	Plyler	JRNB	40	(1948)	113
1.7-24 μ	G	Spec	Plyler	JRNB	40	(1948)	125
22-40 μ	G	Spec	Plyler	JRNB	40	(1948)	449
-	-	FC	Richards	TFS	44	(1948)	40
-	G	Microwave	Townes	PR	74	(1948)	1113
-	-	Config.	Benedict	PR	75	(1949)	1317
500-4000	L	Spec	Gore	AC	21	(1949)	382
-	-	FC	Linnett	TFS	45	(1949)	844
-	-	Pressure broadening	Matossi	PR	76	(1949)	1845
0.8-5 μ	-	Acetylene flame	Plyler	JRNB	42	(1949)	567
1.25 μ	-	Absorption	Saxton	N	163	(1949)	871
-	-	Quant. Mech.	Torkington	JCP	17	(1949)	357
-	-	Thermo	Westrum	JACS	71	(1949)	1940
1.35-1.85 μ	G	Experimental check of theory	Chapman	PR	77	(1950)	741
-	-	FC	Heath	TFS	46	(1950)	137
-	G	Stratospher radiation equilibria	Plass	PR	78	(1950)	334
6 μ	G	Spec	Wood	RSI	21	(1950)	764
-	G	Anal	Badin	JACS	73	(1951)	1550
1.7-2.2 μ	G	Emission	Bass	AC	23	(1951)	1047
2.43-2.87 μ	G	Spec	Benedict	JRNB	46	(1951)	246
0.7-2.5 μ	L	Spec	Curcio	JOSA	41	(1951)	302
2800-4200	Sol	Spec	Coulson	JCS	-	(1951)	2125
-	-	Bond interaction theory	Duchesne	JCP	19	(1951)	1191
1-14 μ	G	Transmission	Gebbie	PRS	206	(1951)	87
100-700 μ	-	Spec	McCurbin	JOSA	41	(1951)	298
2.7 μ	Sol	Anal	Meeks	AC	23	(1951)	792
35-75 μ	G	Transmission	Musser	PR	82	(1951)	765
50 μ	G	Absorption	Plass	PR	85	(1951)	708
-	G	Freq, Spec	Plyler	JOSA	41	(1951)	867

8-13 μ	G	Spec	Shaw	PR	82 (1951)	559
6 μ	G	Spec	Tetlow	JSI	28 (1951)	161
4.9-6.2 μ	G	Spec	Tilton	JRNB	47 (1951)	25
4.5-13 μ	G	Spec, Assign	Benedict	JRNB	49 (1952)	91
0.9-2 μ	G	H_2O in atmosphere	Calfee	PR	88 (1952)	157
2.7 μ	G	Spec	Goulden	JSI	29 (1952)	215
6 μ	G	Instrument performance	Ham	JOSA	42 (1952)	496
1.87 μ	G	Pressure dependency	Howard	JOSA	42 (1952)	423
0.93-1.13 μ	G	Freq, I	Kiess	JRNB	48 (1952)	377
0.7-2.5 μ	L	Spec	Lauer	APS	6 (1952)	29
15-25 μ	G	Spec, Freq	Marrison	JSI	29 (1952)	233
100-700 μ	G	Spec	McCubbin	JCP	20 (1952)	668
16-120 μ	G	Freq, Spec	McCubbin	JOSA	42 (1952)	113
0.4-22.5 μ	G,L	Freq	McCubbin	JOSA	42 (1952)	876
-	-	Chemical binding	Mecke	JCP	20 (1952)	1935
-	-	FC	Moller	JCP	20 (1952)	203
44-110 μ	G	Spec	Oetjen	JOSA	42 (1952)	559
1-2 μ	G	Spec, Freq	Plyler	JRNB	48 (1952)	221
23.6-37.5 μ	G	Freq, Spec	Plyler	JRNB	49 (1952)	61
6.5-7.5 μ	G	Spec	Roberts	JSI	29 (1952)	134
0.1 μ	G	Spec	Sinton	PR	86 (1952)	424
-	G	Emission	Talbey	JOSA	42 (1952)	982
4.5-25 μ	G	Spec, Transmission	Taylor	JCP	20 (1952)	578
4-25 μ	G	Spec	Taylor	JOSA	42 (1952)	286
2.4-25 μ	G	Spec	Taylor	JCP	20 (1952)	1884
-	-	Struct	Torkington	JPC	56 (1952)	336
2.7-3.3 μ	Sol	H bond	Tsuboi	BCSJ	25 (1952)	160
6 μ	G	Instrument performance	Walsh	JOSA	42 (1952)	96
6.3 μ	G	Spec	Yarnell	JSI	29 (1952)	352
25-52 μ	-	Calibration of prism	Acquista	JOSA	43 (1953)	333
200-440	G	Spec	Acquista	JOSA	43 (1953)	977
-	G	Band study	Adel	JOSA	43 (1953)	1053
0.6 μ	G	Dispersion	Birnbaum	JCP	21 (1953)	57
600-2000	G	Spec	Blout	JOSA	43 (1953)	1093
130-440	G	Spec	Bohn	JCP	21 (1953)	719
2.8 μ	G	Spec	Cole	JOSA	43 (1953)	807
280-5435	G	Calibration data for prism	Downie	JOSA	43 (1953)	941

-	G	Spec	Fraser	JOSA	43 (1953)	929
6 μ	G	Resolution	Fraser	JOSA	43 (1953)	929
-	-	Band study	Huggins	JACS	75 (1953)	4126
1170-8700	G	Spec	Innes	JCP	21 (1953)	545
-	-	Microwave	Jen	JCP	21 (1953)	520
-	-	Band study	Lee	JOSA	43 (1953)	619
1-15 μ	L	Reflection	McAlister	JOSA	43 (1953)	823
2.6-6 μ	G	Spec	Menzies	JSI	30 (1953)	441
38-52 μ	G	Spec	Plyler	JOSA	43 (1953)	212
6 μ	G	Spec	Roberts	JSI	30 (1953)	199
-	S	Struct	Rundle	JCP	21 (1953)	1311
-	Sol	Anal	Smith	AC	25 (1953)	528
-	-	Vibration interaction theory	Torkington	JCP	21 (1953)	83
-	L	Anal	Trenner	APS	7 (1953)	166
800-3600	S	Spec, Struct, Freq	Waldron	JACS	75 (1953)	6079
2.7 μ	G	Spec	Walsh	JOSA	43 (1953)	989
1.7-2.2 μ	G	Spec, Assign, I	Benedict	JRNB	52 (1954)	161
1-2.6 μ	G	Band study, I	Benedict	JRNB	52 (1954)	57
-	-	Anal	Burton	CPR	238 (1954)	477
-	-	Thermo.	Blue	JCP	22 (1954)	28
6.3 μ	G	Absorption	Burch	PR	94 (1954)	1424
1550-1800	G	Instrument performance	Cole	JOSA	44 (1954)	741
3650-3950	G	Instrument performance	Cole	JOSA	44 (1954)	741
-.	L	Ident	Cox	JCS	- (1954)	3183
2.7-6 μ	G	Spec	Dalby	PR	94 (1954)	1423
-	G	Absorption	Daw	PR	94 (1954)	1424
2.8-6 μ	-	Thermo.	Friedman	PR	94 (1954)	1423
2.8-6 μ	G	Spec	Gaunt	JSI	31 (1954)	315
1300-1800	G	Spec	Holiday	JSI	31 (1954)	261
2600-3800	S,L,G	Spec, Freq	Jones	JCP	22 (1954)	217
-	G	Spec	Kaye	SA	6 (1954)	254
5-7.5 μ	G	Spec	Kendricks	JOSA	44 (1954)	501
0.1-0.2 μ	G	Microwave	King	PR	93 (1954)	407
-	Sol	Ident	Maley	AC	26 (1954)	435
-	-	Thermo.	Pennington	JCP	22 (1954)	1442
2-42 μ	L	Spec	Plyler	JOSA	44 (1954)	505
-	-	Centrifugal distortion theory	Posener	PR	95 (1954)	374
15-27 μ	G	Freq, Spec	Roberts	JSI	31 (1954)	226
0-60 μ	G	Microwave, Spec	Rogers	PR	95 (1954)	622
-	-	Ident	Tobin	JACS	76 (1954)	3249

2 μ	S	Crystal forms	Vanderberg	AC	26 (1954)	428
0.6-2.7 μ	S	Dispersion	Vanderberg	JCP	22 (1954)	3249
2-8 μ	G	Spec	Ahlers	JSI	32 (1955)	61
2-11.5 μ	G	Spec	Donovan	JCP	23 (1955)	1592
1400-2100	G	Spec	Dows	JCP	23 (1955)	499
-	-	Transmission	Johnson	JOSA	45 (1955)	451
-	S	H bond	Lippincott	JCP	23 (1955)	1099
523-540	G	Spec	Madden	JCP	23 (1955)	408
202.8-420	G	Calibration for prism	Mills	JOSA	45 (1955)	785
-	-	Vibration	Morino	JCP	23 (1955)	737
-	-	Anal	Patterson	AC	27 (1955)	574
100-450	G	Spec	Plyler	JCP	23 (1955)	752
3-16 μ	G	Spec	Sloan	JOSA	45 (1955)	455
-	-	FC	Slowiroski	JCP	23 (1955)	1933
2.5-11 μ	L	Spec	Wright	APS	9 (1955)	105
-	G	Mol. Const.	Benedict	JCP	24 (1956)	1139
0.9-3 μ	Sol	Spec	Holman	AC	28 (1956)	1533
1330-2100	G	Spec, Freq	Jones	JCP	24 (1956)	1250
-	-	Coriolis coupling theory	Meal	JCP	24 (1956)	1126
-	-	Spec	Neu	JPC	60 (1956)	320
-	S	H bond	Pimental	JCP	24 (1956)	639
-	-	Vibrations	Polo	JCP	24 (1956)	1133
2.5-12 μ	L	Spec	Potts	AC	28 (1956)	1255
-	-	FC	Smith	TFS	52 (1956)	891
0.08-.36 μ	G	Absorption	Theissing	JAP	27 (1956)	538
1.4 μ	Sol	Spec	White	AC	28 (1956)	1538
1.8-2.1 μ	Sol	Anal	Cordes	AC	29 (1957)	485
9.68-9.46 μ	G	Alcohols in water	Friedel	AC	29 (1957)	1362
1-18 μ	L	Dispersion	Jaffe	JOSA	47 (1957)	782
55-1600	-	Spec	Lord	JOSA	47 (1957)	689
15-150 μ	-	Spec, Struct	Lord	JOSA	47 (1957)	340
2.8 μ	Sol	Quant. Anal	Matsuyama	AC	29 (1957)	196
-	Sol	Anal	Spell	AC	29 (1957)	166
60-120 μ	-	Spec	Strong	JOSA	47 (1957)	354
1500-3500	-	H bond, Spec, Struct	Thiel	JCP	27 (1957)	486
-	-	Zero potential energy difference	Whalley	TFS	53 (1957)	1578
-	-	Thermo, Anal	Zenchelsky	AC	29 (1957)	167
-	-	H bond, Freq	Drinkard	JPC	62 (1958)	1494
0.5-3800	G,S	Spec	Ockman	PRS	247 (1958)	434

		100-300 μ	G	Spec	Plyler	JRNB	60 (1958)	55
		2800-3600	S	Spec	Price	PRS	247 (1958)	467
		-	-	Freq	Sartori	JINC	8 (1958)	119
		3350-3800	Sol	Band shift	Saumagne	BSCF	- (1958)	813
		50-1500	G	Freq	Yaroslavskii	IANS	22 (1958)	1145
		50-1500	-	Spec	Yaroslavskii	OS	5 (1958)	384
		1500-1700	S	Struct, Freq, Spec	Catalano	JCP	30 (1959)	45
		5.8-7.1 μ	Sol	Anal	Cirillo	AC	31 (1959)	959
		-	-	Mol. Const., Spec	Kachkuruzov	OS	6 (1959)	463
		-	S	Spec	Mutter	ZPC	19 (1959)	83
		-	G	I vs Temp.	Smirnov	OS	7 (1959)	193
		40-2500	G	Spec	Yaroslavskii	OS	6 (1959)	799
		4-500	G	Spec	Yaroslavskii	OS	7 (1959)	676
		50-2500	G	Spec	Decamps	CPR	250 (1960)	1827
		3200-3700	L	Band study, Solute effect	Fabbri	ANCR	50 (1960)	3
		-	S	Struct	Haas	JCP	32 (1960)	1763
		700-4000	S	Struct	Lippincott	JCP	32 (1960)	612
H_2O_2	Hydrogen peroxide	-	-	Freq	Mecke	TFS	30 (1934)	200
		-	-	Struct	Penney	TFS	30 (1934)	898
		-	G	Anal	Frost	JCP	4 (1936)	781
		2-12 μ	L,G	Spec, FC	Bailey	TFS	34 (1938)	1131
		10150-10400	G	Spec, Quant. Mech.	Zumwalt	JCP	9 (1941)	458
		-	-	Quant. Mech.	Decius	JCP	16 (1948)	1025
		-	-	Hindered rotation	Lasettre	JCP	17 (1949)	317
		2-21 μ	G,L	Spec, Assign	Badin	JACS	72 (1950)	1550
		-	G	Anal	Giguere	JCP	18 (1951)	898
		400-3800	S,L	Anal	Taylor	JCP	18 (1951)	88
		660-1029	G	FC, Freq	Giguere	JPC	56 (1952)	340
		-	-	Bond study	Huggins	JACS	75 (1953)	4126
		-	G	Microwave	Massey	JCP	22 (1954)	442
		-	L,Sol	Spec	Taylor	JCP	24 (1956)	41
		900-3500	G	Freq, Struct	Hirota	JCP	28 (1958)	839
		2.5-25 μ	S	H bond, Freq	Giguere	JMS	3 (1959)	36
H_2O_3Se	Selenious acid	2-30 μ	S	Struct, Assign	Falk	CJC	36 (1958)	1680
		-	S	Spec, Struct, FC	Simon	ZAUA	301 (1959)	246
$H_2O_3Si.xH_2O$	Silica gel	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
		2-16 μ	S	Spec, Anal	Miller	AC	24 (1952)	1253
		2200-2750	S	Spec	Pimental	JACS	75 (1953)	803

H_2O_4S	Sulfuric acid	1-13 μ	Sol	Spec	Lecomte	TFS	25	(1929)	864
		-	Sol	Freq	Taylor	TFS	25	(1929)	830
		8.7 μ	L	Dispersion	Korff	RMP	4	(1932)	471
		-	Sol	Spec	Plyler	JCP	2	(1934)	306
		-	-	H bond	Bernal	PRS	151	(1935)	384
		50-150 μ	L,Sol	Spec	Cartwright	JCP	4	(1936)	413
		9000-11000	L	Spec, H bond	Badger	JCP	5	(1937)	369
		-	-	Spec	Badger	JCP	5	(1937)	839
		50-150 μ	Sol	Band study	Cartwright	JCP	5	(1937)	776
		2-25 μ	Sol	Spec	Falk	CJC	35	(1957)	1195
		700-4000	-	Spec	Marcus	JCP	27	(1957)	564
		800-4000	S	Group study	Braunholtz	JCS	-	(1959)	868
		2-30 μ	Sol	Spec, Struct	Giguere	CJC	38	(1960)	2467
$H_2O_4S.H_2O$	Sulfuric acid monohydrate	2-30 μ	Sol	Spec, Struct	Giguere	CJC	38	(1960)	2467
$H_2O_4S.2H_2O$	Sulfuric acid dihydrate	2-30 μ	Sol	Spec, Struct	Giguere	CJC	38	(1960)	2467
H_2S	Hydrogen sulfide	3.7 μ	G	Spec	Barker	TFS	25	(1929)	912
		4.2-8 μ	G	Spec, Freq	Rollefson	PR	34	(1929)	604
		1-10 μ	G	Spec, Anal	Nielsen	PR	37	(1931)	727
		7-9 μ	G	Band study	Nielsen	PR	37	(1931)	1183
		20-33 μ	G	Transmission	Strong	PR	37	(1931)	1003
		6.7-33 μ	G	Transmission	Strong	PR	37	(1931)	1565
		-	-	Isotope effect	Salant	PR	42	(1932)	812
		20.7-15.2 μ	G	Spec	Strong	PR	42	(1932)	267
		1.9-3.8 μ	G	Spec	Sprague	PR	43	(1933)	375
		-	-	Quant. Mech.	Wilson	JCP	2	(1934)	432
		-	G	Thermo	Cross	JCP	3	(1935)	168
		-	G	Anal, Mol. Const.	Cross	PR	47	(1935)	7
		1-15 μ	G	Freq, Assign	Barker	JCP	4	(1936)	625
		-	-	FC	Penney	PRS	156	(1936)	654
		-	-	Thermo	Wilson	JCP	4	(1936)	526
		-	G	Assign	Caroin	JCP	5	(1937)	159
		9875-9975	-	Spec	Crawford	JCP	5	(1937)	371
		-	-	Freq, Assign	Crawford	JCP	5	(1937)	691
		-	-	Quant. Mech.	Cross	JCP	5	(1937)	370
		1.5-12 μ	G	Spec, Freq, Assign	Nielsen	JCP	5	(1937)	277
		7.2-8.3 μ	G	Spec, Freq, Assign	Sprague	JCP	5	(1937)	85

-	-	Quant. Mech.	Badger	JCP	6 (1938)	711
-	-	Freq	Redlich	JCP	9 (1941)	298
-	-	FC	Glockler	RMP	15 (1943)	111
-	-	Ratio rule	Noether	JCP	11 (1943)	97
-	-	Quant. Mech.	Glockler	JCP	13 (1945)	388
-	-	FC	Linnett	TFS	41 (1945)	223
-	-	FC	Gordy	JCP	14 (1946)	305
-	-	FC	King	JCP	14 (1946)	35
-	-	Quant. Mech.	Simpson	JCP	14 (1946)	294
-	-	Moment of Inertia	Hainer	JCP	15 (1947)	89
-	-	Anal	Halverson	RMP	19 (1947)	87
-	-	Microwave	King	PR	71 (1947)	433
1290-5140	G	Assign	Noble	PR	71 (1947)	484
3.5-4.5 μ	G	Spec	Wilson	JCP	15 (1947)	687
2.6 μ	-	Anal	King	PR	74 (1948)	1247
-	-	Emission	Ginsburg	PR	75 (1949)	1317
10070-10270	G	Mol. Const.	Grady	PR	75 (1949)	1450
-	-	FC	Linnett	TFS	45 (1949)	844
6140-6420	G	Band anal	Allen	JCP	18 (1950)	691
6140-6420	G	Spec, Struct	Allen	JCP	18 (1950)	691
-	-	Vibrational energy	Allen	JCP	18 (1950)	1412
-	-	FC	Heath	TFS	46 (1950)	137
800-2800	S	Freq, Assign	Lohman	PR	79 (1950)	235
3.6-4.5 μ	G	Spec	Noble	JCP	18 (1950)	667
-	-	Band study	Allen	JCP	19 (1951)	252
-	-	Bond interaction theory	Duchesne	JCP	19 (1951)	1191
1190-2550	S	Spec	Lohman	JCP	19 (1951)	252
100-700 μ	-	Spec	McCurbin	JOSA	41 (1951)	289
3.8 μ	G	I	Nielsen	PR	83 (1951)	838
1183	G	Band study	Noble	JCP	19 (1951)	799
5000-5250	G	Anal	Allen	JCP	20 (1952)	1709
65-250	G	Anal	Bell	PR	88 (1952)	174
100-700 μ	G	Spec	McCurbin	JCP	20 (1952)	668
-	-	FC	Moller	JCP	20 (1952)	203
0.1-0.2 μ	G	Microwave	Burrus	PR	92 (1953)	274
-	-	Band study	Huggins	JACS	75 (1953)	4126
8700-1100	G	Spec, Anal	Innes	JCP	21 (1953)	545
2 μ	G	Spec, Freq	Allen	JCP	22 (1954)	1104
6140-6430	G	Spec, Freq, Assign	Allen	JRNB	52 (1954)	205
-	-	Thermo	Haar	PR	99 (1955)	638
7480-7880	G	Spec, Anal	Ordway	JCP	23 (1955)	541

		2200-2800	G	Spec, Anal	Allen	JCP	24 (1956)	35
		7.5-12 μ	G	Spec, Mol. Const.	Allen	JCP	25 (1956)	1132
		2-15 μ	G	Spec	Pierson	AC	28 (1956)	1218
		-	-	FC	Smith	TFS	52 (1956)	891
		-	-	Dipole moment	Rao	TFS	53 (1957)	1160
		2500-2700	L	Spec, Struct, Freq	Reding	JCP	27 (1957)	1024
		3730-4030	-	Spec, Assign	Savage	JCP	27 (1957)	179
		-	-	I, Freq	Emerson	DA	19 (1959)	1577
H_2S_2	Hydrogen disulfide	-	-	FC	Gordy	JCP	14 (1946)	305
		1.5-15 μ	-	Spec, Assign	Wilson	JCP	17 (1949)	1232
		-	-	Freq, Assign	Hooge	RTC	77 (1958)	902
		290-5000	S	Spec, Freq assign	Zengin	CJC	37 (1959)	632
H_2B	Boron dihydride	-	-	FC	Linnett	TFS	41 (1945)	223
H_2Se	Hydrogen selenide	2300-2380	-	Struct	Sears	PR	53 (1938)	330
		4-12 μ	G	Spec, Freq, Assign	Cameron	JCP	7 (1939)	994
		-	-	Ratio rule	Noether	JCP	11 (1943)	97
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Anal	Halverson	RMP	19 (1947)	87
		-	-	Microwave	King	PR	71 (1947)	443
		-	-	FC	Linnett	TFS	45 (1949)	844
		-	-	FC	Heath	TFS	46 (1950)	137
		-	-	FC	Moller	JCP	20 (1952)	203
		950-1140	G	Assign, I, Spec, Mol. Const.	Lefevre	AJC	6 (1953)	341
		-	-	Band study	Huggins	JACS	75 (1953)	4126
		50-250 μ	G	Spec, Mol. Const.	Palik	JCP	23 (1955)	980
		-	-	FC	Slowinski	JCP	23 (1955)	1933
		-	-	FC	Smith	TFS	52 (1956)	891
		40-250 μ	G	Spec, Config., Mol. Const.	Palik	JMS	1 (1957)	223
H_3DBrNO	Deuterohydroxylammonium bromide	400-4000	S	Spec, Freq, NCA	Frasco	DA	19 (1958)	1219
		400-4000	Sol	Spec, Freq, NCA	Frasco	JCP	30 (1959)	1124
H_3DClNO	Deuterohydroxylammonium chloride	400-4000	S	Spec, Freq, NCA	Frasco	DA	19 (1958)	1219
H_3DINO	Deuterohydroxylammonium iodide	400-4000	Sol	Spec, Freq, NCA	Frasco	JCP	30 (1959)	1124

H_3DSi	Silane-d_1	1600	G	Spec, Anal	Polo	JCP	22 (1954)	1559
		-	-	Vibrations	Meal	JCP	24 (1956)	1126
$H_3D_3B_2$	Diborane-d_3	2-15 μ	G	Spec	Lehmann	JCP	79 (1958)	1248
H_3BrO	Oxonium bromide	500-4000	S	Spec, Freq	Ferriso	JACS	75 (1953)	4113
		500-4000	S	Spec, Assign	Ferriso	JCP	23 (1955)	1464
H_3BrSi	Bromosilane	2-25 μ	G	Spec, Assign, Thermo.	Mayo	JCP	23 (1955)	1344
		-	-	Freq, FC	Murata	JCP	23 (1955)	2451
		400-4000	G	Spec, Assign, Struct Mol. Const.	Newman	JCP	25 (1956)	855
$H_3Br^{79}Si$	Bromosilane (isotopic)	-	-	Microwave	Mays	JCP	20 (1952)	1695
H_3ClO	Oxonium chloride	500-4000	S	Spec, Freq	Ferriso	JACS	75 (1953)	4113
		500-4000	S	Spec, Assign	Ferriso	JCP	23 (1955)	1464
H_3ClSi	Monochlorosilane	-	-	FC	Gordy	JCP	14 (1946)	305
		650-2200	G	Freq, Assign, Mol. Const.	Monfils	JCP	19 (1951)	138
		-	-	Freq, FC	Monfils	CPR	236 (1953)	795
		-	-	Freq, Mol. Const., FC	Anderson	ACS	8 (1954)	738
		-	-	Freq	Lord	JCP	22 (1954)	542
		510-2400	G	Spec, Assign	Newman	JCP	25 (1956)	855
		-	-	Assign	Newman	SA	10 (1959)	793
$H_3Cl^{35}Si$	Monochlorosilane (isotopic)	-	-	Microwave	Mays	JCP	20 (1952)	1703
$H_3Cl^{35}Si^{28}$	Monochlorosilane (isotopic)	-	-	Microwave	Mays	PR	76 (1949)	136
$H_3Cl^{35}Si^{30}$	Monochlorosilane (isotopic)	-	-	Microwave	Mays	PR	76 (1949)	136
$H_3Cl^{37}Si^{28}$	Monochlorosilane (isotopic)	-	-	Microwave	Dailey	PR	76 (1949)	136
$H_zCl_zN_zB_z$	B-trichloroborazole	-	Sol	NCA, I, Assign, Freq	Nakagawa	SA	16 (1960)	78

H_3FO	Oxonium fluoride	500-4000	S	Spec, Assign	Ferriso	JCP	23 (1955)	1464
H_3FSi	Monofluorosilane	667-3000	G	Freq, Assign, FC	Anderson	ACS	8 (1954)	738
		670-5000	G	Spec, Assign, Mol. Const.	Newman	JCP	25 (1956)	855
		-	-	Assign	Newman	SA	10 (1959)	793
H_3IO	Oxonium iodide	500-4000	S	Spec, Assign	Ferriso	JCP	23 (1955)	1464
H_3ISi	Monoiodosilane	-	G	Microwave, Spec, Struct	Sharbaugh	N	171 (1953)	87
		2-20 μ	G	Freq	Dixon	JCP	23 (1955)	215
		500-5000	G	Spec, Mol. Const., Thermo.	Dixon	TFS	53 (1957)	282
		-	-	Freq	Linton	DA	19 (1958)	687
H_3N	Ammonia	3 μ	G	Spec	Spence	JOSA	10 (1925)	127
		10 μ	G	Spec	Colby	PR	29 (1927)	927
		56-127 μ	G	Grating performance	Badger	PR	31 (1928)	919
		2 μ	G	I	Barker	PR	31 (1928)	1131
		55-130 μ	G	Spec	Badger	PR	33 (1929)	692
		10 μ	G	Spec	Barker	TFS	25 (1929)	912
		1.9-10 μ	G	Band study	Barker	PR	33 (1929)	684
		-	-	N-H linkage heat	Ellis	PR	33 (1929)	27
		0-2.5 μ	Sol	NH overtone	Ellis	TFS	25 (1929)	888
		-	G	Assign	Mecke	TFS	25 (1929)	936
		1.9-3 μ	G	Struct	Stinchcomb	PR	33 (1929)	305
		-	-	Spec	Wood	PR	33 (1929)	1097
		-	-	Visible overtone	Badger	PR	35 (1930)	1038
		3 μ	L	Two types of NH_3	Ellis	PR	35 (1930)	595
		-	-	Thermo.	Villars	JACS	52 (1930)	1733
		12 μ	G	Instrument test	Randall	RSI	2 (1931)	585
		16 μ	G	Spec	Sleator	PR	38 (1931)	147
		20-23 μ	G	Transmission	Strong	PR	37 (1931)	1003
		6.7-33 μ	G	Transmission	Strong	PR	37 (1931)	1565
		-	-	Two minima theory	Dennison	PR	41 (1932)	313
		3-10.5 μ	G	I	Dennison	PR	39 (1932)	938
		1.5-22 μ	G	Spec	Hardy	PR	40 (1932)	1039
		-	-	Quant. Mech.	Rosen	PR	42 (1932)	210
		20-152 μ	G	Spec	Strong	PR	42 (1932)	267
		-	G	Spec	Villars	CR	11 (1932)	369

-	-	Spec	Weber	PR	40 (1932)	835
-	-	Secular equation	Eyring	JCP	1 (1933)	777
-	-	Struct	Mulliken	JCP	1 (1933)	492
1-2 μ	G	Spec	Unger	PR	43 (1933)	123
-	-	Quant. Mech.	Vanvleck	JCP	1 (1933)	219
60-125 μ	G	Spec	Wright	PR	44 (1933)	391
-	-	Vibrations	Andrews	JCP	2 (1934)	624
1-4 μ	G	Spec	Cluton	PR	45 (1934)	234
-	-	Freq	Mecke	TFS	30 (1934)	200
-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
40-170 μ	G	Spec	Barnes	PR	47 (1935)	658
-	-	Vibrations	Duncan	JCP	3 (1935)	384
-	-	Vibrations, Freq	Howard	JCP	3 (1935)	207
-	-	Rotational spacing	Johnston	PR	48 (1935)	868
-	-	Symetrical double min.	Mauning	JCP	3 (1935)	136
-	-	Quant. Mech.	Wilson	JCP	3 (1935)	276
-	G	Freq, Anal	Chao	PR	50 (1936)	27
1025-1085	G	Spec	Migeotte	PR	50 (1936)	418
-	-	Thermo	Wilson	JCP	4 (1936)	526
-	G	Pressure effect	Cornell	PR	51 (1937)	739
-	G	Pressure broadening theory	Margenon	PR	51 (1937)	748
40-75 μ	G	Spec	Randall	RMP	10 (1938)	72
6 μ	G	Perpendicular vibrations	Barker	PR	55 (1939)	657
10-16 μ	G	Band study	Barker	PR	56 (1939)	854
-	-	Thermo	Haupt	JCP	7 (1939)	925
-	-	Freq	Lee	TFS	35 (1939)	1366
-	-	Thermo	Pitzer	JCP	7 (1939)	251
-	-	Quant. Mech.	Slawsky	JCP	7 (1939)	509
3400	-	Freq	Sutherland	PR	56 (1939)	836
-	-	Struct	Sutherland	TFS	35 (1939)	1373
-	-	Freq	Dennison	RMP	12 (1940)	175
232-298 μ	G	Spec	Foley	PR	59 (1941)	171
10 μ	G	Spectrometer calibration	McAlister	RSI	12 (1941)	314
10-16 μ	G	Spec, Anal	Sheng	PR	60 (1941)	786
-	-	Freq, Thermo	Thompson	TFS	37 (1941)	344
7.8-14 μ	G	Spectrometer calibration	Oetjen	RSI	13 (1942)	515
-	G	Spec	Bobrovnikoff	RMP	16 (1944)	271

–	G	Absorption laws	Nielsen	RMP	16 (1944)	307
3–10 μ	G	Spec	Barnes	JAP	16 (1945)	77
–	–	Rotatiorule	Edgell	JCP	13 (1945)	539
–	–	FC	Linnett	TFS	41 (1945)	223
10–12 μ	G	Thermocouple performance	Roess	RSI	16 (1945)	164
–	G	Microwave	Bleaney	PR	70 (1946)	775
0.08 μ	G	Microwave	Good	PR	70 (1946)	213
–	–	FC	Gordy	JCP	14 (1946)	305
–	G	Microwave	Hadley	PR	70 (1946)	780
–	–	Photoelectric effect	Ogg	JCP	14 (1946)	295
1.25 μ	G	Microwave	Townes	PR	70 (1946)	665
0.79–2.5 μ	G	Planetary atmosphere	Adel	PR	72 (1947)	538
2–16 μ	G	Instrument performance	Baird	JOSA	37 (1947)	754
1.1–1.6 μ	G	Microwave	Bleaney	PRS	189 (1947)	358
–	–	Microwave	Feld	PR	72 (1947)	1116
1.25 μ	G	Microwave	Gordy	PR	71 (1947)	640
–	–	Anal	Halverson	RMP	19 (1947)	87
–	–	Microwave	Jauch	PR	72 (1947)	715
2–16 μ	G	Spec	Muller	AC	19 (1947)	25
9.7–14 μ	G	Instrument performance	Nielsen	JOSA	37 (1947)	296
–	–	Microwave	Williams	PR	72 (1947)	974
2–14 μ	G	Instrument performance	Wright	JOSA	37 (1947)	211
–	–	Microwave	Carter	PR	73 (1948)	1053
2 μ	G	Absorption	Mohler	PR	74 (1948)	352
–	–	Quant. Mech.	Newton	JCP	16 (1948)	310
–	–	FC	Richards	TFS	44 (1948)	40
–	G	Pressure broadening	Anderson	PR	76 (1949)	647
–	–	Microwave	Anderson	PR	75 (1949)	1450
–	–	Theoretical	Burgess	PR	76 (1949)	1267
790–2600	G	Assign	Burgess	PR	76 (1949)	1261
–	–	Struct, Quant. Mech.	Duchesne	JCP	17 (1949)	1354
–	–	Theoretical	Duchesne	JCP	17 (1949)	1354
–	–	Bond study	Ginsburg	JACS	71 (1949)	1245
–	–	Emission	Gordon	PR	75 (1949)	1317
–	G	Pressure broadening	Margenau	PR	76 (1949)	121
920–975	G	Atmospheric ammonia	Migoette	PR	75 (1949)	1611
–	G	IR Fundamental	Wood	PR	75 (1949)	1113
–	G	Pressure broadening theory	Anderson	PR	80 (1950)	511
–	–	Theoretical	Duchesne	JPR	11 (1950)	119
–	–	FC	Heath	TFS	46 (1950)	137

528–3380	S	Band study, Freq	Hornig	PR	78 (1950)	348
100–600 μ	G	Spec	McCurbin	JOSA	40 (1950)	537
9.5–122 μ	G	Band study	Muller	AC	22 (1950)	19
–	–	Pressure shift	Nethercot	PR	79 (1950)	225
100–700 μ	–	Spec	McCurbin	JOSA	41 (1951)	289
–	–	Microwave, Pressure broadening theory	Mezushima	PR	83 (1951)	94
300–5000	S	Spec, Assign, FC	Reding	JCP	19 (1951)	594
10 μ	G	Spectrometer performance	Tellow	JSI	28 (1951)	161
–	–	Criticism	Bigeleisen	JCP	20 (1952)	1495
–	G	FC	Costain	JPC	56 (1952)	321
10 μ	G	Instrument performance	Ham	JOSA	42 (1952)	496
10 μ	G	Band study	McCurbin	N	169 (1952)	977
100–700 μ	G	Spec	McCurbin	JCP	20 (1952)	668
–	–	FC	Moller	JCP	20 (1952)	203
–	G	Spec	Oetjen	JOSA	42 (1952)	559
733–982	G	Properties of deuterated products	Stedman	JCP	20 (1952)	718
17.10–3 μ	G	Spec, I	Adel	JOSA	43 (1953)	1053
–	G	Spec, Microwave	Birnbaum	JCP	21 (1953)	1744
3 μ	G	Cathode ray tube presentation	Brown	JSI	30 (1953)	5
720–3510	G	Calibration data for prism	Downie	JOSA	43 (1953)	941
–	–	Bond study	Hansler	JCP	21 (1953)	1340
4–140 μ	G	Spec	Huggins	JACS	75 (1953)	4126
–	–	Vibrations	Torkington	JCP	21 (1953)	83
–	S	Spec, Struct, H bond, Freq	Waldron	JACS	75 (1953)	6079
–	G	Ident	Brown	JACS	76 (1954)	2645
–	G	Anal	Chapman	AC	26 (1954)	435
9–11 μ	G	Instrument performance	Cole	JOSA	44 (1954)	741
2–15 μ	G	Spec, Freq	French	JPC	58 (1954)	805
–	G	Vibrations	Gamo	CPR	239 (1954)	1478
2–15 μ	G	Spec	Katayama	JCP	22 (1954)	1373
–	–	Polarization theory	Kendrick	JOSA	44 (1954)	501
2.5–7.5 μ	–	Spec	Mapes	JPC	58 (1954)	1059
–	G	Anal	Merrow	JACS	76 (1954)	4522
–	S	Spec, Assign	Reding	JCP	22 (1954)	1926
–	–	Freq	Weston	JACS	76 (1954)	2645

-	S	Study of instable species	Whittle	JCP	22 (1954)	1943
3 μ	G	Freq, Mol. Const.	Cumming	CJP	33 (1955)	635
600-4000	G	Spec, Absorption	Dows	JCP	23 (1955)	499
2-15 μ	S	Spec	Dows	JCP	23 (1955)	1606
5-6 μ	G	Spec	Golay	JOSA	45 (1955)	430
-	-	Freq	Kabayashi	JCP	23 (1955)	1354
177-254	G	Calibration of prism	Mills	JOSA	45 (1955)	785
800-3500	S	Spec, Assign	Reding	JCP	23 (1955)	1053
-	-	Line width reduction	Romer	PR	99 (1955)	532
2000-4000	-	Spec, H bond	Yates	JCP	23 (1955)	1980
8-12.5 μ	G	Spec	Yates	JOSA	45 (1955)	192
2.15-2.47 μ	G	Stretching	Benedict	JCP	24 (1956)	904
500-3500	S	Spec, Assign	Flyita	JACS	78 (1956)	3295
-	G	Spec, I	Mckean	JCP	24 (1956)	316
-	-	Vibrations	Meal	JCP	24 (1956)	1126
2-15 μ	G	Spec	Pierson	AC	28 (1956)	1218
1750-7100	G	Mol. Const., Spec	Benedict	CJP	35 (1957)	1235
-	G	Pressure broadening	Feeny	JCP	27 (1957)	898
10 μ	G	Spectrometer performance	Greenler	JOSA	47 (1957)	642
780-1100	G	Spec	Lord	JOSA	47 (1957)	689
2373-3080	G	Anal, I	Benedicts	JCP	29 (1958)	829
2.15-2.48 μ	G	Spec, Freq, Mol. Const.	Benedict	JRNB	61 (1958)	123
2600-3500	G,L	Spec, H bond	Cromwell	JACS	80 (1958)	4573
2-15 μ	L,Sol	Freq, Band study	Demidenkova	IANS	22 (1958)	1122
730-1200	G	Freq, Mol. Const.	Tsuboi	SA	13 (1958)	80
1450-1850	G	Assign, Spec	Coates	SA	15 (1959)	820
510-1840	G	Mol. Const., Spec, Absorption	Garing	JMS	3 (1959)	496
-	-	Spec	Givaudon	CPR	248 (1959)	1494
600-4000	G	Spec, Pressure broadening	Kaye	AC	31 (1959)	1127
700-1300	G	Freq, Mol. Const.	Mould	SA	15 (1959)	313
1600-3500	G	Spec	Plyler	JRNB	62 (1959)	7
2-15 μ	S	Spec	Staats	JCP	31 (1959)	553
3060-3580	G	Temp. effect, Struct	Benedict	JCP	32 (1960)	32
500	G	Pressure effect on line	Genzel	ZE	64 (1960)	594
10-80 μ	G	Spec	Loewenstein	JOSA	50 (1960)	1163
-	-	Energy distribution	Nicholson	N	186 (1960)	630
515-1260	G	Mol. Struct	Nielsen	JPR	21 (1960)	24

H_3N^{14}	Ammonia (Isotopic)	-	G	Microwave	Dailey	PR	70 (1946)	984
		-	-	Microwave	Good	PR	71 (1947)	383
		-	G	Microwave	Jownes	PR	74 (1948)	1113
H_3N^{15}	Ammonia (Isotopic)	-	G	Microwave	Dailey	PR	70 (1946)	984
		-	-	Microwave	Good	PR	71 (1947)	383
		-	-	Quant. Mech.	Newton	JCP	16 (1948)	310
		1500-4000	G	Freq	Morgan	JCP	27 (1957)	1212
H_3NO	Hydroxylamine	-	-	Bond Dist.	Huggins	JACS	75 (1953)	4126
		500-4000	S	Ident	Nightingale	JACS	75 (1953)	4092
		500-4000	S	Spec, Assign	Nightingale	JCP	22 (1954)	203
H_3NO_3S	Sulphamic acid	2.7-3.7 μ	S	H bond	Buswell	JACS	62 (1940)	2759
		-	-	Freq	Bicelli	AC	47 (1957)	1380
		500-4000	S	Assign	Vuagnat	JCP	26 (1957)	77
		350-1600	S	Assign, FC	Nakagawa	SA	12 (1958)	239
H_3O^+	Hydronium ion	-	-	Freq, Assign	Gordy	JCP	14 (1946)	305
		550-4000	-	Freq	Bethell	JCP	21 (1953)	1421
H_3O_2P	Hypophosphorous acid	-	L	Group freq	Hammond	JACS	77 (1955)	2444
H_3O_3B	Boric acid	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		500-3600	S,Sol	Spec, Assign	Bethell	TFS	51 (1955)	9
		600-3400	S	Spec	Horning	JCP	26 (1957)	637
		400-3000	S	Spec, Assign	Servoss	JCP	26 (1957)	1175
		-	-	Ident	Bader	JPC	62 (1958)	331
		2-15 μ	S	Freq, Struct	Krogh-Mol	ARK	12 (1958)	1958
		250-4000	-	Spec, Assign	Goubeall	ZPC	20 (1959)	1959
		300-880	S	Spec	Miller	SA	16 (1960)	135
H_3O_4P	Orthophosphoric acid	9000-11000	L	Spec, H bond	Badger	JCP	5 (1937)	839
		2-25 μ	Sol	Spec	Folk	CJC	35 (1957)	1195
		-	-	FC	Pistorious	JCP	28 (1958)	514

$H_3O_6B_3$	Metaboric acid	250–4000	–	Spec, Assign	Goubeau	ZPC	20 (1959)	15
		430–4000	S	Assign	Parsons	JCP	33 (1960)	1860
$H_3O_6B_3^{10}$	Metaboric acid (isotopic)	430–4000	S	Assign	Parsons	JCP	33 (1960)	1860
H_3As	Arsine	1.63 μ	G	Freq, Struct	Norris	PR	45 (1934)	68
		–	–	Freq	Howard	JCP	3 (1935)	207
		500–2500	G	Struct	Lee	TFS	35 (1939)	1366
		–	–	Struct	Sutherland	TFS	35 (1939)	1373
		–	–	FC	Gordy	JCP	14 (1946)	305
		–	–	Anal	Halverson	RMP	19 (1947)	87
		–	–	Spec	McConaghie	PR	73 (1948)	1250
		–	–	Quant. Mech.	Duchesne	JCP	17 (1949)	1354
		–	–	Theory	Duchesne	JCP	17 (1949)	1354
		1523–2116	G	Anal	McConaghie	PR	73 (1949)	623
		–	–	Theory	Duchesne	JPR	11 (1950)	119
		–	–	FC	Heath	TFS	46 (1950)	137
		–	G	Theory	Costain	JPC	56 (1952)	321
		–	–	FC	Moller	JCP	20 (1952)	203
		–	–	Struct	Nielsen	JCP	20 (1952)	759
		–	–	Anal	Nielsen	JCP	20 (1952)	1955
		–	G,S	Group freq	Emeleus	JCS	– (1953)	1552
		–	–	Bond Dist.	Huggins	JACS	75 (1953)	4126
		50–150	G	Spec	Strong	JOSA	43 (1953)	1096
		–	–	Vib.	Torkington	JCP	21 (1953)	83
		–	G	Table, Freq	Gamo	CPR	239 (1954)	1478
		–	–	Freq	Weston	JACS	76 (1954)	2645
		–	G	Spec	Stroup	DA	20 (1957)	336
H_3As^{75}	Arsine (isotopic)	–	–	Microwave	Blevins	PR	97 (1955)	684
H_3B	Borine	–	–	Theory	Castellan	JCP	22 (1954)	536
H_3P	Phosphine	60–125 μ	G	Spec	Wright	PR	44 (1933)	391
		4.3–10 μ	G	Spec, Assign	Fung	PR	45 (1934)	238
		–	–	Freq	Howard	JCP	3 (1935)	207
		–	–	Freq	Lee	TFS	35 (1939)	1366
		–	–	Quant. Mech.	Slawsky	JCP	7 (1939)	509
		–	–	Struct	Sutherland	TFS	35 (1939)	1373
		–	–	Thermo	Stevenson	JCP	9 (1941)	403

		-	-	FC	Linnett	TFS	41 (1945)	223
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Vib.	Halverson	RMP	19 (1947)	87
		-	-	Spec	McConaghie	PR	73 (1948)	1250
		-	-	FC	Heath	TFS	46 (1950)	137
		-	-	Theory	Costain	JPC	56 (1952)	321
		-	-	FC	Moller	JCP	20 (1952)	203
		-	-	Struct	Nielsen	JCP	20 (1952)	759
		-	G	Freq, FC	Weston	JCP	20 (1952)	1820
		-	-	Bond Dist.	Huggins	JACS	75 (1953)	4126
		4.2-10 μ	G	Spec	McConaghie	JCP	21 (1953)	1836
		50-200	G	Spec	Stroup	JOSA	43 (1953)	1096
		-	G	Group freq	Bennett	JCS	- (1954)	3896
		-	G	Microwave	Burrus	PR	95 (1954)	706
		-	G	Freq	Gamo	CPR	239 (1954)	1478
		-	-	Anal	Nielsen	JCP	22 (1954)	1383
		-	-	Freq	Weston	JACS	76 (1954)	2645
		-	G	Spec	McKean	JCP	24 (1956)	316
		-	-	Rot.	Meal	JCP	24 (1956)	1126
		-	-	Theory	Rao	TFS	53 (1957)	1160
		-	G	Spec	Stroup	DA	20 (1957)	336
		-	G	Spec		JCP	28 (1958)	427
		900-1200	G	Struct	Nielsen	JPR	21 (1960)	24
$H_4D_2NO_4P$	Ammonium dihydrogen phosphate-d_2	300-3000	S	Group freq	Blinc	MP	1 (1957)	391
$H_4D_2NO_4As$	Ammonium dideutero arsenate	300-3000	S	Group freq	Blinc	MP	1 (1957)	391
$H_4D_2B_2$	Diborane-d_2	2-15 μ	G	Spec	Lehmann	JCP	29 (1958)	1248
H_4BrN	Ammonium bromide	55-62 μ	S	Residual rays	Weniger	JOSA	7 (1923)	517
		-	-	Residual rays	Schaefer	TFS	25 (1929)	841
		8.7 μ	-	Dispersion	Korff	RMP	4 (1932)	471
		-	-	Spec	Menzies	PRS	148 (1935)	407
		3-6.5 μ	-	Spec	Plyler	PR	51 (1937)	1017
		3-5.4 μ	Sol	Spec	Plyler	JCP	6 (1938)	316
		2-8 μ	S,Sol	Spec	Williams	JACS	64 (1942)	857
		5.4-7.6 μ	S	Spec	Beck	JCP	12 (1944)	71

		–	–	Quant. Mech.	Hornig	JCP	16	(1948)	1063
		–	–	Anal	Wagner	JCP	17	(1949)	105
		3-8 μ	S	Spec	Wagner	JCP	18	(1950)	305
		1300-3300	S	Spec	Bouey	JOSA	41	(1951)	836
		–	–	Disk	Ford	JSI	31	(1954)	338
		–	–	Quant. Mech.	Gutowsky	JCP	22	(1954)	643
		–	S	Band freq	Plumb	JCP	23	(1955)	947
		2-16 μ	S	Spec	Meloche	JINC	6	(1958)	104
		5-15 μ	S	Freq	Lippincott	SA	16	(1960)	58
		300-880	S	Spec	Miller	SA	16	(1960)	135
H_4BrNO	Hydroxylammonium bromide	400-4000	S	Spec, Freq, NC	Frasco	DA	19	(1958)	1219
		400-4000	L	Spec	Frasco	JCP	30	(1959)	1124
H_4Br_4NB	Ammonium tetrabromoborate	600-3500	S	Spec	Kynaston	JCS	–	(1960)	1772
H_4ClF_3PB	Phosphonium chloro trifluoroborate	400-4000	S	Struct	Waddington	JCS	–	(1960)	2339
H_4ClN	Ammonium chloride	46-54 μ	S	Residual rays	Weniger	JOSA	7	(1923)	517
		–	S	Residual rays	Schaefer	TFS	25	(1929)	841
		8.7 μ	–	Dispersion	Korff	RMP	4	(1932)	471
		3-9 μ	S	Spec	Pfund	PR	39	(1932)	64
		–	–	Spec	Menzies	PRS	148	(1935)	407
		–	–	H bond	Freymann	JCP	6	(1938)	497
		3-5.4 μ	Sol	Spec	Plyler	JCP	6	(1938)	316
		2-8 μ	S,Sol	Spec	Williams	JACS	64	(1942)	857
		5.4-7.6 μ	S	Spec	Beck	JCP	12	(1944)	71
		–	–	Selection rules	Halford	JCP	14	(1946)	8
		–	–	Quant. Mech.	Hornig	JCP	16	(1948)	1063
		–	–	Struct	Wagner	JCP	17	(1949)	105
		3-8 μ	S	Spec	Wagner	JCP	18	(1950)	296
		3-15 μ	S	Low temp. spec	Walsh	JCP	18	(1950)	552
		3.2-7 μ	S	Reflection	Bouey	JOSA	41	(1951)	381
		1300-3300	S	Spec	Bouey	JOSA	41	(1951)	836
		2-16 μ	S	Spec	Miller	AC	24	(1952)	1253
		2-16 μ	S	Spec	Anderson	AC	25	(1953)	1906
		–	–	Disk	Ford	JSI	31	(1954)	338
		–	–	Quant. Mech.	Gutowsky	JCP	22	(1954)	643
		–	S	Ident	Soffer	JACS	76	(1954)	3580

		-	S,L	Thermo	Altshuller	JACS	77 (1955)	3480
		-	S	Group freq	Plumb	JCP	23 (1955)	947
		2-10 μ	S	Comparison	Meloche	JINC	6 (1958)	104
		5-15 μ	S	Freq	Lippincott	SA	16 (1960)	58
		300-880	S	Spec	Miller	SA	16 (1960)	135
H_4ClNO	Hydroxyammonium chloride	400-4000	S	Spec, FC	Frasco	DA	29 (1958)	1219
		400-4000	L	Spec	Frasco	JCP	30 (1959)	1124
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467
H_4ClNO_4	Ammonium perchlorate	-	-	Freq	Horvath	JCP	16 (1948)	857
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		250-4000	S	Spec	Waddington	JCS	- (1958)	4340
		300-880	S	Spec	Miller	SA	16 (1960)	135
H_4Cl_4NB	Ammonium tetrachloro borate	600-3500	S	Spec	Kejnaston	JCS	- (1960)	1772
H_4FN	Ammonium fluoride	3-6.5 μ	-	Solvent effect	Plyler	PR	51 (1937)	1017
		3-5.4 μ	Sol	Spec	Plyler	JCP	6 (1938)	316
		2-8 μ	S,Sol	Spec	Williams	JACS	64 (1942)	857
		1400-3300	S	Spec	Bovey	JOSA	41 (1951)	836
		800-3600	S	Struct	Plumb	JCP	23 (1959)	947
H_4FNO_3S	Ammonium fluorosulphate	550-2400	S	Raman	Sharp	JCS	- (1957)	3761
		250-4000	S	Spec	Waddington	JCS	- (1958)	4340
$H_4F_2NO_2P$	Ammonium difluoro-phosphate	-	S	Group freq	Corbridge	JCS	- (1954)	4555
H_4F_4	Hydrogen fluoride	900-4000	G	Spec	Smith	JCP	28 (1958)	1040
H_4F_4NB	Ammonium tetrafluoro-borate	1500-3600	S	Spec	Cote	PRS	200 (1951)	217
		-	S	Band freq	Cox	JCS	- (1954)	1798
		-	S	Freq	Plumb	JCP	23 (1955)	947
		250-4000	S	Freq	Waddington	JCS	- (1958)	4340
H_4F_6NP	Ammonium hexafluoro phosphate	250-4000	S	Spec	Waddington	JCS	- (1958)	4340
H_4IN	Ammonium iodide	2-8 μ	S,Sol	Spec	Williams	JACS	64 (1942)	857
		1300-3400	S	Spec	Bovey	JOSA	41 (1951)	836

		–	–	Rot.	Plumb	JCP	21	(1953)	366
		–	–	Disk	Ford	JSI	31	(1954)	338
		–	–	Quant. Mech.	Gutowsky	JCP	22	(1954)	643
		–	S	Freq	Plumb	JCP	23	(1955)	947
		2-16 μ	S	Spec	Meloche	JINC	6	(1958)	104
		300-880	S	Spec	Miller	SA	16	(1960)	135
H_4INO	Hydroxylammonium iodide	400-4000	S	Spec, Freq, NCA	Frasco	DA	19	(1958)	1219
		400-4000	L	Spec	Frasco	JCP	30	(1959)	1124
H_4INO_3	Ammonium iodate	–	S	Spec	Dasent	JCS	–	(1960)	2429
H_4INO_4	Ammonium periodate	–	–	Freq	Siebert	ZAUA	–	(1960)	303
H_4IP	Phosphonium iodide	400-4000	S	Spec	Martiney	JCP	27	(1957)	1110
H_4N^+	Ammonium ion	–	–	Freq	Schaefer	TFS	25	(1929)	841
		–	–	Theory	Mulliken	JCP	1	(1933)	492
		–	–	FC	Linnett	TFS	41	(1945)	223
		–	–	Theory	Gordy	JCP	14	(1946)	305
		–	–	Force field	Heath	TFS	44	(1948)	561
		–	–	Quant. Mech.	Horwath	JCP	16	(1948)	857
		–	–	FC	Heath	TFS	46	(1950)	137
		1400-3200	S	Band freq	Waldron	JACS	75	(1953)	6079
		–	–	Freq	Kobayashi	JCP	23	(1955)	1354
		500-3500	S	Spec	Fujita	JACS	78	(1956)	3295
		–	–	Bond length	Woodward	TFS	52	(1956)	1458
		–	–	FC	Pistorius	JCP	27	(1957)	965
		–	S,Sol	I, Bond moment	Ferrico	JCP	32	(1960)	1240
H_4N^{15+}	Ammonium ion (Isotopic)	1500-4000	–	Freq	Morgan	JCP	27	(1957)	1212
H_4NO^+	Hydroxylammonium ion	–	–	Freq	Edsall	JCP	5	(1937)	225
H_4N_2	Hydrazine	–	–	Struct	Mecke	TFS	30	(1934)	200
		–	–	Group freq	Penney	TFS	30	(1934)	898
		–	–	Thermo	Scott	JACS	71	(1949)	2293
		7300	L,S	Rotational Iso	Wagner	JCP	19	(1951)	1210
		1.5-25 μ	G,L,S	Spec	Giguere	JCP	20	(1952)	136

		-	-	Freq	Tobin	JCP	20 (1952)	1980
		2-15 μ	G	Spec	Pierson	AC	28 (1956)	1218
		1.9 μ	Sol	Ident	Cardes	AC	29 (1957)	485
		-	G	Microwave	Oka	JPSJ	13 (1958)	321
		260-460	G	Thermo	Cotton	JCS	- (1960)	1882
		250-750	G	Assign	Yamaguchi	SA	16 (1960)	1471
$H_4N_2O_2$	Ammonium nitrite	250-4000	S	Freq, Assign	Waddington	JCS	- (1958)	4340
$H_4N_2O_3$	Ammonium nitrate	0.8-2.3 μ	Sol	Spec	Collins	PR	20 (1922)	486
		-	-	Freq	Harvath	JCP	16 (1948)	857
		680-3600	S	Temp.	Keller	JCP	17 (1949)	26
		-	S	Spec	Halford	PR	78 (1950)	348
		700-3400	S	Assign	Neman	JCP	18 (1950)	1276
		700-1500	S	Spec	Neman	JCP	18 (1950)	1291
		3-15 μ	S	Low temp. spec	Walsh	JCP	18 (1950)	552
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		-	S	Freq	Plumb	JCP	23 (1955)	947
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		250-4000	S	Spec, Assign	Waddington	JCS	- (1958)	4340
		300-880	S	Spec	Miller	SA	16 (1960)	135
H_4N_4	Ammonium azide	-	S	Theory	Whittle	JCP	22 (1954)	1943
		600-4000	S	Spec	Dows	JCP	23 (1955)	1475
		2-15 μ	S	Spec	Dows	JCP	23 (1955)	1606
		1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295
		-	S	H bond	Pimental	JCP	24 (1956)	639
		635-3100	S	Spec	Gray	TFS	53 (1957)	901
		250-4000	S	Spec	Waddington	JCS	- (1958)	4340
$H_4N_4S_4$	Cyclotetrathio-tetraimine	280-3700	S	Band freq	Lippincott	JACS	73 (1951)	4990
		250-3500	S	Spec	Lippincott	JCP	21 (1953)	1559
$H_4O_7P_2$	Pyrophosphoric acid	1-40 μ	Sol	Spec	Mutschin	ZAC	160 (1958)	81
H_4B^-	Borohydride ion	-	-	Bond length	Woodward	TFS	52 (1956)	1458
H_4P^+	Phosphonium ion	-	-	FC	Pistorius	JCP	27 (1957)	965

H_4Si	Silane	1-13 μ	G	Spec	Steward	PR	47 (1935)	828
		-	-	Freq, Assign	Stitt	JCP	4 (1936)	82
		-	-	Assign	Murphy	JCP	8 (1940)	71
		9-11 μ	-	Freq	Straley	PR	58 (1940)	1002
		-	G	Rot.	Straley	PR	60 (1941)	65A
		9-13 μ	G	Forbidden bands	Tindal	PR	60 (1941)	65A
		-	-	Quant. Mech.	Wen	JCP	9 (1941)	195
		-	-	Band freq	Fugassi	JPC	46 (1942)	630
		9-12 μ	G	Spec	Tindal	PR	62 (1942)	151
		-	-	FC	Gardy	JCP	14 (1946)	305
		-	-	Force Field	Heath	TFS	44 (1948)	561
		-	-	FC	Simanouti	JCP	17 (1949)	848
		-	-	FC	Heath	TFS	46 (1950)	137
		-	G	Band freq	Burgess	JOSA	43 (1953)	1058
		-	-	Bond dist.	Huggins	JACS	75 (1953)	4126
		2-16 μ	G	-	White	JACS	76 (1954)	3897
		-	-	Thermo	Altshuller	JCP	23 (1955)	761
		-	-	Spec	Boyd	JCP	23 (1955)	922
		-	-	FC	Murata	JCP	23 (1955)	2451
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2365
		-	-	FC	Meal	JCP	24 (1956)	385
		-	-	Vib.	Meal	JCP	24 (1956)	1126
		-	-	Bond length	Woodward	TFS	52 (1956)	1458
		-	-	FC	Pistorius	JCP	27 (1957)	965
H_5DB_2	Diborane-d_1	2-15 μ	G	Spec	Lehmann	JCP	29 (1958)	1248
H_5BrN_2	Hydrazine monohydro-bromide	400-3500	S,L	Spec	Decius	JACS	75 (1953)	2436
H_5ClN_2	Amino ammonium chloride	-	-	Freq	Wilmshurst	CJC	38 (1960)	467
H_5ClN_2	Hydrazine monohydro-chloride	2-15 μ	S	Spec	Lieber	AC	23 (1951)	1594
		670-3500	S,L	Spec	Decius	JACS	75 (1953)	2436
H_5F_2N	Ammonium hydrogen difluoride	-	S	Freq	Cox	JCS	- (1954)	1798
		-	S	Freq	Ketelaar	JCP	24 (1956)	624
		250-4000	S	Assign	Waddington	JCS	- (1958)	4340
H_5NO	Ammonium hydroxide	1-3 μ	Sol	Spec	Grantham	PR	18 (1921)	339

H_5NO_2	Ammonium hydroperoxide	800-2400	S	H bond	Knop	CJC	37 (1959)	1794
H_5NO_4S	Ammonium bisulfate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$H_5N_2^+$	Hydrazine ion	-	-	FC	Linnett	TFS	41 (1945)	223
$H_5N_2O_2P$	Diamido phosphoric acid	-	-	Bond	Steiger	ZE	61 (1957)	1004
H_5PSi	Silyl phosphine	300-4000	G	Assign	Linton	SA	15 (1959)	146
$H_6Cl_2N_2$	Hydrazine dihydrochloride	400-3500	S	Assign	Snyder	SA	13 (1959)	280
$H_6F_4N_2Si$	Silicon tetrafluoride ammonia	2-15 μ	S	Spec	Piper	JACS	76 (1954)	4318
H_6F_6	Hydrogen fluoride (hexamer)	900-4000	G	Spec	Smith	JCP	28 (1958)	1040
H_6NO_4P	Ammonium dihydrogen phosphate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		1-25 μ	S	Reflection	Oberly	JCP	20 (1952)	740
		2-15 μ	S	Group freq	Carbridge	JCS	- (1954)	493
		400-10000	S	Assign	Murphy	JCP	22 (1954)	1322
		300-3000	S	Group freq	Blinc	MP	1 (1957)	391
		300-880	S	Spec	Miller	SA	16 (1960)	135
H_6NO_4As	Ammonium dihydrogen arsenate	1-25 μ	S	Reflection	Oberly	JCP	20 (1952)	740
		350-10000	S	Assign	Murphy	JCP	22 (1954)	1332
		300-3000	S	Spec	Blinc	MP	1 (1957)	391
H_6N_3OP	Phosphoryl triamide	-	-	Bond	Steiger	ZE	61 (1957)	1004
H_6N_3OS	Thiophosphoric triamide	-	-	Bond	Steiger	ZE	61 (1957)	1004
$H_6N_3B_3$	Borazole	2.5-24.5 μ	L	Spec	Grawford	JCP	7 (1939)	223
		-	-	Assign	Baner	CR	31 (1942)	43
		-	-	Freq	Bell	TFS	41 (1945)	293
		-	-	Freq	Price	JCP	17 (1949)	1044
		-	-	FC	Spurr	JCP	19 (1951)	518
H_6OSi_2	Disiloxane	640-5000	L	Spec, Freq	Lord	JACS	78 (1956)	1327
		600-4000						

H_6OSi_2	Disiloxane	640–5000	L	Spec, Freq	Lord	JACS	78	(1956)	1327
		600–4000	–	Spec	Curl	JACS	80	(1958)	2371
		600–1200	S,G	FC	McKean	SA	13	(1958)	38
		50–100 μ	G	Spec	Aronson	JCP	33	(1960)	1004
$H_6S\ Si_2$	Disilyl sulphide	200–4000	–	Assign	Linton	DA	19	(1958)	687
		400–4000	L,G,S	Spec	Linton	JCP	29	(1958)	921
		400–4000	G	Spec	Ebsworth	TFS	55	(1959)	211
H_6B_2	Diborane	400–4000	G	Spec	Still	JCP	9	(1941)	780
		–	–	Assign	Baver	CR	31	(1942)	43
		–	–	Struct	Huggins	JCS	–	(1943)	250
		–	–	Struct	Bell	PRS	183	(1945)	328
		–	–	Freq, Assign	Bell	PRS	183	(1945)	357
		–	–	FC	Gordy	JCP	14	(1946)	305
		–	–	Struct	Mulliken	CR	41	(1947)	207
		–	–	Assign	Price	JCP	15	(1947)	614
		–	–	Quant. Mech.	Kilpatrick	JCP	16	(1948)	781
		1.5–15 μ	–	Spec	Price	JCP	16	(1948)	894
		3.7–3 μ	G	Spec	Anderson	PR	76	(1949)	177A
		–	–	Anal	Cowan	JCP	17	(1949)	218
		–	–	Freq	Price	JCP	17	(1949)	217
		–	–	Freq	Price	JCP	17	(1949)	1044
		–	–	Thermo	Webb	JCP	17	(1949)	1007
		3.7–30 μ	G	Spec	Anderson	JCP	18	(1950)	698
		250–3800	G	Spec	Lord	JCP	19	(1951)	1
		2–15 μ	G	Spec	Lacher	JACS	74	(1952)	5292
		974	G	Study	Maybury	JCP	21	(1953)	742
		–	–	Thermo	Rifkin	JACS	75	(1953)	785
		–	–	Theory	Castellan	JCP	22	(1954)	536
		2–13 μ	G	Spec	McCarthy	AC	26	(1954)	1027
		–	–	Thermo	Shepp	JACS	76	(1954)	265
		4500–10500	L	Spec	Beachell	JCP	23	(1955)	2168
		–	–	Freq	Simpson	JCP	24	(1956)	1108
		2–15 μ	G	Spec	Lehmann	JCP	29	(1958)	1248
		1500–2850	–	Group freq	Shapiro	JCP	29	(1958)	237
		1–15 μ	G	Anal	Nadeau	AC	32	(1960)	1480
$H_6B_2^{10}$	Diborane-isotopic	250–3800	G	Spec	Lord	JCP	19	(1951)	1
		–	–	FC	Venkateswarlu	PIAS	48A	(1958)	344
$H_6B_2^{11}$	Diborane-isotopic	–	–	FC	Venkateswarlu	PIAS	48A	(1958)	344

$H_6Se\ Si_2$	Disilyl selenide	400-4000	G	Spec	Ebsworth	TFS	55 (1959)	211
H_6Si_2	Disilane	-	-	FC	Gordy	JCP	14 (1946)	305
		350-4000	G	Spec, Assign	Gutowsky	JCP	22 (1954)	939
		2-16 μ	G	Anal	White	JACS	76 (1954)	3897
		200-3200	G	Assign	Bethke	JCP	26 (1957)	1107
$H_7N_2O_3P$	Monoammonium phosphoramidate	2-15 μ	S	Group freq	Corbridge	JCS	- (1954)	493
H_8BrB_5	Bromopentaborane	400-3000	Sol	Struct	Figgis	SA	15 (1959)	331
$H_8FN_2O_3P.H_2O$	Diammonium mono fluorophosphate monohydrate	-	S	Group freq	Corbridge	JCS	- (1954)	4555
$H_8F_6N_2Si$	Diammonium silicon hexafluoride	-	S	Band freq	Cox	JCS	- (1954)	1798
$H_8N_2O_3S.H_2O$	Ammonium sulfite monohydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$H_8N_2O_3S_2$	Ammonium thiosulfate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$H_8N_2O_4S$	Ammonium sulphate	-	-	Quant. Mech.	Horvath	JCP	16 (1948)	857
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135
$H_8N_2O_4S_2$	Ammonium hyposulfite	-	-	Quant. Mech.	Horvath	JCP	16 (1948)	857
$H_8N_2O_4Se$	Ammonium selenate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		220-3500	S	Spec	Duval	ZE	64 (1960)	582
		300-880	S	Spec	Miller	SA	16 (1960)	135
$H_8N_2O_5Se_2$	Ammonium pyroselenite	-	S	Freq	Simon	ZAUA	303 (1960)	39
$H_8N_2O_8S_2$	Ammonium peroxo disulfate	300-880	S	Spec	Miller	SA	16 (1960)	135
$H_8N_2O_8S_2$	Ammonium persulfate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
$H_9N_2O_4P$	Diammonium hydrogen phosphate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253

$H_9N_2O_4P$	Diammonium hydrogen phosphate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		2-15 μ	S	Group freq	Corbridge	JCS	- (1954)	493
		600-4000	S	Discuss	Braunholtz	JCS	- (1959)	868
$H_9N_2O_4P \cdot 12H_2O$	Ammonium hydrogen phosphate dodeca-hydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
$H_9N_3Si_3$	Trisilyl amine	400-4000	G	Assign	Ebsworth	SA	13 (1958)	202
		-	G,Sol	Assign, Struct	Kiregsmann	ZAUA	298 (1958)	212
		600-1200	S,G	FC	McKean	SA	13 (1958)	38
		60-4000	G	Freq, Assign	Robinson	JACS	80 (1958)	5924
H_9B_5	Pentaborane	3-25 μ	G	Spec	Taylor	PR	79 (1950)	234
		568-3285	G	Spec	Hrostowski	JACS	76 (1954)	998
		-	G	Microwave	Hrostowski	JCP	22 (1954)	262
		2-15 μ	G	Spec	McCarty	AC	26 (1954)	1027
		-	G	Spec	Baden	JPC	59 (1955)	287
		5.14 μ	G	Exchange	Kaufman	JCP	24 (1956)	403
		-	-	Study	Baden	JPC	62 (1958)	331
		400-3000	Sol	Struct	Figgis	SA	15 (1959)	331
$H_{10}N_2O_6P_2$	Diammonium dihydrogen hypophosphate	694-3200	S	Group freq	Corbridge	JCS	- (1954)	4555
$H_{10}N_2O_7P_2 \cdot XH_2O$	Diammonium dihydrogen pyrophosphate (x-hydrate)	2-15 μ	S	Group freq	Corbridge	JCS	- (1954)	493
$H_{10}B_4$	Tetraborane	2-15 μ	G	Spec	McCarty	AC	26 (1954)	1027
$H_{10}B_6$	Hexaborane	2-15 μ	G	Spec	Gibbins	JCP	30 (1959)	1483
$H_{11}N_2O_6I$	Ammonium trihydrogen periodate	-	-	H bond	Rundle	JCP	20 (1952)	1487
$H_{11}N_2O_6I$	Diammonium paraperiodic acid	700-3000	-	Group freq	Blinc	MP	1 (1957)	391
$H_{11}B_5$	Dihydropentaborane	2-15 μ	G	Spec	McCarty	AC	26 (1954)	1027
$H_{12}N_2Si_4$	Tetrasilyl hydrazine	400-5000	G,S	Spec, Freq	Aylett	SA	16 (1960)	747

$H_{14}N_6O_8P_4$	Diammonium tetraphospho-nitrilate	785-3125	S	Group freq	Corbridge	JCS	-	(1954)	4555
$H_{14}B_{10}$	Decaborane	2-25 μ	S,Sol	Thermo	Keller	JCP	20	(1952)	1749
$H_{16}N_4O_7P_2$	Tetra ammonium pyrophosphate	2-15 μ	S	Group freq	Corbridge	JCS	-	(1954)	493
		-	Sol	Struct	Simon	ZAUA	301	(1959)	154
$H_{16}N_4O_{12}P_4$	Ammonium tetra metaphosphate	-	-	Struct	Steiger	ZAUA	294	(1958)	1
DT	Tritium deuteride	-	-	Thermo	Jones	JCP	17	(1949)	1062
DTO	Water-d_1,t_1	-	-	Thermo	Friedman	PR	94	(1954)	1423
		700-7000	G	Freq, Assign	Staats	JCP	24	(1956)	916
DTS	Hydrogen sulphide-d_1,t_1	-	-	Thermo	Haar	PR	99	(1955)	638
DT_2N	Ammonia-d_1,t_2	-	-	Thermo, Freq	Thyagarajan	JMS	5	(1960)	307
DT_2P	Phosphine-d_1,t_2	-	-	Thermo, Freq	Thyagarajan	JMS	5	(1960)	307
DT_2As	Arsine-d_1,t_2	-	-	Thermo, Freq	Thyagarajan	JMS	5	(1960)	307
DBr	Hydrobromic acid-d_1	0.1 μ	G	Microwave	Gordy	PR	93	(1954)	419
		45-170 μ	G	Freq, Mol. Const.	Palik	JCP	23	(1955)	217
		0.93-1.18	G	Dipole moment	Burrus	JCP	31	(1957)	1270
		-	G	Spec, Mol. Const.	Mould	SA	16	(1960)	479
DBr^{79}	Hydrobromic acid-d_1 (isotopic)	1850-3650	G	Mol. Const., Spec	Keller	PR	91	(1953)	235
		-	-	Freq, Mol. Const.	Cowan	PR	111	(1958)	209
DBr^{81}	Hydrobromic acid-d_1 (isotopic)	1850-3650	G	Mol. Const., Spec	Keller	PR	91	(1953)	235
		-	-	Freq, Mol. Const.	Cowan	PR	111	(1958)	209
DBr_3Si	Tribromosilane-d_1	-	-	Anal	Halverson	RMP	19	(1947)	87
DCl	Hydrogen chloride-d_1	-	-	Quant. Mech.	Bell	TFS	32	(1936)	1013
		2.5-9 μ	Sol	Spec	Williams	JACS	59	(1937)	319

		1940–2000	S	Speo	Lee	PRS	176 (1940)	493
		–	S	H bond	Sutherland	TFS	36 (1940)	889
		2700	S	Isotopic dilution teohnique	Hiebert	JCP	20 (1952)	918
		40–140 μ	S	Freq	Hansler	JCP	21 (1953)	1340
		2–25 μ	Sol	Spec	Falk	CJC	35 (1957)	1195
		0.93–1.5 μ	G	Dipole moment	Burrus	JCP	31 (1959)	1270
		–	–	I, Band study	Herman	JCP	32 (1960)	1393
		1800–2200	–	Spec, Mol. Const.	Mould	SA	16 (1960)	479
DCl^{35}	Hydrogen Chloride-d_1 (isotopic)	4.8 μ	G	Speo	Hardy	PR	42 (1932)	279
		5 μ	G	Speo, Anal	Pickworth	PRS	218 (1953)	37
		–	–	I	Herman	PR	98 (1955)	1550
		1.6–2.4 μ	G	Spec, Freq, Anal	VanHome	JCP	25 (1956)	56
		–	G	Mol. Const., Spec	Cowan	PR	111 (1958)	209
		1000–3400	G	Speo, Mol. Const.	Stull	JOSA	50 (1960)	1279
DCl^{37}	Hydrogen chloride-d_1 (isotopic)	4.8 μ	G	Speo	Hardy	PR	42 (1932)	279
		5 μ	G	Speo, Anal	Pickworth	PRS	218 (1953)	37
		–	–	I	Herman	PR	98 (1955)	1550
		1.6–2.4 μ	G	Speo, Freq, Anal	VanHorne	JCP	25 (1956)	56
		–	G	Mol. Const., Spec	Cowan	PR	111 (1958)	209
		1000–3400	G	Speo, Mol. Const.	Stull	JOSA	50 (1960)	1279
DClO	Hydrogen hypochlorite-d_1	1–15 μ	G	Speo, Assign	Hedberg	JCP	19 (1951)	508
DCl_2N	Dichloramine-d_1	1.4–25 μ	G	Mol. Const., Assign	Moore	JACS	74 (1952)	6076
DCl_3Si	Trichlorosilane-d_1	–	–	Anal	Halverson	RMP	19 (1947)	87
DF	Hydrogen fluoride-d_1	2900–5700	G	Mol. Const.	Talley	PR	77 (1950)	529
DF_3Si	Trifluorosilane-d_1	–	G	Microwave	Heath	TFS	50 (1954)	779
		275–1725	G	Spec, Anal	Newman	SA	10 (1959)	793
DI	Deuterium iodide	0.1–0.2 μ	G	Microwave	Burrus	PR	92 (1953)	1437
		45–170 μ	G	Freq, Mol. Const.	Palik	JCP	23 (1955)	217
		1500–1700	G	Spec, Mol. Const.	Jones	JMS	1 (1957)	179
		0.11–0.26 μ	G	Spec, Mol. Const.	Burns	JCP	28 (1958)	427
		0.093–0.15 μ	G	Stark effect	Burrus	JCP	31 (1959)	1270

DI^{127}	Deuterium iodide (isotopic)	-	G	Spec, Mol. Const.	Cowan	PR	111 (1958)	209
DIO_3	Iodic acid-d_1	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429
DNO_3	Nitric acid-d_1	700-3000	G	Spec, Freq, Thermo	Cohn	JCS	- (1952)	4272
		-	G	Thermo	Palm	JCP	23 (1955)	1562
		8000-35000 Mc/sec	G	Mol. Const., Assign	Millen	JCS	- (1960)	1523
DN_3	Hydrazoic acid-d_1	400-3500	G,S	Spec, Anal, Assign	Dows	JCP	23 (1955)	1258
DN_3^{14}	Hydrazoic acid-d_1 (isotopic)	2000-2500	Sol	Spec, H bond	Buswell	JACS	61 (1939)	2809
		-	-	Microwave, Struct	Amble	JCP	18 (1950)	1422
DO	Hydroxy-d-radical	-	-	Microwave	Dousmanis	PR	100 (1955)	1735
		-	-	Thermo	Haar	JCP	23 (1955)	869
DS	Sulfur deuteride radical	-	-	Thermo	Haar	JCP	23 (1955)	869
D_2	Deuterium	-	-	Thermo	Johnston	JCP	2 (1934)	389
		-	G	Anal, Mol. Const.	Dieke	PR	47 (1935)	261
		-	-	Thermo	Hulburt	JCP	9 (1941)	61
		-	-	FC	Glockler	JCP	10 (1942)	686
		-	-	Anal	Halverson	RMP	19 (1947)	87
		1-2μ	G	Spec	Proto	JOSA	45 (1955)	447
		-	-	Potential function	Beckel	JCP	24 (1956)	553
D_2IN	Ammonia-d_2-t_1	-	-	Freq, Thermo	Thyagarajan	JMS	5 (1960)	307
D_2IP	Phosphine-d_2-t_1	-	-	Freq, Thermo	Thyagarajan	JMS	5 (1960)	307
D_2TAs	Arsine-d_2-t_1	-	-	Freq, Thermo	Thyagarajan	JMS	5 (1960)	307
$D_2F_2Si^{28}$	Difluorosilane-d_2 (isotopic)	12000-38000 Mc/Sec	G	Struct	Laurie	JCP	26 (1957)	1359
$D_2F_2Si^{29}$	Difluorosilane-d_2 (isotopic)	12000-38000 Mc/Sec	G	Struct	Laurie	JCP	26 (1957)	1359

$D_2F_2Si^{30}$	Difluorosilane-d_2 (isotopic)	12000-38000 Mc/Sec	G	Struct	Laurie	JCP	26 (1957)	1359
D_2O	Water-d_2	-	-	Freq	Bonner	PR	46 (1934)	458
		1-7 μ	L	Spec	Casselman	PR	45 (1934)	221
		1-10 μ	-	Assign	Ellis	JCP	2 (1934)	559
		-	-	Spec	Rank	JCP	2 (1934)	464
		1075-2900	-	Spec, Assign	Barker	JCP	3 (1935)	660
		15-150 μ	L	Struct	Cartwright	PR	49 (1936)	470
		52-152 μ	L,Sol	Transmission	Cartwright	PRS	154 (1936)	138
		1.5-2.91 μ	G	Band study	Norris	PR	49 (1936)	272
		-	-	FC	Penney	PRS	156 (1936)	654
		2.6-6.6 μ	L	Spec	Plyler	JCP	4 (1936)	157
		-	L,S	Struct	Cross	JACS	59 (1937)	1134
		1.2-2.1 μ	L	Spec, Assign	Kellner	PRS	159 (1937)	410
		-	-	Theoretical	King	JCP	5 (1937)	405
		-	-	Quant. Mech.	King	JCP	5 (1937)	413
		2-9 μ	L	Spec	Williams	JACS	59 (1937)	319
		2.6-3.8 μ	Sol	Spec	Borst	JCP	6 (1938)	61
		-	-	Spec	Ellis	JCP	6 (1938)	723
		1.985 μ	L,G	Rotation in solution	Ellis	PR	54 (1938)	599
		3.3-6.1 μ	Sol,L	Spec, H bond	Gordy	JACS	60 (1938)	605
		3-12 μ	L	Bond study	Gordy	PR	53 (1938)	851
		3.76-4.18 μ	L,Sol	Band study	Gordy	JCP	7 (1939)	93
		23-135 μ	G	Spec, Anal	Fuson	PR	56 (1939)	982
		31-38 μ	-	Spec	Randall	JAP	10 (1939)	768
		-	L	Association	Shearin	PR	56 (1939)	845
		-	-	Vibration-rotation theory	Darling	PR	57 (1940)	128
		-	-	Solvent effect on band	Gordy	JCP	9 (1941)	215
		-	-	Quant. Mech.	Shatter	JCP	10 (1942)	405
		-	-	Ratio rule	Noether	JCP	11 (1943)	97
		-	-	Quant. mech.	Shatter	JCP	12 (1944)	504
		-	-	Quant. Mech., FC, Freq	Glockler	JCP	13 (1945)	388
		12138-2787	G	Freq	Dickey	PR	70 (1946)	109
		-	-	Anal	Halverson	RMP	19 (1947)	87
		1.5-24 μ	L	Vibrations	Johnson	PR	72 (1947)	158
		8.5 μ	-	Moment of inertia	King	JCP	15 (1947)	85
		-	-	Microwave	King	PR	71 (1947)	433
		-	G	Spec	Dickey	PR	73 (1948)	1164
		-	-	Rotational levels	Ginsburg	PR	74 (1948)	1052

		-	-	Vibration theory	Heath	TFS	44	(1948)	556
		-	-	Centrifugal stretching	Benedict	PR	75	(1949)	1317
		400-4000	L	Spec	Gore	AC	21	(1949)	382
		-	-	Quant. Mech.	Torkington	JCP	17	(1949)	357
		3.7μ	G	Spec	Chapman	PR	78	(1950)	74
		-	-	FC	Heath	TFS	46	(1950)	137
		-	-	Anal	Brown	AC	23	(1951)	673
		2787-5373	G	Spec	Innes	JCP	19	(1951)	1086
		6533	G	Freq	Dickey	JCP	20	(1952)	375
		1.25-4.2μ	G	Spec	Benedict	JCP	21	(1953)	1301
		600-2000	L	Spec	Blout	JOSA	43	(1953)	1093
		-	-	Microwave	Jen	JCP	21	(1953)	520
		2200-2750	L	Spec	Pimentel	JACS	75	(1953)	803
		-	L	Anal	Trenner	APS	7	(1953)	166
		-	S	Thermo	Blue	JCP	22	(1954)	280
		2-14μ	L	Spec	Ehrlich	JACS	76	(1954)	5263
		-	-	Thermo	Friedman	PR	94	(1954)	1423
		-	L	Anal	Gaunt	JSI	31	(1954)	315
		-	-	Freq	Jones	JCP	22	(1954)	217
		-	Sol	Anal	Patterson	AC	26	(1954)	1391
		-	-	Centrigugal distortion theory	Posener	PR	95	(1954)	374
		56-67μ	-	Spec	Randall	JOSA	44	(1954)	97
		-	-	Anal	Trenner	JACS	76	(1954)	1196
		1180	G	Anal, Spec	Dickey	JCP	23	(1955)	1718
		-	-	Freq	Slowinski	JCP	23	(1955)	1933
		1.25-4.1μ	G	Spec, Mol. Const.	Benedict	JCP	24	(1956)	1139
		-	Sol	Anal	Pollock	PRS	235	(1956)	149
		-	-	FC	Smith	TFS	52	(1956)	891
		4μ	-	D content of water	Ward	TFS	53	(1957)	1406
		-	-	Zero point energy	Whalley	TFS	53	(1957)	1578
		3350-3800	Sol	Band shift	Saumagne	BSCF	-	(1958)	813
		1000-7000	Sol	Freq	Haas	JCP	32	(1960)	1763
D_2O^{18}	Water-d_2 (isotopic)	1100-3700	G,L	Freq, Assign	Pinchas	JCP	31	(1959)	1692
D_2O_2	Deuterium peroxide	400-3800	L	Freq, Assign	Taylor	JCP	18	(1950)	898
		-	G	FC, Freq	Giguere	JPC	56	(1952)	340
		-	G	Microwave, Freq	Massey	JMS	5	(1960)	405
D_2S	Hydrogen sulfide-d_2	1-15μ	G	Freq assign	Bailey	JCP	4	(1936)	625
		1.5-12μ	G	Spec, Freq assign	Nielsen	JCP	5	(1937)	277

		–	–	Ratio rule	Noether	JCP	11 (1943)	97
		–	–	Quant. Mech.	Glockler	JCP	13 (1945)	388
		–	–	Anal	Halverson	RMP	19 (1947)	87
		–	–	FC	Heath	TFS	46 (1950)	137
		840-1860	S	Spec	Lohman	JCP	19 (1951)	252
		4535-4637	G	Spec, Assign	Allen	JRNB	53 (1954)	321
		–	–	Thermo.	Haar	PR	99 (1955)	638
		–	–	FC	Smith	TFS	52 (1956)	891
		3.6-5 μ	G	Assign	Allen	JRNB	59 (1957)	211
		800-2000	–	Spec, Freq	Reding	JCP	27 (1957)	1024
		15-170 μ	–	Spec, Bond study	Burnside	DA	19 (1959)	3329
D_2O_4S	Sulfuric acid-d_2	2-6.2 μ	Sol	Spec	Williams	JACS	59 (1937)	319
D_2Se	Hydrogen selenide-d_2	760-1700	–	Struct	Sears	PR	53 (1938)	330
		4-12 μ	G	Spec, Freq assign	Cameron	JCP	7 (1939)	994
		–	–	Ratio rule	Noether	JCP	11 (1943)	97
		–	–	Anal	Halverson	RMP	19 (1947)	87
		–	–	FC	Heath	TFS	46 (1950)	137
		–	–	FC	Slowinski	JCP	23 (1955)	1923
		–	–	FC	Smith	TFS	52 (1956)	891
		680-820	G	Assign, Mol. Const.	Palik	JMS	3 (1959)	259
D_3ClO	Oxonium chloride-d_3	500-4000	S	Assign	Ferriso	JCP	23 (1955)	1464
D_3ClSi	Monochlorosilane-d_3	667-3000	G	Freq, FC	Anderson	ACS	8 (1954)	738
		–	G	Freq	Bak	ACS	8 (1954)	367
		400-1700	G	Spec	Newman	SA	15 (1959)	793
D_3FSi	Monofluorosilane-d_3	667-3000	G	Freq, FC	Anderson	ACS	8 (1954)	738
		–	G	Freq	Bak	ACS	8 (1954)	367
		–	–	Struct	Newman	JCP	25 (1956)	855
		300-1700	G	Spec	Newman	SA	15 (1959)	793
D_3ISi	Monoiodosilane-d_3	300-4000	G	Spec, Assign, FC, Freq	Linton	SA	12 (1958)	41
		300-4000	–	Assign, Mol. Const.	Linton	DA	19 (1958)	687
D_3N	Ammonia-d_3	–	–	Assign	Silverman	PR	44 (1933)	1032
		40-170 μ	G	Spec	Barnes	PR	47 (1935)	658
		–	–	Freq	Howard	JCP	3 (1935)	207
		–	–	Rotational spacing	Johnston	PR	48 (1935)	868
		–	–	Double minima	Mauning	JCP	3 (1935)	136

		-	-	Quant. Mech.	Wilson	JCP	3 (1935)	276
		550-1300	G	Spec, Anal	Migoette	PR	50 (1936)	418
		-	-	Quant. Mech.	Wall	JCP	5 (1937)	314
		-	-	Freq	Lee	TFS	35 (1939)	1366
		-	-	Quant. Mech.	Slawsky	JCP	7 (1939)	509
		-	-	Struct	Sutherland	TFS	35 (1939)	137
		-	-	Freq	Dennison	RMP	12 (1940)	175
		-	-	Ratio rule	Edgell	JCP	13 (1945)	539
		-	-	Anal	Halverson	RMP	19 (1947)	87
		-	-	Theoretical	Burgess	PR	76 (1949)	1267
		-	-	FC	Heath	TFS	46 (1950)	137
		819-2502	S	Freq	Hornig	PR	78 (1950)	348
		300-5000	S	Spec, Assign, FC	Reding	JCP	19 (1951)	594
		-	-	Theoretical	Bigeleisen	JCP	20 (1952)	1495
		733-982	G	Anal	Stedman	JCP	20 (1952)	718
		-	G	Microwave	Nuckolls	PR	89 (1953)	1101
		-	G	Freq, Mol. Const.	Stroup	JCP	21 (1953)	2072
		-	S	Spec, Assign	Reding	JCP	22 (1954)	1926
		-	-	Freq	Weston	JACS	76 (1954)	2645
		800-3500	S	Spec, Assign	Reding	JCP	23 (1955)	1053
		-	-	Vibration rotation	Meal	JCP	24 (1956)	1126
		1750-7100	G	Spec, Mol. Const.	Benedict	CJP	35 (1957)	1253
		0.097μ	G	Mol. Const.	Erlandsson	PR	106 (1957)	513
		2-15μ	S	Spec	Staats	JCP	31 (1959)	553
		-	G	Spec, Mol. Const.	Stroup	DA	20 (1959)	336
D_3N^{14}	Ammonia-d_3 (isotopic)	1500-1620 Mc/sec	-	Spec, Struct	Herrman	JCP	29 (1958)	875
D_3NO	Hydroxylamine-d_3	-	S	Anal	Nightingale	JACS	75 (1953)	4092
		500-4000	S	Spec, Assign, Struct	Nightingale	JCP	22 (1954)	203
D_3NO_3S	Sulphamic acid-d_3	500-4000	S	Assign	Vuagnat	JCP	26 (1957)	77
D_3O_3B	Boric acid-d_3	500-3600	S	Spec, Assign, Struct	Bethell	TFS	51 (1955)	9
		250-4000	-	Spec, Freq, Assign	Goubeau	ZPC	20 (1959)	15
D_3O_4P	Orthophosphoric acid-d_3	2-6.2μ	Sol	Spec	Williams	JACS	59 (1937)	319
$D_3O_6B_3$	Metaboric acid-d_3	250-4000	-	Spec, Assign	Goubeau	ZPC	20 (1959)	15
		430-4000	S	Assign	Parsons	JCP	33 (1960)	1860

D_3P	Phosphine-d_3	500–2500	G	Spec, FC	Lee	TFS	35 (1939)	1366
		–	–	Struct	Sutherland	TFS	35 (1939)	1373
		–	–	Anal	Halverson	RMP	19 (1947)	87
		–	–	FC	Heath	TFS	46 (1950)	137
		–	–	Freq, FC	Weston	JCP	20 (1952)	1820
		–	G	Mol. Const.	Stroup	JOSA	43 (1953)	1096
		0.1–0.2 μ	G	Microwave	Burnes	PR	95 (1954)	706
		–	G	Spec, Mol. Const.	Stroup	DA	20 (1959)	336
D_3As	Arsine-d_3	500–2500	G	Spec, FC	Lee	TFS	35 (1939)	1366
		–	–	Struct	Sutherland	TFS	35 (1939)	1373
		–	–	Anal	Halverson	RMP	19 (1947)	87
		–	–	Spec	McConaghie	PR	73 (1948)	1250
		1523–2116	G	Anal	McConaghie	PR	75 (1949)	633
		–	–	FC	Heath	TFS	46 (1950)	137
		–	–	FC	Costain	JPC	56 (1952)	321
		50–90 KMc/sec	G	Spec, Mol. Const.	Stroup	JOSA	43 (1953)	1096
		–	G	Spec, Mol. Const.	Stroup	DA	20 (1959)	336
D_3As^{75}	Arsine-d_3 (isotopic)	–	–	Microwave	Blevins	PR	97 (1955)	684
D_4BrN	Ammonium bromide-d_4	3–10 μ	S	Spec, Assign	Wagner	JCP	18 (1950)	305
		–	S	Band study	Plumb	JCP	23 (1955)	947
D_4ClN	Ammonium chloride-d_4	–	–	Anal	Wagner	JCP	17 (1949)	105
		3–10 μ	S	Spec, Assign	Wagner	JCP	18 (1950)	296
		–	S	Band width	Plumb	JCP	23 (1955)	947
		–	–	Vibration	Marshall	TFS	52 (1956)	19
D_4FN	Ammouium fluoride-d_4	–	S	Spec, Assign, Struct	Plumb	JCP	23 (1955)	947
D_4IP	Phosphonium iodide-d_4	400–4000	Sol	Spec, Assign	Martinez	JCP	27 (1957)	1110
D_4N	Ammonium ion-d_4	–	–	FC	Pistorius	JCP	27 (1957)	965
D_4B^{10}	Borohydride ion-d_4 (isotopic)	3000	Sol	Spec, NCA, Assign	Emery	JCP	28 (1958)	1029
D_4B^{11}	Borohydride ion-d_4 (isotopic)	3000	Sol	Spec, NCA, Assign	Emery	JCP	28 (1958)	1029

D_4Si	Silane-d_4	2-16 μ	G	Spec, Assign, FC	Meal	JCP	24 (1956)	385
D_5BrN_2	Hydrazinebromide-d_5	400-3500	S	Spec, H bond	Decius	JACS	75 (1953)	2436
D_5ClN_2	Hydrazinechloride-d_5	670-3500	S	Spec, H bond	Decius	JACS	75 (1953)	2436
D_6NO_4P	Ammonium dihydrogen phosphate-d_6	700-3300	S	Quant. Mech.	Blinc	MP	1 (1958)	391
D_6N_2	Hydrazine ion-d_6	-	-	FC	Linnett	TFS	41 (1945)	223
D_6OSi	Disiloxane-d_6	640-5000	G,L	Freq assign, Spec	Lord	JACS	78 (1956)	1327
D_6SSi_2	Disilylsulfide-d_6	200-4000	-	Mol. Const.	Linton	DA	19 (1958)	687
		350-3150	S,G	Spec, Freq assign	Linton	JCP	29 (1958)	921
		400-4000	G	Spec, Struct	Ebsworth	TFS	55 (1959)	211
D_6B_2	Diborane-d_6	2-15 μ	G	Spec, Assign	Webb	JCP	17 (1949)	1007
		974	G	Exchange study	Maybury	JCP	21 (1953)	742
		-	-	Assign, Thermo	Shepp	JACS	76 (1954)	265
		5-14 μ	G	Exchange reaction	Kaufman	JCP	24 (1956)	403
		-	-	Freq	Simpson	JCP	24 (1956)	1108
		2-15 μ	G	Spec	Lehman	JCP	29 (1958)	1248
$D_6B_2^{10}$	Diborane-d_6 (isotopic)	250-3800	L,G	Spec, Assign	Lord	JCP	19 (1951)	1
D_6Si_2	Disilane-d_6	200-3200	G	Spec, Assign	Bethke	JCP	26 (1957)	1107
D_9NSi_3	Trisilylamine-d_9	400-4000	G	Freq assign, FC	Ebsworth	SA	13 (1958)	202
		60-4000	G	Freq assign, Spec	Robinson	JACS	80 (1958)	5924
D_9B_5	Pentaborane-d_9	-	G	Microwave	Hrostowski	JCP	22 (1954)	262
		430-2600	G	Spec, I, Assign	Hrostowski	JACS	76 (1954)	998
$D_{12}N_2Si_4$	Tetrasilyl hydrazine-d_{12}	400-500	G,S	Spec, Freq, Config	Aylett	SA	16 (1960)	747
TBr	Tritium bromide	-	-	Microwave	Rosenblum	PR	97 (1955)	84
		1400-1600	G	Spec, Anal	Jones	JCP	24 (1956)	1246

TBr^{79}	Tritium bromide (isotopic)	0.136-0.174 μ	G	Microwave	Burnes	PR	97 (1955)	1661
TBr^{81}	Tritium bromide (isotopic)	0.136-0.174 μ	G	Microwave	Burnes	PR	97 (1955)	1661
TCl^{35}	Tritium chloride (isotopic)	-	G	Microwave	Burnes	PR	97 (1955)	1661
		1600-1850	G	Spec	Jones	JCP	24 (1956)	1246
TCl^{37}	Tritium chloride (isotopic)	-	G	Microwave	Burrus	PR	97 (1955)	1661
		1600-1850	G	Spec	Jones	JCP	24 (1956)	1246
TF	Tritium fluoride	2200-5000	G	Spec, FC, Mol. Const.	Jones	JMS	1 (1957)	43
TO	Hydroxy-t_1 radical	-	-	Thermo.	Haar	JCP	23 (1955)	869
TS	Sulfur tritium radical	-	-	Thermo.	Haar	JCP	23 (1955)	869
T_2	Tritium	-	-	Thermo.	Jones	JCP	16 (1948)	1077
		-	-	Potential function	Beckel	JCP	24 (1956)	553
T_2O	Water-t_2	-	-	Thermo.	Friedman	PR	94 (1954)	1423
		700-7000	G	Freq assign	Staats	JCP	24 (1956)	916
T_2S	Tritium sulfide	-	-	Thermo.	Haar	PR	99 (1955)	638
T_3N	Ammonia-t_3	-	-	Mol. Const., Thermo.	Sundaram	JMS	5 (1960)	61
T_3P	Phosphine-t_3	-	-	Mol. Const., Thermo.	Sundaram	JMS	5 (1960)	61
T_3As	Arsine-t_3	-	-	Mol. Const., Thermo.	Sundaram	JMS	5 (1960)	61
T_4ClN	Ammonium chloride-t_4	800-3000	L	Ident, Freq	Morgan	JCP	27 (1957)	1212
BrCl	Bromine chloride	1.5-16 μ	L	Spec	Marvin	PR	34 (1912)	161
		-	-	Freq	Clark	TFS	33 (1937)	1390
		439.5	G	Freq	Mattraw	JCP	22 (1954)	1117
		439.5	G	I	Brooks	JCP	23 (1955)	363
		-	-	Thermo.	Baughan	TFS	53 (1957)	1046

$Br^{79}Cl^{35}$	Chlorine bromide (isotopic)	-	-	Microwave	Smith	PR	79 (1950)	1007
$Br^{81}Cl^{35}$	Chlorine bromide (isotopic)	-	-	Microwave	Smith	PR	79 (1950)	1007
$Br^{81}Cl^{37}$	Chlorine bromide (isotopic)	-	-	Microwave	Smith	PR	79 (1950)	1007
$Br^{79}Cl^{37}$	Chlorine bromide (isotopic)	-	-	Microwave	Smith	PR	79 (1950)	1007
$BrCl_2P$	Phosphorous dichloride bromide	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
$BrCl_2B^{10}$	Boron bromide dichloride (isotopic)	300-3000	G	Spec	Lindeman	JCP	24 (1956)	242
$BrCl_2B^{11}$	Boron bromide dichloride (isotopic)	300-3000	G	Spec	Lindeman	JCP	24 (1956)	242
BrF	Bromine fluoride	- 350-1400	- G	Freq Spec	Clark Stein	TFS JACS	33 (1937) 81 (1959)	1390 1273
$Br^{79}F$	Bromine fluoride (isotopic)	-	G	Microwave	Smith	PR	77 (1950)	420
$Br^{81}F$	Bromine fluoride (isotopic)	-	G	Microwave	Smith	PR	77 (1950)	420
$BrFO_2S$	Sulfuryl bromo fluoride	2-38 μ	G	Freq	Crow	SA	12 (1958)	143
BrF_2B^{10}	Boron bromide difluoride (isotopic)	300-3000	G	Spec	Lindeman	JCP	24 (1956)	242

BrF_2B^{11}	Boron bromide difluoride (isotopic)	300-3000	G	Spec	Lindeman	JCP	24 (1956)	242
BrF_3	Bromine trifluoride	2.5-9.5μ	G,L	Freq	Haendler	JCP	22 (1954)	1939
		400-1100	G	Spec	Claassen	JCP	28 (1958)	285
		400-1400	G	Spec	Stein	JACS	81 (1959)	1273
$Br^{79}F_3Si^{28}$	Trifluoro bromo silane (isotopic)	-	G	Microwave	Sheridan	PR	77 (1950)	719
$Br^{81}F_3Si^{28}$	Trifluoro bromo silane (isotopic)	-	G	Microwave	Sheridan	PR	77 (1950)	719
BrF_5	Bromine pentafluoride	400-700	L,G	Spec	Burke	JCP	19 (1951)	1611
		-	-	Spec	Stephenson	JCP	20 (1952)	1830
		2-25μ	G	Spec	Akers	PR	95 (1954)	300
		2.5-9.5μ	G,L	Freq	Haendler	JCP	22 (1954)	1939
		-	-	Struct	Mellish	TFS	51 (1955)	1311
		350-1400	G	Spec	Stein	JACS	81 (1959)	1273
BrI	Iodine monobromide	-	G	Thermo	Badger	PR	37 (1931)	1548
		-	G	Anal	Brown	PR	42 (1932)	355
		-	-	Coupling	Mulliken	PR	46 (1934)	549
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	FC	Baughan	TFS	53 (1957)	1046
		-	G	Spec	Jaseja	JMS	5 (1960)	445
		-	G	Struct	Selin	NWS	47 (1960)	104
BrNO	Nitrosyl bromide	400-5303	G	Spec	Burns	JCP	18 (1950)	1669
		-	-	Freq	Woltz	JCP	20 (1952)	378
		-	-	Group freq	Jander	JCS	- (1954)	919
		-	G,Sol	Group freq	O'Sullivan	JCS	- (1957)	4144
$Br^{79}NO$	Nitrosyl bromide (isotopic)	-	G	Microwave	Williams	PR	98 (1955)	1159
$Br^{81}NO$	Nitrosyl bromide (isotopic)	-	G	Microwave	Williams	PR	98 (1955)	1159
BrO	Bromine monoxide	2600-3100	G	Spec	Durie	CJP	36 (1958)	35

BrO_3^-	Bromate ion	-	L	FC	Shen	PR	51 (1937)	235
Br_2	Bromine	0.93-137 μ	-	Spec	Kiess	JRNB	4 (1930)	667
		-	-	FC	Lochte	TFS	28 (1932)	698
		-	-	Thermo	Gordon	JCP	1 (1933)	297
		-	-	Thermo	Gordon	JCP	1 (1933)	692
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Coupling theory	Mulliken	PR	46 (1934)	549
		-	-	FC	Pekeris	PR	45 (1934)	98
		-	-	FC	Badger	PR	48 (1935)	284
		-	-	Morse eqn	Aston	JCP	4 (1936)	474
		-	-	Quant. Mech.	Mulliken	JCP	4 (1936)	620
		-	-	Freq	Clark	TFS	33 (1937)	1394
		-	-	Freq	Clark	TFS	33 (1937)	1398
		-	G	Freq	Darbyshire	PRS	159 (1937)	93
		-	-	Theory	Mulliken	JCP	7 (1939)	20
		-	-	Quant. Mech.	Mulliken	JCP	8 (1940)	234
		-	-	Quant. Mech.	Mulliken	JCP	8 (1940)	382
		-	-	Electronic transition	Mulliken	PR	57 (1940)	500
		-	-	FC	Sutherland	JCP	8 (1940)	161
		-	-	Thermo	Hulburt	JCP	9 (1941)	61
		-	-	FC	Linnett	TFS	38 (1942)	1
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Freq	Huggins	JACS	75 (1953)	4126
		1200-1800	Sol	Bond dist	Ketelaar	JCP	23 (1955)	749
		-	-	Thermo	Baughan	TFS	53 (1957)	1046
		275-350	Sol	Spec	Person	JCP	27 (1957)	1211
		-	-	Reaction	Morcillo	ARS	55B (1959)	629
Br_2ClP	Phosphorous chloride dibromide	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
Br_2ClB^{10}	Boron dibromide chloride (isotopic)	300-3000	G	Spec	Lindeman	JCP	24 (1956)	242
Br_2ClB^{11}	Boron dibromide chloride (isotopic)	300-3000	G	Spec	Lindeman	JCP	24 (1956)	242
Br_2FB^{10}	Boron dibromide fluoride (isotopic)	300-3000	G	Spec	Lindeman	JCP	24 (1956)	242
Br_2FB^{11}	Boron dibromide fluoride (isotopic)	300-3000	G	Spec	Lindeman	JCP	24 (1956)	242

Br_2S_2	Sulfur monobromide	-	-	Freq, Assign	Hooge	RTC	77 (1958)	902
Br_3OP	Phosphoryl tribromide	2-21 μ	S	Spec	Daasch	AC	23 (1951)	853
		-	-	Freq	Daasch	JCP	19 (1951)	22
		-	-	Group freq	Bell	JACS	76 (1954)	5185
		1100-1300	S	Band freq	Sheldon	JACS	80 (1958)	4775
Br_3P	Phosphorous tribromide	-	-	Freq	Howard	JCP	2 (1934)	630
		-	-	Thermo	Stevenson	JCP	9 (1941)	403
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Freq	Daasch	JCP	19 (1951)	22
		-	-	Freq	Weston	JACS	76 (1954)	2645
		1500-2100	Sol	Transition	Ketelaar	JCP	23 (1955)	1549
		-	-	Freq	Hahn	JCP	24 (1956)	921
		85-550	L	Assign	Davies	JMS	2 (1958)	253
Br_3SP	Thiophosphoryl bromide	-	-	Freq	Daasch	JCP	19 (1951)	22
Br_3B	Boron tribromide	-	-	Thermo	Anderson	JCP	4 (1936)	703
		-	-	Assign	Spencer	JCP	14 (1946)	729
		-	-	Force field	Heath	TFS	44 (1948)	873
		-	-	Force field	Linnett	TFS	48 (1952)	592
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2368
		2-24 μ	G,L, Sol	Spec, Freq	Wentink	JCP	28 (1958)	826
Br_3B^{10}	Boron tribromide (isotopic)	300-3000	G	Spec	Lindeman	JCP	24 (1956)	242
Br_3B^{11}	Boron tribromide (isotopic)	300-3000	G	Spec	Lindeman	JCP	24 (1956)	242
Br_4Si	Silicon tetrabromide	-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Force field	Heath	TFS	44 (1948)	561
		-	-	Force field	Heath	TFS	44 (1948)	878
		-	-	FC, Freq	Simanouti	JCP	17 (1949)	848
		-	-	Force field	Linnett	TFS	48 (1952)	592
		-	-	FC	Gaunt	TFS	50 (1954)	546
		-	-	FC	Murata	JCP	23 (1955)	2451
		-	-	FC	Pistorius	JCP	28 (1958)	514

$Br_6N_3P_3$	Trimeric phospho-nitrilic bromide	1150-1350	-	Freq	Shaw	CIL	- (1959)	54
$Br_8N_4P_4$	Tetrameric phospho-nitrilic bromide	1150-1350	-	Freq	Shaw	CIL	- (1959)	54
ClF	Chlorine fluoride	-	-	Freq	Clark	TFS	33 (1937)	1390
		-	-	Thermo	Parkinson	PR	76 (1949)	199
		2-15 μ	-	Spec	Potter	JCP	17 (1949)	957
		2-15 μ	G,L	Spec	Jones	JCP	18 (1950)	235
		-	-	FC	Baughan	TFS	53 (1957)	1046
$Cl^{35}F$	Chlorine monofluoride (isotopic)	-	G	Microwave	Gilbert	PR	76 (1949)	1723
$Cl^{37}F$	Chlorine monofluoride (isotopic)	-	G	Microwave	Gilbert	PR	76 (1949)	1723
$Cl^{35}F^{19}$	Chlorine monofluoride (isotopic)	725-1550	G	Spec	Nielsen	JCP	19 (1951)	1117
$Cl^{37}F^{19}$	Chlorine monofluoride (isotopic)	725-1550	G	Spec	Nielsen	JCP	19 (1951)	1117
$ClFO_3$	Perchloryl fluoride	600-3000	-	Spec	Engelbrecht	JINC	2 (1956)	348
$Cl^{35}F_2OP$	Phosphoryl difluoro chloride (isotopic)	-	G	Spec	Goll	DA	19 (1959)	1930
$Cl^{37}F_2OP$	Phosphoryl difluoro chloride (isotopic)	-	G	Spec	Goll	DA	19 (1959)	1930
ClF_2B^{10}	Boron chloride difluoride (isotopic)	300-3000	G	Spec	Lindeman	JCP	24 (1956)	242
ClF_2B^{11}	Boron chloride difluoride (isotopic)	300-3000	G	Spec	Lindeman	JCP	24 (1956)	242

ClF_3	Chlorine trifluoride	2-25 μ	G	Spec	Jones	JCP	17 (1949)	501
		-	-	Thermo	Weber	JCP	20 (1952)	1497
		2-5 μ	G	Complex study	Pemsler	JCP	22 (1954)	1834
		300-1500	G	Spec	Claassen	JCP	28 (1958)	285
$Cl^{35}F_3$	Chlorine trifluoride (isotopic)	-	G	Microwave	Smith	JCP	21 (1953)	609
$Cl^{37}F_3$	Chlorine trifluoride (isotopic)	-	G	Microwave	Smith	JCP	21 (1953)	609
ClF_3NOB	Nitrosyl chloro trifluoro borate	400-4000	S	Struct	Waddington	JCS	- (1960)	2339
$Cl^{35}F_3Si^{28}$	Trifluorochlorosilane (isotopic)	-	G	Microwave	Sheridan	PR	77 (1950)	719
$Cl^{37}F_3Si^{28}$	Trifluorochlorosilane (isotopic)	-	G	Microwave	Sheridan	PR	77 (1950)	719
ClF_3IP	Phosphorous chloride iodide trifluoride	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
ClF_3B^-	Chlorotrifluoro borate ion	400-4000	-	Struct	Waddington	JCS	- (1960)	2339
ClF_3NOB	Nitrosyl boron trifluorochloride	400-4000	-	Struct, Assign	Waddington	JCS	- (1960)	2339
ClF_5S	Sulphur chloride pentafluoride	2-20 μ	G	Spec	Cross	TFS	56 (1960)	945
		-	G	Microwave	Kewley	TFS	56 (1960)	1732
ClI	Iodine monochloride	1.5-16 μ	L	Spec	Marvin	PR	34 (1912)	161
		-	G	Spec	Darbyshire	PR	40 (1932)	366
		-	-	FC, Bond dist	Badger	JCP	2 (1934)	128
		-	-	Coupling theory	Mulliken	PR	46 (1934)	549
		-	-	Coupling constant	Pekeris	PR	45 (1934)	198
		-	-	FC, Bond dist	Badger	PR	48 (1935)	284
		-	-	I	Mulliken	PR	57 (1940)	500
		-	-	FC	Sutherland	JCP	8 (1940)	161
		-	-	Thermo	Hulburt	JCP	9 (1941)	61

		-	-	FC, Bond dist	Gordy	JCP	14 (1946)	305
		-	G	Microwave	Weidner	PR	72 (1947)	1268
		-	-	Microwave	Bardeen	PR	73 (1948)	627
		-	G	Microwave	Weidner	PR	73 (1948)	254
		-	-	Microwave	Mizushima	PR	83 (1951)	94
		-	-	Bond dist	Huggins	JACS	75 (1953)	4126
		381.5	G	I	Brooks	JCP	23 (1955)	363
		-	-	Pot func	Lippincott	JCP	23 (1955)	1131
		-	-	FC	Baughan	TFS	53 (1957)	1046
		-	-	Spec	Hulthen	AF	14 (1958)	31
		290-390	Sol	Complex	Person	JACS	80 (1958)	2049
		-	-	Study	Morcillo	ARS	- (1959)	5513
$Cl^{35}I$	Iodine monochloride	-	G	Spec	Darbyshire	PR	40 (1932)	366
	(isotopic)	-	G	Microwave	Townes	PR	73 (1948)	1334
		-	G	Microwave	Townes	PR	74 (1948)	1113
$Cl^{37}I$	Iodine monochloride	-	G	Spec	Darbyshire	PR	40 (1932)	366
	(isotopic)	-	-	Microwave	Townes	PR	73 (1948)	1334
ClNO	Nitrosyl chloride	4.64-15.8μ	-	Freq, FC	Bailey	PRS	145 (1934)	336
		-	-	Thermo	Beeson	JCP	7 (1939)	44
		400-5303	G	Spec, Assign	Burns	JCP	18 (1950)	1669
		-	-	Microwave	Pietenpol	PR	77 (1950)	741A
		594-4000	G	Freq, Assign	Wise	JCP	18 (1950)	1411
		2-25μ	G	Spec, FC	Pulford	TFS	47 (1951)	347
		1-40μ	G	Band freq, FC	Eberhardt	JCP	20 (1952)	529
		-	-	Freq	Woltz	JCP	20 (1952)	378
		5-10μ	G	Band freq	Haszeldine	JCS	- (1954)	691
		-	G	Group freq	Jander	JCS	- (1954)	919
		2-15μ	G	Spec	Pierson	AC	28 (1956)	1218
		-	G,Sol	Freq	O'Sullivan	JCS	- (1957)	4144
		-	G	Microwave	Yajima	JPS	55 (1960)	1668
$Cl^{35}NO$	Nitrosyl chloride	-	-	Microwave	Rogers	PR	83 (1951)	431
	(isotopic)	30μ	G	Spec	Eberhardt	JCP	20 (1952)	529
$Cl^{37}NO$	Nitrosyl chloride	-	-	Microwave	Rogers	PR	83 (1951)	431
	(isotopic)	30μ	G	Spec	Eberhardt	JCP	20 (1952)	529
$ClN^{14}O$	Nitrosyl chloride (isotopic)	300-6000	G	Freq	Landau	JMS	4 (1960)	276
$ClN^{15}O$	Nitrosyl chloride (isotopic)	300-6000	G	Freq	Landau	JMS	4 (1960)	276

ClNO	Nitryl chloride	2-16 μ	G	Reaction study	Ogg	JCP	18 (1950)	900
		300-4000	G	Assign, Spec	Ryason	JCP	22 (1954)	2000
		-	-	Freq, Assign	Dodd	TFS	52 (1956)	145
		-	G	Microwave	Millen	JCS	- (1958)	350
		-	-	Anal	Weatherly	JCP	30 (1959)	1328
ClO	Chlorine monoxide	-	G	Spec	Durie	CJP	36 (1958)	35
		-	-	Microwave	Jackson	PRCS	- (1959)	10
ClO_2	Chlorine dioxide	-	-	Theory	Salant	PR	42 (1932)	812
		-	-	Freq, FC	Bailey	PRS	140 (1933)	605
		1-19 μ	-	Freq, FC	Ku	PR	44 (1933)	376
		-	-	Vib	Duncan	JCP	3 (1935)	384
		-	-	Assign	Coon	JCP	14 (1946)	665
		-	-	FC	McDowell	PRS	187 (1946)	398
		-	-	Quant. Mech.	Torkington	JCP	17 (1949)	357
		1-15 μ	G	Freq, FC	Hedberg	JCP	19 (1951)	509
		-	-	Pot func	Duchesne	JCP	20 (1952)	1968
		2-40 μ	G	Spec, Assign	Nielsen	JCP	20 (1952)	1878
		-	-	Pot const	Ward	PR	96 (1954)	845
		-	-	Theory	Smith	TFS	52 (1956)	891
		-	G	Microwave	Baird	BAPS	2 (1956)	99
		-	G	Microwave	Curl	PR	121 (1961)	1119
$Cl^{35}O_2$	Chlorine dioxide (isotopic)	-	-	Vib	Duchesne	JCP	21 (1953)	2005
ClO_3^-	Chlorate ion	-	L	Spec, FC	Shen	PR	51 (1937)	235
ClO_4^-	Perchlorate ion	-	-	Freq	Taylor	TFS	25 (1929)	314
		-	-	Vib	Urey	PR	38 (1931)	1969
		-	-	Vib	Rosenthal	PR	46 (1934)	730
		-	-	Force field	Heath	TFS	44 (1948)	884
		-	-	Force field	Linnett	TFS	48 (1952)	592
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2365
		935	-	Freq	Hahn	JCP	24 (1956)	921
		-	-	FC	Pistorius	JCP	28 (1958)	514
Cl_2	Chlorine	-	-	Thermo	Urey	JACS	45 (1923)	1445
		0.4-0.97 μ	-	Spec	Kiess	JRNB	2 (1929)	1117
		-	-	Theory	Villars	JACS	52 (1930)	1733

		-	-	FC	Lochte	TFS	28	(1932)	698
		-	-	Thermo	Gordon	JCP	1	(1933)	297
		0.4-1.04μ	G	Spec	Kiess	JRNB	10	(1933)	827
		-	-	FC, Bond dist	Badger	JCP	2	(1934)	128
		-	-	Mol. Const.	Pekeris	PR	45	(1934)	98
		-	-	Quant. Mech.	Mulliken	JCP	4	(1936)	620
		-	-	Freq	Clark	TFS	33	(1937)	1394
		-	-	Freq	Clark	TFS	33	(1937)	1398
		-	-	Theory	Mulliken	JCP	7	(1939)	20
		-	-	Quant. Mech.	Mulliken	JCP	8	(1940)	234
		-	-	Quant. Mech.	Mulliken	JCP	8	(1940)	382
		-	-	I	Mulliken	PR	57	(1940)	500
		-	-	FC	Sutherland	JCP	8	(1940)	161
		-	-	Thermo	Hulbert	JCP	9	(1941)	61
		-	-	FC, Bond dist	Linnett	TFS	38	(1942)	1
		-	-	Bond dist	Gordy	JCP	14	(1946)	305
		-	-	Bond dist	Wu	PR	71	(1947)	118
		-	G	Vib.	Schwarty	JCP	20	(1952)	1591
		-	-	Bond dist	Huggins	JACS	75	(1953)	4126
		-	L	Study	Pross	CJC	32	(1954)	956
		526	Sol	Spec	Collin	JCP	23	(1955)	397
		-	-	Complex	Mulliken	JCP	23	(1955)	397
		-	Sol	Discussion	Murakami	JCP	23	(1955)	1957
		-	-	FC	Baughan	TFS	53	(1957)	1046
Cl_2FOP	Phosphoryl dichloro fluoride	-	-	Spec	Piotrowski	PR	100	(1955)	1267
Cl_2FP	Dichloro fluoro phosphine	-	-	Spec	Piotrowski	PR	100	(1955)	1267
Cl_2FPS	Thiophosphoryl dichloride fluoride	2-21μ	L	Spec	Daasch	AC	23	(1951)	853
Cl_2FB	Boron dichloro fluoride	1500	G	Spec	Nightingale	JCP	22	(1954)	1468
Cl_2FB^{11}	Boron dichloride fluoride (isotopic)	300-3000	G	Spec	Lindeman	JCP	24	(1956)	242
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Cl_2F_2P	Phosphorous dichloride trifluoride	-	-	Quant. Mech.	Wilson	JCP	22	(1954)	432

Cl_2F_3P	Phosphorous dichloride trifluoride	-	-	Quant. Mech.	Wilson	JCP	22 (1934)	432
Cl_2O	Chlorine Oxide	-	-	Thermo	Villars	JACS	52 (1930)	1733
		1-18 μ	G	Spec, FC	Bailey	PRS	142 (1933)	129
		-	-	FC	Penney	PRS	156 (1936)	654
		-	-	Assign	Sutherland	PRS	156 (1936)	678
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Quant. Mech.	Torkington	JCP	17 (1949)	357
		1-15 μ	G	Spec, FC	Hedberg	JCP	19 (1951)	509
		-	-	Struct	Torkington	JPC	56 (1952)	336
		-	-	FC	Slowinski	JCP	23 (1955)	1933
		-	-	FC, Theory	Smith	TFS	52 (1956)	891
Cl_2OS	Thionyl chloride	-	-	Mol. Const.	Villars	CR	11 (1932)	369
		1000-1500	Sol	Spec	Schreiber	AC	21 (1949)	1168
		400-5000	L,G	Spec, Freq	Martz	JCP	22 (1954)	1193
		1500-2100	Sol	Iso.	Ketelaar	JCP	23 (1955)	1549
		7-10 μ	G	Assign	Haszeldine	JCS	- (1955)	2901
		-	-	Freq	Rolfe	TFS	51 (1955)	778
Cl_2OSe	Selenium oxychloride	-	-	Freq	Rolfe	TFS	51 (1955)	778
Cl_2O_2S	Sulphuryl chloride	-	-	Quant. Mech.	Shatter	JCP	12 (1944)	494
		1000-1500	Sol	Spec	Schreiber	AC	21 (1949)	1168
		400-5000	L,G	Spec, Assign	Martz	JCP	22 (1954)	1193
		6-9 μ	G	Assign	Haszeldine	JCS	- (1955)	2901
Cl_2S	Sulphur dichloride	-	-	FC, Bond dist	Gordy	JCP	14 (1946)	305
		-	-	Thermo	McDowell	PRS	187 (1946)	398
		300-4000	-	Spec	Herndon	PR	99 (1955)	1624
		-	L	Freq	Stammreich	JCP	23 (1955)	972
		-	-	Freq, Assign	Hooge	RTC	77 (1958)	902
Cl_2S_2	Sulfur monochloride	1.5-16 μ	L	Spec	Marvin	PR	34 (1912)	161
		-	-	Freq	McDowell	PRS	187 (1946)	398
		2-25 μ	L,Sol	Spec, Assign	Bernstein	JCP	18 (1950)	1018
		-	-	Thermo	Luft	JCP	21 (1953)	2225
		1500-2100	Sol	Study	Ketelaar	JCP	23 (1955)	1549
		-	-	Freq assign	Hooge	RTC	77 (1958)	902

Cl_3F_3OPB	Phosphorous oxychloride boron trifluoride	400-4000	S,L	Struct, Assign	Waddington	JCS	- (1960)	2339
Cl_3N	Nitrogen trichloride	1.4-25μ	G	Assign	Moore	JACS	74 (1952)	6076
Cl_3OP	Phosphorous oxychloride	-	-	Thermo	Stevenson	JCP	9 (1941)	403
		2-21μ	L	Spec, Anal	Daasch	AC	23 (1951)	853
		-	-	Freq	Daasch	JCP	19 (1951)	22
		-	-	Group freq	Bell	JACS	76 (1954)	5185
		-	-	Freq	Ziomek	PR	98 (1954)	243
		-	-	Group freq	Downs	JACS	77 (1955)	2098
		-	-	Group freq	Emeleus	JCS	- (1955)	563
		1160-2998	Sol	H bond, I	Halfern	JACS	77 (1955)	4472
		1100-1300	L	Band freq	Sheldon	JACS	80 (1958)	4775
$Cl_3^{35}OP$	Phosphoryl chloride (isotopic)	-	G	Microwave	Williams	JCP	20 (1952)	164
$Cl_3^{37}OP$	Phosphoryl chloride (isotopic)	-	G	Microwave	Williams	JCP	20 (1952)	164
Cl_3P	Phosphorous trichloride	1.5-16μ	L	Spec	Marvin	PR	34 (1912)	161
		-	-	Freq	Howard	JCP	2 (1934)	630
		-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
		-	-	Vib.	Deensan	JCP	3 (1935)	384
		-	-	Raman, Thermo	Anderson	JCP	4 (1936)	529
		-	-	Thermo	Stevenson	JCP	9 (1941)	403
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Band freq	Daasch	AC	23 (1951)	853
		-	-	Freq	Daasch	JCP	19 (1951)	22
		161-192μ	G	Freq	O'Loane	JCP	21 (1953)	669
		-	-	Freq	Weston	JACS	76 (1954)	2645
		1500-2100	Sol	Study	Ketelaar	JCP	23 (1955)	1549
		-	-	Freq	Hahn	JCP	24 (1956)	921
		85-550	L	Assign	Davies	JMS	2 (1958)	253
		20-45μ	G	Assign	Lovenzelli	CPR	248 (1959)	1980
$Cl_3^{35}PS^{34}$	Thiophosphoryl chloride (isotopic)	-	G	Microwave	Williams	JCP	20 (1952)	164
$Cl_3^{35}PS^{32}$	Thiophosphoryl chloride (isotopic)	-	G	Microwave	Williams	JCP	20 (1952)	164
$Cl_3^{37}PS^{32}$	Thiophosphoryl chloride (isotopic)	-	G	Microwave	Williams	JCP	20 (1952)	164

$Cl_3{}^{37}PS^{32}$	Thiophosphoryl chloride (isotopic)	-	G	Microwave	Williams	JCP	20 (1952)	164
Cl_3PS	Thiophosphoryl chloride	-	-	Thermo	Stevenson	JCP	9 (1941)	403
		400-1600	-	Freq	Cilento	JACS	71 (1949)	2753
		-	-	Band freq	Daasch	AC	23 (1951)	853
		-	-	Freq	Daasch	JCP	19 (1951)	22
		-	-	Freq	Ziomek	PR	98 (1955)	243
Cl_3As	Arsenic trichloride	1.5-16 μ	L	Spec	Marvin	PR	34 (1912)	161
		-	-	Freq	Howard	JCP	2 (1934)	630
		-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
		-	-	FC	Gordy	JCP	14 (1946)	305
		410	-	Freq	Hahn	JCP	24 (1956)	921
		85-550	L	Assign	Davies	JMS	2 (1958)	253
Cl_3B	Boron trichloride	1-18 μ	G	Spec	Cassie	PRS	148 (1935)	87
		-	-	Spec	Anderson	JCP	4 (1936)	703
		-	-	Thermo	Spencer	JCP	14 (1946)	729
		-	-	Force field	Heath	TFS	44 (1948)	873
		3-15 μ	G	Spec, Assign	Scruby	JCP	19 (1951)	386
		2-15 μ	G	Spec	Laoher	JACS	74 (1952)	5292
		-	-	Force field	Linnett	TFS	48 (1952)	592
		955	G	Reaction	Huggins	JCP	23 (1955)	1544
		-	-	Vib	Morino	JCP	23 (1955)	737
		-	-	FC	Santhamma	CS	24 (1955)	262
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2368
		-	-	Freq	Lehmann	JCP	30 (1959)	1219
		1-15 μ	G	Assign	Nadeau	AC	32 (1960)	1480
Cl_3B^{10}	Boron trichloride (isotopic)	300-3000	G	Spec	Lindeman	JCP	24 (1956)	242
Cl_3B^{11}	Boron trichloride (isotopic)	300-3000	G	Spec	Lindeman	JCP	24 (1956)	242
Cl_4S	Sulfur tetrachloride	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
Cl_4B^-	Tetrachloroborate ion	400-4000	-	Struot	Waddington	JCS	- (1960)	2339

Cl_4B_2	Tetrachloro diborine	20–50 μ	G	Spec, Assign	Mann	JCP	26	(1957)	1665
Cl_4Si	Silicon tetrachloride	1.5–16 μ	L	Spec	Marvin	PR	34	(1912)	161
		–	–	Assign	Marvin	PR	33	(1929)	952
		–	–	Vib.	Urey	PR	38	(1931)	1969
		–	–	Freq	Villars	CR	11	(1932)	369
		–	–	Vib.	Rasenthal	PR	46	(1934)	730
		–	–	Quant. Mech.	Wilson	JCP	2	(1934)	432
		–	–	FC	Rasenthal	PR	49	(1936)	535
		–	–	Thermo	Herman	JCP	6	(1938)	406
		–	–	FC	Gordy	JCP	14	(1946)	305
		–	–	Force field	Heath	TFS	44	(1948)	561
		–	–	Force field	Heath	TFS	44	(1948)	878
		–	–	FC	Simonouti	JCP	17	(1949)	848
		–	–	Assign	Shimanouchi	JCP	18	(1950)	1306
		8–15 μ	Sol	Spec	Scott	JACS	73	(1951)	2599
		–	–	Force field	Linnett	TFS	48	(1952)	592
		–	–	FC	Bowers	JCP	21	(1953)	1117
		2–25 μ	G	Spec, Assign	Smith	JCP	21	(1953)	1997
		–	–	FC	Gaunt	TFS	50	(1954)	546
		–	–	Band freq	Johannesen	JRNB	53	(1954)	197
		424	–	Freq	Hahn	JCP	24	(1956)	921
		–	–	Assign	Forneris	ZE	62	(1958)	1130
		–	–	FC	Pistorius	JCP	28	(1958)	514
Cl_5F_3PB	Tetrachloro phosphonium chloro trifluoroborate	400–4000	S	Struct, Assign	Waddington	JCS	–	(1960)	2339
Cl_5O_3SP	Tetrachloro phosphonium chlorosulphate	400–4000	S	Struct, Assign	Waddington	JCS	–	(1960)	2339
Cl_5P	Phosphorous pentachloride	–	–	Thermo, Raman	Anderson	JCP	4	(1936)	529
		–	–	Thermo	Stevenson	JCP	9	(1941)	403
		–	–	Group freq	Downes	JACS	77	(1955)	2098
		300–1400	G,Sol	Assign, FC	Wilmshurst	JCP	27	(1957)	661
$Cl_6N_3P_3$	Trimeric phosphonitrilic chloride	2–21 μ	Sol	Spec	Daasch	AC	23	(1951)	853
		–	–	Assign, FC	Iribarne	JCP	20	(1952)	346
		4–33 μ	S,Sol	Spec, I	Daasch	JACS	76	(1954)	3403
		1150–1350	–	Freq, Struct	Shaw	CIL	–	(1959)	54

Cl_6OSi_2	Hexachlorodisiloxane	2-16 μ	L	Spec	Schumb	JACS	76 (1954)	2091
Cl_6Si_2	Hexachlorodisilane	-	G,L, S,Sol	Config.	Mizushima	JPC	56 (1952)	324
		2-16 μ	L	Spec	Schumb	JACS	76 (1954)	2091
		-	-	Diffusion	Swick	JCP	23 (1955)	1499
		15-25 μ	G	Struct	Morino	JCP	24 (1956)	164
$Cl_8N_4P_4$	Phosphonitrilic chloride tetramer	2-21 μ	Sol	Spec	Daasch	AC	23 (1951)	853
		4-31 μ	S,Sol	Spec, I	Daasch	JACS	76 (1954)	3403
		1150-1350	-	Freq	Shaw	CIL	- (1959)	54
$Cl_{10}OSi_4$	3-Oxadecachloro-pentasilane	2-16 μ	L	Spec, Group freq	Schumb	JACS	76 (1954)	2091
$Cl_{18}O_3Si_8$	3,6,9-Trioxaoctadecachlorohendecasilane	2-16 μ	L	Spec, Group freq	Schumb	JACS	76 (1954)	2091
FI	Iodine fluoride	-	-	Freq	Clark	TFS	33 (1937)	1390
FNO	Nitrosyl fluoride	1844-766	G	Spec, Mol. Const.	Magnuson	JCP	20 (1952)	380
		-	-	FC, Thermo	Stephenson	JCP	20 (1952)	135
		2-30 μ	G	Spec, Freq, Assign	Woltz	JCP	20 (1952)	378
		-	-	Freq	Jauder	JCS	- (1954)	919
		-	G,Sol	Freq	O'Sullivan	JCS	- (1957)	4144
FNO_2	Nitryl fluoride	400-5000	G	Spec, Assign	Dodd	TFS	52 (1956)	145
FNS	Thionitrogen fluoride	2-15 μ	G	Assign	Gallug	JPC	64 (1960)	395
FB	Boron monofluoride	-	-	FC	Linnett	TFS	38 (1942)	1
FSi	Silicon fluoride	-	G	Spec, FC	Linnett	TFS	38 (1942)	1
		-	G	Spec	Johns	PRS	71 (1958)	476
F_2	Fluorine	-	-	Morse potential	Morse	PR	34 (1929)	57
		-	-	FC	Lochte-Holtgreven	TFS	28 (1932)	698
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	I	Mulliken	JCP	7 (1939)	20
		-	-	Thermo	Murphy	JCP	7 (1939)	806

		-	-	Quant. Mech.	Mulliken	JCP	8 (1940)	234
		-	-	FC	Mulliken	PR	57 (1940)	500
		-	-	I	Sutherland	JCP	8 (1940)	161
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	FC	Wu	PR	71 (1947)	118
F_2N_2	1,1-Difluorodiazine	300-3400	G	I, Assign, NCA	Sanborn	JCP	33 (1960)	1855
F_2N_2	Trans-1,2-Difluoro-diazine	300-3400	G	I, Assign, NCA	Sanborn	JCP	33 (1960)	1855
F_2N_2S	Thiodinitrogen difluoride	2-15 μ	G	Assign	Gallup	JPC	64 (1960)	395
F_2O	Fluorin oxide	-	-	FC	Penney	PRS	156 (1936)	654
		-	-	Assign	Sutherland	PRS	156 (1936)	678
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Thermo	Patter	JCP	17 (1949)	957
		-	-	Quant. Mech.	Torkington	JCP	17 (1949)	357
		2.5-25 μ	G	Band study	Bernstein	JCP	18 (1950)	685
		-	-	Bond-bond interaction	Duchesne	JCP	19 (1951)	1191
		2-25 μ	G	Spec, Assign	Jones	JCP	19 (1951)	337
		-	-	Anal, FC	Linnett	TFS	48 (1952)	592
		3-13 μ	G	Spec	Schnizlein	JPC	56 (1952)	233
		-	-	Collisional excitation	Aroeste	JCP	21 (1953)	870
		-	-	Band study	Huggins	JACS	75 (1953)	4126
		-	-	FC	Slowinski	JCP	23 (1955)	1933
		-	-	FC	Smith	TFS	52 (1956)	891
F_2OS	Thionyl fluoride	-	L	Freq	Bender	JCP	23 (1955)	1316
		7-10 μ	G	Assign	Haszeldine	JCS	- (1955)	2901
		240-5000	G	Spec, Assign, Thermo	O'Loane	JCP	23 (1955)	1313
		-	-	Freq	Rolfe	TFS	51 (1955)	778
F_2OSe	Selenium oxyfluoride	-	-	Freq, Assign	Rolfe	TFS	51 (1955)	778
F_2O_2S	Sulfuryl fluoride	240-4000	G	Spec, Assign, FC	Perkins	JCP	20 (1952)	1791
		-	G,L	Spec	Bender	JCP	23 (1955)	1316
		6-9 μ	G	Assign	Haszeldine	JCS	- (1955)	2901
$F_2O_2S^{32}$	Sulfuryl fluoride (isotopic)	-	G	Microwave	Fristrom	JCP	20 (1952)	1
		-	G	Spec, Assign, Struct	Lide	JCP	26 (1957)	734

$F_2O_2S^{34}$	Sulfuryl fluoride (isotopic)	-	G	Microwave	Fristrom	JCP	20 (1952)	1
F_2O_3S	Fluorine fluorosulfonate	2-40 μ	G	Spec	Dudley	JACS	78 (1956)	290
F_2S_2	Sulfur monofluoride	-	-	Freq, Assign	Hooge	RTC	77 (1958)	902
F_3Br	Bromine trifluoride	-	-	Spec	Magnuson	JCP	27 (1957)	223
F_3N	Nitrogen trifluoride	-	-	Freq, Assign	Bailey	JCP	5 (1937)	274
		-	-	Microwave	Sheridan	PR	79 (1950)	513
		250-5000	G	Spec, Assign, FC, Thermo	Wilson	JCP	20 (1952)	1716
		400-3000	G	Spec, Assign	Pace	JCP	23 (1955)	1248
		-	-	Thermo	Pierce	JCP	23 (1955)	551
		400-1050	G	Assign	Schatz	JCP	24 (1958)	475
F_3N^{14}	Nitrogen trifluoride (isotopic)	-	-	Microwave	Sheridan	PR	79 (1950)	513
F_3N^{15}	Nitrogen trifluoride (isotopic)	-	-	Microwave	Sheridan	PR	79 (1950)	513
F_3OP	Phosphoryl trifluoride	-	-	Freq	Daasch	JCP	19 (1951)	22
		-	-	Band study	Daasch	AC	23 (1951)	853
		-	-	Freq	Cutowsky	JCP	20 (1952)	1652
		-	-	Freq	Bell	JACS	76 (1954)	5185
		-	-	Freq	Emeleus	JCS	- (1955)	563
		-	-	Freq	Ziomek	PR	98 (1955)	243
		472-1433	G	Freq	Pemsler	JCP	24 (1956)	920
		0.1-0.4 μ	-	Mol. Const.	Burrus	JCP	26 (1957)	391
$F_3O^{16}P$	Phosphoryl fluoride (isotopic)	-	G	Microwave	Williams	JCP	20 (1952)	164
$F_3O^{18}P$	Phosphoryl fluoride (isotopic)	-	G	Microwave	Williams	JCP	20 (1952)	164
F_3P	Phosphorous trifluoride	-	-	Freq	Howard	JCP	2 (1934)	630
		-	-	Thermo	Stevenson	JCP	9 (1941)	403

		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Spec	Dailey	AC	21 (1949)	540
		-	-	Microwave	Gilliam	PR	75 (1949)	1014
		-	-	Vib.	Burnette	JCP	18 (1950)	1300
		-	-	Band study	Daasch	AC	23 (1951)	853
		-	-	Freq	Daasch	JCP	19 (1951)	22
		-	-	Pressure broadening	Mizushima	PR	83 (1951)	94
		486-891	G	Spec, Assign, FC	Gutowsky	JCP	20 (1952)	1652
		250-5000	G	Spec, Assign, FC,	Wilson	JCP	20 (1952)	1716
		-	-	Freq	Weston	JACS	76 (1954)	2645
		890	-	Freq	Hahn	JCP	24 (1956)	921
F_3PS	Thiophosphoryl trifluoride	-	-	Freq	Ziomek	PR	98 (1955)	243
F_3PS^{32}	Thiophosphoryl trifluoride (isotopic)	-	G	Microwave	Williams	JCP	20 (1952)	164
F_3PS^{33}	Thiophosphoryl trifluoride (isotopic)	-	G	Microwave	Williams	JCP	20 (1952)	164
F_3PS^{34}	Thiophosphoryl trifluoride (isotopic)	-	G	Microwave	Williams	JCP	20 (1952)	164
F_3As	Arsenic fluoride	-	-	Freq	Howard	JCP	2 (1934)	630
		-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Vib.	Burnette	JCP	18 (1950)	1300
		-	-	Bond study	Huggins	JACS	75 (1953)	4126
		-	-	Microwave	Kisliuk	JCP	21 (1953)	828
		707	-	Freq	Hahn	JCP	24 (1956)	921
F_3B	Boron trifluoride	-	-	Freq assign	Anderson	JCP	4 (1936)	703
		-	-	Freq assign	Bailey	JCP	5 (1937)	274
		-	-	Spec, Assign, FC	Bailey	PRS	161 (1937)	107
		-	G	Assign	Yost	JCP	6 (1938)	424
		400-3000	-	Freq, Assign	Gage	JCP	7 (1939)	455

		-	-	Ratio rule	Edgell	JCP	13 (1945)	539
		-	-	Thermo	Spencer	JCP	14 (1946)	729
		-	-	FC	Heath	TFS	44 (1948)	873
		-	-	Quant. Meoh.	Nielsen	JCP	17 (1949)	659
		-	-	FC	Linnett	TFS	48 (1952)	592
		-	-	FC	Heslop	TFS	49 (1953)	1262
		-	-	NCA, FC	Santhamma	CS	22 (1953)	298
		1500	G	Spec	Nightingale	JCP	22 (1954)	1468
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2368
		-	-	Vib.	Meal	JCP	24 (1956)	1126
		-	-	Bond study	Wilmshurst	JPC	63 (1958)	631
		470-1500	S	Freq, Assign	Dows	JCP	31 (1959)	1637
		1450-3300	S	Freq, Assign	Vanderryn	JCP	30 (1959)	331
F_3B^{10}	Boron trifluoride (isotopic)	-	-	FC, Freq	Bailey	PRS	161 (1937)	107
		-	-	FC	Heslop	TFS	49 (1953)	1262
		670-750	G	Spec	Nielsen	JCP	22 (1954)	659
		300-3000	G	FC, Spec, Freq, Assign	Lindeman	JCP	24 (1956)	242
		482-1505	G	I, FC	Mckean	JCP	24 (1956)	1002
F_3B^{11}	Boron trifluoride (isotopic)	-	-	FC, Freq	Bailey	PRS	161 (1937)	107
		-	-	FC	Heslop	TFS	49 (1953)	1262
		650-750	G	Spec	Nielsen	JCP	22 (1954)	659
		300-3000	G	Spec, Assign, FC	Lindeman	JCP	24 (1956)	242
		480-1454	G	I, FC	McKean	JCP	24 (1956)	1002
F_4N_2	Tetrafluoro hydrazine	-	G	Microwave, Struct	Lide	JCP	31 (1959)	1129
F_4S	Sulfur tetrafluoride	400-5000	G	Spec, Assign	Dodd	TFS	52 (1956)	1052
		-	-	Bond study	Wilmshurst	JPC	62 (1958)	631
F_4B	Fluoroborate ion	-	-	Assign	Edwards	JACS	77 (1955)	266
		-	S	Spec	Ketelaar	ZE	64 (1960)	641
		400-4000	-	Struct, Assign	Waddington	JCS	- (1960)	2339
F_4Si	Silicon tetrafluoride	-	-	Freq	Yost	JCP	4 (1936)	325
		-	-	Freq, Assign	Bailer	JCP	5 (1937)	274
		2-18 μ	G	Spec, Freq	Bailey	PRS	167 (1938)	555
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	FC	Heath	TFS	44 (1948)	561
		-	-	Freq, FC	Simanouti	JCP	17 (1949)	848

		-	-	Intermolecular forces	Heath	JCP	18 (1950)	147
		2.19-25 μ	-	Spec	Woltz	PR	79 (1950)	416
		-	-	Freq	Cote	PRS	210 (1951)	217
		2-28 μ	G	Assign	Jones	JCP	19 (1951)	242
		-	-	FC	Linnett	JCP	19 (1951)	801
		-	-	FC, Thermo	Voelz	JCP	19 (1951)	1084
		-	-	Freq	Gaunt	TFS	48 (1952)	873
		-	-	FC	Linnett	TFS	48 (1952)	592
		-	-	Freq	Woltz	JCP	20 (1952)	307
		-	-	Ident	Callomon	JCS	- (1953)	3709
		391-1031	G	I	Schatz	JCP	21 (1953)	1516
		-	-	FC	Gaunt	TFS	50 (1954)	546
		-	-	Bond study	McKean	JACS	77 (1955)	2660
		800	-	Freq	Hahn	JCP	24 (1956)	921
		-	-	Transmission	McKean	JCP	24 (1956)	1002
		-	-	FC	Pistorius	JCP	28 (1958)	514
F_5I	Iodine pentafluoride	250-3300	G	Spec	Lord	JACS	72 (1950)	522
		-	-	l-type doubling theory	deHeer	PR	83 (1951)	741
F_5P	Phosphorous pentafluoride	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
		534-1760	G	Freq, Assign	Gutowsky	JCP	20 (1952)	1652
		2-23 μ	G	Freq	Pemsler	JCP	24 (1956)	920
F_5As	Arsenic pentafluoride	2-25 μ	G	Spec	Akers	PR	95 (1954)	300
		2-41 μ	G	Spec	Akers	PR	99 (1955)	1624
F_6NO_2P	Nitronium hexafluoro phosphate	2-16 μ	S	Spec, Struct	Cook	JCP	33 (1960)	1669
$F_6N_3P_3$	Phosphonitrilic fluoride (trimer)	-	L	Spec, Struct, Assign	Becher	ZAUA	305 (1960)	148
F_6S	Sulfur hexafluoride	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
		-	-	Quant. Mech.	Vanvleck	JCP	7 (1939)	72
		-	-	FC	Heath	TFS	45 (1949)	264
		-	G	Freq	Edelson	JCP	19 (1951)	1311
		2-25 μ	G	Spec, Assign	Lagemann	JCP	19 (1951)	534
		1560-2510	G	Freq, Assign	deLattre	JCP	20 (1952)	520
		-	-	FC	Linnett	TFS	48 (1952)	592
		400-5000	G	Spec, Assign, Thermo	Gaunt	TFS	49 (1953)	1122
		615-947	G	I	Schatz	JCP	21 (1953)	1516

		-	-	FC	Gaunt	TFS	50 (1954)	546
		-	-	Vib.	Morino	JCP	23 (1955)	737
		2-15μ	G	Emission	Dickey	JCP	25 (1956)	180
		776	-	Freq	Hahn	JCP	24 (1956)	921
		-	-	Transmission	McKean	JCP	24 (1956)	1002
		-	-	FC	Woodward	TFS	53 (1957)	1557
		-	-	Bond dipole moment	Wilmshurst	JPC	62 (1958)	631
		-	-	FC	Califano	AAN	25 (1958)	284
		-	-	Jahn-Teller effect	Weinstock	JCP	31 (1959)	262
F_6Se	Selenium hexafluoride	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
		-	-	Quant. Mech.	Vanvleck	JCP	7 (1939)	72
		-	-	FC	Heath	TFS	45 (1949)	264
		-	-	FC	Linnett	TFS	48 (1952)	592
		400-5000	G	Spec, Assign, Thermo	Gaunt	TFS	49 (1953)	1122
		-	-	FC	Gaunt	TFS	50 (1954)	546
		710	-	Freq	Hahn	JCP	24 (1956)	921
		-	-	FC	Califano	AAN	25 (1958)	284
		-	-	Jahn-Teller effect	Weinstock	JCP	31 (1959)	262
F_6Si	Silicon hexafluoride ion	-	-	Freq	Hahn	JCP	24 (1956)	921
F_7I	Iodine heptafluoride	250-3300	G	Spec	Lord	JACS	72 (1950)	522
$F_8N_4P_4$	Phosphonitrilic fluoride (tetramer)	-	G	Spec, Struct, Assign	Becher	ZAUA	305 (1960)	148
$F_{10}S_2$	Disulfur decafluoride	-	G	Freq	Edelson	JCP	19 (1951)	1311
		500-2000	G	Spec, Freq	Edelson	JACS	74 (1952)	262
		2-25μ	G	Assign	Dodd	TFS	53 (1957)	1545
		5-35μ	G,S	Spec, Freq, Assign, NCA	Wilmshurst	CJC	35 (1957)	191
		2-25μ	G	FC, I	Woodward	TFS	53 (1957)	1557
IO	Iodine monoxide	-	G	Spec	Durie	CJP	36 (1958)	35
IO_3^-	Iodate ion	-	L	FC	Shen	PR	51 (1937)	235
IO_4^-	Periodate ion	-	-	FC	Pistorius	JCP	28 (1958)	514

I_2	Iodine	-	-	Morse potential	Morse	PR	34	(1929)	57
		-	G	Fluoroscence	Loomis	PR	35	(1930)	662
		-	-	Thermo	Villars	JACS	52	(1930)	1733
		-	G	Spec	Brown	PR	38	(1931)	1187
		-	-	Vib.	Oldenberg	PR	37	(1931)	194
		-	-	FC	Lochte-Holtgreven	TFS	28	(1932)	698
		-	-	FC	Badger	JCP	2	(1934)	128
		-	-	Coupling theory	Mulliken	PR	46	(1934)	549
		-	-	Coupling constant	Pekeris	PR	45	(1934)	98
		-	-	Thermo	Mulliken	JCP	4	(1936)	620
		-	-	Quant. Mech.	Murphy	JCP	4	(1936)	344
		-	-	Freq	Clark	TFS	33	(1937)	1394
		1-13 μ	Sol	Spec	Plum	JCP	5	(1937)	172
		-	-	I	Mulliken	JCP	7	(1939)	20
		0.7-2.7 μ	Sol	Filters	Pfund	JOSA	29	(1939)	56
		-	-	I	Mulliken	PR	57	(1940)	500
		-	-	Quant. Mech.	Mulliken	JCP	8	(1940)	234
		-	-	Quant. Mech.	Mulliken	JCP	8	(1940)	382
		-	-	FC	Sutherland	JCP	8	(1940)	161
		-	-	Thermo	Hulburt	JCP	9	(1941)	61
		-	-	FC	Linnett	TFS	38	(1942)	1
		-	-	FC, Bond distances	Gordy	JCP	14	(1946)	305
		25-15 μ	Sol	Spec	Ham	JCP	20	(1952)	1336
		-	-	Bond distance	Huggins	JACS	75	(1953)	4126
		0.8-2.2 μ	G	I	Eshbach	JOSA	44	(1954)	868
		-	G	Spec	Ham	JACS	76	(1954)	3886
		5-9 μ	Sol	Band study	Haszeldine	JCS	-	(1954)	4145
		1307-1710	Sol	Band study	Ketelaar	JCP	23	(1955)	749
		-	-	Potential function	Lippincott	JCP	23	(1955)	1131
		-	-	FC	Baughan	TFS	53	(1957)	1046
		-	-	Interaction study	Morcillo	ARS	55B	(1959)	629
I_3B	Boron Triodide	2-24 μ	G,Sol, S	Spec, Freq	Wentink	JCP	28	(1958)	826
NO	Nitric oxide	-	-	Thermo	Tolman	JACS	45	(1923)	2277
		-	-	Thermo	Urey	JACS	45	(1923)	1445
		-	-	Morse potential	Morse	PR	34	(1929)	57
		-	-	Freq	Rideal	TFS	25	(1929)	921
		-	-	Freq	Snow	TFS	25	(1929)	930
		-	-	Freq	Snow	PR	35	(1930)	563
		-	-	Λ-type doubling theory	Mulliken	PR	38	(1931)	87

-	-	l-type doubling theory	Mulliken	PR	38	(1931)	85
-	G	Thermo	Badger	JACS	54	(1932)	3523
20.7-152 μ	G	Spec	Strong	PR	42	(1932)	267
-	-	Thermo	Gordon	JCP	1	(1933)	297
-	-	FC	Badger	JCP	2	(1934)	128
-	-	Freq	Mecke	TFS	30	(1934)	200
-	-	Mol. Const.	Pekeris	PR	45	(1934)	98
-	-	Double separation	Witmer	PR	46	(1934)	629
1800-1950	G	Spec, Anal	Gillette	PR	56	(1939)	1113
2.7-5.3 μ	G	Spec, Mol. Const.	Nielsen	PR	56	(1939)	781
-	-	Potential function	Linnett	TFS	36	(1940)	1123
-	-	FC	Sutherland	JCP	8	(1940)	161
-	-	Potential function	Clark	TFS	37	(1941)	299
-	-	Thermo	Hulburt	JCP	9	(1941)	61
-	-	FC	Linnett	TFS	38	(1942)	1
-	-	FC	Wu	PR	71	(1947)	118
-	-	Emission	Benitez	JAP	21	(1950)	907
-	G	I	Penner	AC	23	(1951)	1048
400-6000	S,L,G	Spec	Smith	JCP	19	(1951)	189
-	-	Polarizability	Matosi	JCP	20	(1952)	819
0.1-0.2 μ	G	Microwave	Burnes	PR	92	(1953)	1437
-	G	Spec	Cowan	JOSA	43	(1953)	710
-	G	Spec	Cowan	JCP	21	(1953)	1397
-	G	Band study	Nichols	JOSA	43	(1953)	331
-	G	I	Penner	JCP	21	(1953)	649
1876	G	Rotation line width	Weber	JCP	21	(1953)	1503
-	-	I	Aroeste	JCP	22	(1954)	1273
-	G	Freq	Hornbeck	JRNB	52B	(1954)	9
1800-2000	G	Spec	Nightingale	JPC	58	(1954)	1047
2-9 μ	G	Spec, Ident	Riley	JACS	76	(1954)	3301
1200-2400	G	Spec, Anal	Saier	AC	26	(1954)	1079
-	G	I	Vincent-Geisse	CPR	239	(1954)	251
-	-	Potential function	Lippincott	JCP	23	(1955)	1131
1.8-2.69 μ	G	Spec, Mol. Const.	Nichols	JCP	23	(1955)	57
100-600 μ	G	Spec	Palik	JCP	25	(1956)	1174
2-15 μ	G	Spec	Pierson	AC	28	(1956)	1218
5.3 μ	G	Spec	Shaw	JCP	24	(1956)	399
0.12-0.2 μ	G	Stark effect	Burnes	PR	109	(1957)	1553
-	-	I	Smith	AC	30	(1958)	1217

		0.117 μ	G	Microwave, Mol. Const.	Favro	PR	114	(1959)	1534
		-	Sol	Struct	Lascombe	BSCF	-	(1959)	1175
		-	G	Microwave, Absorption	Maryott	JCP	31	(1959)	617
		1600-2000	-	Spec	Terenin	SA	15	(1959)	946
		-	G	Spec, Struct	Lin	PR	119	(1960)	1027
		-	G	Spec, Mol. Const.	Mould	SA	16	(1960)	479
$N^{14}O^{16}$	Nitric oxide (isotopic)	-	G	Microwave	Gallagher	PR	93	(1954)	729
		-	G	Spec, Mol. Const.	Gallagher	PR	103	(1956)	1727
$N^{15}O$	Nitric oxide (isotopic)	1700-2000	G	Mol. Const.	Fletcher	JCP	27	(1957)	579
$N^{15}O^{16}$	Nitric oxide (isotopic)	-	G	Spec	Gallagher	PR	103	(1956)	1727
NO^{+}	Nitrosonium ion	-	-	Assign	Goulden	JCS	-	(1950)	2620
NO_2	Nitrogen dioxide	20.7-152 μ	G	Spec	Strong	PR	42	(1932)	267
		2-16 μ	L	Spec	Schaffert	JCP	1	(1933)	507
		-	-	Freq	Sutherland	PRS	141	(1933)	342
		1-4 μ	-	Mol. Struct	Harris	JCP	2	(1934)	51
		14 μ	G	Freq, Assign	Sutherland	PRS	145	(1934)	278
		-	-	FC	Penney	PRS	156	(1936)	654
		-	-	Assign	Sutherland	PRS	-	(1936)	678
		-	-	Freq, Assign	Harris	JCP	8	(1940)	765
		-	-	Review	Mulliken	RMP	14	(1942)	204
		-	-	Force field	Linnett	TFS	45	(1949)	844
		-	-	Quant. Mech.	Torkington	JCP	17	(1949)	357
		1.5-25 μ	G	Freq	Wilson	PR	76	(1949)	472
		-	G	Night sky	Kaplan	PR	78	(1950)	82
		1630	G	Spec	Cowan	JCP	21	(1953)	1397
		1.4-3.4 μ	G	Spec, Assign	Moore	JOSA	43	(1953)	1045
		1600-1800	G	Reactions study	Nightingale	JCP	21	(1953)	1398
		640-920	G	Spec, Mol. Const.	Brown	JCP	22	(1954)	955
		-	G	Mol. Const.	Grenier-Besoon	CPR	238	(1954)	2067
		-	-	Assign, Spec	Neuberger	JCP	22	(1954)	1693
		700-1800	G	Spec	Nightingale	JPC	58	(1954)	1047
		-	G	I	Vincent-Geisse	CPR	239	(1954)	251
		-	S	Unstable species studied	Whittle	JCP	22	(1954)	1943
		750	G	Freq	Keller	PR	99	(1955)	1624

		-	-	Struct	Lin	PR	99 (1955)	666
		1320	-	Freq	Hahn	JCP	24 (1956)	921
		2-15 μ	G	Speo	Keller	JCP	24 (1956)	636
		2-15 μ	G	Spec	Pierson	AC	28 (1956)	1218
		50-200 μ	G	Spec	Bird	SA	12 (1958)	247
		-	G	Mol. Const.	Jacob	JCP	56 (1959)	296
		-	-	FC	Hisatsune	SA	16 (1960)	450
$N^{15}O_2$	Nitrogen dioxide (isotopio)	1630	G	Spec	Cowan	JCP	21 (1953)	1397
		-	-	Freq, FC	Weston	JCP	26 (1957)	1248
NO_2^-	Nitrite ion	-	-	FC	Penney	PRS	156 (1936)	654
		700-5000	S,Sol	Freq, Assign, FC	Weston	JCP	27 (1957)	683
		-	-	FC	Hisatsune	SA	16 (1960)	450
NO_3^-	Nitrate ion	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
		-	-	Coordination study	Mizushima	JACS	75 (1935)	4870
		-	-	Force field	Heath	TFS	44 (1948)	873
		-	-	Quant. Mech.	Hornig	JCP	16 (1948)	1063
		-	-	Force field	Linnett	TFS	48 (1952)	592
		-	S	Coordination study	Mizushima	JACS	75 (1953)	4870
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2368
		700-1500	Sol	Freq	Ryskin	OS	6 (1959)	
NO_4	Nitrogen tetraoxide	-	G	No evidence for NO_4	Hisatsune	JCP	24 (1956)	1257
NP	Phosphorous nitride	-	-	FC	Badger	JCP	2 (1934)	128
		-	-	FC	Badger	PR	48 (1935)	284
		-	-	Freq	Clark	TFS	33 (1937)	1390
		-	-	FC	Linnett	TFS	38 (1942)	1
		-	-	FC	Wu	PR	71 (1947)	118
NAs	Arsenic nitride	-	-	Freq	Clark	TFS	33 (1937)	1390
NB	Boron nitride	-	S	Freq	Nichols	PR	21 (1923)	712
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		-	-	Thermo	Newell	JCP	23 (1955)	2431
		-	-	Vibrations	Newell	JCP	24 (1956)	1049
		-	-	Anal, Spec	Newell	JCP	27 (1957)	240
		300-880	S	Spec	Miller	SA	16 (1960)	135

NSi	Silicon nitride	-	-	Morse potential	Morse	PR	34 (1929)	57
		-	-	FC	Badger	JCP	22 (1934)	128
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	FC	Linnett	TFS	38 (1942)	1
		-	-	FC	Wu	PR	71 (1947)	118
N_2	Nitrogen	-	-	Thermo	Tolman	JACS	45 (1923)	2277
		-	-	Thermo	Urey	JACS	45 (1923)	1445
		-	G	Emission	Pfund	JOSA	9 (1924)	193
		-	-	Law of force	Birge	PR	27 (1925)	107
		0-1.5 μ	G	Emission	Poetker	PR	30 (1927)	812
		0-1.5 μ	G	First positive group	Poetker	PR	31 (1928)	152
		0.9-2 μ	-	Spec	Ingram	PR	33 (1929)	1092
		0.9-2 μ	-	Freq	Ingram	PR	34 (1929)	421
		-	-	Morse potential	Morse	PR	34 (1929)	57
		-	-	Thermo	Villars	JACS	52 (1930)	1733
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Thermo	Johnston	JACS	56 (1934)	271
		-	-	Freq	Mecke	TFS	30 (1934)	200
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	G	Spec	Frost	PR	48 (1935)	66
		-	-	Potential function	Linnett	TFS	36 (1940)	1123
		-	-	Potential function	Clark	TFS	37 (1941)	299
		-	-	Thermo	Hulburt	JCP	9 (1941)	61
		-	-	Freq	Barker	RMP	14 (1942)	198
		-	-	FC	Linnett	TFS	38 (1942)	1
		17 μ	G	Line width	Adel	RMP	16 (1944)	236
		-	-	Absorption law	Nielsen	RMP	16 (1944)	307
		-	G	Night sky	Stebbins	PR	66 (1944)	225
		0.5 μ	G	Microwave	Beringer	PR	70 (1946)	53
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	G	Spec	Herman	JPR	7 (1946)	203
		-	-	Spec	Coggeshall	JCP	15 (1947)	65
		-	-	FC	Wu	PR	71 (1947)	118
		0.8-1.1 μ	-	Absorption	Worley	JCP	16 (1948)	533
		-	G	Absorption	Crawford	PR	75 (1949)	1607
		-	G	Zeeman effect	Kiess	JRNB	42 (1949)	183
		4.3-6.4 μ	I	Liquid air band	Oxholm	PR	76 (1949)	151
		-	-	Spec	Petrie	PR	77 (1950)	720
		2250-2500	L,S	Spec	Smith	PR	79 (1950)	728
		4.3 μ	G	Homopolar diatomic	VanAssett	PR	79 (1950)	1016
		1.1 μ	G	Active N_2	Bransoomb	PR	85 (1951)	83

		1.1 μ	G	Active N_2	Branscomb	PR	82	(1951)	83
		4.5 μ	G	I	Colloman	PRS	208	(1951)	332
		1-14 μ	G	Transmission	Gebbie	PRS	206	(1951)	87
		7.8-8.6 μ	G	Anal	Goody	PRS	209	(1951)	178
		1.25-2.5 μ	G	Absorption	Murray	PR	83	(1951)	486
		4-5 μ	G	I	Thompson	PRS	208	(1951)	326
		4632	G,L	I	Welsh	PR	83	(1951)	1264
		1.7 μ	G	Spec	Adel	PR	88	(1952)	128
		-	G	Short duration after glow	Herman	PR	86	(1952)	570
		-	G	Vibration relaxation	Schwartz	JCP	20	(1952)	1591
		-	-	FC	Thomas	JCS	-	(1952)	2383
		-	G	Spec	Gaebler	JOSA	43	(1953)	705
		2994-4670	G	Transmission	Fahrenfort	JCP	22	(1954)	1631
		-	-	Potential function	Lippincott	JCP	23	(1955)	1131
		-	G	Vibration relaxation	Penny	JCP	23	(1955)	1281
N_2^+	Nitrogen ion	-	-	Law of force	Birge	BAPS	1	(1925)	12
		-	-	Morse potential	Morse	PR	34	(1929)	57
		-	-	l-type doubling theory	Mulliken	PR	38	(1931)	85
		-	-	Mol. Const.	Pekeris	PR	45	(1934)	98
		-	-	Potential function	Linnett	TFS	36	(1940)	1123
		-	-	Potential function	Clark	TFS	37	(1941)	299
		-	-	FC	Linnett	TFS	38	(1942)	1
N_2O	Nitrous oxide	2.5 μ	G	Thermo	Hibben	JACS	50	(1928)	937
		2-5 μ	G	Spec	Bailey	JCS	-	(1929)	51
		-	G	Spec	Dickinson	PR	34	(1929)	582
		-	-	Freq	Snow	PR	35	(1930)	563
		-	-	Thermo	Villars	JACS	52	(1930)	1733
		20 μ	G	Spec, Assign, Mol. Const.	Plyler	PR	38	(1931)	1827
		20-33 μ	G	Transmission	Strong	PR	37	(1931)	1003
		6.7-33 μ	G	Transmission	Strong	PR	37	(1931)	1565
		-	-	Struct, FC	Bailey	PR	39	(1932)	534
		-	-	Thermo	Rodebush	PR	40	(1932)	113
		20.7-152 μ	G	Spec	Strong	PR	42	(1932)	267
		-	G	Spec	Cross	JCP	2	(1934)	6
		-	-	Thermo	Kassel	JACS	56	(1934)	1838
		-	-	Quant. Mech.	Wilson	JCP	2	(1934)	432
		-	G	Thermo	Gordon	JCP	3	(1935)	259
		-	-	Spec	Duncan	JCP	4	(1936)	638

-	-	Isotope effect	Rosenthal	JCP	5	(1937)	465
-	G	Spec	Adel	PR	59	(1941)	915
7.78 μ	G	Absorption	Adel	PR	59	(1941)	944
590-2224	-	I	Wells	JCP	9	(1941)	659
-	-	Microwave	Coles	PR	72	(1947)	972
-	G	I, Assign	Thorndike	JCP	15	(1947)	157
-	G	I	Wilson	PR	71	(1947)	479
1-16 μ	G	Disperson	Hammer	PR	74	(1948)	1262
2-13 μ	G	Earth's atmosphere	Migoette	JOSA	38	(1948)	1094
2.5-5 μ	G	Atmosphere of earth	Shaw	PR	74	(1948)	978
59-1285	-	Pressure broadening	Thorndike	JCP	16	(1948)	211
-	G	Emission	Ginsburg	PR	75	(1949)	1317
-	-	Force field	Linnett	TFS	45	(1949)	844
2224	G	Freq	Rhodes	PR	76	(1949)	1273
6 μ	G	Spec	Chapman	PR	78	(1950)	333
1.2 μ	G	Anal	Herzberg	JCP	18	(1950)	1551
3.6 μ	G	Spec	McMath	PR	78	(1950)	65
4.06 μ	G	Spec	Shaw	PR	78	(1950)	497
-	G	I	Eggers	AC	23	(1951)	1045
-	G	I	Eggers	JCP	19	(1951)	1554
579-4734	G	Refraction	Lieber	JACS	73	(1951)	1313
-	-	Vib., FC	Taylor	JCP	19	(1951)	1314
700	G	Band study	Thomas	JCP	19	(1951)	1162
-	-	Polarizability	Matossi	JCP	20	(1952)	819
-	G	Band study	Adel	JOSA	43	(1953)	1053
2-16 μ	G	Spec	Goldberg	JOSA	43	(1953)	1033
2200-2800	G	Spec, Mol. Const.	Thompson	PRS	220	(1953)	435
2198	G	Spec	White	JCP	21	(1953)	1399
2.5-5 μ	G	Spec	Amart	JPR	15	(1954)	636
600	G	Mol. Const.	Christensen	TFS	50	(1954)	1027
-	G	I	Merrow	JACS	76	(1954)	4522
1200-2300	G	Spec	Nightingale	JPC	58	(1954)	1047
2-9 μ	G	Spec, Ident	Riley	JACS	76	(1954)	3301
1200-2400	G	Spec	Saier	AC	26	(1954)	1079
-	-	FC	Teranishi	JCP	22	(1954)	896
-	-	FC	Bigeleisen	JCP	23	(1955)	2264
4.5 μ	G	Freq, Struct	Lakshmi	JCP	23	(1955)	1887
0.08-0.2 μ	G	Microwave	Burrus	PR	101	(1956)	599
1.7 μ	G	Spec	Lakshmi	JCP	24	(1956)	811
2-15 μ	G	Spec	Pierson	AC	28	(1956)	1218
-	G	Spec	Plyler	JCP	24	(1956)	95

		1800-2000	G	Struct, Spec	Thompson	SA	8 (1956)	129
		500-4000	S	Spec, Assign, Mol. Const.	Dows	JCP	26 (1957)	745
		-	G	I	Eggers	JCP	27 (1957)	1405
		2-25 μ	S	Assign, Spec	Giguere	SA	9 (1957)	204
		700	Sol	Spec, Freq, Assign	Dows	SA	13 (1958)	308
		-	-	Pressure effect	Gilfert	JOSA	48 (1958)	765
		2300-3360	G	Spec, Freq	Clough	JCP	30 (1959)	1359
		1740-1883	S	Spec, Struct	Fateley	JCP	31 (1959)	204
		-	-	Absorption	Singleton	DA	19 (1959)	2372
		-	-	FC	Verdier	JCP	30 (1959)	1372
		-	G	Spec	Mould	SA	16 (1960)	479
		565-615	G	Struct	Nielsen	JPR	21 (1960)	24
$N^{14}N^{14}O^{16}$	Nitrous oxide (isotopic)	2224	G	FC	Richards	JCP	18 (1950)	694
		4000-5000	G	Mol. Const.	Douglas	JCP	22 (1954)	275
$N^{14}N^{15}O^{16}$	Nitrous oxide	-	-	Microwave	Coles	PR	72 (1947)	973
		-	-	Assign	Bigeleisen	JCP	18 (1950)	1656
		2224	G	FC	Richardson	JCP	18 (1950)	694
		2.5-20 μ	G	Freq, FC	Begun	JCP	28 (1958)	414
$N^{15}N^{14}O^{16}$	Nitrous oxide (isotopic)	-	G	Assign	Bigeleisen	JCP	18 (1950)	1656
		4000-5000	G	Spec, Mol. Const.	Douglas	JCP	22 (1954)	275
		2.5-20 μ	G	Freq, FC	Begun	JCP	28 (1958)	414
$N_2^{15}O^{16}$	Nitrous oxide	2.5-20 μ	G	Freq, FC	Begun	JCP	28 (1958)	414
N_2O_2	Nitric oxide (dimer)	1740-1883	S	Spec, Struct	Fateley	JCP	31 (1959)	204
$N_2O_3^+$	Nitrosonium nitrogen dioxide ion	-	-	Assign	Goulden	JCS	- (1950)	2620
N_2O_3	Nitrogen trioxide	1550-1950	Sol	Spec, Struct	Fateley	JCP	31 (1959)	204
$N_2^{14}O_3$	Nitrogen trioxide (isotopic)	3-24 μ	S	Assign	Hisatsune	JCP	33 (1960)	714
$N_2^{15}O_3$	Nitrogen trioxide (isotopic)	3-24 μ	S	Assign	Hisatsune	JCP	33 (1960)	714

N_2O_4	Nitrogen tetroxide	1-16 μ	L,G	Spec, Assign	Schaffert	JCP	1 (1933)	507
		1-14 μ	G	Spec, Assign, FC, Thermo.	Sutherland	PRS	141 (1933)	342
		1-4 μ	-	Struct	Harris	JCP	2 (1934)	57
		-	-	Bond study	Fugassi	JPC	46 (1942)	630
		1.5-25 μ	-	Temperature effect	Wilson	PR	76 (1949)	472
		240-5000	-	Freq, Assign	Perkins	PR	85 (1952)	755
		1600-1800	G	Reaction study	Nightingale	JCP	21 (1953)	1398
		700-1800	G	Spec	Nightingale	JPC	58 (1954)	1047
		700-800	G	Spec	Keller	JCP	24 (1956)	636
		-	-	FC	Smith	TFS	52 (1956)	891
		800-2600	Sol	Spec, I	Miller	JCS	- (1957)	1369
		320-5500	G,L,S	Absorption	Snyder	JCP	26 (1957)	960
		320-5500	L,G,S, Sol	Spec, Assign	Snyder	JMS	1 (1957)	139
		700-1900	S	Spec, Struct	Fateley	JCP	31 (1959)	204
		450-2600	S	Assign	Hisatsune	JCP	31 (1959)	1130
		-	-	FC	Hisatsune	SA	16 (1960)	450
$N_2^{14}O_4$	Nitrogen tetroxide (isotopic)	340-5500	L,G	Freq, I, Assign	Begun	JMS	4 (1960)	388
		3-24 μ	S	Assign	Hisatsune	JCP	33 (1960)	714
$N_2^{15}O_4$	Nitrogen tetroxide (isotopic)	340-5500	L,G	Freq, I, Assign	Begun	JMS	4 (1960)	388
		3-24 μ	S	Assign	Hisatsune	JCP	33 (1960)	714
N_2O_5	Nitrogen pentoxide	1-10 μ	G	Spec	Deniels	JACS	48 (1926)	607
		-	G	Photochemical effect	Taylor	JACS	48 (1926)	577
		-	G	Photochemical effect	Mayer	JACS	49 (1927)	3033
		-	G	Photochemical data	Daniels	CR	5 (1928)	39
		1 μ	-	Thermo	Villars	JACS	52 (1930)	1733
		-	-	Assign, Struct	Ingold	JCS	- (1950)	2612
		1730	G	Spec	Cowan	JOSA	43 (1953)	710
		-	G	Spec	Cowan	JOSA	43 (1953)	710
		3.5-25 μ	S	Freq, Assign	Teranishi	JCP	21 (1953)	1116
		700-1850	G	Spec	Nightingale	JPC	58 (1954)	1047
		2-15 μ	G	Spec	Pierson	AC	28 (1956)	1218
		700-1800	S	Spec	Fateley	JCP	31 (1954)	204
$N^{14}O_5$	Nitrogen pentoxide (isotopic)	500-2600	S	Spec, Assign, FC	Teranishi	JCP	22 (1954)	896
$N_2^{15}O_5$	Nitrogen pentoxide (isotopic)	500-2600	S	Spec, Assign, FC	Teranishi	JCP	22 (1954)	896

N_3^-	Nitrogen ion	-	-	FC	Penney	PRS	156 (1936)	654
		-	-	Force field	Linnett	TFS	45 (1949)	844
N_4S_4	Nitrogen tetrasulfide	250-3500	S,Sol	Spec, Struct, Assign	Lippincott	JCP	21 (1953)	1559
OP	Phosphorous monoxide	-	-	FC	Badger	JCP	2 (1934)	128
		-	-	FC	Linnett	TFS	38 (1942)	1
OS	Sulfur monoxide	-	-	FC	Lochte-Hottgreven	TFS	28 (1932)	698
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	FC	Badger	PR	48 (1935)	284
		-	-	Freq	Clark	TFS	33 (1937)	1390
		-	-	Thermo.	Hulburt	JCP	9 (1941)	61
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	FC	Wu	PR	71 (1947)	118
		400-2000	G	Struct	Jones	JCP	18 (1950)	1263
		-	-	Potential function	Lippincott	JCP	23 (1955)	1131
OS_2	Disulphur monoxide	-	G	Spec, Struct	Meschi	JMS	3 (1959)	405
OB	Boron oxide	-	-	Morse potential	Morse	PR	34 (1929)	57
		-	-	l-type doubling theory	Mulliken	PR	38 (1931)	85
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	Potential function	Linnett	TFS	36 (1940)	1123
		-	-	Potential function	Clark	TFS	37 (1941)	299
		-	-	FC	Linnett	TFS	38 (1942)	1
		-	-	FC	Wu	PR	71 (1947)	118
OSe	Selenium oxide	-	-	Freq	Clark	TFS	33 (1937)	1390
		-	-	Freq	Clark	TFS	33 (1937)	1394
OSi	Silicon monoxide	-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	FC	Badger	PR	48 (1935)	284
		-	-	FC	Linnett	TFS	38 (1942)	1
		-	-	FC	Wu	PR	71 (1947)	118
		0.2-10μ	S	Spec	Hass	JOSA	39 (1949)	179
		0.4-14μ	S	Absorption	Hass	JOSA	43 (1953)	326
		0.2-14μ	S	Spec	Hass	JOSA	44 (1954)	181

		1-14 μ	-	Reflectance, transmission	Haas	JOSA	45 (1955)	945
		-	-	Mol. Const.	Scott	JOSA	45 (1955)	176
		-	-	FC	Baughan	TFS	53 (1957)	1046
		0.4-14 μ	-	Reflectance	Tousey	JOSA	47 (1957)	261
O_2	Oxygen	-	-	Thermo.	Urey	JACS	45 (1923)	1445
		-	G	Emission	Poetker	PR	30 (1927)	812
		-	-	Combustion	Garner	TFS	24 (1928)	470
		-	-	Absorption	Mulliken	PR	32 (1928)	880
		-	-	Morse potential	Morse	PR	34 (1929)	57
		1-4 μ	G	Emittence	Garner	TFS	26 (1930)	36
		-	-	Thermo.	Villars	JACS	52 (1932)	1733
		8.7 μ	G	Dispersion	Korff	RMP	4 (1932)	471
		-	-	FC	Lochte	TFS	28 (1932)	698
		-	L	Combination relation	Ellis	PR	44 (1933)	420
		-	-	Thermo.	Gordon	JCP	1 (1933)	297
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Freq	Meeke	TFS	30 (1934)	200
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	Freq	Clark	TFS	33 (1937)	1394
		-	-	I	Mulliken	JCP	7 (1939)	20
		-	-	Potential function	Linnett	TFS	36 (1940)	1123
		-	-	FC	Sutherland	JCP	8 (1940)	161
		-	-	Potential function	Clark	TFS	37 (1941)	299
		-	-	Thermo.	Hulburt	JCP	9 (1941)	61
		-	-	FC	Linnett	TFS	38 (1942)	1
		0.5 μ	G	Microwave	Beringer	PR	70 (1946)	53
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Microwave	VanVleck	PR	71 (1947)	413
		-	-	FC	Wu	PR	71 (1947)	118
		-	-	Spec	Coggeshall	JCP	15 (1947)	65
		15 μ	-	Absorption	Silverman	JCP	16 (1948)	155
		-	G,L	Absorption	Crawford	PR	75 (1949)	1607
		-	-	Band study	Herman	JCP	17 (1949)	220
		-	G	Zeeman effect	Kiess	JRNB	42 (1949)	183
		-	-	Absorption	Mizushima	PR	76 (1949)	1268
		4.3-6.4 μ	L	Liquid air band	Oxholm	PR	76 (1949)	151
		-	G	Absorption	Welsh	PR	76 (1949)	580
		2.8-4.4 μ	G	CO-O_2 explosion	Bullock	JCP	18 (1950)	1114
		6 μ	G	Spec	Chapman	PR	78 (1950)	333
		-	-			PR	76 (1950)	82
		1450-1725	L,S	Night sky Spec	Kaplan Smith	PR	79 (1950)	728

		–	–	Night sky	Kaplan	PR	78 (1950)	82
		1450-1725	L,S	Spec	Smith	PR	79 (1950)	728
		6.4 μ	G	Homopolar diatomics	VanAsseit	PR	79 (1950)	1016
		–	–	Pressure broadening	Mizushima	PR	83 (1951)	94
		2900-3300	G	I	Welsh	PR	83 (1951)	1264
		–	G	Recombination	Kaplan	PR	88 (1952)	157
		400-4000	L,S, Sol	Evidence for O_4 molecule	Smith	JCP	20 (1952)	1972
		–	–	Microwave	Artman	PR	96 (1954)	1237
		3904	G	Transmission	Fahrenfort	JCP	22 (1954)	1631
		–	–	Thermo.	Pennington	JCP	22 (1954)	1442
		–	–	Potential function	Lippincott	JCP	23 (1955)	1131
		–	–	Vib.	Penney	JCP	23 (1955)	1281
		–	–	Spec	Tinkham	PR	99 (1955)	537
		–	–	FC	Baughan	TFS	53 (1957)	1046
		2-25 μ	–	Spec, Assign	Harvey	JMS	2 (1958)	405
O_2^+	Oxygen ion	–	–	Morse potential	Morse	PR	34 (1929)	57
		–	–	l-type doubling theory	Mulliken	PR	38 (1931)	85
		–	–	Mol. Const.	Pekeris	PR	45 (1934)	98
		–	–	Potential function	Linnett	TFS	36 (1940)	1123
		–	–	Potential function	Clark	TFS	37 (1941)	299
		–	–	FC	Linnett	TFS	38 (1942)	1
O_2S	Sulfur dioxide	3.9-4.1 μ	G	Freq	Meyer	JOSA	15 (1927)	257
		20-33 μ	G	Transmission	Strong	PR	37 (1931)	1003
		6.7-33 μ	G	Transmission	Strong	PR	37 (1931)	1565
		–	–	Struct, Assign	Badger	PR	43 (1932)	305
		–	–	Isotope effect	Salant	PR	42 (1932)	812
		20.7-152 μ	G	Spec	Strong	PR	42 (1932)	267
		4.01-4.37 μ	–	Spec, Struct	Bailey	PRS	140 (1933)	605
		–	–	Quant. Mech.	Wilson	JCP	2 (1934)	432
		–	G	Thermo.	Cross	JCP	3 (1935)	825
		–	–	Vibrations	Duncan	JCP	3 (1935)	384
		–	–	FC	Penney	PRS	156 (1936)	654
		–	–	Rotational energy levels	Mulliken	PR	59 (1941)	873
		7-20 μ	–	Spec, Freq	Barker	RMP	14 (1942)	198
		–	–	FC	Glockler	RMP	15 (1943)	111
		–	–	Quant. Mech.	Glockler	JCP	13 (1945)	388
		–	G	Pressure broadening	Coggeshall	JAP	17 (1946)	450

		-	-	Anal	Duchesne	JCP	15 (1947)	631
		-	-	Spec	Dailey	AC	21 (1949)	540
		-	-	Force field	Linnett	TFS	45 (1949)	844
		-	-	Quant. Mech.	Torkington	JCP	17 (1949)	357
		-	-	Pressure broadening	Coggeshall	AC	22 (1950)	381
		-	-	Struct	Torkington	JPC	56 (1952)	336
		-	-	Vib.	Duchesne	JCP	21 (1953)	2005
		-	-	Ident	Haszeldine	JCS	- (1953)	3219
		470-8000	G	Assign, FC, Freq	Shelton	JCP	21 (1953)	2178
		-	G	FC	Kivelson	JCP	22 (1954)	904
		-	G	Ident	Moore	JACS	76 (1954)	5253
		-	-	Spec	Nielsen	JPR	15 (1954)	604
		-	G	FC	Polo	JCP	22 (1954)	900
		6-9 μ	G	Assign	Haszeldine	JCS	- (1955)	2901
		400-10000	L,Sol	Spec, Assign	Maybury	JCP	23 (1955)	1277
		-	-	Freq	Slowinski	JCP	23 (1955)	1933
		500-13400	S	Spec, Assign	Giguere	CJC	34 (1956)	1833
		2-15 μ	G	Spec	Pierson	AC	28 (1956)	1218
		500-2500	S	Spec, Assign	Wiener	JCP	25 (1956)	175
		-	G	I, NCA	Mayhood	CJP	35 (1957)	954
		-	-	Spec	Wertheimer	CPR	245 (1957)	1793
		1200-2500	Sol,G	Freq	Jones	JCP	28 (1958)	995
$O_2{}^{16}S$	Sulfur dioxide (isotopic)	500-2500	G	Freq, FC	Polo	JCP	22 (1954)	900
$O^{16}O^{18}S$	Sulfur dioxide (isotopic)	500-2500	G	Freq, FC	Polo	JCP	22 (1954)	900
$O_2{}^{18}S$	Sulfur dioxide (isotopic)	500-2500	G	Freq, FC	Polo	JCP	22 (1954)	900
O_2S^{33}	Sulfur dioxide (isotopic)	-	-	Spec, Struct	Smith	AJP	12 (1959)	109
O_2S^{34}	Sulfur dioxide (isotopic)	-	-	Spec, Struct	Smith	AJP	12 (1959)	109
O_2B	Metaborate ion	-	-	Anal, Assign	Nielsen	JCP	4 (1937)	201
O_2B_2	Boron dioxide	1200-3000	G	Struct	White	JCP	28 (1958)	508

O_2Se	Selenium dioxide	-	-	Anal	Duchesne	JCP	15 (1947)	631
		400-1900	S,G	Freq	Giguere	SA	16 (1960)	1
O_3	Ozone	9.6μ	G	Photochemical effect	Hibben	JACS	50 (1928)	931
		-	-	Thermo.	Villars	JACS	52 (1930)	1733
		-	-	Atmospheric temperature	Hulburt	PR	38 (1931)	1876
		-	-	Struct, Assign	Badger	PR	43 (1932)	305
		4.7-11.38μ	G	Spec, Struct	Gerhard	PR	42 (1932)	622
		-	-	Struct, Assign	Benedicts	PR	43 (1933)	580
		-	G	Assign	Kassel	JCP	1 (1933)	414
		5-21μ	G	Absorption	Adel	PR	47 (1935)	580
		-	G	Vib.	Duncan	JCP	3 (1935)	384
		9-10μ	G	Freq	Adel	PR	49 (1936)	288
		-	-	FC	Penney	PRS	156 (1936)	654
		-	-	Assign	Sutherland	PRS	156 (1936)	678
		9.66μ	G	Pressure effect	Strong	PR	57 (1940)	1049
		-	G	Spec	Adel	PR	59 (1941)	915
		9.6μ	G	Pressure effect	Summerfield	PR	59 (1941)	217
		9.6μ	G	Pressure effect	Summerfield	PR	60 (1941)	162
		-	-	Review	Mulliken	RMP	14 (1942)	204
		-	-	Assign	Simpson	TFS	41 (1945)	209
		9.75-14.2μ	-	Struct	Adel	JCP	14 (1946)	379
		-	-	Struct	Glockler	JCP	14 (1946)	505
		-	-	FC	Glockler	JCP	14 (1946)	531
		-	G	Atmospheric temperature	Adel	PR	71 (1947)	564
		-	-	Struct	Simpson	JCP	15 (1947)	846
		-	-	Struct	Dewar	JCS	- (1948)	1299
		1.5-15μ	G	Freq, Assign	Wilson	JCP	16 (1948)	741
		9.6μ	G	Atmospheric temperature	Benesch	PR	76 (1949)	863
		-	-	Quant. Mech.	Torkington	JCP	17 (1949)	357
		-	G	Theoretical	Badger	JCP	18 (1950)	998
		-	G	Assign	Badger	JCP	18 (1950)	998
		9-10μ	G	Spec	Gutowsky	JCP	18 (1950)	766
		1043-2108	G	Spec, Assign	Plass	PR	78 (1950)	334
		-	G	Radiation equilibria	Shaw	PR	79 (1950)	1017
		1043	G	Pressure broadening	Wilson	JCP	18 (1950)	564
		-	-	Assign, FC, Thermo.	Klein	JCP	19 (1951)	1068
		-	G	Struct	Williamson	AS	39 (1951)	672

		2-15 μ	G	Kinetics of reaction	Cadle	JACS	74 (1952)	6002
		1040	G	Struct	Darling	JCP	20 (1952)	747
		4.75 μ	G	Spec	Yarnell	JSI	29 (1952)	352
		9.2-10.1 μ	G	Concentration	Adel	PR	92 (1953)	1080
		1040	G	Reaction kinetics	Cadle	JCP	21 (1953)	163
		1110	G	Freq	Howard	JCP	21 (1953)	558
		-	G	Microwave	Trambarulo	JCP	21 (1953)	851
		-	-	Thermo.	Birdsall	JCP	23 (1955)	441
		-	G	Microwave	Gora	PR	99 (1955)	666
		-	G	Microwave	Pierce	PR	99 (1955)	666
		3-16 μ	G	Spec	Sloan	JOSA	45 (1955)	455
		-	G	Microwave	Hughes	JCP	24 (1956)	131
		9.6 μ	G	Spec	Kaplan	JCP	24 (1956)	1183
		-	G	FC	Pierce	JCP	24 (1956)	139
		-	-	FC	Smith	TFS	52 (1956)	891
		2-25 μ	S	Spec, Assign	Harvey	JMS	2 (1958)	405
		12000 Mc/Sec.	G	Spec, Mol. Const.	Gora	JMS	3 (1959)	78
O_3P	Phosphite radical	-	-	FC	Venkateswarlu	JCP	23 (1955)	2368
O_3S^{-2}	Sulfite ion	-	-	FC	Venkateswarlu	JCP	23 (1955)	2368
		947-1290	Sol	Spec	Antikainen	SK	31 (1958)	223
O_3S	Sulfur trioxide	-	-	Thermo.	Stockmayer	JCP	12 (1944)	408
		-	-	Force field	Heath	TFS	44 (1948)	873
		1069	-	Freq	Hahn	JCP	24 (1956)	921
$O_3S_2^{-2}$	Thiosulfate ion	947-1290	Sol	Spec	Antikainen	SK	31 (1958)	223
O_3As_2	Arsenic trioxide	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		2.5-40 μ	S	Spec, Struct	Cheremisinov	OS	7 (1959)	454
		300-880	S	Spec	Miller	SA	16 (1960)	135
		-	S	Spec, Struct	Sobolev	OS	9 (1960)	446
O_3B	Borate radical	-	-	FC	Venkateswarlu	JCP	23 (1955)	2368
O_3B_2	Boric anhydride	-	-	Solid-liquid transmission	Markin	IANS	22 (1958)	1097
		-	-	Struct	Taylor	JCP	28 (1958)	625
		1200-3000	G	Struct	White	JCP	28 (1958)	508
		-	-	Spec	Markin	OS	9 (1960)	587
		700-4000	G	Struct, FC, Assign	White	JCP	32 (1960)	481
O_3Se	Selenium trioxide	862	-	Freq	Hahn	JCP	24 (1956)	921

O_3Se	Selenium trioxide	862	-	Freq	Hahn	JCP	24 (1956)	921
O_4	Tetraoxygen	-	-	Proposed O_4 molecule	Smith	JCP	20 (1952)	1972
O_4P^{-3}	Phosphate ion	-	-	Force field	Heath	TFS	44 (1948)	884
		-	-	Force field	Linnett	TFS	48 (1952)	592
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2365
O_4S^{-2}	Sulfate ion	-	-	Freq	Taylor	TFS	25 (1929)	314
		-	-	Freq	Taylor	TFS	25 (1929)	830
		-	-	Vib.	Urey	PR	38 (1931)	1969
		-	-	Vib.	Rosenthal	PR	46 (1934)	730
		-	-	FC	Rosenthal	PR	49 (1936)	535
		-	-	FC	Heath	TFS	44 (1948)	884
		-	-	Quant. Mech.	Hornig	JCP	16 (1948)	1063
		-	-	FC	Linnett	TFS	48 (1952)	592
		-	S	Freq	Mizushima	JACS	75 (1953)	4870
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2365
		947-1290	Sol	Spec	Antikainen	SK	31 (1958)	223
		-	-	FC	Pistorius	JCP	28 (1958)	514
O_4As^{-2}	Arsenate ion	837	-	Freq	Hahn	JCP	24 (1956)	921
O_4Se^{-2}	Selenate ion	-	-	Freq	Taylor	TFS	25 (1929)	314
		-	-	FC	Heath	TFS	44 (1948)	884
		-	-	FC	Linnett	TFS	48 (1952)	592
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2365
		-	-	FC	Pistorius	JCP	28 (1958)	514
O_4Si	Silica radical	-	-	Freq	Taylor	TFS	25 (1929)	314
		2-4.2 μ	S	Effect of H_2O during fusing	Garino-Canina	CPR	239 (1954)	705
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2365
O_4Si^{-2}	Silicate ion	800-1050	S	Spec	Wickersheim	JCP	32 (1960)	271
O_5As_2	Arsenic pentoxide	300-880	S	Spec	Miller	SA	16 (1960)	135
O_6P_4	Phosphorous trioxide	-	-	Bond study	Huggins	JACS	75 (1953)	4126
$O_6S_4^{-2}$	Tetrathionate ion	947-1290	Sol	Spec	Antikainen	SK	31 (1958)	223

O_6B_4	Boron oxide glass	-	-	FC	Wooley	PR	74 (1948)	1247
		-	-	Freq	Fajans	JACS	74 (1952)	2761
		-	S	Reflection and transmission	Anderson	JOSA	44 (1954)	826
O_7P_2Si	Silicon pyrophosphate	-	-	Spec	Steger	ZAUA	303 (1960)	169
$O_{10}P_4$	Phosphorous pentoxide	2-21μ	S	Spec	Daasch	AC	23 (1951)	853
PAs	Arsenic phosphide	-	-	Freq	Clark	TFS	33 (1937)	1390
P_2	Phosphorous (diatomic)	-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Mol. Const.	Pekéris	PR	45 (1934)	98
		-	-	Thermo.	Anderson	JCP	4 (1936)	529
		-	-	Freq	Clark	TFS	33 (1937)	1398
		-	-	Thermo., FC	Sutherland	JCP	8 (1940)	161
		-	-	Thermo.	Stevenson	JCP	9 (1941)	403
		-	-	FC	Linnett	TFS	38 (1942)	1
		-	-	Potential function	Lippincott	JCP	23 (1955)	1131
P_4	Phosphorous (tetraatomic)	5-50μ	S	Absorption	Cartwright	PR	35 (1930)	415
		0.22-1.08	S	Spec	Kiess	JRNB	8 (1932)	393
		-	-	Thermo.	Anderson	JCP	4 (1936)	529
		-	-	Thermo.	Stevenson	JCP	9 (1941)	403
		2-25μ	L	Spec, Assign	Bernstein	JCP	18 (1950)	1018
		400-1300	G,L,S, Sol	Spec, Assign	Gutowsky	JACS	72 (1950)	5751
		-	-	FC	Slater	TFS	50 (1954)	207
P_4S_3	Phosphorus sulphide	200-1200	S,Sol	Spec, FC	Gerding	RTC	76 (1957)	757
SB	Boron monosulfide	-	G	Mol. Const.	Zeeman	CJP	29 (1951)	336
SSe	Selenium sulfide	-	-	Freq	Clark	TFS	33 (1937)	1390
		-	-	Freq	Clark	TFS	33 (1937)	1394
S_2	Sulfur (diatomic)	-	G	Emission	Johansen	JCS	102 (1912)	102
		4-15μ	G	Spec	Taylor	TFS	25 (1929)	929
		-	-	FC	Lochte Holtgreven	TFS	28 (1932)	698
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Thermo.	Cross	JCP	3 (1935)	168

		-	-	Freq	Clark	TFS	33 (1937)	1390
		-	-	Freq	Clark	TFS	33 (1937)	1394
		-	-	FC	Sutherland	JCP	8 (1940)	161
		-	-	FC	Linnett	TFS	38 (1942)	1
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	FC	Wu	PR	71 (1947)	118
		0.8-20 μ	S	Reflectance	Agnew	JOSA	43 (1953)	823
		-	-	Potential function	Lippincott	JCP	23 (1955)	1131
		-	-	Use as solvent	Baudern	AC	29 (1957)	166
S_2B_2	Boron disulfide	650-3500	G	Assign, Thermo.	Sommer	JCP	33 (1960)	296
S_3As_2	Arsenic trisulfide	-	S	Properties	Fraser	JOSA	43 (1953)	332
		-	S	Glasses study	Fraser	JOSA	43 (1953)	823
		1-15 μ	S	Spec	Frerichs	JOSA	43 (1953)	1153
		1-6 μ	S	Refractive index	Jaffee	JOSA	47 (1957)	782
S_3B_2	Boron trisulfide	650-3500	G	Assign, Thermo.	Sommer	JCP	33 (1960)	296
S_4As^{-3}	Arsenic tetrasulfide ion	-	-	FC	Pistorius	JCP	28 (1958)	514
S_8	Sulfur (rhombic)	10-130 μ	S	Spec	Barnes	PR	39 (1932)	562
		-	-	Selection rule	Halford	JCP	14 (1946)	8
		1.05 μ	S	Dispersion	Lapeschkin	JPC	51 (1947)	875
		2-25 μ	L,S	Spec, Assign	Bernstein	JCP	18 (1950)	1018
		700-1500	S	Spec	Agnew	JOSA	43 (1953)	999
		0.8-20 μ	S	Reflectance	Barrow	JCP	21 (1953)	219
		86-532	G	Assign, Thermo., Struct	Guthrie	JACS	76 (1954)	1488
		-	-	NCA, FC	Pistorius	JMS	3 (1959)	101
As_2Se_3	Arsenic triselenide	-	S	Glasses	Fraser	JOSA	43 (1953)	823
He_2	Helium molecule	-	-	l-type doubling theory	Mulliken	PR	38 (1931)	85
Se_2	Selenium	-	S	Photoconductivity	Nicholson	PR	3 (1914)	1
		0.5-2.4 μ	S	Photoelectric properties	Coblentz	BBS	15 (1919)	121
		107 μ	S	Transmission	Weniger	JOSA	7 (1923)	517
		-	-	FC	Lochte-Holtgreven	TFS	28 (1932)	698

0.6-1.2 μ	S	Spec	Nix	RMP	4	(1932)	723
1-11 μ	S	Transmission	Pfund	JOSA	23	(1933)	375
-	-	Spec	Ruedy	PR	46	(1934)	880
45-125 μ	S	Spec	Barnes	JOSA	26	(1936)	428
-	-	Freq	Clark	TFS	33	(1937)	1394
-	-	Freq	Clark	TFS	33	(1937)	1398
20.7-152 μ	S	Transmission	Seifert	RSI	11	(1940)	365
-	-	FC	Sutherland	JCP	8	(1940)	161
-	-	Polarizer	Pfund	JOSA	36	(1946)	715
-	S	Polarizer	Ames	JSI	26	(1949)	132
1-25 μ	S	Spec	Gebbie	JOSA	42	(1952)	277
0.8-20 μ	S	Reflectance	Agnew	JOSA	43	(1953)	823
0.8-20 μ	S	Reflectance	Agnew	JOSA	43	(1953)	999
-	S	Polarization	Conn	JOSA	44	(1954)	553
0-80 μ	L,S	Spec	Caldwell	PR	100	(1955)	1251
-	-	Potential function	Lippincott	JCP	23	(1955)	1131

IIb. Inorganic Compounds of Metals

(Containing elements other than those in IIa)

Formula	Name	Range	State	Remarks	Reference			
Ag COMPOUNDS								
$AgCHF_3O_3As$	Monosilver trifluoromethyl acid arsonate	-	-	Freq	Emeleus	JCS	- (1954)	881
$AgCH_3N_2O_2$	Silver methyl nitramide	670-4000	S	Assign, Struct	Jonathan	JMS	5 (1960)	101
$AgCF_3O_3S$	Silver trifluoromethanesulfonate	-	-	Group freq	Haszeldine	JCS	- (1954)	4228
		7-10 μ	S	Assign, Correlation	Haszeldine	JCS	- (1955)	2901
AgCN	Silver cyanide	-	S	Residual rays	Weniger	JOSA	7 (1923)	517
		0-8.7 μ	-	Dispersion formula	Korff	RMP	4 (1932)	471
		1800-2500	S	Spec, Anal	Stallcup	JCP	10 (1942)	199
		2100	S,Sol	Spec	Jones	JCP	22 (1954)	965
		2164	S	Freq	Penneman	JCP	24 (1956)	293
		300-880	S	Spec	Miller	SA	16 (1960)	135
AgCNO	Silver cyanate	2-16 μ	S	Spec "highest purity"	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
AgCNO	Silver isocyanate	400-4000	S	Spec	Waddington	JCS	- (1959)	2499
AgCNS	Silver thiocyanate	-	S	Group freq, Band freq, Config.	Mitchell	JCS	- (1960)	1912
$AgC_2H_3N_2S_2$	Silver rubeanate	400-4000	Sol	Struct	Barcelo	SA	10 (1958)	245
$AgC_2H_6O_4PO$	Dimethylsilver phosphate	-	-	Spec	Maarsen	RTC	76 (1957)	724
$AgC_2F_6O_2P$	Silver bistrifluoromethylphosphinate	-	-	Group freq	Emeleus	JCS	- (1955)	563
$AgC_2F_6O_2As$	Silver bistrifluoromethylarsinate	-	S	Group freq	Emeleus	JCS	- (1953)	1552
		-	-	Group freq	Emeleus	JCS	- (1954)	881
AgC_2N_2	Silver dicyanide ion	-	-	Group freq	Linnett	JCS	- (1937)	1399
		-	-	Spec, Freq	Jones	JCP	22 (1954)	965
		2135	Sol	Freq, I	Penneman	JCP	24 (1956)	293
		250-2200	S	Spec, Assign	Hidalgo	ARS	56A (1960)	9
AgC_2N_2K	Potassium silver cyanide complex	4422-5.4 μ	Sol	Spec	Gordy	JCP	5 (1935)	664
		2135	Sol,S	Freq	Jones	JCP	22 (1954)	965

		1900–4500	S	Spec, Assign, Struct, Correlation, Force constant	Jones	JCP	26 (1957)	1578
		250–2200	-	Assign	Hidalgo	CPR	249 (1959)	233
$AgC_3H_4NO_2$	3-Isooxazolidinone silver salt	3–14 μ	S	Spec	Hidy	JACS	77 (1955)	2345
$AgC_3H_5N_2O_2$	Cycloserine silver salt	3–14 μ	S	Spec, Band freq, Group freq	Hidy	JACS	77 (1955)	2345
$AgC_3F_5O_2$	Silver pentafluoro propionate	-	-	Ident	Haszeldine	JCS	- (1953)	2075
AgC_3N_3	Silver tricyanide ion	2100	Sol	Spec, Freq	Jones	JCP	22 (1954)	965
		2105	Sol	Freq, I	Penneman	JCP	24 (1956)	293
$AgC_4H_8Cl_4O_2$	Silver perchlorate dioxane complex	-	S	Symmetry, Thermo	Daasch	SA	15 (1959)	726
$AgC_4H_{10}O_4P$	Diethyl silver phosphate	-	-	Spec	Maarsen	RTC	76 (1957)	724
AgC_4N_4	Silver tetracyanide ion	2100	Sol	Spec, Freq	Jones	JCP	22 (1954)	965
		2092	Sol	Freq, I	Penneman	JCP	24 (1956)	293
$AgC_4N_4K_3$	Potassium silver tetracyanide ion	2100	S,Sol	Freq	Jones	JCP	22 (1954)	965
$AgC_5H_7O_2$	Silver(I)-acetyl acetone complex	625–5000	S	Spec, Struct	West	JINC	5 (1958)	295
$AgC_6H_4ClN_2O_3S$	Silver-o-chloro-benzenediazo sulfonate	600–1800	S	Spec, Assign	LeFevre	AJC	6 (1953)	341
$AgC_6H_4ClN_2O_3S$	Silver-p-chloro-benzenediazo-sulfonate	600–1800	S	Spec, Assign	LeFevre	AJC	6 (1953)	341
$AgC_6H_6ClO_4$	Silverperchlorate benzene complex	650–5000	S	Symmetry, Thermo	Daasch	SA	15 (1959)	726

$AgC_6H_{14}O_4P$	Di-i-propyl silver phosphate	-	-	Spec	Maarsen	RTC	76 (1957)	724
$AgC_8H_8ClO_4$	Silverperchlorate benzene complex	650-5000	S	Symmetry, Thermo	Daasoh	SA	15 (1959)	726
$AgC_8H_{15}O$	n-Octanoic acid, silver soap	-	S	Anal	Meiklejohn	AC	29 (1957)	329
$AgC_8H_{18}O_4P$	Silver di-n-butyl phosphate	670-3500	-	Spec, Assign	Bellamy	JCS	- (1953)	728
$AgC_9H_{17}O_2$	n-Nonoic acid, silver soap	-	S	Anal	Meiklejohn	AC	29 (1957)	329
$AgC_{10}H_{19}O_2$	n-Decanoic acid, silver soap	-	S	Anal	Meiklejohn	AC	29 (1957)	329
$AgC_{11}H_{21}O_2$	n-Hendecanoic acid, silver soap	-	S	Anal	Meiklejohn	AC	29 (1957)	329
$AgC_{12}H_4Cl_6O_4P$	Silver-di-2,4,6-trichlorophenyl phosphate	-	-	Group freq	Bellamy	JCS	- (1952)	1701
$AgC_{12}H_{10}O_4P$	Silver diphenyl phosphate	-	-	Group freq	Bellamy	JCS	- (1952)	1701
$AgC_{12}H_{11}NO_3P$	Silver phenyl anilinophosphonate	-	-	Group freq	Bellamy	JCS	- (1952)	1701
$AgC_{12}H_{12}ClO_4$	Silver perchlorate benzene complex	650-5000	S	Symmetry, Thermo	Daasch	SA	15 (1959)	726
$AgC_{12}H_{12}N_2O_2P$	Silver dianilino phosphinate	-	-	Group freq	Bellamy	JCS	- (1952)	1701
$AgC_{12}H_{23}O_2$	n-Dodecanoic acid, silver soap	-	S	Anal	Meiklejohn	AC	29 (1957)	329
$AgC_{12}H_{24}ClO_{10}$	Silver perchlorate dioxane complex	-	S	Symmetry, Thermo	Daasch	SA	15 (1959)	726

$AgC_{13}H_{25}O_2$	n-Tridecanoic acid, silver soap	-	S	Anal	Meiklejohn	AC	29 (1957)	329
$AgC_{14}H_{14}O_4P$	Silver dibenzyl phosphate	-	-	Group freq	Bellamy	JCS	- (1952)	1701
		670-3500	-	Spec, Assign	Bellamy	JCS	- (1953)	728
$AgC_{14}H_{27}O_2$	n-Tetradecanoic acid, silver soap	-	S	Anal	Meiklejohn	AC	29 (1957)	329
$AgC_{16}H_{31}O_2$	n-Hexadecanoic acid, silver soap	-	S	Anal	Meiklejohn	AC	29 (1957)	329
$AgC_{16}H_{34}O_4P$	Silver bis-2-ethyl-hexyl phosphate	670-3500	-	Spec, Assign	Bellamy	JCS	- (1953)	728
$AgC_{17}H_{33}O_2$	n-Heptadecanoic acid, silver soap	-	S	Anal	Meiklejohn	AC	29 (1957)	329
$AgC_{18}H_{18}ClO_4$	Silver perchlorate benzene complex	650-5000	S	Symmetry, Thermo	Daasch	SA	15 (1959)	726
$AgC_{18}H_{35}O_2$	n-Octadecanoic acid, silver soap	-	S	Anal	Meiklejohn	AC	29 (1957)	329
$AgC_{18}H_{35}O_2$	Silver stearate	710-730	S	Correlation	Chapman	JCS	- (1957)	4489
$AgC_{19}H_{37}O_2$	n-Nonadecanoic acid, silver soap	-	S	Anal	Meiklejohn	AC	29 (1957)	329
$AgC_{20}H_{39}O_2$	n-Eicosanoic acid, silver soap	-	S	Anal	Meiklejohn	AC	29 (1957)	329
$AgC_{24}H_{16}ClN_4O_4$	Silver (I)-1,10-phenanthroline complex perchlorate	600-2000	S	Spec	Schitt	JINC	9 (1959)	211
$AgC_{65}H_{123}NO_{12}P$	α,β-Dilauroyl-kephalin silver salt salt	-	-	Assign	Bellamy	JCS	- (1953)	728
AgH	Silver hydride	-	-	Rot-vib coupling	Pekeris	PR	45 (1934)	98
		-	-	Force constant, Bond distance	Platt	JCP	18 (1950)	932

		-	-	Force constant, Bond distance	Sheline	JCP	18 (1950)	927
AgH_2NO_3S	Silver sulfamate	-	S	Freq, Assign	Bicelli	AC	47 (1957)	1380
AgBr	Silver bromide	-	S	Vibration freq theory	Nichols	PR	21 (1923)	712
		112.7 μ	S	Residual ray	Weniger	JOSA	7 (1923)	517
		112.7 μ	S	Residual ray	Schaefer	TFS	25 (1929)	841
		0-8.7 μ	-	Dispersion formula	Kroff	RMP	4 (1932)	471
$AgBrO_3$	Silver bromate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
AgCl	Silver chloride	-	S	Vibration freq theory	Nichols	PR	21 (1923)	712
		74-90 μ	S	Residual rays	Weniger	JOSA	7 (1923)	517
		81.5 μ	S	Residual ray	Schaefer	TFS	25 (1929)	841
		0-8.7 μ	-	Dispersion formula	Kroff	RMP	4 (1932)	471
		1-15 μ	S	Preparation, Transmission	Fugassi	RSI	13 (1942)	335
		3-15 μ	S	Transmission	Fuoss	RSI	16 (1945)	154
		0.5-17 μ	S	Transmission	Billings	JOSA	37 (1947)	119
		8-13 μ	S	Index of refraction	Hyde	JOSA	37 (1947)	984A
		0.5-13 μ	S	Reflection, Transmission, Spec	Hyman	JOSA	37 (1947)	113
		1-24 μ	S	Spec	Kremers	JOSA	37 (1947)	337
		2-15 μ	S	Transmission	Axilrod	JAP	19 (1948)	213
		0-2 μ	S	Photoconductivity	Banks	PR	74 (1948)	1207
		0-1 μ	S	Photoconductivity	Cadwell	PR	74 (1948)	1207
		24-29 μ	S	Transmission, Spec	Plyler	JRNB	41 (1948)	125
		-	S	Cold flow	Combes	JOSA	39 (1949)	635
		1-5.5 μ	S	Refractive index	Titton	JOSA	40 (1950)	540
		2-16 μ	S	Lenses for micro samples	Anderson	JOSA	43 (1953)	777
		1.67-4.80 μ	-	Errors in dichroic ratio from AgCl polarizers	Charney	JOSA	45 (1955)	980
		-	-	New arrangement for AgCl polarizer	Makas	JOSA	45 (1955)	998
		-	-	Technique for polishing AgCl plates	Mitzner	JOSA	47 (1957)	328

$AgCl+Ag_2S$	Silverchloride filter, covered with film of silver sulfide	1-16 μ	S	Spec	Eastman	AC	26 (1954)	31
$AgClO_4$	Silver perchlorate	400-4000	Sol	Spec	Pullin	TFS	54 (1958)	11
$AgFO_3S$	Silver fluoro sulphate	550-2400	S	Assign	Sharp	JCS	- (1957)	3761
$AgNO_2$	Silver nitrite	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		700-4000	S	Spec, Force constant	Weston	JCP	27 (1957)	683
		300-880	S	Spec	Miller	SA	16 (1960)	135
$AgNO_3$	Silver nitrate	0.8-2.3 μ	Sol	Solute effect on water spec	Collins	PR	20 (1922)	486
		6-9 μ	S	Reflection from compressed powder	Sanderson	JOSA	30 (1940)	566
		2-16 μ	S	Spec, Band study	Miller	AC	24 (1952)	1253
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		2-15 μ	S	Spec	Addison	JCS	- (1960)	613
		-	S	Freq	Anber	JCS	- (1960)	1242
		700-1600	S	Absorp freq, Assign	Ferraro	JMS	5 (1960)	99
		300-800	S	Spec	Miller	SA	16 (1960)	135
$Ag_2CH_3O_3P$	Disilver methyl-phosphonate	704-3330	S	I, Group freq	Corbridge	JCS	- (1954)	4555
$Ag_2CF_3O_3As$	Disilver trifluoro-methylarsonate	-	-	Group freq	Emeleus	JCS	- (1954)	881
Ag_2CO_3	Silver carbonate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-800	S	Spec	Miller	SA	16 (1960)	135
$Ag_2C_2H_5O_4P$	Disilver phenyl phosphate	-	-	Group freq	Bellamy	JCS	- (1952)	1701
$Ag_2H_2NO_3P$	Disilver phosphoramidate	2-15 μ	S	Group freq, I, Assign	Corbridge	JCS	- (1954)	493
		650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Ag_2H_3IO_6$	Disilver para-	300-3000	S	Freq, Spec	Blinc	MP	1 (1957)	391
$Ag_2H_{12}N_4O_4S$	Silver (I) ammonia	740-3300	S,Sol	Assign, Freq	Powell	JCS	- (1956)	3108

$Ag_2H_{12}N_4O_4S$	Silver (I) ammonia complex sulphate	740-3300	S,Sol	Assign, Freq	Powell	JCS	- (1956)	3108
		650-1650	S	Group freq, Symmetry	Swatos	JACS	79 (1957)	3313
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467
$Ag_2D_3IO_6$	Disilver paraperiodic acid-d_3	300-3000	S	Freq, Spec	Blinc	MP	1 (1957)	391
$Ag_2D_{12}N_4O_4S$	Silver (I) ammonia complex sulphate-d_6	950	Sol	Assign, Freq	Powell	JCS	- (1956)	3108
Ag_2FO_3P	Disilver monofluoro-phosphate	720-1210	S	I, Group freq	Corbridge	JCS	- (1954)	4555
		650-5000	S	Spec	Pustinger	SA	15 (1959)	909
Ag_2O_4S	Silver sulfate	300-880	S	Spec	Miller	SA	16 (1960)	135
Ag_2O_4Se	Silver selenate	290-650	S	Assign	Duval	CPR	239 (1954)	249
		220-3500	S	Spec, Struct	Duval	ZE	64 (1960)	582
Ag_2S	Silver sulfide	25750	-	Absorption	Cartwright	PR	35 (1930)	415
		4-24 μ	S	Reflectance spec, Filter study	Plyler	JOSA	42 (1952)	266
		1-1.8 μ	S	Temp. dependence of absorption	Lehovec	JCP	21 (1953)	54
$Ag_3H_2N_2O_7P_3$	Silver diimido trimetaphosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Ag_3H_3N_3O_6P_3$	Silver trimeta-phosphimate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Ag_3H_3N_3O_6P_3$	Trisilver triphos-phonitritate	787-1338	S	I, Group freq	Corbridge	JCS	- (1954)	4555
Ag_3O_4P	Silver orthophosphate	2-15 μ	S	Band & Group freq, I, Assign	Corbridge	JCS	- (1954)	493
		290-650	S	Assign	Duval	CPR	239 (1954)	249

		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		650-5000	S	Spec	Pustinger	SA	15 (1959)	909
Ag_3O_4As	Silver arsenate	290-650	S	Assign	Duval	CPR	239 (1954)	249
$Ag_3O_9P_3$	Trisilver trimeta-phosphate	2-15 μ	S	Group freq, I, Assign	Corbridge	JCS	- (1954)	493
		650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Ag_4HNO_6P_2$	Tetrasilver imidodiphosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Ag_4H_4N_4O_8P_4$	Silver tetrameta-phosphimate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Ag_4H_4N_4O_8P_4$	Tetrasilver tetra-phosphonitritate	710-1387	S	Table, I, Group freq	Corbridge	JCS	- (1954)	4555
$Ag_4O_7P_2$	Tetrasilver pyrophosphate	2-15 μ	S	Table, I, Group freq	Corbridge	JCS	- (1954)	493
		650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Ag_4O_{12}P_4$	Silver tetrameta-phosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Ag_4O_{12}P_4 \cdot 2H_2O$	Tetrasilver tetra metaphosphate dihydrate	2-15 μ	S	Group freq, I, Assign	Corbridge	JCS	- (1954)	493
$Ag_5NO_6P_2$	Pentasilver imido diphosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Ag_5O_{10}P_3$	Pentasilver triphosphate	2-15 μ	S	Group freq, I, Assign	Corbridge	JCS	- (1954)	493
		650-5000	S	Spec	Pustinger	SA	15 (1959)	909

Al COMPOUNDS

AlC	Aluminium monocarbide	-	G	Freq analysis	Zeeman	CJP	32 (1954)	9
$AlCH_3Br_3NO_2$	Nitromethane: Aluminium-bromide adduct	-	-	Spec	Gagnaux	HCA	41 (1958)	1322

$AlCH_6N_3O_8S_2$ Guanidine—aluminium — Spec, Struct Lafon CPR 247 (1959) 2139

$AlCH_6N_3O_8S_2 \cdot 6H_2O$	Guanidine-aluminium sulfate hexahydrate	-	-	Spec, Struct	Lafon	CPR	247 (1958)	2120
$AlCD_6N_3O_8S_2 \cdot 6H_2O$	Guanidine-d_6-aluminium sulphate hexahydrate-d_6	-	-	Spec, Struct	Lafon	CPR	247 (1958)	2120
$AlC_2H_3Cl_4O$	Liquid complex of $AlCl_3$ with CH_3COCl	350-4000	L,Sol	Band assign, Struct, Spec	Cook	CJC	37 (1959)	48
AlC_3H_9	Trimethylaluminium	3.38-14.35 μ	G	Table	Pitzer	JACS	68 (1946)	2204
		800-4000	-	Spec, Freq anal	Pitzer	JCP	16 (1948)	552
		-	-	Force constant	Sheline	JCP	18 (1950)	602
$AlC_3H_{12}N$	Aluminium hydride trimethylamine	-	Sol	Spec, Freq	Schomburg	ZE	61 (1957)	1110
		-	-	Spec	Dantel	ZE	64 (1960)	1234
$AlC_3H_{16}Br_2N$	Dibromoaluminium hydride triethyl-amine	-	Sol	Spec, Freq	Schomburg	ZE	61 (1957)	1110
$AlC_3H_{18}N$	Aluminium hydride triethylamine	-	Sol	Spec, Freq	Schomburg	ZE	61 (1957)	1110
$AlC_4H_8Cl_3O_2$	Aluminium (III) dioxane complex chloride	500-1500	S	Spec, Struct	Hendara	JCS	- (1960)	5105
$AlC_4H_{10}D$	Diethyl aluminium hydride-d_1	-	-	Spec	Hoffman	ZE	61 (1957)	1101
AlC_4H_{11}	Diethyl aluminium hydride	-	-	Spec	Hoffman	ZE	61 (1957)	1101
		4.85-7.50 μ	Sol	Quant anal	Hudson	AC	29 (1957)	1895
$AlC_4H_{11}Br_2O$	Dibromo aluminium hydride ethyl ether adduct	-	Sol	Freq, Spec	Schomburg	ZE	61 (1957)	1110
$AlC_4H_{11}O$	Monoethylmonoethoxy aluminium hydride	-	-	Spec	Hoffman	ZE	61 (1957)	1101

$AlC_4H_{11}O$	Aluminium hydride tetrahydrofuran	-	-	Spec	Dautel	ZE	64 (1960)	1234
$AlC_4H_{11}O_3$	Aluminium hydride dioxane	-	-	Spec	Dautel	ZE	64 (1960)	1234
$AlC_4H_{13}O$	Aluminium hydride ethyl ether	-	-	Spec	Dautel	ZE	64 (1960)	1234
$AlC_6H_4Br_3ClNO_2$	p-Chloronitrobenzene: $AlBr_3$ adduct	-	-	Spec	Gagnaux	HCA	41 (1958)	1322
$AlC_6H_6O_{15}K_3$	Aluminium (III)-oxalate (Potassium salt) trihydrate	2-15μ	S	Spec, Freq, Assign	Schmelz	SA	9 (1957)	51
AlC_6H_{15}	Triethylaluminium	4μ	-	Spec	Hoffman	ZE	61 (1957)	1101
		4.85-9.08μ	Sol	Anal	Hudson	AC	29 (1957)	1895
$AlC_6H_{15}O$	Diethylaluminium ethoxide	4.85-9.08μ	Sol	Anal	Hudson	AC	29 (1957)	1895
$AlC_6H_{16}Cl_2N$	Dichloro aluminium hydride triethyl-amine	-	Sol	Spec, Freq	Schomburg	ZE	61 (1957)	1110
$AlC_6H_{17}BrN$	Mono aluminium bromohydride	-	Sol	Spec, Freq	Schomburg	ZE	61 (1957)	1110
$AlC_6H_{21}N$	Aluminium hydride triethylamine	-	-	Spec	Dautel	ZE	64 (1960)	1234
$AlC_6H_{21}N_2$	Aluminium hydride trimethylamine	-	Sol	Spec, Freq	Schomburg	ZE	61 (1957)	1110
		-	S	Spec	Dautel	ZE	64 (1960)	1234
$AlC_6O_{12}K_3 \cdot 3H_2O$	Aluminium (III)-oxalate complex (K-salt) trihydrate	-	-	Struct	Gaufers	CPR	248 (1959)	81
$AlC_7H_7Br_3NO_2$	p-Methylnitrobenzene: $AlBr_3$ adduct	-	-	Spec	Gagnaux	HCA	41 (1958)	1322
AlC_8H_{19}	Di-sec-butyl aluminium hydride	-	-	Spec	Hoffman	ZE	61 (1957)	1101

AlC_8H_{19}	Di-sec-butyl aluminium hydride	-	-	Spec	Hoffman	ZE	61 (1957)	1101
$AlC_8H_{21}I_2O_2$	Diiodo aluminium hydride ethyl ether	-	Sol	Freq, Spec	Schomburg	ZE	61 (1957)	1110
$AlC_9H_{12}O_{15}K_3 \cdot 3H_2O$	Al (III) melanic acid complex (K-salt)	2-15 μ	S	Spec, Freq assign, Metal bond	Schmelz	JACS	81 (1959)	287
$AlC_9H_{21}O_3$	Aluminium triiso-propoxide	2-15 μ	Sol	Spec, Group freq, Band freq, I	Bell	AC	25 (1953)	1720
$AlC_{10}H_{12}N_2O_8Na \cdot xH_2O$	Aluminium (III)-ethylenediamine tetraacetic acid complex (sodium salt) polyhydrate	800-1800	S	Spec, Bonding	Donald	JACS	82 (1960)	4191
$AlC_{10}H_{13}Br_3NO_2$	p-Ter-butyl-nitrobenzene: $AlBr_3$ adduct	-	-	Spec	Gagnaux	HCA	41 (1958)	1322
$AlC_{10}H_{25}O$	Triethyl aluminium ethyl ether adduct	-	-	Spec, Assign	Hoffman	ZE	64 (1960)	616
$AlC_{15}H_{21}O_6$	Aluminium (III)-acetyl acetone complex	625-5000	S	Spec, Struct	West	JINC	5 (1958)	295
		280-1700	-	Bond study	Nakamoto	N	183 (1959)	459
$AlC_{18}H_{16}Cl_4N$	Aluminium chloride triphenyl ammonium chloride adduct	-	S	H bond, Band freq	Nuttall	JCS	- (1960)	4965
$AlC_{24}H_{54}O_{12}P_3$	Aluminium-di-n-butyl phosphate	714-5000	S	Interaction study	Smith	JINC	9 (1959)	150
$AlC_{27}H_{18}N_3O_3$	Aluminium (III)-8-hydroxyquinoline chelate	-	S	Spec	Charles	AC	25 (1953)	530
		8-15 μ	S	Spec	Charles	SA	8 (1956)	1
		700-800	L	Bonding, Struct	Sidorov	OS	6 (1959)	812

$AlC_{30}H_{27}O_6$	Aluminium (III)-benzoylacetone complex	280–1700	–	Bond study	Nakamoto	N	183 (1959)	459
$AlC_{36}H_{69}O_6$	Aluminium trilaurate	2–16 μ	Sol	Struct, Assign	Leger	CJC	35 (1957)	799
AlH	Aluminium monohydride	–	–	π-type doubling theory	Mulliken	PR	38 (1931)	85
		–	–	Force constants, Bond distance	Badger	JCP	2 (1934)	128
		–	–	Rot-vib coupling constants	Pekeris	PR	45 (1934)	98
		–	–	Force constant, Bond distance	Wu	PR	71 (1947)	118
		–	–	Force constant, Bond distance	Platt	JCP	18 (1950)	932
		–	–	Force constant, Bond distance	Sheline	JCP	18 (1950)	927
		4241Å	G	Freq, Spec	Zeeman	CJP	32 (1954)	535
		–	–	Force const	Mitra	JCP	22 (1954)	564
AlH_4	Aluminium hydride ion	–	–	Band study, Force constants	Woodward	TFS	52 (1956)	1458
		–	–	Force constant	Pistorius	JCP	27 (1957)	965
$AlH_{12}F_6N_3$	Triammonium aluminium hexafluoride	–	S	Group and Band freq	Cox	JCS	– (1954)	1798
$AlH_{12}B_3$	Aluminium boro hydride	2–15 μ	G	Spec, Anal, Assign	Price	JCP	17 (1949)	1044
		–	–	Absorp freq	Price	JCP	17 (1949)	217
$AlCl_3$	Aluminium chloride	8–2.3 μ	Sol	Solute effect on H_2O	Collins	PR	20 (1922)	486
		–	–	Force const	Venkateswarlu	JCP	23 (1955)	2368
		325–1200	G	Absorp, Emission, Freq	Klemperer	JCP	24 (1956)	353
$AlCl_3.6H_2O$	Aluminium chloride hexahydrate	800–4000	S	Hydrates studied	Lucchesi	JACS	78 (1956)	1347
$AlCl_4NO$	Nitrosonium tetra chloroaluminate	800–2600	S,Sol	Freq	Miller	JCS	– (1957)	1369
AlF	Aluminium mono-	6670–8175A°	G	Freq anal, Molecular	Naude	CJP	31 (1953)	1106

AlF	Aluminium mono-fluoride	6670-8175A°	G	Freq anal, Molecular constants	Naude	CJP	31 (1953)	1106
		-	G	Rotational analysis	Naude	CJP	32 (1954)	246
		-	G	Band study, Thermo	Barrow	TFS	52 (1956)	913
AlF_4	Aluminium (III)-fluoride complex anion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
AlF_4K	Potassium aluminium fluoride	-	-	Freq	deLattre	JCP	20 (1952)	1180
AlN_3O_9	Aluminium nitrate	0.8-2.3μ	Sol	Solute effect on H_2O	Collins	PR	20 (1922)	486
		2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
$AlN_3O_9 \cdot 9H_2O$	Aluminium nitrate nonahydrate	400-800	S	Variation of H_2O fundamentals with the nature of the hydrates	Lucchesi	JACS	78 (1956)	1347
		300-880	S	Spec	Miller	SA	16 (1960)	135
AlO	Aluminium oxide	-	-	Morse potential	Morse	PR	34 (1929)	57
		-	-	Force constant, Bond distance	Badger	JCP	2 (1934)	128
		-	-	Rot-vib coupling constants	Pekeris	PR	45 (1934)	98
AlO	Aluminium monooxide	-	-	Rotational analysis	Largerquist	AF	12 (1957)	543
AlO_2Na	Sodium aluminate	410-1200	S	Assign	Kolesova	OS	6 (1959)	38
$AlO_8S_2K.$ $12H_2O$	Potassium aluminium sulfate dodeca-hydrate	800-900	S	Band study, H bond	Fujita	JACS	78 (1956)	3963
Al_2C_2	Aluminium carbide	-	-	Freq, Thermo	Chupka	JPC	62 (1958)	611
$Al_2C_4H_8Br_6O_2$	Aluminium (III)-dioxane complex bromide	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
$Al_2C_4H_{12}Cl_2$	Bis-dimethyl aluminium chloride	-	-	Spec, Assign	Hoffman	ZE	64 (1960)	616

$Al_2C_6H_{18}$	Bis-trimethyl aluminium	-	-	Spec, Assign	Hoffman	ZE	64 (1960)	616
$Al_2C_8H_{20}Cl_2$	Bis-diethyl aluminium chloride	-	-	Spec, Assign	Hoffman	ZE	64 (1960)	616
$Al_2C_{12}H_{30}$	Bis-triethyl aluminium	-	-	Spec, Assign	Hoffman	ZE	64 (1960)	616
$Al_2C_{16}H_{36}Cl_2$	Bis-di-n-butyl aluminium chloride	-	-	Spec, Assign	Hoffman	ZE	64 (1960)	616
$Al_2C_{16}H_{36}Cl_2$	Bis-di-sec-butyl aluminium chloride	-	-	Spec, Assign	Hoffman	ZE	64 (1960)	616
$Al_2C_{16}H_{42}$	Bis-tripropyl aluminium	-	-	Spec, Assign	Hoffman	ZE	64 (1960)	616
$Al_2C_{24}H_{54}$	Bis-tributyl aluminium	-	-	Spec, Assign	Hoffman	ZE	64 (1960)	616
$Al_2C_{24}H_{54}$	Bis-tri-sec-butyl aluminium	-	-	Spec, Assign	Hoffman	ZE	64 (1960)	616
$Al_2C_{48}H_{92}O_8$	Aluminium dilaurate	2-16 μ	Sol	Struct, Assign	Leger	CJC	35 (1957)	799
$Al_2H_8N_2O_{16}S$	Ammonium aluminium sulfate	.779-2.82 μ	Sol	Transmission curves	Nichols	PR	1 (1893)	1
Al_2Br_6	Aluminium hexabromide	-	-	Freq	Bell	PRS	183 (1945)	357
Al_2Cl_6	Aluminium hexachloride	-	-	Freq	Bell	PRS	183 (1945)	357
		325-1200	G	Absorp and emiss freq, Force const	Klemperer	JCP	24 (1956)	353
Al_2I_6	Aluminium hexaiodide	-	-	Freq	Bell	PRS	183 (1945)	357
Al_2O_3	Aluminium oxide	-	S	IR, Emissivity	Pirani	JIS	16 (1939)	372
		-	-	Force constant, Bond distance	Wu	PR	71 (1947)	118
		-	-	Al soap study	Gray	JPCC	53 (1949)	23
		0.2-10 μ	S	Spec	Hass	JOSA	39 (1949)	532
		-	-	Reflecting surfaces	Haas	JOSA	45 (1955)	945

		-	-	Reflecting surfaces	Haas	JOSA	45 (1955)	945
		1.5-15 μ	S	Reflect and trans spec	Harris	JOSA	45 (1955)	27
$Al_2O_3.H_2O$	Aluminium oxide monohydrate	-	-	H bond	Glemser	ZAUA	297 (1958)	175
$Al_2O_3.H_2O$	α-Alumina monohydrate	2.5-3.5 μ	S	Spec	Frederickson	AC	26 (1954)	1883
$Al_2O_3.H_2O$	β-Alumina monohydrate	2.5-3.5 μ	S	Spec	Frederickson	AC	26 (1954)	1883
$Al_2O_3.H_2O$	Alumina trihydrate (α and β)	2.5-3.5 μ	S	Spec	Frederickson	AC	26 (1954)	1883
$Al_2O_{12}S_3$	Aluminium sulphate	0.8-2.3 μ	Sol	Solute effect on H_2O spec	Plyler	JCP	2 (1922)	470
		2.8-6.1 μ	Sol	Spec, Assign	Collins	PR	20 (1934)	486
		7.5-10.5 μ	S	Spec, Quant. anal	Tai	AC	29 (1957)	1430
$Al_2O_{12}S_3.xH_2O$	Aluminium sulphate polyhydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
$Al_2O_{12}Cr_3$	Aluminium chromate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
$Al_2O_{12}Se_3$	Aluminium selenate	220-3500	S	Spec	Duval	ZE	64 (1960)	582
$Al_4O_{36}P_{12}$	Tetraaluminium tetrametaphosphate	2-15 μ	S	Table, Group freq, Assign	Corbridge	JCS	- (1954)	493
		-	S	Freq, Struct	Steger	ZAUA	294 (1958)	1
AlSb	Aluminium antimonide	-	-	Spec	Briggs	PR	93 (1954)	912
		-	S	Spec	Blunt	PR	94 (1954)	1431
		-	S	Spec	Blunt	PR	96 (1954)	578

Am COMPOUNDS

$AmC_6H_6O_2Na$	Sodium amerseyl acetate	400-3000	S	Force constant, Freq,	Jones	JCP	23 (1955)	2105

$AmCl_2O_{10}$	Americium perchlorate	800-1600	Sol	Spec, Force constant	Jones	JCP	21 (1953)	542
AmF_3	Amercium trifluoride	3500-20000A	S	Spec	Asprey	JINC	7 (1958)	27
AmF_4	Amercium tetrafluoride	3500-20000A	S	Spec	Asprey	JINC	7 (1958)	27

At COMPOUNDS

AtH	Astatine hydride	-	-	FC, Bond study	Platt	JCP	18 (1950)	932
		-	-	FC, Bond study	Shelline	JCP	18 (1950)	927
AtBr	Astatine bromide	-	-	Freq	Clark	TFS	33 (1937)	1398
AtCl	Astatine chloride	-	-	Freq, Calc.	Clark	TFS	33 (1937)	1398
AtF	Astatine fluoride	-	-	Freq	Clark	TFS	33 (1937)	1398
At_2	Astatine	-	-	Freq	Clark	TFS	33 (1937)	1398

Au COMPOUNDS

AuCN	Gold cyanide	2261	S	Freq	Jones	JCP	22 (1954)	965
		2261	S	Freq	Penneman	JCP	24 (1956)	293
		-	S	Absorption	Penneman	JCP	28 (1958)	169
AuC_2N_2	Gold dicyanide ion	2140	Sol	Freq	Jones	JCP	22 (1954)	965
		2147	Sol	Freq, I	Penneman	JCP	24 (1956)	293
		250-2200	S	Spec, Assign	Hidalgo	ARS	56A (1960)	9
AuC_2N_2K	Gold(I)cyanide complex potassium salt	400-4000	S	Spec, Assign	Jones	JCP	21 (1953)	1891
		2140	S,Sol	Freq	Jones	JCP	22 (1954)	965
		2000-3000	S	Spec, FC, Freq, Struct	Jones	JCP	27 (1957)	468
		250-2200	-	Assign	Hidalgo	CPR	249 (1959)	233
$AuC_4H_8Cl_3S_2$	Gold(III)-dithiane complex	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
AuC_4N_4	Gold(II) tetracyanide complex ion	250-2200	S	Spec, Assign	Hidalgo	ARS	56A (1960)	9

AuC_4N_4	Gold(II) tetracyanide complex ion	250-2200	S	Spec, Assign	Hidalgo	ARS	56A (1960)	9
AuC_4N_4K	Gold(III) cyanide complex potassium salt	250-2200	-	Assign	Hidalgo	CPR	249 (1959)	233
$AuC_8H_{14}N_4O_4$	Gold(I) bisdimethyl-glyoxime ion	-	S	Struct, Spec	Rundle	JACS	76 (1954)	3101
AuH	Gold hydride	-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	FC, Bond study	Platt	JCP	18 (1950)	932
		-	-	FC, Bond study	Sheline	JCP	18 (1950)	927
AuF_4	Gold(III) fluoride complex ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762

Ba COMPOUNDS

$Ba_{1/2}C_9H_{13}O_7 \cdot H_2O$	Barium-1,2-o-isopropyl-idene-D-gluco-furanuronate	2-15 μ	S	Spec	Tipson	JRNB	62 (1959)	257
$BaCH_3O_3P$	Barium methyl phosphonate	759-1421	S	I, Freq	Corbridge	JCS	- (1954)	4555
$BaCO_3$	Barium carbonate	-	-	Freq, Assign	Schaefer	TFS	25 (1929)	841
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		-	S	Band freq	Underwood	JACS	77 (1955)	317
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		2-15 μ	S	Spec	Harkins	AC	31 (1959)	541
		300-880	S	Spec	Miller	SA	16 (1960)	135
$BaC^{12}O_3$	Barium carbonate (isotopic)	857	S	Intermol. coupling	Decius	JCP	22 (1954)	1946
		11.3-12.5 μ	S	Spec, FC	Decius	JCP	23 (1955)	1290
$BaC^{13}O_3$	Barium carbonate (isotopic)	840	S	Intermol. Coupling	Decius	JCP	22 (1954)	1946
		11.3-12.5 μ	S	Spec, FC	Decius	JCP	23 (1955)	1290

$BaC_2F_6O_6S_2$	Barium bistrifluoro-methane sulfonate	- 7-10 μ	- S	Group freq Assign	Haszeldine Haszeldine	JCS JCS	- (1954) - (1955)	4228 2901
BaC N	Barium cyanide	4.2-5.4 μ 300-880	Sol S	Spec Spec	Gordy Miller	JCP SA	3 (1935) 16 (1960)	664 135
$BaC_2N_2O_2 \cdot 2H_2O$	Barium thiocyanate dihydrate	2-16 μ 300-880	S S	Spec Spec	Miller Miller	AC SA	24 (1952) 16 (1960)	1253 135
$BaC_2N_2S_2 \cdot 2H_2O$	Barium iso-thiocyanate dihydrate	-	S	Freq, Assign	Mitchell	JCS	- (1960)	1912
$BaC_2O_4 \cdot H_2O$	Barium oxalate monohydrate	343-3500	S	Assign	Schmelz	SA	9 (1957)	51
$BaC_4H_{12}O_4P_2 \cdot XH_2O$	Barium bis-dimethyl phosphinate x hydrate	735-3200	S	I, Group freq	Corbridge	JCS	- (1954)	4555
$BaC_4H_{12}O_8P_2$	Dimethyl barium phosphate	-	-	Spec	Maarsen	RTC	76 (1957)	724
$BaC_6H_3N_5O_2$	Xanthopterin barium salt	8-15 μ	-	Spec	Crowe	APS	8 (1954)	57
$BaC_6Cl_6O_4$	Barium trichloro-acrylate	700-1600	-	Spec	Duval	RTC	69 (1950)	391
$BaC_8H_{20}O_8P_2$	Diethyl barium phosphate	-	-	Spec	Maarser	RTC	76 (1957)	724
$BaC_9H_{12}N_2O_{12}P_2$	Barium uridine diphosphate (natural)	2-15.5 μ	S	Spec, Ident	Anand	JCS	- (1952)	3665
$BaC_9H_{12}N_2O_{12}P_2$	Barium uridine-5 pyrophosphate (synthetic)	2-15.5 μ	S	Spec, Ident	Anand	JCS	- (1952)	3665

$BaC_{10}H_{12}N_2O_8Na_2$	Barium(II)-ethylene	600-3000	S	Spec, Freq	Sawyer	JACS	80 (1958)	1597

$BaC_{10}H_{12}N_2O_8Na_2 \cdot 1.5H_2O$	Barium(II)-ethylene diamine tetra acetic acid complex (sodium salt)-1.5 hydrate	800-3000	S	Spec, Freq	Sawyer	JACS	80 (1958)	1597
$BaC_{12}H_8Cl_2N_4O_6S_2$	Barium-o-chlorobenzene diazosulfonate	600-1800	S	Spec, Assign	LeFevre	AJC	6 (1953)	341
$BaC_{12}H_8Cl_2N_4O_6S_2$	Barium-p-chloro-benzenediazo-sulfonate	600-1800	S	Spec, Assign	LeFevre	AJC	6 (1953)	341
$BaC_{12}H_{28}O_8P_2$	Di-i-propyl barium phosphate	-	-	Spec	Maarsen	RTC	76 (1957)	724
$BaC_{16}H_{30}O_4$	n-Octanoic acid barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{16}H_{36}O_8P_2$	Barium-di-n-butyl phosphate	714-5000	S	Interaction study	Smith	JINC	9 (1959)	150
$BaC_{18}H_{34}O_4$	n-Nonoic acid barium soap	7-9 μ	S	Qual. Anal.	Meiklejohn	AC	29 (1957)	329
$BaC_{20}H_{38}O_4$	n-Decanoic acid barium soap	7-9 μ	S	Qual. Anal.	Meiklejohn	AC	29 (1957)	329
$BaC_{22}H_{42}O_4$	n-Hendecanoic acid barium soap	7-9 μ	S	Qual. Anal.	Meiklejohn	AC	29 (1957)	329
$BaC_{24}H_{20}N_2O_6S_2$	Diphenylamine p-sulfonic acid, barium salt	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
$BaC_{24}H_{46}O_4$	n-Dodecanoic acid, barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{24}H_{50}O_6S_2$	Ba Dodecane-1-sulfonate	2-15.6 μ	S	Assign, Ident	Jenkins	AC	31 (1959)	1056

$BaC_{26}H_{50}O_4$	n-Tridecanoic acid, barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{28}H_{54}O_4$	n-Tetradecanoic acid barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{30}H_{58}O_4$	n-Pentadecanoic acid barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{32}H_{62}O_4$	n-Hexadecanoic barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{34}H_{66}O_4$	n-Heptanoic acid barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{36}H_{70}O_4$	n-Octadecanoic acid barium soap	7-9 μ 6-8 μ	S S	Qual. Anal Spec	Meiklejohn Ellis	AC N	29 (1957) 181 (1958)	329 181
$BaC_{38}H_{74}O_4$	n-Nonadecanoic acid barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{40}H_{78}O_4$	n-Eicosanoic acid barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{44}H_{86}O_4$	n-Docosanoic acid barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{48}H_{42}Cl_2N_8O_8 \cdot 4H_2O$	Barium (II)-1,10-phenanthroline complex perchlorate tetrahydrate	600-2000	S	Spec	Schilt	JINC	9 (1959)	211
$BaC_{48}H_{94}O_4$	n-Tetracosanoic acid barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{52}H_{104}O_4$	n-Hexacosanoic acid barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{56}H_{110}O_4$	n-Octacosanoic acid barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{60}H_{118}O_4$	n-Triacontanoic acid	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329

$BaC_{60}H_{118}O_4$	n-Triacontanoic acid barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{68}H_{134}O_4$	n-Tetratriaconanoic acid barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{72}H_{142}O_4$	n-Hexatricontanoic acid barium soap	7-9 μ	S	Qual. Anal	Meiklejohn	AC	29 (1957)	329
$BaC_{81}H_{131}O_{12}P_3$	Barium vitamin D_3 phosphate	-	S	I	Milas	JACS	77 (1955)	1640
BaH	Barium hydride	-	-	Freq	Watson	PR	43 (1933)	9
		-	G	Freq, Mol. Const.	Koontz	PR	48 (1935)	937
		-	-	Anal	Watson	PR	47 (1935)	213
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
$BaHPO_3$	Barium ortho-phosphite	2-15 μ	S	Group freq, I, Assign, Spec	Corbridge	JCS	- (1954)	493
$BaHPO_4$	Barium acid phosphate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		600-4000	S	Group study	Braunholtz	JCS	- (1959)	868
		300-880	S	Spec	Miller	SA	16 (1960)	135
		420-3600	-	Spec, H bond	Ryskin	OS	8 (1960)	606
$BaH_2NO_3P.H_2O$	Barium monoamido phosphate mono-hydrate	-	-	Bond study	Steiger	ZE	61 (1957)	1004
$BaH_3N_3O_6P_3Na \cdot 1.5H_2O$	Sodium barium triphospho-nitrilate 1.5 hydrate	823-3150	S	I, Group freq	Corbridge	JCS	- (1954)	4555
$BaH_4O_8P_2$	Barium phosphinate	2-15 μ	S	Group freq, I, Assign	Corbridge	JCS	- (1954)	4555
$BaH_6N_2O_6P_2$	Barium biphosphora-medate	-	-	Bond study	Steiger	ZE	61 (1957)	1004
$BaCl_2.2H_2O$	Barium chloride dihydrate	2.5 μ	S	Absorption	Lyon	PR	61 (1942)	482
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253

		300-880	S	Spec	Miller	SA	16 (1960)	135
$BaCl_2O_6.H_2O$	Barium chlorate monohydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$BaFO_3P$	Barium mono-fluorido-phosphate	745-1163	S	I, Group freq	Corbridge	JCS	- (1954)	4555
BaF_2	Barium fluoride	-	-	Polarizability theory	Szigeti	TFS	45 (1949)	155
		-	S	Properties	Ballard	JOSA	42 (1952)	684
		-	-		Friedel	AC	29 (1957)	1362
BaN_2O_2	Barium hypo-nitrite	400-4000	S	Freq	LeFevre	AJC	10 (1957)	361
$BaN_2O_4.H_2O$	Barium nitrite monohydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		81-3500	S	Spec, Struct	Tramer	CPR	249 (1959)	392
		300-880	S	Spec	Miller	SA	16 (1960)	135
BaN_2O_6	Barium nitrate	2-16 μ	S	Spec, Freq, Qual. Anal	Miller	AC	24 (1952)	1253
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
		300-880	S	Spec	Miller	SA	16 (1960)	135
BaN_6	Barium azide	635-3100	S	Freq, FC	Gray	TFS	53 (1957)	901
BaO	Barium oxide	0.5-2.5 μ	S	Spec	Dash	PR	92 (1953)	68
BaO_2	Barium dioxide	2-16 μ	S	Spec, Struct	Brame	JINC	4 (1957)	90
BaO_3S	Barium sulfite	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$BaO_3SPNa.8H_2O$	Barium sodium phosphoromono-thioate octa-hydrate	2-15 μ	S	Spec, I, Group freq	Corbridge	JCS	- (1954)	4555
$BaO_3S_2.H_2O$	Barium thiosulphate monohydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
BaO_3Ti	Barium Titanate	-	S	Phase change	Field	PR	72 (1947)	1157
		2-33 μ	S	Spec	Mara	PR	96 (1954)	801

BaO_3Ti	Barium Titanate	-	S	Phase change	Field	PR	72 (1947)	1119
		2-33 μ	S	Spec	Mara	PR	96 (1954)	801
		1-12 μ	S		Hilsum	JOSA	45 (1955)	771
		0.6-8 μ	S	Pyroelectric effect	Chynoweth	JAP	27 (1956)	78
		0.5-25 μ	S	Transmission	Abramovitch	CJC	36 (1958)	151
		-	-	Temp. effect on spec	Yatsenko	IANS	24 (1960)	1308
BaO_4S	Barium sulfate	-	S	Freq	Hollaender	PR	34 (1929)	994
		5-11 μ	S	Emission of Powd. Film	Pfund	JOSA	23 (1933)	270
		0.6-9.0 μ	S	Refr. Ind.	Pfund	JOSA	26 (1936)	230A
		-	-	Particle size by IR	Bailey	IEC	18 (1946)	365
		-	-	Selection rule	Couture	JCP	15 (1947)	1532
		-	-	Interpretation of spec	Duval	CPR	227 (1948)	1153
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
		15.5 μ	S	Spec, Anal	Hunt	AC	25 (1953)	1169
		290-650	S	Assign	Duval	CPR	239 (1954)	249
		-	-	Spec	Ramdas	PIAS	A391 (1954)	81
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		2-15 μ	S	Spec	Harkins	AC	31 (1959)	541
		300-880	S	Spec	Miller	SA	16 (1960)	135
BaO_4B_2	Barium metaborate	680-1420	S	Spec, Struct	Duval	JOSA	44 (1954)	261
BaO_4Cr	Barium chromate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		290-650	S	Assign	Duval	CPR	239 (1954)	249
BaO_4Mo	Barium molybdate	290-650	S	Assign	Duval	CPR	239 (1954)	249
BaO_4Se	Barium selenate	290-650	S	Assign	Duval	CPR	239 (1954)	249
		220-3500	S	Spec, Struct	Duval	ZE	64 (1960)	582
BaO_8Mn_2	Barium permanganate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
$Ba_2C_{10}H_{12}N_2O_{11}P_2$	Barium thymidine-3',5'-diphosphate	-	-	Ident	Dekker	JCS	- (1953)	947
$Ba_2C_{10}H_{12}N_5O_{13}P_3$	Adenosine triphosphate dibarium salt	8.5-10.5 μ	S	Band freq	Schwarz	APS	6 (1952)	15

$Ba_2H_4N_4O_8P_4 \cdot 2H_2O$	Dibarium tetraphospho-nitrilate dihydrate	796-3400	S	I, Group freq	Corbridge	JCS	- (1954)	4555
$Ba_2O_6P_2$	Dibarium hypophosphate	2-15 μ	S	Spec, I, Group freq	Corbridge	JCS	- (1954)	4555
$Ba_2O_7P_2$	Dibarium pyrophosphate	2-15 μ	S	Spec, Group freq, I, Assign	Corbridge	JCS	- (1954)	493
$Ba_2O_8P_2 \cdot xH_2O$	Dibarium peroxydi-phosphate x hydrate	730-3250	S	I, Group freq	Corbridge	JCS	- (1954)	4555
$Ba_2O_{12}P_4 \cdot 4H_2O$	Dibarium tetra-metaphosphate tetrahydrate	2-15 μ	S	Spec, Group freq, I	Corbridge	JCS	- (1954)	493
$Ba_3C_{20}H_{24}N_{10}O_{20}P_4$	Adenosine diphsophate tribarium salt	9-11 μ	S	Band freq	Schwarz	APS	6 (1952)	15
$Ba_3O_8P_2$	Orthophosphate barium	2-15 μ	S	Group freq, I, Assign	Corbridge	JCS	- (1954)	493
		290-650	S	Assign	Duval	CPR	239 (1954)	249
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$Ba_3O_{18}P_6 \cdot 4H_2O$	Tribarium trimeta-phosphate tetra-hydrate	2-15 μ	S	Spec, Group freq	Corbridge	JCS	- (1954)	493

Be COMPOUNDS

$BeCO_7 \cdot 5H_2O$	Basic beryllium carbonate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
BeC_2	Beryllium carbide	-	-	Freq, Thermo.	Chupka	JPC	62 (1958)	611
$BeC_{10}H_{14}O_4$	Beryllium acetyl acetonate	625-5000	S	Spec, Struct	West	JINC	5 (1958)	295
$BeC_{14}H_{10}O_4$	Beryllium tropolonate	-	Sol	Band freq	Bryant	JOC	19 (1954)	1689

$BeC_{14}H_{10}O_4$	Beryllium tropolonate	-	Sol	Band freq	Bryant	JOC	19 (1954)	1889
BeH	Beryllium hydride	-	-	-type doubling theory	Mulliken	PR	38 (1931)	85
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	Bond distance	Wu	PR	71 (1947)	118
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
		-	-	FC	Mitra	JCP	22 (1954)	564
BeH^+	Beryllium hydride ion	-	-	FC, Bond distance	Badger	JCP	2 (1934)	128
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
BeH_2	Beryllium hydride	-	-	Struct	Mulliken	JCP	1 (1933)	492
$BeH_8F_4N_2$	Diammonium beryllium tetrafluoride	-	S	Band freq	Fox	JCS	- (1954)	1798
BeH_8B_2	Beryllium borohydride	-	-	Freq	Price	JCP	17 (1949)	217
		2-15 μ	S	Spec	Price	JCP	17 (1949)	1044
$BeCl_2$	Beryllium chloride	200-2000	G	Spec, Freq, FC	Buchler	JCP	29 (1958)	121
BeF	Beryllium fluoride	-	-	FC, Bond distance	Badger	JCP	2 (1934)	128
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	Potential function	Linnett	TFS	36 (1940)	1123
		-	-	Potential function	Clark	TFS	37 (1941)	299
		-	-	FC, Bond distance	Linnett	TFS	38 (1942)	1
BeF_2	Beryllium fluoride	700-2300	G	Spec, Freq, FC	Buchler	JCP	29 (1958)	121
BeF_4^{2-}	Beryllium (II) fluoride complex ion	-	S	Struct, Freq	Peacock	JCS	- (1959)	2762
BeF_4K_2	Beryllium (II) fluoride complex (Potassium salt)	300-1500	S	Spec	Lecomte	CPR	249 (1949)	1991
BeO	Beryllium oxide	1-8 μ	S	Spec, Coblentz	Coblentz	BBS	5 (1908)	159
		-	-	Quantum mechanics, Morse potential	Morse	PR	34 (1929)	57

		-	-	FC, Bond distance	Badger	JCP	2 (1934)	128
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	Potential function	Clark	TFS	37 (1941)	299
		-	-	FC, Bond distance	Linnett	TFS	38 (1942)	1
		-	-	FC, Bond distance	Gordy	JCP	14 (1946)	305
		-	-	FC, Bond distance	Wu	PR	71 (1947)	118
BeO_4S	Beryllium sulphate	-	-	Interpretation of spec	Duval	CPR	227 (1948)	1153
		650-290	S	Assign	Duval	CPR	239 (1954)	249
$BeO_4Se.4H_2O$	Beryllium selenate tetrahydrate	220-3500	S	Spec, Struct	Duval	ZE	64 (1960)	582

Bi COMPOUNDS

BiC_3H_9	Trimethyl bismuthine	-	-	FC, Bond distance	Gordy	JCP	14 (1946)	305
		-	-	Theory, FC	Sheline	JCP	18 (1950)	602
		1193	-	CH_3 freqs	Sheppard	TFS	51 (1955)	1465
$BiC_8H_{18}O_5P$	Bismuthyl-di-n-butyl phosphate	714-5000	S	Interaction study	Smith	JINC	9 (1959)	150
$BiC_{10}H_{12}N_2O_8$	Bismuth(III)-ethylene diaminetetraacetic acid	800-1800	S	Spec, Bonding	Donald	JACS	82 (1960)	4191
$BiC_{18}H_{15}$	Triphenyl bismuthine	1056	Sol	Substitution effect	Kross	JACS	77 (1955)	5858
		625-900	Sol	Substitution effect	Margoshes	SA	7 (1955)	14
$BiC_{27}H_{18}N_3O_3$	Bismuth 8-quinolinolate	2-16 μ	S	Spec	Stone	JACS	76 (1954)	4997
$BiC_{27}H_{18}N_3O_3 \cdot H_2O$	Bismuth 8-quinolinolate monohydrate	2-16 μ	S	Spec	Stone	JACS	76 (1954)	4997
$BiC_{36}H_{24}Cl_3N_6O_{12}$	Bismuth-1:10 phenanthroline complex	600-2000	S	Spec, Assign	Schilt	JINC	9 (1959)	211

$BiC_{36}H_{24}Cl_3N_6O_{12}$	Bismuth-1;10 phenanthroline complex perchlorate	600-2000	S	Spec, Assign	Schilt	JINC	9 (1959)	211
BiH	Bismuth hydride	-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	FC, Bond distances	Platt	JCP	18 (1950)	932
		-	-	FC, Bond distances	Sheline	JCP	18 (1950)	927
BiClO	Bismuth oxychloride	300-880	S	Spec	Miller	SA	16 (1960)	135
$BiCl_3$	Bismuth chloride	-	-	Calc. of vibration freq	Howard	JCP	2 (1934)	630
		-	-	FC, Bond distances	Gord	JCP	14 (1946)	305
		3-1.5 μ	-	Mol. Consts.	Happ	ZP	147 (1957)	567
		300-880	S	Spec	Miller	SA	16 (1960)	135
BiN	Bismuth nitride	-	-	Freq	Clark	TFS	33 (1937)	1390
$BiNO_4 \cdot H_2O$	Bismuth subnitrate monohydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
BiN_3O_9	Bismuth(III)nitrate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$BiN_3O_9 \cdot 5H_2O$	Bismuth nitrate pentahydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
BiO_3Na	Sodium bismuthate	300-880	S	Spec	Miller	SA	16 (1960)	135
BiO_4P	Bismuth phosphate (anhydrous)	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
BiP	Bismuth phosphide	-	-	Freq	Clark	TFS	33 (1937)	1390
Bi_2CO_5	Bismuth subcarbonate	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
$Bi_2O_{12}S_3$	Bismuth sulphate	300-880	S	Spec	Miller	SA	16 (1960)	135
Bi_2S_3	Bismuth sulphide	.8-2 μ	S	Photoelectric props.	Coblentz	BBS	15 (1919)	231
$Bi_3O_8P_2$	Bismuth orthophosphate	650-290	S	Assign	Duval	CPR	239 (1954)	249
BiAs	Bismuth arsenide	-	-	Freq	Clark	TFS	33 (1937)	1390

$BiSb$	Bismuth antimonide	-	-	Freq	Clark	TFS	33 (1937)	1390

Ca COMPOUNDS

$\frac{1}{2}Ca.C_9H_{13}O_7 \cdot 2H_2O$	Calcium 1-2-O-isopropylidene-L-idofuramuronate-dihydrate	2-15 μ	S	Spec	Tipson	JRNB	62 (1959)	257
$CaCH_3O_3P.2H_2O$	Calcium methyl phosphonate dihydrate	768-3350	-	I, Freq	Corbridge	JCS	- (1954)	4555
$CaCO_3$	Calcium carbonate	3-5 μ	S	Spec, Fine struct	Randall	PR	31 (1928)	1131A
		-	-	Freq, Assign	Schaefer	TFS	25 (1929)	841
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
		8-15 μ	S	Spec	Louisfert	CPR	235 (1952)	287
		-	S	Quant. Anal	Kuentzel	AC	26 (1954)	434A
		-	S	Anal	Kuentzel	AC	27 (1955)	301
		11-12.5 μ	S	Spec	Underwood	JACS	77 (1955)	317
		-	S	Usage	Wiberly	AC	29 (1957)	210
		1-22 μ	S	Assign	Saksena	PIAS	30 (1949)	128
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		2-15 μ	S	Spec	Harkins	AC	31 (1959)	541
		300-880	S	Spec	Miller	SA	16 (1960)	135
$CaC_2O_4.H_2O$	Calcium oxalate monohydrate	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
		305-3400	S	Assign	Schmetz	SA	9 (1957)	51
$CaC_4H_{12}O_4P_2 \cdot xH_2O$	Calcium bisdimethyl phosphinate xhydrate	738-3030	S	I	Corbridge	JCS	- (1954)	4555
$CaC_6Cl_6O_4$	Calcium trichloro-acrylate	1600-700	-	Spec	Duval	RTC	69 (1950)	381
$CaC_{10}H_{12}N_2O_8$	Ethylene diamine tetraacetic acid	800-3000	S	Spec, Freq	Sawyer	JACS	80 (1958)	1597

$CaC_{10}H_{12}N_2O_8Na_2 \cdot 3.5H_2O$	Ethylene diamine tetraacetic acid monocalcium disodium salt 3.5 hydrate	800–3000	S	Spec, Freq	Sawyer	JACS	80 (1958)	1597
$CaC_{10}H_{12}N_2O_8Na_2 \cdot 5H_2O$	Ethylenediamine tetraacetic acid monocalcium disodium salt pentahydrate	800–3000	S	Spec, Freq	Sawyer	JACS	80 (1958)	1597
$CaC_{10}H_{14}O_4$	Calcium acetyl acetonate	625–5000	S	Spec, Struct	West	JINC	5 (1958)	295
$CaC_{12}H_{18}O_{14}$	Calcium galacturonate	5.5–6.5 μ	S	Spec, Band freq	Ultce	AC	27 (1955)	557
$CaC_{18}H_{12}N_2O_2$	Calcium(II)8-hydroxy-quinolate	–	S	Spec	Charles	AC	25 (1953)	530A
		8–15 μ	S	Spec	Charles	SA	8 (1956)	1
$CaC_{32}H_{62}O_4$	Calcium palmitate	650–4000	S	Spec	Kawano	NKZ	81 (1960)	1805
$CaC_{36}H_{70}O_4$	Calcium stearate	6–8 μ	S	Spec	Ellis	N	181 (1958)	181
		650–4000	S	Spec	Kawano	NKZ	81 (1960)	1805
$CaC_{48}H_{38}Cl_2N_8O_{11}$	Calcium(II)-1;10 phenanthroline complex per chlorate trihydrate	600–2000	S	Spec	Schiltt	JINC	9 (1959)	211
$CaC_{48}H_{78}O_4$	Calcium 9-(or 10)phenyl stearate	2–15 μ	S	Spec	Kagarise	JPC	59 (1955)	271
CaH	Calcium hydride	–	–	-type coupling theory	Mulliken	PR	38 (1931)	85
		–	–	Mol. Consts.	Pekeris	PR	45 (1934)	98
		–	–	FC, Bond distance	Platt	JCP	18 (1950)	932
		–	–	FC, Bond distance	Sheline	JCP	18 (1950)	927
$CaHO_3P \cdot H_2O$	Calcium orthophosphite monohydrate	2–15 μ	S	Assign	Corbridge	JCS	– (1954)	493
$CaHO_4P$	Calcium acid phosphate	2–16 μ	S	Spec	Hunt	AC	22 (1950)	1478
		2–15 μ	S	Assign	Corbridge	JCS	– (1954)	493

$CaHO_4P.2H_2O$	Calcium hydrogen phosphate dihydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
CaH_2O_2	Calcium hydroxide	1400-4500	-	H bond, Spec	Rundle	JCP	20 (1952)	1487
		-	-	H bond	Petch	PR	99 (1955)	1635
$CaH_2O_7P_2$	Calcium dihydrogen pyrophosphate	2-15 μ	S	Assign	Corbridge	JCS	- (1954)	493
$CaH_3N_3O_6P_3Na.4H_2O$	Sodium calcium triphosphonitrilate tetrahydrate	847-3200	S	I	Corbridge	JCS	- (1954)	4555
$CaH_4O_4P_2$	Calcium phosphinate	2-15 μ	S	I	Corbridge	JCS	- (1954)	493
$CaH_4O_8P_2$	Calcium biphosphate	2-15 μ	S	I	Corbridge	JCS	- (1954)	493
$CaH_4O_8P_2.H_2O$	Calcium biphosphate monohydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
$CaH_4O_8P_2.H_2O$	Calcium diacid phosphate monohydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		2-15 μ	S	I	Corbridge	JCS	- (1954)	493
$CaDO_4P$	Calcium hydrogen phosphate-d_1	420-3600	-	Spec	Ryskin	OS	7 (1960)	320
CaD_2O_2	Calcium hydroxide-d_2	1400-4500	-	H bond, Spec	Rundle	JCP	20 (1952)	1487
$CaCl_2$	Calcium chloride	1-9 μ	S	Spec	Coblentz	BBS	2 (1907)	457
		2-4 μ	Sol	Reflection spectra	Angstrom	PR	3 (1914)	47
		6.8-2.3 μ	Sol	Spec	Collins	PR	20 (1922)	486
		2.6-3.5 μ	Sol	Spec	Buswell	JPC	43 (1939)	1181
$CaFO_3P.X_2O$	Calcium monofluro-phosphate xhydrate	-	S	I	Corbridge	JCS	- (1954)	4555
CaF_2	Calcium fluoride	-	S	Spec	Fefilor	OS	6 (1959)	234
CaF_4	Calcium(II)-fluoride complex ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
$Ca_2O_6.6H_2O$	Calcium iodate hexahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135

$CaI_2O_6.6H_2O$	Calcium iodate hexahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
CaN_2O_6	Calcium nitrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
$CaN_2O_6.4H_2O$	Calcium nitrate tetrahydrate	700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
		300-880	S	Spec	Miller	SA	16 (1960)	135
CaN_6	Calcium azide	3100-635	S	Freq, FC	Gray	TFS	53 (1957)	901
$CaN_6O_{12}K_2Ni.3H_2O$	Calciumdipotassium nickel nitrite trihydrate	-	-	Struct	Puget	CPR	250 (1960)	4141
CaO	Calcium oxide	1-8 μ	S	Spec	Coblentz	BBS	5 (1908)	159
		-	-	Polarizability, Theory	Szigeti	TFS	45 (1949)	155
		-	-	Freq	Szigeti	PRS	204 (1950)	51
		-	S	Band study	Hultin	N	166 (1950)	190
CaO_2	Calcium dioxide	2-16 μ	S	Spec, Struct	Brame	JINC	4 (1957)	90
$CaO_2.8H_2O$	Calcium dioxide octahydrate	2-16 μ	S	Spec, Struct	Brame	JINC	4 (1957)	90
$CaO_3S.2H_2O$	Calcium sulphite dihydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$CaO_3PSNa.2H_2O$	Sodium calcium phosphoromonothioate octahydrate	865-3040	S	I	Corbridge	JCS	- (1954)	4555
CaO_4S	Calcium sulphate	1-8 μ	S	Spec	Coblentz	BBS	2 (1907)	457
		1-7.5 μ	S	Spec	Coblentz	BBS	7 (1911)	619
		0.3-7 μ	S	Relative reflectance	Hulbert	JOSA	17 (1928)	23
		7.9 μ	-	Christianson filter	Barnes	PR	49 (1936)	732
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
		650-290	S	Assign	Duval	CPR	239 (1954)	249
		7.5-10.5 μ	S	Spec	Tai	AC	29 (1957)	1430

$CaO_4S.\frac{1}{2}H_2O$	Calcium sulphate ½ hydrate	5-15 μ	S	I, Freq	Lippincott	SA	16 (1960)	58
$CaO_4S.2H_2O$	Calcium sulphate dihydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		0.6-2.7 μ	S	Dispersion	Venderberg	AC	26 (1954)	428A
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135
$CaO_4S.xH_2O$	Calcium sulphate polyhydrate	2-15 μ	S	Spec	Harkins	AC	31 (1959)	541
		300-880	S	Spec	Miller	SA	16 (1960)	135
CaO_4B_2	Calcium metaborate	250-4000	-	Spec, Freq, Assign	Goubeau	ZPC	20 (1959)	15
CaO_4Se	Calcium selenate	650-290	S	Assign	Duval	CPR	239 (1954)	249
$CaO_7Cr_2.3H_2O$	Calcium dichromate trihydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
$CaO_9P_3Na.3H_2O$	Calcium sodium trimetaphosphate trihydrate	2-15 μ	S	I, Assign	Corbridge	JCS	- (1954)	493
$Ca_2H_4N_4O_8P_4.4H_2O$	Dicalcium tetra-phosphonitrilate tetrahydrate	798-3350	S	I	Corbridge	JCS	- (1954)	4555
$Ca_2O_6P_2.2H_2O$	Dicalcium hypophosphate dihydrate	860-3100	S	I	Corbridge	JCS	- (1954)	4555
$Ca_2O_7P_2$	Dicalcium pyrophosphate	2-15 μ	S	I, Assign	Corbridge	JCS	- (1954)	493
$Ca_2O_8P_2.xH_2O$	Dicalcium peroxy-diphosphate xhydrate	2-15 μ	S	Spec, I	Corbridge	JCS	- (1954)	4555
$Ca_2O_{12}P_4.5H_2O$	Dicalcium tetrameta-phosphate pentahydrate	2-15 μ	S	I, Assign	Corbridge	JCS	- (1954)	493
$Ca_3C_{81}H_{129}O_{12}P_3$	Calcium vitamin D phosphate	-	S	I	Milas	JACS	77 (1955)	1640
$Ca_3O_8P_2$	Calcium orthophosphate	1-8 μ	S	Spec	Coblentz	BBS	5 (1908)	159

		2-16 μ	S	Spec	Willes	AC	24 (1952)	1253
		2-15 μ	S	I, Assign	Corbridge	JCS	- (1954)	493
		650-290	S	Assign	Duval	CPR	239 (1954)	249
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		-	-	Freq	Pobegien	CPR	248 (1959)	2220
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Ca_3O_8As_2$	Tricalcium ortho-arsenate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Ca_{10}CO_{27}P_6$	Carbonato-apatite (synthetic)	2-16 μ	-	Spec	Romo	JACS	76 (1954)	3924

Cb COMPOUNDS

CbO	Columbium oxide	-	G	Spec	Rao	IJP	27 (1953)	399

Cd COMPOUNDS

$CdCO_3$	Cadmium carbonate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135
CdC_2H_6	Dimethyl cadmium	-	-	Assign	Gutowsky	JACS	71 (1949)	3194
		-	-	FC	Sheline	JCP	18 (1950)	602
$CdC_3H_7Cl_2NO$	Cadmium(II)-methyl acetamide complex chloride	650-4000	L,S	Spec, Assign	Martinette	SA	15 (1959)	77
$CdC_4H_8Cl_2O_2$	Cadmium(II)-dioxane complex chloride	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
$CdC_4H_8Cl_2S_2$	Cadmium(II)-dithiane complex chloride	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
CdC_4H_{10}	Diethyl cadmium	650-3500	L	Spec, Assign	Kaesz	SA	15 (1959)	360

$CdC_4H_{10}Cl_2N_2$	Cadmium(II)-piperazine complex chloride	500-1500	S	Spec, Struct	Hendra	JCS	-	(1960)	5105
$CdC_4H_{12}Cl_2N_4S_2$	Cadmium(II)-methyl thiourea complex chloride	2-15 μ	S	Spec	Lane	JACS	81	(1959)	3824
$CdC_4H_{12}Cl_2O_2S_2$	Cadmium(II)-dimethyl sulfoxidecomplex chloride	650-4000	S	Assign, Spec	Cotton	JPC	64	(1960)	1534
$CdC_4H_{12}N_6O_2$	Cadmium(II)-iso thiocyanate complex (Ammonium salt)	-	S	Freq, Assign	Mitchell	JCS	-	(1960)	1912
CdC_4N_4	Cadmium(II)-tetra-cyanide complex ion	250-2200	S	Spec, Assign	Hidalgo	ARS	56A	(1960)	9
$CdC_4N_4K_2$	Cadmium(II) cyanide complex(Potassium salt)	250-2200	-	Assign	Hidalgo	CPR	249	(1959)	233
$CdC_6Cl_6O_4$	Cadmium trichloro-acrylate	700-1600	-	Spec	Duval	RTC	69	(1950)	391
$CdC_7H_5O_2$	Salicylaldehyde cadmium chelate	-	S	Freq	Bellamy	JCS	-	(1954)	4491
$CdC_8H_4F_3O_2S$	Thenoyltrifluoroacetone cadmium chelate	-	Sol	Freq	Bellamy	JCS	-	(1954)	4491
$CdC_8H_{10}Cl_3N_3 \cdot H_2O$	P-Dimethylamino benzene dizonium chloride cadmium chloride monohydrate	3-14 μ	S	Freq	Gremillion	JACS	81	(1959)	6134
$CdC_{10}H_{12}N_2O_8Na_2 \cdot 2H_2O$	Cadmium(II)ethylene diamine tetraacetic acid complex(sodium salt)dihydrate	800-1800	S	Freq, Assign	Sawyer	JACS	81	(1959)	816

$CdC_{12}H_8N_2O_4$	Cadmium(II)-2-pyridine carboxylic acid chelate	-	-	Struct	Lumme	SK	31B (1958)	294
$CdC_{12}H_{10}N_4S_2$	Cadmium(II)-pyridine complex thiocyanate	-	S	Freq assign	Mitchell	JCS	- (1960)	1912
$CdC_{14}H_{10}O_4$	Cadmium tropolonate	-	S	Freq, Band freq	Bryant	JOC	19 (1954)	1889
$CdC_{17}H_{19}INO_3$	Morphine-cadmium iodide complex	650-4000	-	Spec	Levy	AC	29 (1957)	470
$CdC_{18}H_{12}N_2O_2$	Cadmium(II)-8-hydroxy quinolate	8-15 μ	S	Assign, Spec	Charles	SA	8 (1956)	1
		-	S	Spec	Charles	AC	25 (1953)	530
$CdC_{20}H_{12}N_2O_4$	Cadmium(II)-8-quinoline carboxylic acid chelate	-	-	Struct	Lumme	SK	31B (1958)	294
$CdC_{20}H_{22}O_4$	Cadmium isopropyl tropolonate	-	S	Band freq	Bryant	JOC	19 (1954)	1889
$CdC_{36}H_{24}Cl_2N_6O_8$	Cadmium(II)-1:10 phenanthroline complex perchlorate	600-2000	S	Spec	Schilt	JINC	9 (1959)	211
$CdC_{36}H_{30}I_2O_2P_2$	Cadmium(II)-Triphenyl phosphine oxide complex iodide	900-1300	S	Freq	Cotton	JCS	- (1960)	2199
CdH	Cadmium hydride	-	-	-type doubling theory	Mulliken	PR	38 (1931)	85
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	498
		-	-	Thermo.	Hulburt	JCP	9 (1941)	61
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
CdH^+	Cadmium hydride ion	-	-	Mol. Consts.	Pekeris	PR	45 (1934)	98
CdH_4F_3N	Ammonium fluoride cadmium fluoride	1400-4000	S	Spec	Crocket	JACS	82 (1960)	4158
$CdH_4N_2O_6S_2$	Cadmium sulfamate	-	S	Freq, Assign	Bicelli	AC	47 (1957)	1380

$CdH_{18}N_6$	Hexamine cadmium ion	-	-	Freq, FC	Schultz	JCP	10 (1942)	194
$CdBr_4^{-2}$	Cadmium tetra bromide ion	-	-	FC	Pistorius	JCP	28 (1958)	514
$CdCl_2$	Cadmium chloride	4.75 μ	Sol	Absorption	Barr	JCP	7 (1939)	8
		-	S	Crystal study	West	JOSA	35 (1945)	26
$CdCl_2 \cdot 5/2H_2O$	Cadmium chloride 5/2 hydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
CdF_2	Cadmium fluoride	0.2-13 μ	S	Table	Haendler	JOSA	43 (1953)	215
CdI_4^-	Cadmium tetraiodide	-	-	FC	Pistorius	JCP	28 (1958)	514
CdN_2O_6	Cadmium nitrate	1000-1500	S	Absorption band	Addison	CIL	(1958)	464
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		2-15 μ	S	Spec	Addison	JCS	- (1960)	613
$CdN_2O_6 \cdot 4H_2O$	Cadmium nitrate tetrahydrate	700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
CdO_3Ti	Cadmium titanate	300-1000	S	Spec, Struct, I	Last	PR	105 (1957)	1740
$CdO_4S \cdot \frac{8}{3}H_2O$	Cadmium sulfate 8/3 hydrate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
CdS	Cadmium sulfide	-	S	Phosphors	Frerichs	PR	72 (1947)	594
		-	-	Photoconductivity	Bube	PR	99 (1955)	1105
		2-6 μ	S	Photoconductivity	Lambe	PR	98 (1955)	909
		3 μ	S	Photoconductivity	Lambe	PR	100 (1955)	1586
		1.4 μ	S	Refractive index	Czyzak	JOSA	47 (1957)	7240
		-	-	Struct	Mitsuishi	JPSJ	13 (1958)	1235
		300-880	S	Spec	Miller	SA	16 (1960)	135
CdSe	Cadmium selenide	-	S	Phosphors	Frerichs	PR	72 (1947)	594
		-	-	Photoconductivity	Bube	PR	99 (1955)	1105
		-	-	Struct	Mitisuishi	LPSJ	13 (1958)	1235
CdTe	Cadmium teluride	-	S	Phosphors	Frerichs	PR	72 (1947)	594
		-	-	Struct	Mitisuishi	LPSJ	13 (1958)	1235

$Cd_3O_8P_2$	Cadmium orthophosphate	290–650	S	Assign	Duval	CPR	239 (1954)	249
		2–16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$Cd_3D_8As_2$	Cadmium arsenate-d_8	290–650	S	Assign	Duval	CPR	239 (1954)	249

Ce COMPOUNDS

$CeC_{10}H_{12}N_2O_8 \cdot Na.2H_2O$	Cerium(III)-ethylene diamine tetracetic acid complex (sodium salt)dihydrate	800–1800	S	Spec, Bonding	Donald	JACS	82 (1960)	4191
$CeC_{24}H_{54}O_{12}P_3$	Cerium(III)-di-n-butyl phosphate	714–5000	S	Group study	Smith	JINC	9 (1959)	150
$CeC_{32}H_{72}O_{16}P_4$	Cerium(IV)-di-n-butyl phosphate	714–5000	S	Group study	Smith	JINC	9 (1959)	150
$CeH_8N_8O_{18}$	Ammonium hexanitrato cerate(IV)	2–16 μ	S	Spec	Miller	AC	24 (1952)	1253
		700–1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
		300–880	S	Spec	Miller	SA	16 (1960)	135
CeF_3	Cerium(III)-fluoride	1950–2700	S	Electronic transitions	Mandel	JCP	33 (1960)	192
CeN_3O_9	Cerium nitrate	0.56–2.3 μ	Sol	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
$CeN_3O_9 \cdot 6H_2O$	Cerium nitrate hexahydrate	-	S	Spec	Hafele	ZP	148 (1957)	262
		700–1550	S,Sol	Freq	Ryskin	OS	6 (1959)	113
		700–1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
$CeN_6O_{18}K_2$	Potassium hexanitrate cerate(IV)	700–4000	S	Assign	Gatehouse	JCS	- (1957)	4222
		700–4000	S	Assign	Gatehouse	JINC	8 (1958)	75
		700–1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
CeO_2	Cerium dioxide	0.4–1.6 μ	-	Reflectance	Haas	JOSA	45 (1955)	945

CeO_8S_2	Cerium(IV)sulfate	300-880	S	Spec	Miller	SA	16 (1960)	135

Cm COMPOUNDS

CmF_3	Curium(III)fluoride	-	S	Spec	Asprey	JINC	7 (1958)	27
CmF_3	Curium(IV)fluoride	-	S	Spec	Asprey	JINC	7 (1958)	27

Co COMPOUNDS

$CoCH_6N_4O_7K.$ H_2O	Cobalt (III)-ammonia carbonate, nitrite complex (potassium salt) hydrate	-	-	Spec	Kyuno	NKZ	80 (1959)	724
$CoCH_{12}ClN_4O_3$	Cobalt (III)-ammonia carbonate complex chloride	400-5000	S	Spec	Nakamoto	JACS	79 (1957)	4904
		650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		2-15 μ	S	Spec, Assign, Struct	Bertin	JACS	81 (1959)	3818
$CoCH_{12}ClN_6O_2S$	Cobalt (III)-ammonia, isothiocyanate, nitrite complex chloride	1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295
$CoCH_{12}ClN_6O_2S.$ $AgNO_3$	Cobalt (III)-ammonia isothiocyanate, nitrite complex chloride silver-nitrate	1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295
$CoCH_{16}ClN_6O_2S.$ $HgCl_2$	Cobalt (III)-ammonia isothiocyanate, nitrite complex chloride mercuric chloride	1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295

$CoCH_{12}N_5O_6$	Cobalt (III)-ammonia, carbonate complex	2-15 μ	S	Assign	Beattie	JCS	- (1956)	2549
		700-4000	S	Assign				

$CoCH_{12}N_5O_6$	Cobalt (III)-ammonia, carbonate complex nitrate	2-15 μ	S	Assign	Beattic	JCS	- (1956)	2549
		700-4000	S	Assign	Gatehouse	JINC	8 (1958)	75
$CoCH_{12}N_5O_6 \cdot \frac{1}{2}H_2O$	Cobalt (III)-ammonia, carbonate complex nitrate hemihydrate	2-15 μ	S	Band freq	Merritt	JPC	59 (1955)	55
		700-4000	S	Assign	Gatehouse	JCS	- (1957)	4222
$CoCH_{15}Cl_2N_6S$	Cobalt (III)-ammonia, isothiocyanate complex chloride	680-4000	S	Struct	Chamberlain	JACS	81 (1959)	6412
$CoCH_{15}IN_5O_3$	Cobalt (III)-ammonia, carbonate complex iodide	2-15 μ	S	Spec, Struct	Bertin	JACS	81 (1959)	3818
$CoCH_{15}N_6O_6$	Cobalt (III)-ammonia, carbonate complex nitrate	650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
$CoCH_{15}N_8O_6S$	Cobalt (III)-ammonia, isothiocyanate complex nitrate	1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295
		680-4000	S	Struct	Chamberlain	JACS	81 (1959)	6412
$CoCH_{15}N_9O_9SAg$	Coblat (III)-ammonia, isothiocyanate complex nitrate silvernitrate	-	S	Freq assign	Mitchell	JCS	- (1960)	1912
		680-4000	S	Struct	Chamberlain	JACS	81 (1959)	6412
$CoCH_{18}ClN_6O_3$	Cobalt (III)-ammonia complex chloride carbonate	400-5000	S	Spec	Nakamoto	JACS	79 (1957)	490
$CoCO_3$	Cobaltous carbonate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$CoC_2H_3N_2S_2$	Cobalt rubeanate	400-4000	Sol	Struct	Barcelo	SA	10 (1958)	245
$CoC_2H_6N_2O_6K \cdot H_2O$	Cobalt (III)-ammonia, carbonate complex (potassium salt) monohydrate	-	-	Spec	Kyuno	NKZ	80 (1959)	849

$CoC_2H_6N_4O_8K$	Cobalt (III)-ammonia nitrite, oxalate complex (potassium salt)	-	-	Spec	Kyuno	NKZ	81 (1960)	728
$CoC_2H_6N_4O_8K \cdot H_2O$	Cobalt (III)-ammonia, nitrite, oxalate complex (potassium salt) monohydrate	-	-	Spec	Kyuno	NKZ	80 (1959)	724
$CoC_2H_7N_4O_8 \cdot H_2O$	Cobalt (III)-ammonia, nitrite, oxalate complex (hydrogen salt) monohydrate	-	-	Spec	Kyuno	NKZ	80 (1959)	852
$CoC_2H_8N_6O_8Ag$	Cobalt (III)-ethylenediamine nitrite complex (silver salt)	-	-	Spec	Kyuno	NKZ	80 (1959)	722
$CoC_2H_8N_6O_8K$	Cobalt (III)-ethylenediamine, nitrite complex (potassium salt)	-	-	Spec	Kyuno	NKZ	80 (1959)	722
$CoC_2H_{12}ClN_4O_4$	Cobalt (III)-ammonia, oxalate complex chloride	400-5000	-	Spec	Nakamoto	JACS	79 (1957)	4904
$CoC_2H_{12}ClN_{12}S_2$	Cobalt (III)-ammonia isothiocyanate complex chloride	680-4000	S	Struct	Chamberlain	JACS	81 (1959)	6412
$CoC_2H_{12}Cl_3N_2O_2$	Cobalt (III)-chloride, ethylene diamine, water complex chloride	-	-	Spec	Kyuno	NKZ	80 (1959)	724
$CoC_2H_{13}N_7O_2S_2$	Cobalt (III)-ammonia, isothiocyanate nitrite complex	1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295

$CoC_2H_{15}BrN_5O_4$ · Cobalt (III)- 400-5000 S Spec Nakamoto JACS 79 (1957) 4904

$CoC_2H_{15}BrN_5O_4 \cdot 3/2H_2O$	Cobalt (III)-ammonia, oxalate complex bromide 1.5 hydrate	400-5000	S	Spec	Nakamoto	JACS	79 (1957)	4904
$CoC_2H_{15}BrN_5O_4 \cdot HBr$	Cobalt (III)-ammonia, oxalate complex bromide hydrogen bromide	650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
$CoC_2H_{16}Br_2N_5O_4$	Cobalt (III)-ammonia, bioxalate complex bromide	400-5000	S	Spec	Nakamoto	JACS	79 (1957)	4904
$CoC_2H_{18}Cl_2N_5O_{10}$	Cobalt (III)-ammonia, acetate complex perchlorate	400-5000	S	Spec	Nakamoto	JACS	79 (1957)	4904
$CoC_2O_6K_2 \cdot 4H_2O$	Potassium carbonato cobalt (II) tetra-hydrate	700-4000	S	Freq assign	Gatehouse	JCS	- (1958)	3137
$CoC_3H_8N_4O_7K \cdot H_2O$	Cobalt (III)-carbonate, ethylene diamine, nitrite complex (potassium salt) monohydrate	-	-	Spec	Kyuno	NKZ	80 (1959)	724
$CoC_3H_{18}N_5O_6S$	Cobalt (III)-ammonia, β-amino-propionate complex sulfate	-	-	Spec	Ogawa	NKZ	81 (1960)	72
$CoC_3O_9K_3 \cdot 3H_2O$	Potassium carbonate cobaltate (III)-trihydrate	700-4000	S	Freq assign	Gatehouse	JCS	- (1958)	3137
CoC_4HO_4	Cobalt hydrocarbonyl	703-2121 2-24 μ	Sol,G Sol,G	I Spec, I, Struct, Assign	Sternberg Friedel	JACS JACS	75 (1953) 75 (1955)	2717 3951

$CoC_4H_6N_2O_8Ag.H_2O$	Cobalt (III)-ammonia,oxalate complex (silver salt) monohydrate	-	-	Spec	Kyuno	NKZ	80 (1959)	852
$CoC_4H_6N_2O_8K.H_2O$	Cobalt (III)-ammonia,oxalate complex (potassium salt) monohydrate	-	-	Spec	Kyuno	NKZ	80 (1959)	849
$CoC_4H_7N_2O_8.H_2O$	Cobalt (III)-ammonia,oxalate complex (hydrogen salt) monohydrate	-	-	Spec	Kyuno	NKZ	80 (1959)	852
$CoC_4H_8N_2O_6K$	Cobalt (III)-carbonate,ethylene diamine complex (potassium salt)	-	-	Spec	Kyuno	NKZ	80 (1959)	849
$CoC_4H_8N_4O_8K.H_2O$	Cobalt (III)-ethylene diamine, nitrite, oxalate complex (potassium salt)	-	-	Spec	Kyuno	NKZ	80 (1959)	724
$CoC_4H_{16}BrCl_2N_4$	cis-Cobalt (III)-ethylenediamine chloride complex bromide	400-4000	S	Freq, Spec	Baldwin	JCS	- (1960)	4369
$CoC_4H_{16}BrCl_2N_4$	trans-Cobalt (III)-ethylenediamine, chloride complex bromide	400-5000	S	Freq, Spec	Baldwin	JCS	- (1960)	4369
$CoC_4H_{16}Br_3N_4.HBr.2H_2O$	trans-Cobalt (III)-ethylenediamine complex hydro-bromide dihydrate	1000-2000	-	Group study	Curtis	PRCS	- (1960)	410
$CoC_4H_{16}ClN_4O_3$	cis-Cobalt (III)-	2-15 μ	S	Band freq	Merritt	JPC	59 (1955)	55

$CoC_4H_{16}ClN_4O_3 \cdot H_2O$	cis-Cobalt (III)-carbonate, ethylene diamine complex chloride monohydrate	2-15 μ	S	Band freq	Merritt	JPC	59 (1955)	55
$CoC_4H_{16}ClN_6O_4$	cis-Cobalt (III) ethylenediamine, nitrite complex chloride	800-1500	S	Bonding	Gatehouse	JINC	8 (1958)	79
		800-1500	Sol	Freq, Struct	Chatt	JCS	- (1959)	4073
		700-3500	S	Spec, Freq, Assign, Config.	Morris	JACS	82 (1960)	1521
$CoC_4H_{16}ClN_6O_4$	trans-Cobalt (III)-ethylenediamine, nitrite complex chloride	800-1500	S	Bonding	Gatehouse	JINC	8 (1958)	79
		800-1500	Sol	Freq, Struct	Chatt	JCS	- (1959)	4073
		700-3500	S	Spec, Freq, Assign, Config.	Morris	JACS	82 (1960)	1521
$CoC_4H_{16}Cl_2IN_4$	cis-Cobalt (III)-ethylenediamine, chloride complex iodide	400-4000	S	Spec, Freq	Baldwin	JCS	- (1960)	4369
$CoC_4H_{16}Cl_2IN_4$	trans-Cobalt (III)-ethylenediamine, chloride complex iodide	400-4000	S	Spec, Freq	Baldwin	JCS	- (1960)	4369
$CoC_4H_{16}Cl_2N_4$	cis-Cobalt (III)-chloride, ethylene diamine complex	-	-	Spec, Config.	Morris	DA	19 (1958)	223
$CoC_4H_{16}Cl_2N_4$	trans-Cobalt (III)-chloride, ethylene diamine complex	-	-	Spec, Config.	Morris	DA	19 (1958)	223
$CoC_4H_{16}Cl_2N_4O_6S_2$	cis-Cobalt (III)-chloride, ethylene diamine complex	400-4000	S	Spec, Freq	Baldwin	JCS	- (1960)	4369
$CoC_4H_{16}Cl_2N_4O_6S_2$	trans-Cobalt (III)-chloride, ethylene diamine complex	400-4000	S	Spec, Freq	Baldwin	JCS	- (1960)	4369

$CoC_4H_{16}Cl_2N_5O_2$	cis-Cobalt (III)-chloride, ethylene diamine, nitrite complex chloride	-	-	Struct, Freq	Chatt	JCS	- (1959)	4073
$CoC_4H_{16}Cl_2N_5O_3$	trans-Cobalt (III)-chloride, ethylene diamine, complex nitrate	400-4000	S	Spec, Freq	Baldwin	JCS	- (1960)	4369
$CoC_4H_{16}Cl_3N_4$	cis-Cobalt (III)-chloride, ethylene diamine complex chloride	2-15 μ 700-3500	S S	Band study Spec, Freq, Config.	Merritt Morris	JPC JACS	59 (1955) 82 (1960)	55 1521
$CoC_4H_{16}Cl_3N_4$	trans-Cobalt (III)-chloride, ethylene diamine complex chloride	2-15 μ 700-3500	S S	Band freq Spec, Freq, Config.	Merritt Morris	JPC JACS	59 (1955) 82 (1960)	55 1521
$CoC_4H_{16}Cl_3N_4 \cdot HCl.2H_2O$	trans-Cobalt (III)-chloride, ethylene diamine complex hydrochloride, dihydrate	1000-2000	-	Group study	Curtis	PRCS	- (1960)	410
$CoC_4H_{16}Cl_3N_4O_2$	trans-Cobalt (III)-chloride, ethylene diamine complex chloride	400-4000	S	Spec, Freq	Baldwin	JCS	- (1960)	4369
$CoC_4H_{16}Cl_3N_4O_4$	cis-Cobalt (III)-chloride, ethylene diamine complex perchlorate	400-4000	S	Spec, Freq	Baldwin	JCS	- (1960)	4369
$CoC_4H_{16}IN_6O_4$	cis-Cobalt (III)-ethylenediamine, nitrite complex iodide	800-1500 800-1500	S Sol	Bonding Freq, Struct	Gatehouse Chatt	JINC JCS	8 (1958) - (1959)	79 4073

$CoC_4H_{16}IN_6O_4$	trans-Cobalt (III)-ethylenediamine, nitrite complex iodide	800-1500 800-1500	Sol Sol	Bonding Freq, Struct	Gatehouse Chatt	JINC JCS	8 (1958) - (1959)	79 4073
$CoC_4H_{16}N_4O_3PS$	Cobalt (III)-ethylenediamine, thiophosphate complex	850-1250	S	Spec, Struct	Hidaka	BCSJ	32 (1959)	1317
$CoC_4H_{16}N_4O_3PS.2H_2O$	Cobalt (II)-ethylenediamine, thiophosphate complex dihydrate	850-1250	S	Spec, Struct	Hidaka	BCSJ	32 (1959)	1317
$CoC_4H_{16}N_4O_6P_2S_2Na.8H_2O$	Cobalt (III)-ethylenediamine, thiophosphate complex (sodium salt) octahydrate	850-1250	S	Spec, Struct	Hidaka	BCSJ	32 (1959)	1317
$CoC_4H_{16}N_4O_6S_4Na$	Cobalt (III)-ethylenediamine, thiosulfate complex (sodium salt)	1000-1250	S	Spec, Struct	Hidaka	BCSJ	32 (1959)	1317
$CoC_4H_{16}N_6O_4$	cis-Cobalt (III)-ethylenediamine, nitrite complex	-	-	Config., Spec	Morris	DA	19 (1958)	223
$CoC_4H_{16}N_6O_4$	trans-Cobalt (III)-ethylenediamine, nitrite complex	-	-	Config., Spec	Morris	DA	19 (1958)	223
$CoC_4H_{16}N_7O_6$	cis-Cobalt (III)-ethylenediamine, nitrite complex nitrite	800-1500 800-1500 700-3500	S Sol S	Bonding Freq, Struct Spec, Freq, Config.	Gatehouse Chatt Morris	JINC JCS JACS	8 (1958) - (1959) 82 (1960)	79 4073 1521
$CoC_4H_{16}N_7O_6$	trans-Cobalt(III)-ethylenediamine, nitrite complex	800-1500 800-1500 700-3500	S Sol S	Bonding Freq, Struct Spec, Freq, Config.	Gatehouse Chatt Morris	JINC JCS JACS	8 (1958) - (1959) 82 (1960)	79 4073 1521

$CoC_4H_{16}N_7O_7$	cis-Cobalt (III)-ethylenediamine, nitrite complex nitrate	2-15 μ	S	Band freq, Spec	Merritt	JPC	59 (1955)	55
		800-1500	S	Bonding	Gatehouse	JINC	8 (1958)	79
		800-1500	Sol	Freq	Chatt	JCS	- (1959)	4073
		700-3500	S	Spec, Freq, Config.	Morris	JACS	82 (1960)	1521
$CoC_4H_{16}N_7O_7$	trans-Cobalt (III)-ethylenediamine, nitrite complex nitrate	2-15 μ	S	Spec, Band study	Merritt	JPC	59 (1955)	55
		800-1500	S	Bonding	Gatehouse	JINC	8 (1958)	79
		800-1500	Sol	Freq, Struct	Chatt	JCS	- (1959)	4073
		700-3500	S	Spec, Freq, Config.	Morris	JACS	82 (1960)	1521
$CoC_4H_{18}Br_3N_4O$	cis-Cobalt (III)-bromide, ethylene diamine, water complex bromide	2-15 μ	S	Band freq	Merritt	JPC	59 (1955)	55
$CoC_4H_{19}Br_2N_4O_2$	trans-Cobalt (III)-ethylenediamine, hydroxide, water complex bromide	2-15 μ	S	Band freq	Merritt	JPC	59 (1955)	55
$CoC_4H_{20}Cl_6N_4$	Cobalt (III)-chloride, ethylene diamine complex chloride	-	S	Freq	Schultz	JACS	71 (1949)	1288
CoC_4DO_4	Cobalt deutro-carbonyl	703-2121	G	I	Sternberg	JACS	75 (1953)	2717
CoC_4NO_5	Cobalt (0)-carbon monoxide, nitric oxide complex	1700-2050	G	Freq	Lewis	JINC	7 (1958)	32
$CoC_4N_4S_4Ba$	Cobalt (II)-isothiocyanate complex (Barium salt)	2-14 μ	S,Sol	Band study	Brubaker	JACS	80 (1958)	5073
$CoC_4N_4S_4Hg$	Cobalt (II)-isothiocyanate complex (mercury (II) salt)	-	S	Freq assign	Mitchell	JCS	- (1960)	1912
CoC_4O_4	Cobalt carbonyl ion	2-24 μ	Sol	Spec, I, Assign	Friedel	JACS	77 (1955)	3951
$CoC_4H_8N_2O_8K_3$	Cobalt (III)-	2100-2150	S	Struct				

$CoC_5H_3N_5O_2K_3$	Cobalt (III)-cyanide, hydroxide complex monohydrate (Potassium salt)	2100-2150	S	Struct	Griffith	JINC	7 (1958)	295
$CoC_5H_4N_6O_3K_3$	Cobalt (III)-cyanide, nitric oxide complex (Potassium salt) monohydrate	2100-2150	S	Struct	Griffith	JINC	7 (1958)	295
$CoC_5H_7O_2$	Cobalt (II)-acetyl acetone complex	-	Sol	Group freq	Bellamy	JCS	- (1954)	4491
$CoC_5H_{16}BrClN_5S$	trans-Cobalt (III)-ethylenediamine, chloride, isothiocyanate complex bromide	680-4000	S	Struct, Iso, Assign	Chamberlain	JACS	81 (1959)	6412
$CoC_5H_{16}BrN_4O_3$	Cobalt (III)-ethylenediamine, carbonate complex bromide	400-5000 700-4000	S S	Spec Freq assign	Nakamoto Gatehouse	JACS JCS	79 (1957) - (1958)	4904 3137
$CoC_5H_{16}ClN_4O_3$	Cobalt (III)-ethylenediamine, carbonate complex chloride	700-4000	S	Freq assign	Gatehouse	JCS	- (1958)	3137
$CoC_5H_{16}ClN_6O_2S$	cis-Cobalt (III)-ethylenediamine, nitrite thiocyanate complex chloride	800-1500	Sol	Struct, Freq	Chatt	JCS	- (1959)	4073
$CoC_5H_{16}ClN_6O_2S$	trans-Cobalt (III)-ethylenediamine, nitrite thiocyanate complex chloride	800-1500	Sol	Struct, Freq	Chatt	JCS	- (1959)	4073

$CoC_5H_{16}ClN_6O_2S$	trans-Cobalt (III)-chloride, ethylene diamine, nitrite complex thiocyanate	800-1500	Sol	Freq, Struct	Chatt	JCS	-	(1959)	4073
$CoC_5H_{16}Cl_2N_5O$	trans-Cobalt (III)-ethylenediamine, chloride complex isocyanate	400-4000	S	Spec, Freq	Baldwin	JCS	-	(1960)	4369
$CoC_5H_{16}Cl_2N_5O_4S$	cis-Cobalt (III)-chloride, ethylene diamine, isothiocyanate complex perchlorate	680-4000	S	Struct, Iso, Assign	Chamberlain	JACS	81	(1959)	6412
$CoC_5H_{16}Cl_2N_5O_4S$	trans-Cobalt (III)-chloride, ethylene diamine, isothiocyanate complex perchlorate	2-15 μ	S	Band freq	Merritt	JPC	59	(1955)	55
$CoC_5H_{16}Cl_2N_5S$	cis-Cobalt (III)-chloride, ethylene diamine complex thiocyanate	400-4000	S	Freq, Spec	Baldwin	JCS	-	(1960)	4369
$CoC_5H_{16}Cl_2N_5S$	trans-Cobalt (III)-chloride, ethylene diamine complex thiocyanate	400-4000	S	Freq, Spec	Baldwin	JCS	-	(1960)	4369
$CoC_5H_{16}Cl_2N_5S$	cis-Cobalt (III)-chloride, ethylene diamine, isothiocyanate complex chloride	2-15 μ	S	Band freq	Merritt	JPC	59	(1955)	55
$CoC_5H_{16}Cl_2N_5S$	trans-Cobalt (III)-chloride, ethylene diamine complex isothiocyanate	680-4000	S	Struct, Iso, Assign	Chamberlain	JACS	81	(1959)	6412
$CoC_5H_{16}IN_4O_3$	Cobalt (III)-carbonate, ethylene	700-4000	S	Freq assign	Gatehouse	JCS	-	(1958)	3137

$CoC_5H_{16}IN_4O_3$	Cobalt (III)-carbonate, ethylene diamine complex iodide	700-4000	S	Freq assign	Gatehouse	JCS	- (1958)	3137
$CoC_5H_{16}N_7O_4S$	cis-Cobalt (III)-ethylenediamine, nitrite, thiocyanate complex nitrite	800-1500	Sol	Struct, Freq	Chatt	JCS	- (1959)	4073
$CoC_5H_{16}N_7O_4S$	cis-Cobalt (III)-ethylenediamine, nitrite complex thiocyanate	800-1500 800-1500	S S	Bonding Struct, Freq	Gatehouse Chatt	JINC JCS	8 (1958) - (1959)	79 4073
$CoC_5H_{16}N_7O_4S$	trans-Cobalt (III)-ethylenediamine, nitrite complex thiocyanate	800-1500 800-1500	S S	Bonding Struct, Freq	Gatehouse Chatt	JINC JCS	8 (1958) - (1959)	79 4073
$CoC_5H_{16}N_7O_4S$	trans-Cobalt (III)-ethylenediamine, nitrite, thiocyanate complex nitrite	800-1500	Sol	Freq, Struct	Chatt	JCS	- (1959)	4073
$CoC_5N_5O_3S_2K_4$	Cobalt (III)-cyanide, thio-sulphate complex (potassium salt)	1000-1250	S	Spec, Struct	Hidaka	BCSJ	32 (1959)	1317
$CoC_5N_6OK_3$	Cobalt (II)-cyanide nitric oxide complex (potassium salt)	600-2200	S	Struct	Griffith	JINC	7 (1958)	38
$CoC_6H_4BrCl_3N_2$	p-Bromobenzene-diazonium chloride cobalt (II)-chloride double salt	-	-	Struct	Kazitsyns	IANS	- (1960)	1523
$CoC_6H_8N_2O_8K.H_2O$	Cobalt (III)-ethylene diamine, oxalate complex (potassium salt) monohydrate	-	-	Spec	Kyuno	NKZ	80 (1959)	849

$CoC_6H_9N_2O_8 \cdot H_2O$	Cobalt (III)-ethylene diamine, oxalate complex (hydrogen salt) monohydrate	-	-	Spec	Kyuno	NKZ	80 (1959)	852
$CoC_6H_{12}N_3OS_4$	Cobalt (II) dimethyl-thiocarbamate	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
$CoC_6H_{12}N_3O_6 \cdot H_2O$	Cobalt (III)-glycine complex monohydrate	2-15 μ	S	Spec, Assign	Saraceno	JACS	80 (1958)	5018
$CoC_6H_{12}N_3O_6 \cdot 2H_2O$	Cobalt (III)-glycine complex dihydrate	2-15 μ	S	Spec, Assign	Saraceno	JACS	80 (1958)	5018
$CoC_6H_{16}ClN_6O_4S_2$	cis-Cobalt (III)-ethylenediamine, isothiocyanate complex perchlorate	680-4000	S	Struct, Iso, Assign	Chamberlain	JACS	81 (1959)	6412
$CoC_6H_{16}ClN_6S_2$	cis-Cobalt (III)-chloride, ethylene diamine, isothio-cyanate complex isothiocyanate	2-15 μ	S	Band freq	Merritt	JPC	59 (1955)	55
$CoC_6H_{16}ClN_6S_2$	trans-Cobalt (III)-chloride, ethylene diamine, isothio-cyanate complex isothiocyanate	680-4000	S	Struct, Iso, Assign	Chamberlain	JACS	81 (1959)	6412
$CoC_6H_{16}ClN_6S_2 \cdot H_2O$	Cobalt (III)-chloride, ethylene diamine isothio-cyanate complex isothiocyanate monohydrate	680-4000	S	Struct, Iso, Assign	Chamberlain	JACS	81 (1959)	6412

$CoC_6H_{16}ClN_6S_2 \cdot H_2O$	cis-Cobalt (III)-ethylenediamine, isothiocyanate complex chloride monohydrate	680–4000	S	Struct, Iso, Assign	Chamberlain	JACS	81 (1959)	6412
$CoC_6H_{16}ClN_6S_2 \cdot H_2O$	trans-Cobalt (III)-ethylenediamine, isothiocyanate complex chloride monohydrate	680–4000	S	Struct, Iso, Assign	Chamberlain	JACS	81 (1959)	6412
$CoC_6H_{16}ClN_6S_4 \cdot H_2O$	Cobalt (III)-ethylenediamine, isothiocyanate complex chloride monohydrate	1900–2100	S	Freq	Fujita	JACS	78 (1956)	3295
$CoC_6H_{16}Cl_2N_6O_8S_2Ag$	Cobalt (III)-ethylenediamine, isothiocyanate complex perchlorate, silver perchlorate	680–4000	S	Struct, Iso, Assign	Chamberlain	JACS	81 (1959)	6412
$CoC_6H_{17}N_7O_2S_2$	trans-Cobalt (III)-ethylenediamine, nitrite, thiocyanate complex thiocyanate	800–1500	Sol	Freq, Struct	Chatt	JCS	- (1959)	4073
$CoC_6H_{18}Br_2O_2S_3$	Cobalt (II)-dimethyl sulfoxide complex bromide	650–4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534
$CoC_6H_{18}Cl_2O_2P_2$	Cobalt (II)-trimethyl phosphineoxide complex chloride	800–1400	S	Freq	Cotton	JCS	- (1960)	2199
$CoC_6H_{18}Cl_2O_3S_3$	Cobalt (II)-dimethyl sulfoxide complex chloride	650–4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534

$CoC_6H_{18}I_2O_3S_3$	Cobalt (II)-dimethyl sulfoxide complex iodide	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534
$CoC_6H_{24}Br_3N_6$	Cobalt (III)-ethylenediamine complex bromide	2-15 μ	S	Spec, Freq	Hill	JCP	24 (1956)	1219
		400-4000	S	Spec, Freq	Baldwin	JCS	- (1960)	4369
$CoC_6H_{24}Cl_3N_6$	Cobalt (III)-ethylene diamine complex chloride	400-1750	S	Spec, Config.	Powell	JCS	- (1959)	791
		400-4000	S	Spec, Freq	Baldwin	JCS	- (1960)	4369
		700-3500	S	Spec, Freq assign, Config.	Morris	JACS	82 (1960)	1521
$CoC_6H_{24}Cl_3N_6$	cis-Cobalt (III)-ethylenediamine complex chloride	2-15 μ	S	Band freq	Merritt	JPC	59 (1955)	55
		2-15 μ	S	Spec, Freq	Hill	JCP	24 (1956)	1219
$CoC_6H_{24}ClN_6O_4$	Cobalt (III)-ethylene diamine complex perchlorate	400-4000	S	Freq, Spec	Baldwin	JCS	- (1960)	4369
$CoC_6H_{24}I_3N_6$	Cobalt (III)-ethylene diamine complex iodide	2-15 μ	S	Spec, Freq	Hill	JCP	24 (1958)	1219
		400-4000	S	Spec, Freq	Baldwin	JCS	- (1960)	4369
CoC_6N_6	Cobalt (III)-hexacyanide complex ion	250-2200	S	Spec, Assign	Hidalgo	ARS	56A (1960)	9
$CoC_6N_6K_3$	Cobalt (III)-cyanide complex (potassium salt)	-	S,Sol	Assign	Bonino	AAN	21 (1956)	246
		2143	S	Struct	Griffith	JINC	7 (1958)	295
		250-2200	-	Assign	Hidalgo	CPh	249 (1959)	233
$CoC_6O_{12}K_3 \cdot 3H_2O$	Cobalt (III)-oxalate complex (potassium salt) trihydrate	445-3450	S	Assign	Schmelz	SA	9 (1957)	51
$CoC_7H_5O_2$	Cobalt (I)-cyclopentadienyldicarbon monoxide	1700-2200	Sol	Spec, Struct	Cotton	JINC	1 (1955)	175
		600-5000	Sol	Spec, Config., Struct, Freq	Piper	JINC	1 (1955)	165

$CoC_7H_5O_2$	Salicylaldehyde cobalt chelate	-	S	Group freq	Bellamy	JCS	- (1954)	4491
$CoC_7H_7O_3$	Cobalt (III)-carbonyl butadiene complex	-	-	Config	Jonassen	JACS	80 (1958)	2586
$CoC_7H_{14}Cl_2N_5O_2 \cdot 2H_2O$	Cobalt (III)-amino-propionate, ethylene-diamine complex chloride, dihydrate	-	-	Spec	Ogawa	NKZ	81 (1960)	72
$CoC_7H_{16}N_7S_3$	cis-Cobalt (III)-ethylenediamine, isothiocyanate complex isothio-cyanate	680-4000	S	Struct	Chamberlain	JACS	81 (1959)	6412
$CoC_7H_{16}N_7S_3$	trans-Cobalt (III)-ethylenediamine, isothiocyanate complex isothio-cyanate	680-4000	S	Struct, Iso, Assign	Chamberlain	JACS	81 (1959)	6412
$CoC_7H_{24}N_7S$	Cobalt (I)-ethylene diamine complex thiocyanate	400-4000	S	Freq, Spec	Baldwin	JCS	- (1960)	4369
$CoC_8H_4F_3O_2S$	Thenoyltrifluoro-acetone cobalt chelate	-	Sol	Group freq	Bellamy	JCS	- (1954)	4491
$CoC_8H_{11}BrN_2O_7 \cdot Na.H_2O$	Cobalt (III)-bromide, hydroxy, ethylene-diamine triacetic acid complex (sodium salt) monohydrate	800-3600	S	Struct, Ident	Morris	JACS	78 (1956)	5178
$CoC_8H_{11}N_2O_7Na. 1.5H_2O$	Cobalt (III)-hydroxy, ethylenediamine tri-acetic acid complex (sodium salt) 1.5 hydrate	800-3600	S	Struct, Ident	Morris	JACS	78 (1956)	5178

$CoC_8H_{12}D_3Cl_2N_2O_4$	Cobalt (III)-chloride, dimethyl oxime-d_1 complex (deuterium salt)	2-15 μ	S	Spec	Nakahara	BCSJ	29 (1956)	296
$CoC_8H_{13}D_2Cl_2N_4O_4$	Cobalt (III)-dimethyl glyoxime-d_1, chloride complex (hydrogen salt)	2-15 μ	S	Spec	Nakahara	BCSJ	29 (1956)	296
$CoC_8H_{14}N_6O_8Na$	Cobalt (III)-dimethyl glyoxime, nitrite complex (sodium salt)	1740	S	Band study	Fujita	JCP	23 (1955)	1541
		5-7 μ	S	Spec	Nakahara	BCSJ	29 (1956)	296
$CoC_8H_{15}Br_2N_4O_4$	Cobalt (III)-bromide, dimethyl glyoxime complex (hydrogen salt)	1685	S	Band study	Fujita	JCP	23 (1955)	1541
		5-7 μ	S	Spec	Nakahara	BCSJ	29 (1956)	296
$CoC_8H_{15}Cl_2N_4O_4$	Cobalt (III)-chloride dimethyl glyoxime	1725	S	Band study	Fujita	JCP	23 (1955)	1541
		2-6 μ	S	Spec	Nakahara	BCSJ	28 (1955)	473
		2-15 μ	S	Spec	Nakahara	BCSJ	29 (1956)	296
$CoC_8H_{15}N_6O_8$	Cobalt (III)-dimethyl glyoxime, nitrite complex (hydrogen salt)	5-7 μ	S	Spec	Nakahara	BCSJ	29 (1956)	296
$CoC_8H_{16}N_5O_7$	Cobalt (III)-dimethyl glyoxime, water, nitrite complex	5-7 μ	S	Spec	Nakahara	BCSJ	29 (1956)	296
$CoC_8H_{17}ClN_5O_4$	Cobalt (III)-ammonia, dimethyl glyoxime complex	5-7 μ	S	Spec	Nakahara	BCSJ	29 (1956)	296
$CoC_8H_{17}N_6O_6$	Cobalt (III)-dimethyl nitrite complex	5-7 μ	S	Spec	Nakahara	BCSJ	29 (1956)	296
$CoC_8H_{18}N_2O_3S_2$	Cobalt (II)-dimethyl sulfoxide complex	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534

$CoC_8H_{18}N_2O_3S_5$	Cobalt (II)-dimethyl sulfoxide complex thiocyanate	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534
$CoC_8H_{20}ClN_6O_4$	Cobalt (III)-ammonia, dimethyl glyoxime complex chloride	5-7 μ	S	Spec	Nakahara	BCSJ	29 (1956)	296
$CoC_8H_{20}Cl_2N_8$	Cobalt (II)-acetyl dihydrazone, chloride complex	600-3500	S	Spec, Assign	Stonfer	JACS	82 (1960)	3491
$CoC_9H_9INO_6S$	Cobalt (II)-5-sulfo-7-iodo-8-hydroxy-quinoline, water complex	-	S	Struct	Nortia	SK	32B (1959)	83
$CoC_9H_{10}NO_6S$	Cobalt (II)-8-hydroxy quinoline-5-sulfonic acid, water complex	-	S	Struct	Nortia	SK	32B (1959)	83
$CoC_9H_{13}INO_8S.H_2O$	Cobalt (II)-7-iodo-8-hydroxyquinoline-5-sulfonic acid, water complex monohydrate	-	S	Struct	Nortia	SK	32B (1959)	83
$CoC_9H_{14}NO_8S.2H_2O$	Cobalt (II)-8-hydroxy quinoline-5-sulfonic acid, water complex dihydrate	-	S	Struct	Nortia	SK	32B (1959)	83
$CoC_9H_{24}N_9S_3$	Cobalt (III)-ethylene diamine complex isothiocyanate	680-4000	S	Struct, Iso, Assign	Chamberlain	JACS	81 (1959)	6412
$CoC_{10}H_{10}$	Bis-cyclopentadienyl cobalt (II)	-	Sol	Band freq	Wilkinson	JACS	76 (1954)	1970
$CoC_{10}H_{12}BrN_2O_8Na_2$	Cobalt (III)-bromide-ethylenediamine tetraacetic acid (sodium salt)	-	-	Spec	Morris	DA	19 (1958)	223

$CoC_{10}H_{12}Br_4N_2$	Pyridinium tetrabromo-cobaltate (II)	-	-	Freq	Schultz	JACS	71 (1949)	1288
$CoC_{10}H_{12}ClN_2O_8Na_2$	Cobalt (III)-chloride, ethylenediamine tetraacetic acid complex (sodium salt)	800-3600 -	S -	Struct, Ident Spec	Morris Morris	JACS DA	78 (1956) 19 (1958)	5178 223
$CoC_{10}H_{12}N_2O_8Na.2H_2O$	Cobalt (III)-ethylenediamine tetraacetic acid complex (sodium salt) dihydrate	800-1800	S	Spec, Bond	Donald	JACS	82 (1960)	4191
$CoC_{10}H_{12}N_2O_8Na_2.1.5H_2O$	Cobalt (II)-ethylenediamine tetraacetic acid complex (sodium salt) 1.5 hydrate	800-1800	S	Spec, Freq	Sawyer	JACS	81 (1959)	816
$CoC_{10}H_{12}N_3O_{10}Na_2$	Cobalt (III)-ethylenediamine tetraacetic acid, nitrate complex (sodium salt)	-	-	Spec	Morris	DA	19 (1958)	223
$CoC_{10}H_{12}N_3O_{10}Na_2.H_2O$	Cobalt (III)-ethylenediamine tetraacetic acid, nitrocomplex (sodium salt) monohydrate	800-3600	S	Struct, Ident	Morris	JACS	78 (1956)	5178
$CoC_{10}H_{13}BrN_2O_8Na$	Cobalt (III)-bromide, ethylene-diamine tetraacetic acid (pentadentate) complex (sodium salt)	-	-	Spec, Struct	Morris	DA	19 (1958)	223

$CoC_{10}H_{13}ClN_2O_8Na$	Cobalt (III)-chloride, ethylene-diamine tetraacetic acid (pentadentate) complex (sodium salt)	-	-	Spec, Struct	Morris	DA	19 (1958)	223
$CoC_{10}H_{13}ClN_2O_8Na$	Cobalt (III)-chloride, ethylene diamine tetraacetic acid complex (sodium salt)	-	-	Spec, Struct	Kyuno	NKZ	81 (1960)	223
$CoC_{10}H_{13}ClN_2O_8Na.\frac{1}{2}H_2O$	Cobalt (III)-chloride, ethylene diamine tetraacetic acid complex (sodium salt) hemihydrate	800-3600	S	Struct, Ident	Morris	JACS	78 (1956)	5178
$CoC_{10}H_{13}N_2O_8$	Cobalt (III)-ethylene diamine tetraacetic acid (hydrogen salt)	-	-	Spec, Struct	Kyuno	NKZ	81 (1960)	232
$CoC_{10}H_{13}N_2O_8 \cdot 4H_2O$	Cobalt (III)-ethylene diamine tetraacetic acid complex (hydrogen salt) tetrahydrate	-	-	Spec	Kyuno	NKZ	81 (1960)	232
$CoC_{10}H_{13}N_3O_{10}Na$	Cobalt (II)ethylene diamine tetraacetic acid (pentadentate), nitrite complex (sodium salt)	-	-	Spec, Struct	Morris	DA	19 (1958)	223
$CoC_{10}H_{13}N_3O_{10}Na \cdot H_2O$	Cobalt (III)-ethylene-diamine tetraacetic acid, nitrite complex (sodium salt) monohydrate	800-3600	S	Struct, Ident	Morris	JACS	78 (1956)	5178

$CoC_{10}H_{14}ClN_2O_8 \cdot 2H_2O$	Cobalt (III)-chloride, ethylenediamine tetraacetic acid complex (hydrogen salt) dihydrate	-	-	Spec, Struct	Kyuno	NKZ	81 (1960)	232
$CoC_{10}H_{14}O_4$	Cobalt (III)-acetyl acetonate	625-5000	S	Spec, Struct	West	JINC	5 (1958)	295
$CoC_{10}H_{15}BrN_2O_7Na$	Cobalt (III)-bromide, hydroxyethyl, ethylenediamine triacetic acid complex (sodium salt)	-	-	Spec, Struct	Morris	DA	19 (1958)	223
$CoC_{10}H_{15}ClN_2O_7Na$	Cobalt (III)-chloride, hydroxyethyl, ethylenediamine triacetic acid complex (sodium salt)	-	-	Spec, Struct	Morris	DA	19 (1958)	223
$CoC_{10}H_{15}N_3O_9Na$	Cobalt (III)-hydroxyethyl, ethylenediamine triacetic acid complex (sodium salt)	-	-	Spec, Struct	Morris	DA	19 (1958)	223
$CoC_{10}H_{19}N_6O_8$	Cobalt (III)-methyl dimethyl glyoxime, nitrite complex (hydrogen salt)	2-15 μ	S	Spec	Nakahara	BCSJ	29 (1956)	296
$CoC_{10}H_{24}N_2O_4S_6$	Cobalt (III)-dimethyl sulfoxide complex thiocyanate	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534
$CoC_{12}H_8Cl_4N_6O_4$	p-Nitrobenzene diazonium chloride, cobalt (II) chloride double salt	-	-	Struct	Kazitsyna	IANS	- (1960)	1523

$CoC_{12}H_8Cl_6N_4$	p-Chlorobenzene diazonium chloride, cobalt (II) chloride double salt	-	-	Struct	Kazitsyna	IANS	- (1960)	1523
$CoC_{12}H_8IN_4O_2$	Cobalt-iodide, nitric oxide, o-phenanthroline complex	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
$CoC_{12}H_8N_2O_4$	Cobalt (II)-2-pyridine carboxylic acid chelate	-	-	Struct	Lumme	SK	31B (1958)	294
$CoC_{12}H_{21}N_6O_6$	Cobalt-dimethyl glyoxime complex	2-6 μ	S	Spec	Nakahara	BCSJ	28 (1955)	473
		2-15 μ	S	Spec	Nakahara	BCSJ	29 (1956)	296
$CoC_{12}H_{21}N_6O_6 \cdot 2.5H_2O$	Cobalt-dimethyl glyoxime complex 2.5 hydrate	2-6 μ	S	Spec	Nakahara	BCSJ	28 (1955)	473
$CoC_{12}H_{30}I_2N_{12}$	Cobalt (III)-biacetyl dihydrazone complex iodide	600-3500	S	Spec, Assign	Stoufer	JACS	82 (1960)	3491
$CoC_{12}H_{36}Cl_2O_{12}P_4$	Cobalt (II)-trimethyl phosphine oxide complex perchlorate	800-1400	S	Freq	Cotton	JCS	- (1960)	2199
$CoC_{12}H_{36}Cl_2O_{14}S_6$	Cobalt (III)-dimethyl sulfoxide perchlorate complex	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534
$CoC_{12}H_{36}I_2O_6S_2$	Cobalt (II)-dimethyl sulfoxide complex iodide	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534

$CoC_{13}H_{10}Cl_3$	Cobalt (II)-cyclopentadienyl trichloromethyl complex	-	-	Struct	Katz	JACS	80 (1958)	64
$CoC_{14}H_{14}Cl_2N_4 \cdot xH_2O$	Cobalt (II)-bis (pyridinal)-ethylenediamine complex chloride xhydrate	600-4000	S	Assign	Bush	JACS	78 (1956)	1137
$CoC_{14}H_{14}Cl_4N_4$	p-Methylbenzene diazonium chloride, cobalt (II) chloride double salt	-	-	Struct	Kazitsyna	IANS	- (1960)	1523
$CoC_{15}H_{21}O_6$	Cobalt (III)-acetyl acetonate	625-5000	S	Spec, Struct	West	JINC	5 (1958)	295
$CoC_{18}H_{10}Cl_4N_4O_4$	p-Carbethoxy benzene diazonium chloride, cobalt (II) chloride double salt	-	-	Struct	Kazitsyna	IANS	- (1960)	1523
$CoC_{18}H_{12}N_2O_2$	Cobalt (III)-8-hydroxy quinoline chelate	- 8-15 μ	S S	Assign, Spec Spec	Charles Charles	AC SA	25 (1953) 8 (1956)	530 1956
$CoC_{18}H_{14}Br_3$	Dibenzcobalticinium tribromide	6-15 μ	S	Spec	Pauson	JACS	76 (1954)	2024
$CoC_{18}H_{14}ClO_4$	Dibenzcobalticinium perchlorate	3-15 μ	S	Spec	Pauson	JACS	76 (1954)	2024
$CoC_{18}H_{16}Br_4N_2$	Quinoline tetrabromocobaltate (II)	-	S	Freq	Schultz	JACS	71 (1949)	1288
$CoC_{19}H_{15}NO_2P$	Cobalt (o)-Carbon monooxide, nitric oxide, triphenyl phosphine complex	1700-2050	Sol	Freq	Lewis	JINC	7 (1958)	32

$CoC_{20}H_{12}N_2O_4$ Cobalt (II)- - - Struct Lumme SK 31B (1958) 294

$CoC_{20}H_{12}N_2O_4$	Cobalt (II)-8-quinoline carboxylic acid chelate	-	-	Struct	Lumme	SK	31B (1958)	294
$CoC_{20}H_{16}ClN_2O_4$	Cobalt (I)-dipyridyl complex perchlorate	-	Sol	Extinction curves	Csaszar	NWS	46 (1959)	488
$CoC_{20}H_{16}N_2O_2$	Cobalt (II)-2-methyl-8-hydroxyquinoline chelate	8-15 μ	S	Assign, Spec	Charles	SA	8 (1956)	1
$CoC_{20}H_{16}N_2O_2$	Cobalt (II)-4-methyl-8-hydroxyquinoline chelate	8-15 μ	S	Assign, Spec	Charles	SA	8 (1956)	1
$CoC_{20}H_{22}O_4$	Cobalt-γ-isopropyl tropolonate	-	S	Band freq	Bryant	JOC	19 (1954)	1889
$CoC_{23}H_{21}NO_3As$	Cobalt-carbon-moncoxide, nitric oxide, tritropylium arsine complex	1700-2050	Sol	Freq	Lewis	JINC	7 (1958)	32
$CoC_{23}H_{21}NO_3Sb$	Cobalt-carbon-monooxide, nitric oxide, tritropylium stibene complex	1700-2050	Sol	Freq	Lewis	JINC	7 (1958)	32
$CoC_{32}H_{16}N_8$	Cobalt phthalo-cyanine	3-15 μ	S	Spec	Ebert	JACS	74 (1952)	2806
$CoC_{36}H_{24}Cl_2N_6O_8$	Cobalt (II)-1:10-phenanthroline complex perchlorate	600-2000	S	Spec	Schilt	JINC	9 (1959)	211

$CoC_{36}H_{24}Cl_3N_6O_{12}$	Cobalt (III)-1:10-phenanthroline complex perchlorate	600-2000	S	Spec	Schilt	JINC	9 (1959)	211
$CoC_{36}H_{30}Br_2O_2P_2$	Cobalt (II)-triphenyl phosphineoxide complex bromide	900-1300	S	Freq	Cotton	JCS	- (1960)	2199
$CoC_{36}H_{30}Cl_2O_2P_2$	Cobalt (II)-triphenyl phosphineoxide complex chloride	900-1300	S	Freq	Cotton	JCS	- (1960)	2199
$CoC_{36}H_{30}I_2O_2P_2$	Cobalt (II)-triphenyl phosphineoxide complex iodide	900-1300	S	Freq	Cotton	JCS	- (1960)	2199
$CoC_{38}H_{30}NO_9P_2$	Cobalt-carbonmonoxide, nitric oxide, triphenoxy phosphine complex	1700-2050	Sol	Freq	Lewis	JINC	7 (1958)	32
$CoC_{63}H_{90}N_{14}O_{14}P$	Vitamin B_{12}	-	-	Band freq	Kaczka	JACS	73 (1951)	335
		700-3500	S	Spec	Jackson	JACS	73 (1951)	337
		-	S	Ident	Armitage	JCS	- (1953)	3849
$CoC_{72}H_{60}Cl_2O_{12}P_4$	Cobalt (II)-triphenyl phosphine oxide complex perchlorate	900-1300	S	Freq	Cotton	JCS	- (1960)	2199
CoH	Cobalt hydride	-	-	FC, Bond distance	Platt	JCP	18 (1950)	932
		-	-	FC, Bond distance	Sheline	JCP	18 (1950)	927
CoHF	Cobalt hydrogen-fluoride	-	G	Freq	Bellamy	JCS	- (1957)	4294
$CoHN_5O_{10}Na_2$	Cobalt (III)-hydroxide, nitrite, nitric oxide complex (sodium salt)	600-2200	S	Struct	Griffith	JINC	7 (1958)	38
CoH_4F_3N	Cobalt (III)-ammonium-fluoride	1400-4000	S	Spec	Crocket	JACS	82 (1960)	4158
$CoH_4N_2O_6S_2$	Cobalt sulfamate	-	-	Freq, Assign	Nakamoto	JACS	80 (1958)	4817
		400-5000	S	Spec, Freq, Assign				

$CoH_4N_2O_6S_2$	Cobalt sulfamate	-	S	Freq, Assign	Bicelli	AC	47 (1957)	1380
$CoH_6N_6O_8$	1,6-Cobalt (III)-ammonia, nitrite complex anion	400-5000	S	Spec, Freq, Assign	Nakamoto	JACS	80 (1958)	4817
$CoH_6N_6O_8K$	trans-Cobalt (III)-ammonia, nitrite complex (potassium salt)	2-15 μ	S	Assign	Beattie	JCS	- (1956)	2849
		650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467
$CoH_8Cl_2N_4$	Cobalt (II)-hydrazine, chloride complex	15-35 μ	S	Freq	Saconi	N	186 (1960)	549
$CoH_8N_2O_8S_2$	Cobalt ammonium sulfate	0.8-1.25 μ	Sol	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
$CoH_9N_6O_6$	Cobalt (III)-ammonia, nitrite complex	650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		-	-	Struct	Majumdar	CPR	247 (1958)	302
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467
$CoH_9N_6O_6$	trans-Cobalt (III)-ammonia, nitrite complex	2-15 μ	S	Assign	Beattie	JCS	- (1956)	2849
$CoH_9N_6O_6$	1,2,3-Cobalt (III)-ammonia, nitrite complex	400-5000	S	Spec, Freq, Assign, Struct	Nakamoto	JACS	80 (1958)	4817
$CoH_9N_6O_6$	1,2,4-Cobalt (III)-ammonia, nitrite complex	400-5000	S	Spec, Freq, Assign, Struct	Nakamoto	JACS	80 (1958)	4817
CoH_9N_{12}	Cobalt (III)-ammonia, azide complex	1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295
$CoH_{10}N_7O_8$	trans-Cobalt (III)-ammonia nitrite complex (Ammonium salt)	2-15 μ	S	Assign	Beattie	JCS	- (1956)	2849

$CoH_{12}ClN_6O_4$	cis-Cobalt (III)-ammonia nitrite complex chloride	2-15 μ	S	Band freq	Faust	JACS	76 (1954)	5346
		2-15 μ	S	Assign	Merritt	JPC	59 (1955)	55
		2-15 μ	S	Spec, Assign	Beattie	JCS	- (1956)	2849
$CoH_{12}ClN_6O_4$	trans-Cobalt (III)-ammonia, nitrite complex chloride	2-15 μ	S	Group freq, Spec	Faust	JACS	76 (1954)	5346
		2-15 μ	S	Band freq	Merritt	JPC	59 (1955)	55
		2-15 μ	S	Assign	Beattie	JCS	- (1956)	2849
		650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467
$CoH_{12}Cl_2N_5O_3$	Cobalt (III)-ammonia, chloride nitrate complex chloride	700-4000	S	Assign	Gatehouse	JINC	8 (1958)	75
$CoH_{12}Cl_2N_5O_3 \cdot \frac{1}{2} H_2O$	Cobalt (III)-ammonia, nitrate, chloride complex chloride hemi-hydrate	700-4000	S	Assign	Gatehouse	JCS	- (1957)	4222
$CoH_{12}Cl_3N_4$	cis-Cobalt (III)-ammonia, chloride complex chloride	2-15 μ	S	Band freq	Merritt	JPC	59 (1955)	55
$CoH_{12}Cl_3N_4$	trans-Cobalt (III)-ammonia, chloride complex chloride	2-15 μ	S	Band freq	Merritt	JPC	59 (1955)	55
$CoH_{12}N_4O_4P \cdot 2H_2O$	Cobalt (III)-ammonia complex phosphate dihydrate	640-4000	S	Assign	Siebert	ZAUA	296 (1958)	280
$CoH_{12}N_6O_4$	1,2-Cobalt (III)-ammonia nitrite complex cation	400-5000	S	Spec, Freq, Assign, Struct	Nakamoto	JACS	80 (1958)	4817
$CoH_{12}N_6O_4$	1,6-Cobalt (III)-ammonia, nitrite complex cation	400-5000	S	Spec, Freq, Assign, Struct	Nakamoto	JACS	80 (1958)	4817

$CoH_{12}N_6O_4$ cis-Cobalt (III)- 2-15 μ S Band freq Merritt JPC 59 (1955) 55

$CoH_{12}N_7O_7$	cis-Cobalt (III)-ammonia nitrite complex nitrate	2-15 μ 2-15 μ	S S	Band freq Assign	Merritt Beattie	JPC JCS	59 (1955) - (1956)	55 2849
$CoH_{12}N_7O_7$	trans-Cobalt (III)-ammonia nitrite complex nitrate	2-15 μ	S	Band freq	Merritt	JPC	59 (1955)	55
$CoH_{12}N_7O_9$	Cobalt (III)-ammonia, nitrate complex nitrate	700-1400	S	Assign	Gatehouse	JINC	8 (1958)	75
$CoH_{12}N_7O_9 \cdot H_2O$	Cobalt (III)-ammonia, nitrate complex nitrate monohydrate	700-4000	S	Assign	Gatehouse	JCS	- (1957)	4222
$CoH_{12}O_6$	Hexaquo cobaltous ion	-	S,Sol	Freq, FC	Schultz	JCP	10 (1942)	194
$CoH_{14}ClN_4O_5S$	Cobalt (III)-ammonia chloride, water complex sulfate	-	-	Spec	Ogawa	NKZ	81 (1960)	72
$CoH_{15}BrCl_2N_5$	Cobalt (III)-ammonia, bromide complex chloride	- 2-15 μ	S S	Freq Freq, Spec	Hill Hill	JCP JCP	22 (1954) 24 (1956)	148 1219
$CoH_{15}BrN_5O_3$	Cobalt (III)-ammonia, carbonate complex bromide	400-5000	S	Spec	Nakamoto	JACS	79 (1957)	4904
$CoH_{15}BrN_5O_4S$	Cobalt (III)-ammonia, sulfate complex bromide	400-5000	S	Spec	Nakamoto	JACS	79 (1957)	4904
$CoH_{15}Br_2ClN_5$	Cobalt (III)-ammonia, chloride complex bromide	650-1650 -	S -	Freq Freq	Svatos Wilmshurst	JACS CJC	79 (1957) 38 (1960)	3313 467

$CoH_{15}Br_2FN_5$	Cobalt (III)-ammonia, fluoride complex bromide	-	S	Freq	Hill	JCP	22 (1954)	148
		2-15 μ	S	Freq, Spec	Hill	JCP	24 (1956)	1219
$CoH_{15}Br_2N_6O$	Cobalt (II)-ammonia, nitric oxide complex bromide	600-2200	S	Struct	Griffith	JINC	7 (1958)	38
$CoH_{15}Br_2N_8$	Cobalt (III)-ammonia, azide complex bromide	-	S	Freq	Hill	JCP	22 (1954)	148
		2-15 μ	S	Freq, Spec	Hill	JCP	24 (1956)	1219
$CoH_{15}Br_3N_5$	Cobalt (III)-ammonia, bromide complex bromide	-	S	Freq	Hill	JCP	22 (1954)	148
		830-1530	-	Freq	Mizushima	JCP	23 (1955)	1367
		2-15 μ	S	Freq, Spec	Hill	JCP	24 (1956)	1219
		650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467
$CoH_{15}ClN_5O_3S$	Cobalt (III)-ammonia, sulfite complex chloride	2-15 μ	S	Spec, Struct	Bertin	JACS	81 (1959)	3818
$CoH_{15}ClN_5O_3S_2$	Cobalt (III)-ammonia, chloride complex thio-sulfate	2-15 μ	S	Spec, Struct	Bertin	JACS	81 (1959)	3818
$CoH_{15}ClN_5O_3S_2$	Cobalt (III)-ammonia, thio-sulfate complex chloride	2-15 μ	S	Spec, Struct	Bertin	JACS	81 (1959)	3818
		1000-1250	S	Spec, Struct	Hidaka	BCSJ	32 (1959)	1317
$CoH_{15}ClN_5O_4S$	Cobalt (III)-ammonia, sulfate complex chloride	650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		2-15 μ	S	Spec, Struct	Bertin	JACS	81 (1959)	3818
$CoH_{15}Cl_2FN_5$	Cobalt (III)-ammonia, fluoride complex chloride	-	S	Freq	Hill	JCP	22 (1954)	148
		2-15 μ	S	Freq, Spec	Hill	JCP	24 (1956)	1219
$CoH_{15}Cl_2N_5$	Cobalt (III)-	840-1610	-	Freq	Mizushima	JCP	23 (1955)	1367

$CoH_{15}Cl_2N_5 \cdot H_2O$	Cobalt (III)-ammonia, water complex chloride	840-1610	-	Freq	Mizushima	JCP	23 (1955)	1367
$CoH_{15}Cl_2N_6O$	Cobalt (II)-ammonia, nitric oxide complex chloride	600-2200	S	Struct	Griffith	JINC	7 (1958)	38
$CoH_{15}Cl_2N_6O_2$	Cobalt (III)-ammonia, nitrite complex chloride	-	-	Struct	Penland	AC	27 (1955)	325
		2-15 μ	S	Assign	Beattie	JCS	- (1956)	2849
		2-15 μ	-	Iso	Beattie	TFS	52 (1956)	1590
		5-12 μ	S	Spec, Assign	Penland	JACS	78 (1956)	887
		650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467
$CoH_{15}Cl_2N_6O_3$	Cobalt (III)-ammonia, nitrate complex chloride	650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		2-15 μ	S	Spec, Assign	Bertin	JACS	81 (1959)	3818
$CoH_{15}Cl_2N_8$	Cobalt (III)-ammonia, azide complex chloride	-	S	Freq	Hill	JCP	22 (1954)	148
		2-15 μ	S	Freq, Spec	Hill	JCP	24 (1956)	1219
$CoH_{15}Cl_3N_5$	Cobalt (III)-ammonia, chloride complex chloride	-	S	Freq	Hill	JCP	22 (1954)	148
		1600-845	-	Freq	Mizushima	JCP	23 (1955)	1367
		2-15 μ	S	Assign	Beattie	JCS	- (1956)	2849
		2-15 μ	S	Freq, Spec	Hill	JCP	24 (1956)	1219
		450-3250	S	Assign	Powell	JCS	- (1956)	3108
$CoH_{15}Cl_4N_6O_3Pt$	Nitratopentammino cobalt (III)-tetrachloro-platinate	700-4000	S	Assign	Gatehouse	JCS	- (1957)	4222
		700-4000	S	Assign	Gatehouse	JINC	8 (1958)	75
$CoH_{15}FI_2N_5$	Cobalt (III)-ammonia, fluoride, complex iodide	-	S	Freq	Hill	JCP	22 (1954)	148
		2-15 μ	S	Freq, Spec	Hill	JCP	24 (1956)	1219

$CoH_{15}I_2N_6O$	Cobalt (III)-ammonia, nitric oxide complex iodide	600-2200	S	Struct	Griffith	JINC	7 (1958)	38
$CoH_{15}I_2N_8$	Cobalt (III)-ammonia, azide complex iodide	-	S	Freq	Hill	JCP	22 (1954)	148
		2-15 μ	S	Freq, Spec	Hill	JCP	24 (1956)	1219
		1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295
$CoH_{15}N_6O_2$	Cobalt (III)-ammonia, nitrite complex cation	400-5000	S	Spec, Freq, Struct, Assign	Nakamoto	JACS	80 (1958)	4817
$CoH_{15}N_6O_5S$	Cobalt (III)-ammonia, nitric oxide complex sulfate	600-2200	S	Struct	Griffith	JINC	7 (1958)	38
$CoH_{15}N_8O_7$	Cobalt (III)-ammonia, nitric oxide complex nitrate	600-2200	S	Struct	Griffith	JINC	7 (1958)	38
$CoH_{15}N_8O_9$	Cobalt (III)-ammonia, nitrate complex nitrate	700-4000	S	Assign	Gatehouse	JCS	- (1957)	4222
		700-4000	S	Assign	Gatehouse	JINC	8 (1958)	75
$CoH_{15}N_{14}$	Cobalt (III)-ammonia, azide complex azide	2-15 μ	S	Spec, Freq	Hill	JCP	24 (1956)	1219
$CoH_{16}Br_2N_5O$	Cobalt (III)-ammonia, hydroxide complex bromide	650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467
$CoH_{16}Cl_3N_4O_2$	Cis-Cobalt (III)-ammonia, water complex chloride	650-1650	S	Freq	Svatos	JACS	79 (1957)	3313

$CoH_{17}Br_3N_5O$	Cobalt (III)-	-	S	Freq	Hill	JCP	22 (1954)	148
	ammonia,water	2-15μ	S	Freq, Spec	Hill	JCP	24 (1956)	1219
	complex bromide							
$CoH_{17}Cl_3N_5O$	Cobalt (III)-	-	-	H bond	Freymann	JCP	6 (1938)	497
	ammonia, water	-	S	Freq	Hill	JCP	22 (1954)	148
	complex chloride	2-15μ	S	Freq, Spec	Hill	JCP	24 (1956)	1219
		650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467
$CoH_{17}F_5N_5$	Cobalt (III)-	2-15μ	S	Freq, Spec	Hill	JCP	24 (1956)	1219
	ammonia,fluoride							
	complex fluoride							
	dihydrofluoric							
	acid							
$CoH_{17}I_3N_5O$	Cobalt (III)- ammonia,	-	S	Freq	Hill	JCP	22 (1954)	148
	water complex	2-15μ	S	Freq, Spec	Hill	JCP	24 (1956)	1219
	iodide							
$CoH_{18}Br_2N_6$	Cobalt (II)-	5-20μ	S	Spec, NCA, Assign	Bertin	JACS	80 (1958)	525
	ammonia complex							
	bromide							
$CoH_{18}Br_3N_6$	Cobalt (III)-	-	S	Freq	Hill	JCP	22 (1954)	148
	ammonia complex	500-3500	S	Spec, Freq	Fujita	JACS	78 (1956)	3295
	bromide	2-15μ	S	Freq, Spec	Hill	JCP	24 (1956)	1219
		5-20	S	Spec, NCA, Assign	Bertin	JACS	80 (1958)	525
		-	S,Sol	Freq, Struct, Config	Irwing	JCS	- (1958)	2283
$CoH_{18}Cl_2N_6$	Cobalt (II)-	600-3350	S	Assign, Freq	Powell	JCS	- (1956)	3108
	ammonia complex	650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
	chloride	5-20μ	S	Spec, Freq, NCA,	Bertin	JACS	80 (1958)	525
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467
$CoH_{18}Cl_3N_6$	Cobalt (III)-ammonia	2-15μ	S	Spec, Group freq	Faust	JACS	76 (1954)	5346
	complex chloride	-	S	Freq, Assign	Hill	JCP	22 (1954)	148
		2-15μ	S	FC, Freq, Assign	Kobayashi	JCP	23 (1955)	1354
		300-4000	S	Spec, Assign	Barrow	JINC	2 (1956)	340

		500-3500	S	Spec, Freq	Fujita	JACS	78 (1956)	3295
		2-15 μ	S	Spec, Freq	Hill	JCP	24 (1956)	1219
		450-1700	S	Assign, Freq	Powell	JCS	- (1956)	3108
		650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		5-20 μ	S	NCA, Spec, Assign	Bertin	JACS	80 (1958)	525
		-	Sol	Freq, Struct, Config.	Irwing	JCS	- (1958)	2283
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467
$CoH_{18}Cl_3N_6O_{12}$	Cobalt (III)-ammonia, complex perchlorate	500-3500	S	Spec	Fujita	JACS	78 (1956)	3295
		2-15 μ	S	Freq, Spec	Hill	JCP	24 (1956)	1219
$CoH_{18}I_2N_6$	Cobalt (II)-ammonia, complex iodide	-	S	NCA, Spec, Freq	Bertin	JACS	80 (1958)	525
$CoH_{18}I_3N_6$	Cobalt (III)-ammonia, complex iodide	-	S	Freq	Hill	JCP	22 (1954)	148
		1615-810	-	Freq	Mizushima	JCP	23 (1955)	1367
		500-3500	S	Spec, Freq	Fujita	JACS	78 (1956)	3295
		2-15 μ	S	Spec, Freq	Hill	JCP	24 (1956)	1219
		5-20 μ	S	NCA, Spec, Assign	Bertin	JACS	80 (1958)	525
		-	Sol	Struct, Freq, Config	Irwing	JCS	- (1958)	2283
$CoH_{18}N_6$	Hexammine cobalt (III) ion	-	-	Freq	Mizushima	JCP	23 (1955)	1367
		2-15 μ	S	Spec, Freq, Assign, NCA	Block	TFS	55 (1959)	867
$CoH_{18}N_9O_9$	Cobalt (III)-ammonia complex nitrate	500-3500	S	Spec, Freq	Fujita	JACS	78 (1956)	3295
		2-15 μ	S	Spec, Freq	Hill	JCP	24 (1956)	1219
		700-4000	S	Spec, Assign	Gatehouse	JCS	- (1957)	4222
		700-4000	S	Assign	Gatehouse	JINC	8 (1958)	75
$CoH_{20}F_5N_6$	Cobalt (III)-ammonia complex fluoride dihydrogen fluoride	2-15 μ	S	Spec, Freq	Hill	JCP	24 (1956)	1219
$CoD_{15}Cl_3N_5$	Cobalt (III)-ammonia,chloride complex chloride-d_{15}	487	S	Assign	Powell	JCS	- (1956)	3108

$CoD_{18}Cl_3N_6$	Cobalt (III)-ammonia complex chloride-d_{18}	300-4000 450-1700	S S	Spec, Assign Assign, Freq	Barrow Powell	JINC JCS	2 (1956) - (1956)	340 3108
$CoD_{18}N_6$	Hexammine cobalt (III)-ion-d_{18}	- 2-15 μ	- S	Freq Spec, Freq, Assign, NCA	Mizushima Block	JCP TFS	23 (1955) 55 (1959)	1367 867
$CoBr_2$	Cobalt bromide	-	G	Freq	Bellamy	JCS	- (1957)	4294
CoClF	Cobalt chloro fluoride	-	G	Freq	Bellamy	JCS	- (1957)	4294
$CoCl_2$	Cobalt chloride	0.6-1.35 μ	Sol	Activity vs concentration	Hulburt	JPC	21 (1917)	150
		0.6-1.5 μ	Sol	Spec	Coblentz	BBS	14 (1918)	653
		0.56-2.3 μ	L	Mol. rotation	Ingersoll	JOSA	6 (1922)	663
		-	G	Freq	Bellamy	JCS	- (1957)	4294
$CoCl_2.6H_2O$	Cobalt chloride hexahydrate	5-15 μ	S	Freq, I	Lippincott	SA	16 (1960)	58
CoF_2	Cobalt fluoride	-	G	Freq	Bellamy	JCS	- (1957)	4294
CoF_4	Cobalt (II)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
CoF_4	Cobalt (III)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
CoF_4K_2	Cobalt (II)-fluoride complex (potassium salt)	300-1500	S	Spec	Lecomte	CPR	249 (1959)	1991
$CoIN_2O_2$	Cobalt (I)-Iodide, nitric oxide complex	1700-2050	S	Struct	Lewis	JINC	7 (1958)	32
CoN_2O_2	Cobalt hyponitrite	400-4000	S	Freq	LeFevre	AJC	10 (1957)	361

CoN_2O_6	Cobalt nitrate	0.8-1.25 μ	Sol	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		2-15 μ	S	Spec	Addison	JCS	- (1960)	613
$CoN_2O_6 \cdot 6H_2O$	Cobalt nitrate hexahydrate	2-16 μ	S	Spec, Freq	Miller	AC	24 (1952)	1253
		700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
		300-880	S	Spec	Miller	SA	16 (1960)	135
$CoN_2O_8S_4K_2$	Cobalt (II)-nitric oxide, thiosulfate complex (potassium salt)	2050-1700	S	Freq	Lewis	JINC	7 (1958)	32
CoN_6O_{12}	Cobalt (II)-nitrite complex ion	-	S	Spec, Freq, Assign, Struct	Nakamoto	JACS	80 (1958)	4817
$CoN_6O_{12}K_3$	Cobalt (III)-nitrate complex (potassium salt)	2-15 μ	S	Spec, Freq	Hill	JCP	24 (1956)	1219
$CoN_6O_{12}K_3$	Cobalt (III)-nitrite complex (potassium salt)	2-15 μ	S	Assign	Beattie	JCS	- (1956)	2849
$CoN_6O_{12}Cs_2Na$	Cobalt (III)-nitrate complex (monosodium dicesium salt)	2-15 μ	S	Spec, Freq	Hill	JCP	24 (1956)	1219
$CoN_6O_{12}Cs_3$	Cobalt (III)-nitrate complex (cesium salt)	-	-	Struct	Puget	CPR	250 (1960)	4141
$CoN_6O_{12}K_2Na$	Cobalt (III)-nitrate complex (dipotassium sodium salt)	-	-	Struct	Puget	CPR	250 (1960)	4141
$CoN_6O_{12}NaRb_2$	Cobalt (III)-nitrate complex (sodium, dirubidium salt)	2-15 μ	S	Spec, Freq	Hill	JCP	24 (1956)	1219

$CoN_6O_{12}Na_3$	Cobalt (III)-nitrite complex (sodium salt)	2-16 μ	S	Spec	Miller	AC	24	(1952)	1253
		2-15 μ	S	Spec, Freq	Faust	JACS	76	(1954)	5346
		2-15 μ	S	Spec, Freq	Hill	JCP	24	(1956)	1219
		600-2200	S	Struct	Griffith	JINC	7	(1958)	38
		300-880	S	Spec	Miller	SA	16	(1960)	135
CoO_4S	Cobalt sulphate	0.8-1.25 μ	Sol	Magnetic rotation	Ingersoll	JOSA	6	(1922)	663
		-	-	Interpretation of spec	Duval	CPR	227	(1948)	1153
		1-15 μ	Sol	Spec	Lagerqvist	AF	12	(1957)	491
$CoO_4S.7H_2O$	Cobalt (II)-sulphate hepta-hydrate	2-16 μ	S	Spec	Meloche	JINC	6	(1958)	104
		300-880	S	Spec	Miller	SA	16	(1960)	135
$CoO_4Se.6H_2O$	Cobalt selenate hexahydrate	220-3500	S	Spec, Struct	Duval	ZE	64	(1960)	582
CoO_4Fe_2	Cobalt ferrite	10-500	-	Reflection and transmission	Mitsuichi	JPSJ	13	(1958)	1236
$Co_2C_2H_{24}N_8O_{10}S.3H_2O$	Cobalt (III)-ammonia, carbonate complex sulfate trihydrate	700-4000	S	Freq assign	Gatehouse	JCS	-	(1958)	3137
$Co_2C_3H_{18}N_6O_9$	Hexammincobalt (III) carbonato cobaltate-(III)	700-4000	S	Freq, Assign	Gatehouse	JCS	-	(1958)	3137
$Co_2C_8O_8$	Dicobalt octacarbonyl	1859-2066	Sol	I	Sternberg	JACS	75	(1953)	2717
		2.5-15 μ	Sol	Spec, Struct	Coble	JACS	76	(1954)	3373
		-	-	Freq	Sternberg	JACS	76	(1954)	1457
		2-24 μ	Sol	Spec, I, Assign	Friedel	JACS	77	(1955)	3951
		1800-2200	Sol	Spec, Config.	Bor	SA	15	(1959)	747
		1800-2200	Sol	Spec, Struct	Cotton	JCS	-	(1960)	1882
$Co_2C_8O_8 \cdot AlBr_3$	Cobalt (0)-octa-carbonyl aluminium bromide	1800-2200.	S	Spec	Cotton	JCS	-	(1960)	1882
$Co_2C_{10}N_{10}K_6$	Cobalt (II)-cyanide complex (potassium salt)	2000-2150	S	Struct	Griffith	JINC	7	(1958)	295

$Co_2C_{12}H_{36}Cl_4O_6S_6$	Cobalt (II)-dimethyl sulfoxide, chloride complex	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534
$Co_2C_{12}D_{36}Cl_4O_6S_6$	Cobalt (II)-dimethyl sulfoxide chloride complex-d_{36}	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534
$Co_2C_{36}H_{30}I_4N_{12}\cdot 2H_2O$	Cobalt (II)-pyridinaldazine complex iodide dihydrate	1400-1700	S	Freq, Struct	Stratton	JACS	82 (1960)	4834
$Co_2H_{26}Cl_4N_9O_2$	Cobalt (III)-ammonia, amine, peroxide complex perchlorate	800-1450	S	Binding	Gatehouse	JINC	8 (1958)	79
$Co_2H_{26}Cl_4N_9O_2\cdot 4H_2O$	Tetraammine cobalt (III)-μ-peroxo-μ-amidotetraminine cobalt (III) chloride tetrahydrate	800-1500	S	Freq, Struct	Chatt	JCS	- (1959)	4073
$Co_2H_{26}Cl_4N_{10}O_2\cdot H_2O$	Tetrammine cobalt (III)-μ-nitro-μ-amido tetrammine cobalt (III) chloride hydrate	800-1500	S	Freq, Struct	Chatt	JCS	- (1959)	4073
$Co_2H_{26}N_9O_4S$	Cobalt-ammonia, amine, sulphate complex (bridge complex)	400-5000	S	Spec	Nakamoto	JACS	79 (1957)	490
$Co_2H_{30}Cl_4N_{12}O_2$	Cobalt (III)-ammonia, nitric oxide complex chloride	600-2200	S	Struct	Griffith	JINC	7 (1958)	38
$Co_2H_{30}N_{16}O_{16}$	Cobalt (III)-ammonia, nitrio	600-2200	S	Struct	Griffith	JINC	7 (1958)	38

$Co_2H_{30}N_{16}O_{16}$	Cobalt (III)-ammonia, nitric oxide complex nitrate	600-2200	S	Struct	Griffith	JINC	7 (1958)	38
$Co_2H_{36}N_{12}O_{12}S_3 \cdot 5H_2O$	Cobalt (III)-ammonia complex sulfate pentahydrate	400-5000	S	Spec	Nakamoto	JACS	79 (1957)	490
$Co_2B_2O_5$	Cobalt pyroborate	2-15 μ	S	Freq, Struct	KroghMbe	ARK	12 (1958)	475
$Co_3O_6P_2S_2$	Tricobalt bis-phosphoromonothioate	897-3250	S	I, Freq	Corbridge	JCS	- (1954)	4555
$Co_3O_8P_2$	Cobaltic orthophosphate	650-290	S	Assign	Duval	CPR	239 (1954)	249
$Co_3O_8P_2 \cdot 8H_2O$	Cobalt (II)-phosphate octahydrate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$Co_4C_{12}O_2$	Tetracobalt dodecacarbonyl	2-24 μ	Sol	Spec, I, Assign, Struct	Friedel	JACS	77 (1955)	3951
$Co_4C_{20}H_{28}O_8$	Cobalt (II)-acetyl acetone complex (tetramer)	1700-280	-	Band study	Nakamoto	N	183 (1959)	459
$Co_4C_{40}H_{36}O_8$	Cobalt (II)-benzoyl acetone complex (tetramer)	1700-280	-	Band study	Nakamoto	N	183 (1959)	459

Cr COMPOUNDS

$CrCH_6NO_8Se_2$	Methylammonium selenate alum	-	S	Freq, Assign, Spec	Krans	JCP	9 (1941)	133

$CrCH_{15}N_8O_6S$	Chromium (III)-ammonia, isothiocyanate, complex nitrate	1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295
$CrC_4H_4O_{10}K.3H_2O$	Chromium (III)-oxalate, water (potassium salt) trihydrate	2-35 μ	S	Assign	Schmelz	SA	9 (1957)	51
$CrC_4H_4O_{10}K.3H_2O$	trans-chromium (III)-oxalate, water complex (potassium salt) trihydrate	800-1100	S	Freq, H bond	Fujita	JACS	78 (1956)	3963
$CrC_4H_4O_{10}Na.5H_2O$	Chromium (III)-oxalate, water complex (sodium salt) pentahydrate	315-3430	S	Assign	Schmelz	SA	9 (1957)	51
$CrC_4H_6N_6S_4Ba$	Chromium (II)-ammonia, isothiocyanate complex (barium salt)	1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295
$CrC_4H_6N_6S_4Hg$	Chromium (II)-ammonia, isothiocyanate complex (mercury salt)	1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295
$CrC_4H_6O_4$	Chromium (II)-acetate	600-3000	S	Spec, Assign	Costa	GCI	87 (1957)	885
$CrC_4H_{10}N_7S_4$	Chromium (III)-ammonia, isothiocyanate complex (ammonium salt)	1900-2100 -	S S	Freq Freq, Assign	Fujita Mitchell	JACS JCS	78 (1956) - (1960)	3295 1912
$CrC_5H_5BrN_2O_2$	Chromium bromide, cyclopentadienyl, nitric oxide complex	1700-2050	Sol	Freq	Lewis	JINC	7 (1958)	32

$CrC_5H_5ClN_2O_2$	Chromium chloride cyclopentadienyl, nitric oxide complex	5.6-6.8 μ 1700-2050	Sol Sol	Freq Freq	Piper Lewis	JINC JINC	2 (1956) 7 (1958)	38 32
$CrC_5IN_6OK_3 \cdot H_2O$	Chromium (III)-cyanide, iodide, nitric oxide complex (potassium salt) hydrate	800-3500	S	Freq, Assign, Struct	Griffith	JCS	- (1959)	872
$CrC_6H_5N_3O_2S$	Chromium cyclopentadienyl, nitric oxide, thicyanate complex	5.6-6.8 μ 1700-2050	Sol Sol	Freq Freq	Piper Lewis	JINC JINC	2 (1956) 7 (1958)	38 32
$CrC_6H_7ClN_2O_2$	Chromium-chloromethyl cyclopentadienyl, nitric oxide complex	5.6-6.8 μ 1700-2050	Sol Sol	Freq Freq	Piper Lewis	JINC JINC	2 (1956) 7 (1958)	38 32
$CrC_6H_8N_2O_2$	Chromium-cyclopentadienyl, methyl, nitric oxide complex	450-4000 1700-2050	Sol Sol	Spec, Freq Freq	Piper Lewis	JINC JINC	3 (1956) 7 (1958)	104 32
$CrC_6H_{16}ClN_6S_2 \cdot H_2O$	Chromium (III)-ethylenediamine, isothiocyanate complex chloride, monohydrate	-	S	Freq, Assign	Mitchell	JCS	- (1960)	1912
$CrC_6H_{16}ClN_6S_4 \cdot H_2O$	trans-chromium (III)-ethylenediamine, isothiocyanate complex chloride monohydrate	1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295

$CrC_6H_{24}Cl_3N_6$	Chromium (III)-ethylenediamine complex chloride	450-1750	S	Spec, Config.	Powell	JCS	- (1959)	791
CrC_6N_6	Chromium (III)-hexacyanide ion	-	-	Freq	Coglioti	AAN	22 (1957)	266
		-	-	Spec, NCA	Coglioti	AAN	23 (1957)	355
		-	-	Freq	Coglioti	AAN	25 (1958)	260
		450-2200	-	Freq	Coglioti	JINC	8 (1958)	87
		250-2200	S	Spec, Assign	Hidalgo	ARS	56A (1960)	9
$CrC_6N_6K_3$	Chromium (III)-cyanide complex (potassium salt)	250-2200	-	Assign	Hidalgo	CPR	249 (1959)	233
$CrC_6N_6K_3 \cdot 4H_2O$	Chromium (III)-cyanide complex (potassium salt) tetrahydrate	-	-	Quant. Mech.	VanVleck	JCP	7 (1939)	72
CrC_6O_6	Chromium hexacarbonyl	2-40 μ	G	Spec, Assign, Thermo.	Hawkins	JCP	23 (1955)	2422
		4.5-15.5 μ	G	Spec, Struct	Shufler	JACS	78 (1956)	2678
		-	-	NCA	Murata	JCP	27 (1957)	605
		-	-	Assign, Thermo., NCA	Kawai	BCSJ	33 (1960)	1008
$CrC_6O_{12}K_3 \cdot 3H_2O$	Chromium (III)-oxalate complex (potassium salt) trihydrate	900-1100	S	H bond	Fujita	JACS	78 (1956)	3963
		409-3450	S	Assign	Schmelz	SA	9 (1957)	51
$CrC_7H_{10}N_2O_2$	Chromium-cyclopentadienyl ethyl, nitric oxide complex	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
		1700-2050	Sol	Freq	Lewis	JINC	7 (1958)	32
$CrC_7H_{13}N_3O_3$	Diethylenetriamine chromium tricarbonyl	1700-2100	S	Freq	Abel	JCS	- (1959)	2323
$CrC_8H_{24}Cl_3O_4S_4$	Chromium (III)-dimethyl sulfoxide complex chloride	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534

$CrC_9H_6O_{12}K_3 \cdot 3H_2O$	Chromium (III)-malonic acid complex (potassium salt) trihydrate	2-15 μ	S	Freq, Assign	Schmelz	JACS	81 (1959)	287
$CrC_9H_8O_3$	Chromium-carbonmonoxide, cyclopentadienyl, methyl complex	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
$CrC_9H_{20}N_7OS_4$	Chromium (III)-ammonia, isothiocyanate complex (cholinesalt)	1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295
		-	S	Freq	Mitchell	JCS	- (1960)	1912
$CrC_{10}H_{10}N_2O_2$	Chromium-cyclopentadienyl, nitric oxide complex	1450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
		1700-2050	Sol	Freq	Lewis	JINC	7 (1958)	32
$CrC_{10}H_{12}N_2O_8Na.2H_2O$	Chromium (III)-ethylenediamine tetracetic acid (sodium salt) dihydrate	800-1800	S	Spec, Bonding	Donald	JACS	82 (1960)	4191
$CrC_{11}H_{10}N_2O_2$	Chromium-cyclopentadienyl, nitric oxide, phenyl complex	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
		1700-2050	Sol	Freq	Lewis	JINC	7 (1958)	32
$CrC_{12}H_{12}$	Dibenzene chromium	350-3500	S	Spec, Freq, Assign	Snyder	SA	15 (1959)	807
$CrC_{12}H_{12}I$	Dibenzene chromium (I) iodide	700-1100	S	Freq	Yamada	BCSJ	30 (1957)	647
$CrC_{12}H_{36}Cl_3S_6$	Chromium (III)-dimethyl sulfoxide complex perchlorate	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534
$CrC_{12}D_{12}$	Dibenzene chromium-D_{12}	350-3500	S	Spec, Freq, Assign	Snyder	SA	15 (1959)	807

$CrC_{15}H_{21}O$	Chromium acetyl-acetone complex	625-5000	S	Spec, Struct	West	JINC	5 (1958)	295
$CrC_{27}H_{18}N_3O_3$	Chromium (III)-8-hydroxy-quinolate	-	S	Spec	Charles	AC	25 (1953)	530
$CrC_{30}H_{25}Br$	Pentaphenyl chromium (VI) bromide	-	-	impurity	Cotton	CR	55 (1955)	551
$CrC_{30}H_{26}O$	Pentaphenyl chromium (VI) hydroxide	-	-	Group study	Cotton	CR	55 (1955)	551
CrH	Chromium hydride	-	-	Config.	Kleman	CJP	37 (1959)	537
$CrH_4NO_8S_2$	Ammonium sulphate alum	-	S	Spec, Freq, Assign	Kraus	JCP	9 (1951)	133
$CrH_4NO_8Se_2$	Ammonium selenate alum	-	S	Spec, Freq, Assign	Kraus	JCP	9 (1941)	133
$CrH_4NO_9S_2$	Hydroxylammonium sulfate alum	-	S	Freq assign, Spec	Kraus	JCP	9 (1941)	133
$CrH_8N_2O_4$	Ammonium chromate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
CrH_9N_{12}	Chromium (III)-ammonia azide complex	1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295
$CrH_{12}F_6N_3$	Chromium-(III)-fluoride complex (ammonium salt)	-	S	Freq	Cox	JCS	- (1954)	1798
$CrH_{15}Cl_2N_6O_2$	Chromium (III)-ammonia, nitrite complex chloride	650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467

$CrH_{15}Cl_3N_5$	Chromium (III)-ammonia, chloride complex chloride	650-1650	-	Freq	Svatos	JACS	79 (1957)	3313
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467
$CrH_{15}I_2N_8$	Chromium (III)-ammonia, azide complex iodide	1900-2100	S	Freq	Fujita	JACS	78 (1956)	3295
$CrH_{15}N_6O_2$	Chromium (III)-ammonia, nitrite complex cation	400-5000	S	Spec, Freq, Struct	Nakamoto	JACS	80 (1958)	4817
$CrH_{17}Cl_3N_5O_{13}$	Chromium (III)-ammonia, water complex perchlorate	900-1100	S	H bond	Fujita	JACS	78 (1956)	3963
$CrH_{18}Cl_3N_6$	Chromium (III)-ammonia complex chloride	2-15 μ	S	FC, Freq assign	Kobayashi	JCP	23 (1955)	1354
		650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
$CrH_{18}Cl_3N_6O_{12}$	Chromium (III)-ammonia complex perchlorate	500-3500	S	Spec, Freq, Assign	Fujita	JACS	78 (1956)	3295
$CrClO_3$	Chromium chlorotrioxide	-	-	Spec	Dupuis	CPR	246 (1958)	3332
$CrClO_3K$	Potassium chlorochromate	1000	Sol	Freq	Barraclough	JCS	- (1959)	3552
$CrCl_2O_2$	Chromylchloride	250-5000	G	Assign	Hobbs	JCP	28 (1958)	1220
		1000	G	Freq	Barraclough	JCS	- (1959)	3552
		120-3000	Sol	Assign, Thermo.	Miller	SA	15 (1959)	709
$CrCl_3$	Chromium chloride	1-15 μ	Sol	Spec	Lagerqvist	AF	12 (1957)	491
$CrCl_5OK_2$	Potassium chromium oxypentachloride	1000	Sol	Freq	Barrachlough	JCS	- (1959)	3552
$CrFO_3$	Chromium fluorotrioxide	-	-	Spec	Dupuis	CPR	246 (1958)	3332

CrF_2O_2	Chromyl fluoride	250-5000	G	Spec, Assign	Hobbs	JCP	28 (1958)	1220
		1000	G	Freq	Barraclough	JCS	- (1959)	3552
CrF_4	Chromium (II)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
CrF_4	Chromium (IV)-fluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
CrN_3O_9	Chromium (III)-nitrate	0.8-1.2 μ	Sol	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$CrN_3O_9 \cdot 9H_2O$	Chromium nitrate monohydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
CrO_3	Chromium trioxide	-	-	Spec	Dupuis	CPR	246 (1958)	3332
		1000	S	Freq	Barraclough	JCS	- (1959)	3552
CrO_4^{-2}	Chromate ion	-	-	Freq	Taylor	TFS	25 (1929)	314
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2365
		858	-	Freq	Hahn	JCP	24 (1956)	921
		-	-	Spec	Dupuis	CPR	246 (1958)	3332
		-	-	FC	Pistorius	JCP	28 (1958)	514
$CrO_4P.H_2O$	Chromium phosphate monohydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$CrO_4P.6H_2O$	Chromium ortho-phosphate hexa-hydrate	2-16 μ	S	Band freq, I, Assign	Corbridge	JCS	- (1954)	493
CrO_4Ba	Barium chromate	300-880	S	Spec	Miller	SA	16 (1960)	135
CrO_4K_2	Potassium chromate	0.8-1.25 μ	Sol	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
		3-14.5 μ	S	Spec, Assign	Taylor	TFS	25 (1929)	856
		8.8-13.0 μ	S	Spec	Sanderson	JOSA	30 (1940)	566
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		1000	Sol	Freq	Barraclough	JCS	- (1959)	3552
		300-880	S	Spec	Miller	SA	16 (1960)	135
$CrO_4Mg.7H_2O$	Magnesium chromate hepta hydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
CrO_4Na_2	Sodium chromate	8.9 μ	-	Spec	Taylor	TFS	25 (1929)	856

CrO_4Na_2	Sodium chromate	8.9 μ	-	Spec	Taylor	TFS	25 (1929)	856
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$CrO_4Na_2 \cdot 10H_2O$	Sodium chromate decahydrate	5-15 μ	S	Freq, I	Lippincott	SA	16 (1960)	58
CrO_4Pb	Lead chromate	2-16 μ	S	Spec, Qual. Anal	Miller	AC	24 (1952)	1253
		290-650	S	Assign	Duval	CPR	239 (1954)	249
		300-880	S	Spec	Miller	SA	16 (1960)	135
$CrO_4Zn \cdot 7H_2O$	Zinc chromate heptahydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
CrO_8S_2K	Potassium sulfate alum	0.6-1.5 μ	Sol	Spec	Coblentz	BBS	14 (1918)	653
		-	S	Freq, Assign, Spec	Krans	JCP	9 (1941)	133
$CrO_8S_2K \cdot 12H_2O$	Potassium chromium sulfate dodecahydrate	800-900	S	Freq, H bond	Fujita	JACS	78 (1956)	3963
		-	-	Struct	Harmelin	CPR	247 (1958)	1123
CrO_8Se_2K	Potassium selenate alum	-	S	Freq, Assign, Spec	Kraus	JCP	9 (1941)	133
CrO_8Se_2Rb	Rubidium selenate alum	-	S	Freq, Assign, Spec	Kraus	JCP	9 (1941)	133
$Cr_2H_8N_2O_7$	Ammonium dichromate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		400-1200	S	Freq, Assign, FC, Struct	Stammreich	SA	13 (1958)	192
		300-880	S	Spec	Miller	SA	16 (1960)	135
Cr_2O	Dichromium oxide	-	-	Spec	Dupuis	CPR	246 (1958)	3332
Cr_2O_3	Chromium oxide	1-8 μ	S	Emission	Coblentz	BBS	5 (1908)	159
$Cr_2O_7Ca \cdot 3H_2O$	Calcium dichromate trihydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
$Cr_2O_7Cu \cdot 2H_2O$	Copper dichromate dihydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135

$Cr_2O_7K_2$	Potassium dichromate	0.8-1.25 μ	Sol	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		400-1200	S	Freq, Assign, Struct, FC	Stammreich	SA	13 (1958)	192
		1000	Sol	Freq	Barraclough	JCS	- (1959)	3552
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Cr_2O_7Na_2.2H_2O$	Sodium dichromate dihydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		400-1200	S	Freq, Assign, Struct, FC	Stammreich	SA	13 (1958)	192
		5-15 μ	S	I, Freq	Lippincott	SA	16 (1960)	58
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Cr_2O_{12}S_3.18H_2O$	Chromium sulphate .18 hydrate	0.6-1.5 μ	Sol	Spec	Coblentz	BBS	14 (1918)	653
		0.56-2.3 μ	L	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
$Cr_2O_{12}S_3.O_4SK_2.24H_2O$	Chrom alum	300-880	S	Spec	Miller	SA	16 (1960)	135
$Cr_3O_{12}Al_2$	Aluminium chromate	300-880	S	Spec	Miller	SA	16 (1960)	135

Cs COMPOUNDS

CsCNO	Cesium isocyanate	400-4000	S	Spec	Waddington	JCS	- (1959)	2499
$CsC_5H_7O_2$	Cesium acetyl acetonate	625-5000	S	Spec, Struct	West	JINC	5 (1958)	295
CsH	Cesium hydride	-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
		-	-	FC	Baughan	TFS	53 (1957)	1046
CsHO	Cesium hydroxide	1-3 μ	Sol	Spec	Grantham	PR	18 (1921)	339
		6-33 μ	G	Absorption	Spinar	SA	12 (1958)	244
CsBr	Cesium bromide	-	-	Christianson filter	Barnes	PR	49 (1936)	732
		-	-	Freq	Huggins	JCP	5 (1937)	143

		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Polarizability theory	Szigeti	TFS	45 (1949)	155
		-	S	Freq	Roberts	PR	77 (1950)	258
		-	-	Freq	Szigeti	PRS	204 (1950)	51
		-	S	Transmission	Plyler	JOSA	41 (1951)	209
		-	-	Freq	Rittner	JCP	19 (1951)	1080
		0-40 μ	S	Mol. properties	Ballard	JOSA	42 (1952)	65
		15-38 μ	S	Mol. properties	Plyler	JRNB	49 (1952)	61
		0.365-1.0139 μ	S	Ref. Index	Rodney	JOSA	42 (1952)	431
		0.349-39.22 μ	S	Ref. Index	Rodney	JOSA	42 (1952)	875
		21-52 μ	-	Spec	Acquista	JOSA	43 (1953)	977
		-	S	Calibration data	Downie	JOSA	43 (1953)	941
		-	G	Microwave	Honig	PR	92 (1953)	901
		0.365-39.22 μ	S	Ref. Index	Rodney	JRNB	51 (1953)	123
		-	S	Crystal study	Smakula	JOSA	43 (1953)	822
		-	-	Pressed disk	Ford	JSI	31 (1954)	338
		40-230 μ	S	Spec	Sinton	JOSA	44 (1954)	1954
		24-54 μ	S	Iso.	Plyler	AC	27 (1955)	161
		-	S	Reaction with thiourea	Stewart	AC	27 (1955)	318
		-	-	Spec	Lord	JOSA	47 (1957)	689
		-	-	Freq	Rice	JCP	27 (1957)	573
		450-3800	Sol	Freq	Frevel	SA	15 (1959)	557
		17-55 μ	S	Transmission	Plyler	JRNB	64C (1960)	55
$CsBr_3$	Cesium tribromide	8-15 μ	S	Spec	Bonner	JACS	74 (1952)	5078
CsCl	Cesium chloride	-	S	Filter	Barnes	PR	49 (1936)	732
		-	-	Theory	Huggins	JCP	5 (1937)	143
		-	-	FC, Bond dist.	Gordy	JCP	14 (1946)	305
		-	-	Polarization	Szigeti	TFS	45 (1949)	155
		-	S	Theory	Roberts	PR	77 (1950)	258
		-	-	Freq	Szigeti	PRS	204 (1950)	51
		-	-	Freq	Rittner	JCP	19 (1951)	1030
		-	G	Microwave	Honig	PR	92 (1953)	901
		-	-	Disk	Ford	JSI	31 (1954)	338
		-	G	Freq, Spec, Mol. Const.	Rice	JCP	27 (1957)	573
CsF	Cesium fluoride	-	-	Freq	Huggins	JCP	5 (1937)	143
		-	S	Freq	Roberts	PR	77 (1950)	258
		-	-	Freq	Rittner	JCP	19 (1951)	1030
		-	G	Microwave	Honig	PR	92 (1953)	901

$CsFO_3S$	Cesium fluoro-sulfate	2400-550	S	Spec, Assign	Sharp	JCS	- (1957)	3761
CsF_3	Cesium trifluoride	-	S	Spec	Freed	JCP	8 (1940)	840
CsI	Cesium iodide	-	-	Freq	Huggins	JCP	5 (1937)	143
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	S	Freq	Roberts	PR	77 (1950)	258
		-	-	Freq	Rittner	JCP	19 (1951)	1030
		0.2-38 μ	S	Spec	Plyler	JOSA	42 (1952)	432
		25-52 μ	S	Prism performance	Acquista	JOSA	43 (1953)	333
		21-52 μ	-	Spec	Acquista	JOSA	43 (1953)	977
		-	S	Physical properties	Ballard	JOSA	43 (1953)	975
		-	S	Stabilizes III crystal	Smakula	JOSA	43 (1953)	822
		-	S	Pressed disk	Ford	JSI	31 (1954)	338
		-	-	IR measurements	Plyler	JPC	15 (1954)	519
		25-55 μ	S	Calibration	Mills	JOSA	45 (1955)	785
		24-54 μ	S	Iso.	Plyler	AC	27 (1955)	161
		0.29-50 μ	S	Optical properties, Freq	Rodney	JOSA	45 (1955)	410
		0.29-53 μ	-	Refraction index, Dispersion	Rodney	JOSA	45 (1955)	987
		-	-	Freq	Rice	JCP	27 (1957)	573
		17-55 μ	S	Transmission	Plyler	JRNB	64C (1960)	55
$CsIO_3$	Cesium iodate	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429
$CsIO_4$	Cesium periodate	-	-	Freq, Struct	Siebert	ZAUA	303 (1960)	162
$CsNO_3$	Cesium nitrate	-	S	Growing oriented crystal sections	West	JOSA	35 (1945)	26
		450-3800	Sol	Freq	Frevel	SA	13 (1957)	557
		2-15 μ	S	Assign, Temp. effect	Greenberg	JCP	33 (1960)	900
CsN_3	Cesium azide	635-3100	S	Freq, FC	Gray	TFS	53 (1957)	901
CsO_8S_2Cr	Cesium sulfate alum	-	S	Freq assign, Spec	Kraus	JCP	9 (1941)	133
CsO_8Se_2Cr	Cesium selenate alum	-	S	Freq assign, Spec	Kraus	JCP	9 (1941)	133
Cs_2	Cesium	0.85-1.01 μ	S	Spec	Meggers	JRNB	10 (1933)	669
		-	-	Freq	Rosen	PR	43 (1933)	5

		-	G	Freq	Loomis	PR	46 (1934)	292
		-	-	Freq	Clark	TFS	33 (1937)	1394
		-	-	FC	Gordy	JCP	14 (1946)	315
		-	-	Potential function	Lippincott	JCP	23 (1955)	1131
		-	-	FC	Baughan	TFS	53 (1957)	1046
$Cs_2C_2O_2$	Cesium carbonyl	600-4000	S	Spec, Struct	Seton	CPR	238 (1954)	2472
$Cs_2B_4O_7$	Cesium tetraborate	2-15 μ	S	Freq, Struct	Krogh-Moe	ARK	12 (1958)	475

Cu COMPOUNDS

$CuCH_3$	Copper methyl	600-3000	S	Spec, Freq, FC	Costs	GCI	87 (1957)	1273
CuCN	Copper cyanide	2020-2160	Sol	Spec	Penneman	JCP	24 (1956)	293
		300-800	S	Spec	Miller	SA	16 (1960)	135
CuC_2H_5BrNS	Thioacetamide cuprous bromide	650-3100	S	Freq	Rosenthal	JACS	82 (1960)	4169
CuC_2H_5ClNS	Thioacetamide cuprous chloride	650-3100	S	Freq	Rosenthal	JACS	82 (1960)	4169
$CuC_2H_8N_2O_4S.$ $3H_2O$	Copper (II)-ethylenediamine complex sulfate trihydrate	700-850	S	H bond	Fujita	JACS	78 (1956)	3963
$CuC_2H_{12}N_6S_2$	Copper (II)-ammonia, isothiocyanate complex	-	S	Freq	Mitchell	JCS	- (1960)	1912
CuC_2N_2	Copper dicyanide ion	2020-2160	Sol	Spec	Penneman	JCP	24 (1956)	293
CuC_2O_4	Copper (II)-oxalate	700-1700	S	Spec, Freq	Kuroda	JPC	64 (1960)	759
$CuC_2O_4 \cdot \frac{1}{2}H_2O$	Copper (II)-oxalate hemihydrate	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478

$CuC_2O_6Na_2 \cdot 3H_2O$	Copper carbonate complex (sodium salt) trihydrate	700–4000	S	Freq assign	Gatehouse	JCS	- (1958)	3137
$CuC_3H_2O_4$	Copper (II)-malonate	700–1700	S	Spec, Freq	Kuroda	JPC	64 (1960)	759
CuC_3N_3	Copper tricyanide ion	2020–2160	Sol	Spec	Penneman	JCP	24 (1956)	293
$CuC_4H_4O_4$	Copper (II)-succinate	700–1700	S	Spec, Freq	Kuroda	JPC	64 (1960)	759
$CuC_4H_4O_{10}Na_2$	Copper (II)-oxalate, water complex (sodium salt)	346–3500	S	Assign	Schmelz	SA	9 (1957)	51
$CuC_4H_6D_2N_2O_4 \cdot H_2O$	Copper (II)-C-d_2-glycine complex monohydrate	-	-	Assign	Nakamura	NKZ	80 (1959)	113
$CuC_4H_6O_4$	Cupric acetate	600–3000	S	Spec, Assign	Costa	GCI	87 (1957)	885
$CuC_4H_8Cl_2O_2$	Copper (II)-dioxane complex chloride	500–1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
$CuC_4H_8Cl_2S$	Copper (II)-dithiane complex chloride	500–1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
$CuC_4H_8N_2O_4 \cdot H_2O$	Copper (II)-glycine complex monohydrate	2–15.5 μ	S	Spec, Group freq	Sen	JACS	77 (1955)	211
		900–1100	S	H bond	Fujita	JACS	78 (1956)	3963
		2–7 μ	S	Chelation const.	Rosenberg	ACS	10 (1956)	840
		2–15 μ	S	Assign	Saraceno	JACS	80 (1958)	5018
		-	-	Assign	Nakamura	NKZ	80 (1959)	113
$CuC_4H_8N_2O_4 \cdot H_2O$	cis-Copper glycinate monohydrate	-	-	Iso.	Tomita	BCSJ	34 (1960)	280
$CuC_4H_8N_2O_4 \cdot$	trans-Copper	-	-	Iso.	Tomita	BCSJ	34 (1960)	280

$CuC_4H_8N_2O_4 \cdot 2H_2O$	trans-Copper glycinate dihydrate	-	-	Iso.	Tomita	BCSJ	34 (1960)	280
$CuC_4H_{12}Br_2O_2S_2$	Copper (II)-dimethyl sulfoxide complex bromide	650-4000	S	Spec, Assign	Cotton	JPC	64 (1960)	1534
$CuC_4H_{12}Cl_2O_2S_2$	Copper (II)-dimethyl sulfoxide complex chloride	600-4000	S	Spec, Assign	Cotton	JPC	64 (1960)	1534
$CuC_4H_{16}Cl_4N_4Pt$	Bis-ethylene diamine copper (II)-tetrachloro-platinate (II) anion	400-1750	S	Spec, Config.	Powell	JCS	- (1959)	791
$CuC_4H_{16}N_4O_4S \cdot 2H_2O$	Copper (II)-ethylenediamine complex sulfate dihydrate	700-850	S	H bond	Fujita	JACS	78 (1956)	3963
CuC_4N_4	Copper (I) tetracyanide ion	2050-2200	Sol	Spec	Penneman	JCP	24 (1956)	293
		250-2200	S	Spec, Assign	Hidalgo	ARS	56A (1960)	9
$CuC_4N_4K_3$	Copper (I) cyanide complex (potassium salt)	-	Sol	Spec, Freq	Bonino	AAN	22 (1957)	402
		250-5000	S	Freq, Assign, FC	Jones	JCP	29 (1958)	463
		250-2200	S	Assign	Hidalgo	CPR	249 (1959)	233
		200-2200	S,Sol	Assign	Poulet	SA	15 (1959)	932
$CuC_5H_7O_2$	Acetylacetone copper chelate	-	Sol	Freq	Bellamy	JCS	- (1954)	4491
$CuC_6H_4BrCl_3N_2$	p-Bromobenzene diazonium chloride, cupric chloride double salt	-	-	Struct	Kazitsyna	IANS	- (1960)	1523

$CuC_6H_8O_{10}Na_2$	Copper (II)-malonic acid, water complex (sodium salt)	2-15 μ	S	Freq, Assign	Schmelz	JACS	81 (1959)	287
$CuC_6H_9O_3$	Ethyl acetoacetate copper chelate	-	Sol	Freq	Bellamy	JCS	- (1954)	4491
$CuC_6H_{10}O_2S_4$	Ethyl copper dixanthate	2.8-15 μ	S	Spec	Pearson	APS	12 (1958)	116
$CuC_6H_{12}N_2O_4$	Copper (II)-alanine complex (l & dl)	650-4000	S	Freq, Assign	Segnini	SA	16 (1960)	540
$CuC_6H_{12}N_2O_4 \cdot H_2O$	Copper (II)-alanine complex monohydrate	2-7 μ	S	Cheletion const.	Rosenberg	ACS	10 (1956)	840
$CuC_6H_{18}Br_2NO_4$	Copper (II)-ethyl alcohol, nitric oxide complex bromide	-	S	Struct	Griffith	JCS	- (1958)	3993
$CuC_6H_{18}Cl_2NO_4$	Copper (II)-ethyl alcohol, nitric oxide complex chloride	-	S	Struct	Griffith	JCS	- (1958)	3993
$CuC_7H_5O_2$	Salicylaldehyde copper chelate	-	S	Freq	Bellamy	JCS	- (1954)	4491
$CuC_7H_9O_2$	2-Formylcyclohexanone copper chelate	-	Sol	Group freq	Bellamy	JCS	- (1954)	4491
$CuC_8H_4F_3O_2S$	Thenoyl trifluoroacetone copper chelate	-	Sol	Freq	Bellamy	JCS	- (1954)	4491
$CuC_8H_{12}Cl_2N_4O_8$	Copper perchlorate tetracetonitrile	1000-2500	S	Spec	Hathaway	JCS	- (1960)	3705
$CuC_8H_{14}O_2$	Ethyl 2-oxocyclohexane	-	Sol	Freq	Bellamy	JCS	- (1954)	4491

$CuC_8H_{13}O_3$	Ethyl 2-oxocyclohexane carboxylate copper chelate	-	Sol	Freq	Bellamy	JCS	- (1954)	4491
$CuC_8H_{14}O_4$	Cupric isobutyrate	-	S	Struct	Yamada	BCSJ	31 (1958)	303
$CuC_8H_{14}O_4$	Cupric n-butyrate	-	S	Struct	Yamada	BCSJ	31 (1958)	303
$CuC_8H_{16}Cl_2O_2S_2$	Copper (II)-thioxane complex chloride	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
$CuC_8H_{18}N_4O_6 \cdot 3H_2O$	Glycylglycine complex trihydrate	-	S,Sol	Spec	Rosenberg	ACS	11 (1957)	1390
$CuC_8H_{20}ClN_4S_4$	Tetrakisthioacetamide cuprous chloride	650-3100	S	Freq	Rosenthal	JACS	82 (1960)	4169
$CuC_8H_{24}ClN_8S_4$	Copper (I)-methyl thiourea complex chloride	2-15 μ	S	Spec	Lane	JACS	81 (1959)	3824
$CuC_8H_{24}Cl_2O_{12}S_4$	Copper (II)-dimethyl sulfoxide complex perchlorate	650-4000	S	Spec, Assign	Cotton	JPC	64 (1960)	1534
$CuC_9H_{10}NO_6S$	Copper (II)-8-hydroxy-quinoline-5-sulfonic acid, water complex	-	S	Struct	Nortia	SK	32B (1959)	83
$CuC_9H_{14}NO_8S \cdot 2H_2O$	Copper (II)-8-hydroxy-quinoline-5-sulfonic acid water complex dihydrate	-	S	Struct	Nortia	SK	32B (1959)	83

$CuC_{10}H_2F_{12}O_4$	Copper (II)-sym-hexafluoro-acetylacetone complex	280-1700	-	Band study	Nakamoto	N	183 (1959)	459
$CuC_{10}H_8F_6O_4$	Copper (II)-1,1,1-tri-fluoroacetyl-acetone complex	1700-280	-	Band study	Nakamoto	N	183 (1959)	459
$CuC_{10}H_9O_2$	Benzoylacetone copper chelate	-	Sol	Freq	Bellamy	JCS	- (1954)	4491
		1780-280	-	Assign	Nakamoto	N	183 (1959)	459
$CuC_{10}H_{12}D_4N_2O_4$	Copper (II)-allylglycine complex-N-d_2	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$CuC_{10}H_{14}O_4$	Copper (II)-acetyl acetonate	600-5000	S	Spec, Struct	West	JINC	5 (1958)	295
		280-1700	-	Band study	Nakamoto	N	183 (1959)	459
$CuC_{10}H_{15}BrN_2O_4$	Copper (II)-γ-bromo allylglycine complex	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$CuC_{10}H_{15}ClN_2O_4$	Copper (II)-γ-chloroallyl glycine complex	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$CuC_{10}H_{16}N_2O_4$	Copper (II)-allylglycine complex	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$CuC_{10}H_{18}N_2O_2$	Copper (II)-4-amino-3-pentene-2-one complex	650-4000	L,Sol	Spec, Assign	Holtzclaw	JACS	80 (1958)	1100
$CuC_{10}H_{18}O_4$	Cupric isovale-rianate	-	S	Struct	Yamada	BCSJ	31 (1958)	303
$CuC_{10}H_{18}O_4$	Cupric-n-valerianate	-	S	Struct	Yamada	BCSJ	31 (1958)	303

$CuC_{10}H_{20}Cl_2O_{13}$ Copper perchlorate 1000-1700 S Spec Mathaway JCS (1960) 3705

$CuC_{10}H_{20}Cl_2O_{13}$	Copper perchlorate 2.5 ethyl acetate	1000-1700	S	Spec	Hathaway	JCS	-	(1960)	3705
$CuC_{12}H_8Cl_4N_6O_4$	p-Nitrobenzene diazonium chloride, cupric chloride double salt	-	-	Struct	Kazitsyna	IANS	-	(1960)	1523
$CuC_{12}H_8Cl_6N_4$	p-Chlorobenzene diazonium chloride, cupric chloride double salt	-	-	Struct	Kazitsyna	IANS	-	(1960)	1523
$CuC_{12}H_8N_2O_4$	Copper (II)-2-pyridine carboxylic acid chelate	-	-	Struct	Lumme	SK	31B	(1958)	294
$CuC_{12}H_{10}N_4O_2$	Pyridine-copper cyanate complex	2.5-16 μ	S	Spec	Levi	AC	28	(1956)	1591
$CuC_{12}H_{10}N_4S_2$	Copper (II)-isothiocyanate pyridine complex	-	S	Freq, Assign	Mitchell	JCS	-	(1960)	1912
$CuC_{12}H_{16}D_4N_2O_4$	Copper (II)-γ-methyl allyl-glycine complex-N-D_2	2-15 μ	S	Assign	Moreno	SA	16	(1960)	1368
$CuC_{12}H_{18}N_4O_4$	Copper (II)-cyclohexane 1:2-dione dioxime complex	800-3200	S	Spec, Assign, H bond	Blinc	JCS	-	(1958)	4536
$CuC_{12}H_{20}N_2O_4$	Copper (II)-γ-methyl allyl-glycine complex	2-15 μ	S	Assign	Moreno	SA	16	(1960)	1368

$CuC_{12}H_{22}N_2O_2$	Copper (II)-4-methyl-amino-3-pentene-2-one complex	600-4000	L,S	Spec, Assign	Holtzclaw	JACS	80 (1958)	1100
$CuC_{12}H_{22}O_4$	Cupric-n-capronate	-	S	Struct	Yamada	BCSJ	31 (1958)	303
$CuC_{12}H_{24}N_2O_4$	Copper (II)-leucine complex	2-7 μ	S	Chelation effect	Rosenberg	ACS	10 (1956)	840
$CuC_{12}H_{24}N_9OS_4$	Copper (I)-ethylene thiocarbamide complex nitrate	2-15 μ	S	Spec, Assign	Lane	JCP	22 (1954)	1855
$CuC_{13}H_{13}O_3$	Ethyl 1-oxotetralin-2-carboxylate copper chelate	-	Sol	Freq	Bellamy	JCS	- (1954)	4491
$CuC_{14}H_{10}O_4$	Copper tropolonate	- -	S Sol	Freq Freq	Bryant Panson	JOC CR	19 (1954) 55 (1955)	1889 9
$CuC_{14}H_4Cl_2N_4 \cdot xH_2O$	α-Copper (II)-bis-(pyridinal)-ethylene-diamine complex chloride polyhydrate	600-4000	S	Assign	Bush	JACS	78 (1956)	1137
$CuC_{14}H_{14}Cl_2N_4 \cdot 2H_2O$	β-Copper (II)-bis-(pyridinal) ethylene-diamine complex chloride dihydrate	600-4000	S	Assign	Bush	JACS	78 (1956)	1137
$CuC_{14}H_{14}Cl_4N_4$	p-Methyldiazonium chloride cupric chloride double salt	-	-	Struct	Kazitsyna	IANS	- (1960)	1523
$CuC_{14}H_{20}O_4$	Copper (II)-methacryl acetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
$CuC_{15}H_{11}O_2$	Dibenzoylmethane copper chelate	-	Sol	Freq	Bellamy	JCS	- (1954)	4491

$CuC_{16}H_{28}O_4$	Copper-pivaloyl-acetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
$CuC_{16}H_{30}O_4$	Cupric-n-caprylate	-	S	Struct	Yamada	BCSJ	31 (1958)	303
$CuC_{16}H_{36}O_8P_2$	Cupric-di-n-butyl phosphate	714-5000	S	Group study	Smith	JINC	9 (1959)	150
$CuC_{18}H_{10}Cl_4N_4O_4$	p-Propionoxy benzene diazonium chloride, cupric double salt	-	-	Struct	Kazitsyna	IANS	- (1960)	1523
$CuC_{18}H_{12}N_2O_2$	Copper (II)-8-hydroxy-quinolate	- 8-15 μ	S S	Spec Assign, Spec	Charles Charles	AC SA	25 (1953) 8 (1956)	530 1
$CuC_{20}H_{12}N_2O_4$	Copper (II)-8-quinoline carboxylic acid chelate	-	-	Struct	Lumme	SK	31 (1958)	294
$CuC_{20}H_{12}N_4$	Copper porphin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
$CuC_{20}H_{14}N_4$	Copper chlorin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
$CuC_{20}H_{16}N_2O_2$	2-Methyl-8-hydroxy-quinoline copper (II)-chelate	8-15 μ	S	Assign, Spec	Charles	SA	8 (1956)	1
$CuC_{20}H_{16}N_2O_2$	4-Methyl-8-hydroxy-quinoline copper (II)-chelate	8-15 μ	S	Assign, Spec	Charles	SA	8 (1956)	1
$CuC_{20}H_{18}O_4$	Copper-benzoylacetone complex	280-1700	-	Band study	Nakamura	N	183 (1959)	459
$CuC_{20}H_{20}N_2O_2$	Copper (II)-1-phenyl-3-amino-2-butene complex	650-4000	S,L	Spec, Assign	Holtzclaw	JACS	80 (1958)	1100

$CuC_{20}H_{22}O_4$	Copper γ -isopropyl tropolonate	-	S	Freq	Bryant	JOC	19 (1954)	1889
$CuC_{22}H_{26}N_2O_2$	Copper (II)-(4-anilino-3-pentene-2-one) complex	650-4000	L,S	Spec, Assign	Holtzclaw	JACS	80 (1958)	1100
$CuC_{24}H_{16}ClN_4O_4$	Copper-1:10-phenanthroline complex perchlorate	600-2000	S	Spec	Schilt	JINC	9 (1959)	211
$CuC_{24}H_{16}ClN_4O_8$	Copper (II)-1:10-phenanthroline complex perchlorate	600-2000	S	Spec	Schilt	JINC	9 (1959)	211
$CuC_{24}H_{20}N_4$	Copper meso-tetramethyl porphin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
$CuC_{24}H_{26}O_8$	Copper butylphthalate	0.4-2.2 μ	Sol	Optical properties	Pfund	JOSA	29 (1939)	56
$CuC_{26}H_{34}N_4O_4$	Cupric N -benzylidene-l-lysinate	-	S	Freq, I, Ident	Witkop	JACS	76 (1954)	5589
$CuC_{28}H_{22}N_4$	Copper octamethyl chlorin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
$CuC_{28}H_{28}N_4$	Copper octamethyl porphin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
$CuC_{28}H_{32}N_6O_6$	Barbital-copper-pyridine complex	2.5-16 μ	S	Spec	Levi	AC	28 (1956)	1591

$CuC_{28}H_{36}N_6O_6$	Ipral-Copper pyridine complex	2.5-16 μ	S	Spec	Levi	AC	28 (1956)	1591
$CuC_{30}H_{22}O_4$	Copper (II)-ω-benzoyl acetophenone complex	280-1700	-	Band study	Nakamoto	N	183 (1959)	459
$CuC_{30}H_{32}N_6O_6$	Dial-Copper-pyridine complex	2.5-16 μ	S	Spec	Levi	AC	28 (1956)	1591
$CuC_{30}H_{36}N_6O_6$	Alurate-Copper-pyridine complex	2.5-16 μ	S	Spec	Levi	AC	28 (1956)	1591
$CuC_{30}H_{40}N_6O_6$	Neonal-Copper-pyridine complex	2.5-16 μ	S	Spec	Levi	AC	28 (1956)	1591
$CuC_{32}H_{16}N_8$	Copper phthalocyanine	3-15 μ	S	Spec	Ebert	JACS	74 (1952)	2806
		650-4000	S	Spec, Anal	Kendall	AC	25 (1953)	382
		2-16 μ	S	Spec	Tyler	AC	25 (1953)	390
$CuC_{32}H_{28}N_6O_6$	Rutonal-Copperpyridine complex	2.5-16 μ	S	Spec	Levi	AC	28 (1956)	1591
$CuC_{32}H_{44}N_6O_6$	Amytal-Copper-pyridine complex	2.5-16 μ	S	Spec	Levi	AC	28 (1956)	1591
$CuC_{32}H_{44}N_6O_6$	Nembutal-Copper-pyridine complex	2.5-16 μ	S	Spec	Levi	AC	28 (1956)	1591
$CuC_{32}H_{62}O_4$	Cupric-n-palmitate	-	S	Struct	Yamada	BCSJ	31 (1958)	303
$CuC_{34}H_{32}N_6O_6$	Luminal-Copper-pyridine complex	2.5-16 μ	S	Spec	Levi	AC	28 (1956)	1591
$CuC_{34}H_{44}N_6O_6$	Seconal-Copper-pyridine complex	2.5-16 μ	S	Spec	Levi	AC	28 (1956)	1591
$CuC_{36}H_{32}N_6O_6$	Alphenal-Copper-pyridine complex	2.5-16 μ	S	Spec	Levi	AC	28 (1956)	1591

$CuC_{36}H_{36}N_6O_6$	Mebaral-Copper-pyridine complex	2.5-16μ	S	Spec	Levi	AC	28 (1956)	1591
$CuC_{36}H_{40}Br_2N_4O_8$	Copper 2,4',5-Trimethyl-3',4-dicarbethoxy-5'-bromo dipyrryl-methane	2700-3500	Sol	Spec, H bond	Vestting	JACS	61 (1939)	3511
$CuC_{36}H_{48}N_4$	Copper (II)-octaethyl chlorin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
$CuC_{44}H_{30}N_4$	Copper-meso-tetraphenyl porphin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
$CuC_{72}H_{60}Cl_2O_{12}P_4$	Copper (II)-triphenyl phosphoric oxide complex perchlorate	900-1300	S	Freq	Cotton	JCS	- (1960)	2199
$CuC_{1808}H_{3010}O_4$	Copper-polymethacryol acetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
CuH	Copper hydride	-	-	Size & Law of force	Birge	BAPS	1 (1925)	12
		-	-	Rotation, quantum theory	Birge	PR	27 (1926)	245
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
CuHClO	Cupric hydroxychloride	270-4000	S	Freq	Tarte	SA	13 (1958)	107
CuHFO	Cupric hydroxyfluoride	270-4000	S	Freq	Tarte	SA	13 (1958)	107
Cu_2O_2	Cupric hydroxide	270-4000	S	Freq	Tarte	SA	13 (1958)	107

CuH_2O_2	Cupric hydroxide	270-4000	S	Freq	Tarte	SA	13 (1958)	107
CuH_4F_3N	Ammonium fluoride cupric fluoride	1400-4000	S	Spec	Crocket	JACS	82 (1960)	4158
$CuH_8Cl_2N_4$	Copper (II)-hydrazine complex chloride	15-35 μ	-	Freq	Sacconi	N	186 (1960)	549
$CuH_8F_4N_2$	Diammonium copper tetra-fluoride	300-1500	S	Spec	Lecomte	CPR	249 (1959)	1991
$CuH_8O_8S.H_2O$	Copper (II)-water complex sulfate mono-hydrate	700-850	S	H bond	Fujita	JACS	78 (1956)	3963
$CuH_{12}Cl_2N_4$	Copper (II)-ammonia complex chloride	300-4000	S	Spec, Assign	Barrows	JINC	2 (1956)	340
$CuH_{12}N_4$	Tetramine cupric ion	-	-	Freq, FC	Schultz	JCP	10 (1942)	194
$CuH_{12}N_4O_4S.H_2O$	Copper (II)-ammonia complex sulfate mono-hydrate	700-3350 650-1650 -	S,Sol S -	Assign, Freq Freq Freq	Powell Svatos Wilmshurst	JCS JACS CJC	- (1956) 79 (1957) 38 (1960)	3108 3313 467
$CuD_8O_8S.D_2O$	Copper (II)-deuterium oxide complex sulfate-d_2 monohydrate	700-850	S	H bond	Fujita	JACS	78 (1956)	3963
$CuD_{12}N_4O_4S.D_2O$	Copper (II)-ammonia complex sulfate-d_{12} monohydrate-d_2	982	Sol	Assign, Freq	Powell	JCS	- (1956)	3108

CuBr	Copper bromide	-	-	Polarizability theory	Szigetti	TFS	45 (1949)	153
		-	-	Freq	Szigetti	PRS	204 (1950)	51
$CuBr_2$	Cupric bromide	4.75 μ	Sol	Absorption	Barr	JCP	7 (1939)	8
$CuCl_2$	Cupric chloride	1.4 μ	Sol	Spec	Coblentz	BBS	7 (1941)	619
		0.8-1.1 μ	L,Sol	Beer's law	Chatterjee	JCP	20 (1952)	344
		1-15 μ	Sol	Spec	Lagerqvist	AF	12 (1957)	491
$CuCl_2.2H_2O$	Cupric chloride dihydrate	5.75-7 μ	S	Struct	Rundle	JCP	23 (1955)	2450
$CuCl_2O_8.6H_2O$	Copper (II)-perchlorate hexahydrate	700-850	S	H bond	Fujita	JACS	78 (1956)	3963
CuF_4	Copper (II)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
CuF_6Si	Copper fluo-silicate	488-735	-	Band study	DeLattre	JCP	20 (1952)	1180
CuN_2O_6	Cupric nitrate	0.8-1.1 μ	L,Sol	Beer's law	Chatterjee	JCP	20 (1952)	344
		1000-1500	S	Band study	Addison	CIL	(1958)	468
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		2-15 μ	S	Spec	Addison	JCS	- (1960)	613
$CuN_2O_6.3H_2O$	Cupric nitrate trihydrate	2-16 μ	S	Spec, Freq	Miller	AC	24 (1952)	1253
		700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
		300-880	S	Spec	Miller	SA	16 (1960)	135
CuO	Copper oxide	5-50 μ	-	Absorption	Cartwright	PR	35 (1930)	415
$CuO_3Se.2H_2O$	Copper selenite dihydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
CuO_4S	Copper sulfate	2-4 μ	Sol	Spec	Angstrom	PR	3 (1914)	47
		8-10 μ	L	Reflection	Plyler	PR	28 (1926)	284
		0.5-1.3 μ	Sol	Optical properties	Pfund	JOSA	29 (1939)	56

		-	-	Interpretation of spec	Duval	CPR	237 (1948)	1153
		0.8-1.1 μ	L	Beer's law	Chatterjee	JCP	20 (1952)	344
		2-16 μ	S	Spec, Freq	Miller	AC	24 (1952)	1253
		290-650	S	Assign	Duval	CPR	239 (1954)	249
		800-900	S	H bond	Fujita	JACS	78 (1956)	3963
$CuO_4S.5H_2O$	Cupric sulfate pentahydrate	-	-	Freq	Hollaender	PR	34 (1929)	994
		5-50 μ	S	Absorption	Cartwright	PR	35 (1930)	415
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
CuO_4Mn_2	Copper manganite	350-5800	S	Spec, FC	Dasgupta	TFS	53 (1956)	909
$CuO_4Se.5H_2O$	Copper selenate pentahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
CuO_4W	Cupric tungstate	290-650	S	Assign	Duval	CPR	239 (1954)	249
CuS	Copper sulfide	5-50 μ	-	Absorption	Cartwright	PR	35 (1930)	415
$Cu_2CH_2O_5$	Basic cupric carbonate	1-6 μ	S	Spec	Hunt	AC	22 (1950)	1478
$Cu_2CH_2O_5.H_2O$	Basic copper carbonate hydrate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$Cu_2C_8H_{12}O_8 \cdot 2H_2O$	Copper acetate (dimer) dihydrate	700-850	S	H bond	Fujita	JACS	78 (1956)	3963
		400-5000	S	Spec	Nakamoto	JACS	79 (1957)	4904
$Cu_2C_{12}H_{10}Cl_4N_4$	Pyridinaldazine-di-Copper (II) chloride	1400-1700	S	Freq, Struct	Stratton	JACS	82 (1960)	4834
$Cu_2H_3BrO_3$	Cupric trihydroxy-bromide	270-4000	S	Freq	Tarte	SA	13 (1958)	107
$Cu_2H_3ClO_3$	Cupric trihydroxy-chloride	270-4000	S	Freq	Tarte	SA	13 (1958)	107
$Cu_2H_4N_4O_8P_4 \cdot 4H_2O$	Dicopper tetra-phosphonitrilate tetrahydrate	705-3390	S	Freq, I	Corbridge	JCS	- (1954)	4555

Cu_2Cl_2	Cuprous chloride	-	-	Polarizability theory	Szigetti	TFS	45 (1949)	155
		-	-	Freq	Szigetti	PRS	204 (1950)	51
Cu_2O	Copper (I) oxide	25 μ	S	Struct	Pastrynyak	OS	6 (1959)	107
		6-24 μ	S	Valence zone study	Lisitsa	FTT	20 (1960)	2117
$Cu_2O_{12}P_4 \cdot 8H_2O$	Dicupric tetrametaphosphate octahydrate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
$Cu_3O_8P_2$	Cupric orthophosphate	290-650	S	Assign	Duval	CPR	239 (1954)	249
$Cu_3O_8P_2 \cdot 3H_2O$	Cupric phosphate trihydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135

Er COMPOUNDS

Er_2O_3	Erbium oxide	1-8 μ	S	Spec	Coblentz	BBS	5 (1908)	159

Eu COMPOUNDS

$EuC_{15}H_{21}O_6$	Europium acetyl acetonate	-	Sol	Spec	Freed	JCP	8 (1940)	840
EuH	Europium hydride	-	-	FC	Platt	JCP	18 (1950)	932
$EuCl_3$	Europium chloride	-	Sol	Spec	Freed	JCP	8 (1940)	840
		-	-	Vibrations	Weissman	JCP	8 (1940)	227
EuF_3	Europium fluoride	-	S	Spec	Freed	JCP	8 (1940)	840
EuN_3O_9	Europium nitrate	-	Sol	Spec	Freed	JCP	8 (1940)	840

$FeCO_3$	Iron carbonate	22-310 μ	S	Reflectivity	Weniger	JOSA	7 (1923)	517
		-	-	Freq, Assign	Schaefer	TFS	25 (1929)	841
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$FeC_4H_{12}Cl_3O_2S_2$	Iron (III)-dimethyl sulfoxide complex chloride	650-4000	S	Spec, Assign	Cotton	JPC	64 (1960)	1534
$FeC_5H_2N_5ONa_2$	Iron (III)-cyanide, water complex (sodium salt)	1600-3400	S	Freq	Herrington	JCS	- (1955)	3555
$FeC_5H_2N_5ONa_3 \cdot H_2O$	Iron (II)-cyanide, water complex (sodium salt) monohydrate	1600-3400	S	Freq	Herrington	JCS	- (1955)	3555
$FeC_5H_3N_6Na_2 \cdot H_2O$	Iron (III)-ammonia, cyanide complex (sodium salt) monohydrate	700-3600	S	Freq	Herrington	JCS	- (1955)	3555
$FeC_5H_3N_6Na_3 \cdot 6H_2O$	Iron (II)-ammonia, cyanide complex (sodium salt) hexahydrate	700-3600	S	Freq	Herrington	JCS	- (1955)	3555
$FeC_5H_7O_2$	Acetylacetone iron chelate	-	Sol	Freq	Bellamy	JCS	- (1954)	4491
$FeC_5N_6ONa_2$	Iron (III)-cyanide, nitric oxide, complex (sodium salt)	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
$FeC_5N_6ONa_2 \cdot 2H_2O$	Iron (III)-cyanide, nitric oxide complex (sodium salt)dihydrate	600-3600	S	Freq, Struct	Herrington	JCS	- (1955)	3555
		300-880	S	Spec	Miller	SA	16 (1960)	135

$FeC_5N_6OK_2.H_2O$	Iron (III)-cyanide, nitric oxide complex (potassium salt) monohydrate	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
FeC_5O_5	Iron carbonyl	-	-	FC	Sheline	JCP	18 (1950)	602
		2-22μ	G,L	Spec, Assign	Sheline	JACS	72 (1950)	1107
		2.5-4.5μ	-	Spec	Sternberg	JACS	75 (1953)	3148
		-	Sol	Freq	Sternberg	JACS	77 (1955)	2675
		-	-	Struct	Cotton	JCP	29 (1958)	427
		-	-	NCA	Fateley	SA	10 (1958)	8
		400-4000	G,L	NCA, Spec, Assign	O'Dwyer	JMS	2 (1958)	144
		-	-	NCA, Assign	Kawai	NKZ	81 (1960)	1213
FeC_6N_6	Ferricyanide ion	-	-	Freq	Caglioti	AAN	22 (1957)	266
		450-2200	-	Freq	Caglioti	JINC	8 (1958)	87
		250-2200	S	Spec, Assign	Hidalgo	ARS	56A (1960)	9
FeC_6N_6	Ferrocyanide ion	-	-	Freq	Caglioti	AAN	22 (1957)	266
		450-2200	-	Freq	Caglioti	JINC	8 (1958)	87
		250-2200	-	Spec, Assign	Hidalgo	ARS	56A (1960)	9
$FeC_6N_6Ca_2.12H_2O$	Calcium ferrocyanide dodecahydrate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$FeC_6N_6K_3$	Potassium ferricyanide	0.8-1.25μ	Sol	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
		4.8-5.4μ	Sol	Spec	Gordy	JCP	3 (1935)	664
		2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		4.7-5.75μ	S	Usage	Wiberly	AC	29 (1957)	210
		250-2200	-	Assign	Hidalgo	CPR	249 (1959)	233
		300-880	S	Spec	Miller	SA	16 (1960)	135
$FeC_6N_6K_4$	Potassium ferrocyanide	0.8-1.25μ	Sol	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
		2-5μ	S	Spec	Bonino	AAN	25((1958)	401
		250-2200	-	Assign	Hidalgo	CPR	249 (1959)	233

		250-2200	-	Assign	Hidalgo	CPR	249 (1959)	233
$FeC_6N_6K_4 \cdot 3H_2O$	Potassium ferrocyanide trihydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$FeC_6N_6Na_4$	Sodium ferrocyanide	4.2-5.4 μ	Sol	Spec	Gordy	JCP	3 (1935)	664
$FeC_6N_6Na_4 \cdot 10H_2O$	Sodium ferrocyanide decahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$FeC_6O_{12}K_3 \cdot 3H_2O$	Iron (III)-oxalate complex (potassium salt) trihydrate	493-3450	S	Assign	Schmelz	SA	9 (1957)	51
$FeC_7H_4O_3$	Cyclopentadienon iron dicarbonyl	600-4000	S	Spec, Freq	Green	JCS	- (1960)	989
$FeC_7H_5ClO_2$	Cyclopentadienyl dicarbonmonoxide chloro iron (II)	600-5000	Sol	Spec, Freq, Config.	Piper	JINC	1 (1955)	165
$FeC_8H_4F_3O_2S$	Thenoyl trifluoro-acetone iron chelate	-	Sol	Freq	Bellamy	JCS	- (1954)	4491
$FeC_8H_4O_4$	Cyclopentadienon iron tricarbonyl	600-4000	S	Spec, Freq	Green	JCS	- (1960)	989
$FeC_8H_5NO_2$	Cyclopentadienyl dicarbonmonoxide cyano iron (II)	600-5000	Sol	Spec, Freq, Config., Struct	Piper	JINC	1 (1955)	165
$FeC_8H_8O_2$	Cyclopentadienyl dicarbonmonoxide methyl iron (II)	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104

$FeC_8H_{10}Cl_4N_3$	p-Dimethylamino-benzene diazonium chloride iron chloride	3-14μ	S	Freq	Gremillion	JACS	81 (1959)	6134
$FeC_8H_{24}I_2O_4S_4$	Iron (II)-dimethyl sulfoxide complex iodide	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534
$FeC_9H_{10}O_2$	Iron (II)-carbon-monooxide cyclo-pentadienyl, ethyl complex	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
$FeC_9H_{10}O_{12}K_3 \cdot 4H_2O$	Iron (III)-malonic acid complex (potassium salt) tetrahydrate	2-15μ	S	Freq assign	Schmelz	JACS	81 (1959)	287
$FeC_9H_{13}INO_8S \cdot H_2O$	Iron (II)-7-iodo-8-hydroxyquinoline-5-sulfonic acid, water complex mono-hydrate	-	S	Struct	Nortia	SK	32B (1959)	83
$FeC_9F_8O_3$	Iron-carbonmonoxide, perfluorocyclohexa-1:3-diene complex	2000-2120	-	Freq	Watterson	CIL	- (1959)	991
$FeC_{10}H_8O_3$	Norbornadiene iron tricarbonyl	600-4000	Sol	Spec, Freq	Green	JCS	- (1960)	989
$FeC_{10}H_{10}$	Ferrocene	700-4000	S	Spec, Band freq	Kaplan	JACS	74 (1952)	5531
		-	-	Band freq	Woodward	JACS	74 (1952)	3458
		2-25μ	S,Sol	Freq assign	Lippincott	JCP	21 (1953)	1307
		2-16μ	-	Spec	Wilkinson	JACS	76 (1954)	1970
		817-1420	-	Struct	Dunitz	JCP	23 (1955)	954

		2-16μ	-	Spec	Wilkinson	JACS	76	(1954)	1970
		817-1420	-	Struct	Dunitz	JCP	23	(1955)	954
		600-3200	S	Spec	Wilkinson	JINC	2	(1956)	95
		300-3600	Sol,G	Spec, Struct, NCA, Freq assign	Lippincott	SA	10	(1958)	307
		-	S	Freq	Kazitsyna	DANS	127	(1959)	333
		1800-6600	S	Spec	Winter	SA	15	(1959)	1085
$FeC_{10}H_{10}Cl_4Ga$	Ferricinium tetrachlorogallate	2-15μ	S	Spec	Wilkinson	JACS	76	(1954)	4281
$FeC_{10}H_{12}N_2O_8 \cdot Na.H_2O$	Iron (III)-ethylenediamine tetraacetic acid complex (sodium salt) monohydrate	800-1800	S	Spec	Donald	JACS	82	(1960)	4191
$FeC_{10}H_{20}N_3OS_4$	Nitrosyl derivative of Iron (II) diethyldithiocarbamate	1700-2050	S	Struct	Lewis	JINC	7	(1958)	32
$FeC_{10}H_{10}Cl_3NO_6$	Iron (III)-ethyl alcohol nitric oxide complex chloride	-	Sol	Struct	Griffith	JCS	-	(1958)	3993
$FeC_{10}D_{10}$	Ferrocene-d_{10}	300-3600	Sol,G	Spec, Struct, Freq, Assign, NCA	Lippincott	SA	10	(1958)	307
$FeC_{11}H_6O_5$	Reppe organo iron complex	600-4000	S	Spec assign	Green	JCS	-	(1960)	989
$FeC_{11}H_{11}D$	Benzene-(1-endo deutero cyclopentadiene) iron (0)	600-4000	Sol	Spec	Green	JCS	-	(1960)	989
$FeC_{11}H_{12}$	Benzene cyclopentadiene iron (0)	600-4000	Sol	Spec	Green	JCS	-	(1960)	989
$FeC_{11}H_{12}$	Methyl ferrocene	-	-	Band study	Nesmeyanov	DANS	125	(1959)	1037

$FeC_{11}H_{12}O$	Ferrocenyl carbinol	-	Sol	H bond	Trifan	JACS	82 (1960)	5010
$FeC_{12}H_{10}N_4S_2$	Iron (II)-pyridine, isothiocyanate complex	-	S	Freq assign	Mitchell	JCS	- (1960)	1912
$FeC_{12}H_{10}O_2$	Iron-carbonmonoxide cyclopentadiene complex	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
$FeC_{12}H_{12}O$	Acetylferrocene	5.97 μ	-	Freq	Woodward	JACS	74 (1952)	3458
$FeC_{12}H_{12}O_2$	Ferrocene mono-carboxylic acid methyl ester	5.82 μ	-	Freq	Woodward	JACS	74 (1952)	3458
$FeC_{12}H_{14}$	Dimethylferrocene	-	-	Band study	Nesmeyanov	DANS	125 (1959)	1037
$FeC_{12}H_{14}$	Ethylferrocene	9-11.5 μ	-	Struct	Rosenblum	CIL	- (1958)	953
		-	-	Band study	Nesmeyanov	DANS	125 (1959)	1037
$FeC_{12}H_{14}O$	Ferrocenyl methyl carbinol	-	Sol	H bond	Trifan	JACS	82 (1960)	5010
$FeC_{12}H_{14}O$	α-Hydroxy ethyl ferrocene	-	Sol	H bond	Kuhn	JACS	79 (1957)	6566
$FeC_{12}H_{14}O$	2-Ferrocenyl ethanol	-	Sol	H bond	Trifan	JACS	82 (1960)	5010
$FeC_{12}H_{18}Cl_2N_6$	Hexamethyl ferrocyanide chloride	-	-	Freq, Assign, Struct	Fabbri	ANCR	48 (1958)	909
$FeC_{12}H_{30}I_2N_{12}$	Iron (II)-biacetyl, dihydrazone complex iodide	-	S	Spec, Assign	Stonfer	JACS	82 (1950)	3491
$FeC_{12}H_{36}O_6$	Hexaethanolo iron (II)	-	Sol	Spec	Furlani	GCI	87 (1957)	471

$FeC_{12}H_{36}O_6$	Hexaethanolo iron (II)	-	Sol	Spec	Furlani	GCI	87 (1957)	371
$FeC_{13}H_{10}O_2$	Iron-carbonmonoxide cyclopentadienyl phenyl complex	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
$FeC_{13}H_{16}$	iso-Propylferrocene	-	-	Band freq	Nesmeyanov	DANS	125 (1959)	1037
$FeC_{13}H_{16}O$	Ferrocenyl dimethyl carbinol	-	Sol	H bond	Trifan	JACS	82 (1960)	5010
$FeC_{14}H_{14}Cl_2N_4 \cdot xH_2O$	Iron (II)-bis-(pyridinal)-ethylene-diamine complex chloride polyhydrate	600-4000	S	Assign	Bush	JACS	78 (1956)	1137
$FeC_{14}H_{16}$	Tetrahydroindenyl cyclopentadienyl iron	-	-	Band study	Nesmeyanov	DANS	125 (1959)	1037
$FeC_{14}H_{16}$	Tetramethylene ferrocene	-	-	Band study	Nesmeyanov	DANS	125 (1959)	1037
$FeC_{14}H_{16}O$	1-Acetyl-1'-ethyl-ferrocene	9-11.5 μ	-	Struct	Rosenblum	CIL	- (1958)	953
$FeC_{14}H_{16}O$	1-Acetyl-2'-ethyl-ferrocene	9-11.5 μ	-	Struct	Rosenblum	CIL	- (1958)	953
$FeC_{14}H_{16}O$	1-Acetyl-3-ethyl-ferrocene	9-11.5 μ	-	Struct	Rosenblum	CIL	- (1958)	953
$FeC_{14}H_{16}O$	1:1'-Dimethyl-2-acetylferrocene	9-11.5 μ	-	Struct	Rosenblum	CIL	- (1958)	953

$FeC_{14}H_{16}O$	1;1'-Dimethyl-3-acetylferrocene	9-11.5μ	-	Struct	Rosenblum	CIL	-	(1958)	953
$FeC_{14}H_{18}$	t-Butylferrocene	-	-	Band study	Nesmeyanov	DANS	125	(1959)	1037
$FeC_{14}H_{18}$	Diethylferrocene	-	-	Band study	Nesmeyanov	DANS	125	(1959)	1037
$FeC_{14}H_{18}$	Mesitylene cyclopentadiene iron (0)	600-4000	Sol	Spec	Green	JCS	-	(1960)	989
$FeC_{14}H_{42}Cl_3O_{19}S_7$	Iron (III)-dimethyl sulfoxide complex perchlorate dimethyl sulfoxide	650-4000	S	Assign, Spec	Cotton	JPC	64	(1960)	1534
$FeC_{15}H_{21}O_6$	Iron (III)-acetyl acetonate	625-5000	S	Spec, Struct	West	JINC	5	(1958)	295
$FeC_{16}H_{14}$	Phenylferrocene	3-16μ	Sol	Spec	Panson	JACS	76	(1954)	2187
		9-11.5μ	-	Struct	Rosenblum	CIL	-	(1958)	953
		-	-	Band study	Nesmeyanov	DANS	125	(1959)	1037
$FeC_{16}H_{18}O_2$	1;1'-Diacetyl-2-ethylferrocene	9-11.5μ	-	Struct	Rosenblum	CIL	-	(1958)	953
$FeC_{16}H_{18}O_2$	1;1'-Diacetyl-3-ethylferrocene	9-11.5μ	S	Struct	Rosenblum	CIL	-	(1958)	953
$FeC_{16}H_{22}$	Diisopropylferrocene	-	-	Band study	Nesmeyanov	DANS	125	(1959)	1037
$FeC_{18}H_{14}$	Dibenzferrocene	2-15μ	Sol	Spec	Panson	JACS	76	(1954)	2024
$FeC_{18}H_{16}O$	1-Acetyl-1'-phenylferrocene	9-11.5μ	-	Struct	Rosenblum	CIL	-	(1958)	953
$FeC_{18}H_{16}O$	1-Acetyl-2-phenylferrocene	9-11.5μ	-	Struct	Rosenblum	CIL	-	(1958)	953
$FeC_{18}H_{16}O$	1-Acetyl-3-phenylferrocene	9-11.5μ	-	Struct	Rosenblum	CIL	-	(1958)	953

$FeC_{18}H_{16}O$	2-Acetyl-2'-phenyl-ferrocene	9-11.5μ	-	Struct	Rosenblum	CIL	- (1958)	953
$FeC_{18}H_{16}O$	2-Acetyl-3-phenyl-ferrocene	9-11.5μ	-	Struct	Rosenblum	CIL	- (1958)	953
$FeC_{18}H_{16}O$	2-Acetyl-4-phenyl-ferrocene	9-11.5μ	-	Struct	Rosenblum	CIL	- (1958)	953
$FeC_{18}H_{18}$	Ethylphenylferrocene	-	-	Band study	Nesmeyanov	DANS	125 (1959)	1037
$FeC_{18}H_{24}O$	1;1'-Diisopropyl-2-acetylferrocene	9-11.5μ	-	Struct	Rosenblum	CIL	- (1958)	953
$FeC_{18}H_{24}O$	1;1'-Diisopropyl-3-acetylferrocene	9-11.5μ	-	Struct	Rosenblum	CIL	- (1958)	953
$FeC_{18}H_{26}$	Di-t-butylferrocene	-	-	Band study	Nesmeyanov	DANS	125 (1959)	1037
$FeC_{18}H_{36}I_2N_6$	Iron (II)-biacetyl bis-methylimine complex iodide	600-4000	S	Assign	Bush	JACS	78 (1956)	1137
$FeC_{18}H_{48}O_6$	Hexaisopropanolo iron (II)	-	Sol	Spec	Furlani	GCI	87 (1957)	371
$FeC_{19}H_{16}O_3$	(O-Carbomethoxy-phenyl)-ferrocenyl ketone	6.02μ	-	Freq	Woodward	JACS	74 (1952)	3458
$FeC_{19}H_{23}N$	1-Cyano-1-dicyclo-pentanyl iron-2-phenyl ethylene	4.5-14.32μ	-	Band study	Howser	JOC	23 (1958)	2006
$FeC_{21}H_{15}O_6$	Iron (III)-tropolonate	-	S	Band freq	Bryant	JOC	19 (1954)	1889
$FeC_{21}H_{24}I_2N_2.H_2O$	Iron (II)-pyridinal methylimine complex iodide monohydrate	600-4000	S	Assign	Bush	JACS	78 (1956)	1137

$FeC_{22}H_{18}$	Diphenylferrocene	-	-	Band study	Nesmeyanov	DANS	125 (1959)	1037
$FeC_{22}H_{18}$	1:1'-Diphenylferrocene	3-16 μ	Sol	Spec	Panson	JACS	76 (1954)	2187
$FeC_{24}H_{20}O$	1:1'-Diphenyl-2-acetyl-ferrocene	9-11.5 μ	S	Struct	Rosenblum	CIL	- (1958)	953
$FeC_{24}H_{20}O$	1:1'-Diphenyl-3-acetyl-ferrocene	9-11.5 μ	-	Struct	Rosenblum	CIL	- (1958)	953
$FeC_{24}H_{22}$	Ditolylferrocene	-	-	Band study	Nesmeyanov	DANS	125 (1959)	1037
$FeC_{24}H_{5}O_{12}P_{3}$	Ferric-di-n-butyl-phosphate	714-5000	S	Interaction study	Smith	JINC	9 (1959)	150
$FeC_{24}H_{60}O_{6}$	Hexaisobutanolo-iron (II)	-	Sol	Spec	Furlani	GCI	- (1957)	371
$FeC_{27}H_{18}N_{3}O_{3}$	Iron (III)-8-hydroxy-quinolate	- 8-15 μ	S S	Spec Assign, Spec	Charles Charles	AC SA	25 (1953) 8 (1956)	530A 1
$FeC_{29}H_{28}N_{4}O_{3}$	4-Monoformyl deutero-haem dimethyl ester	600-1800	Sol	Spec, Assign	Falk	AJSR	4A (1951)	579
$FeC_{30}H_{24}Cl_{2}N_{6}O_{8}$	Iron (II)-2,2'-bipyridine complex perchlorate	600-4000 600-2000	S S	Assign Interpretation	Bush Schilt	JACS JINC	78 (1956) 9 (1959)	1137 211
$FeC_{30}H_{24}Cl_{3}N_{6}O_{12}$	Iron (III)-2,2'-bipyridine complex perchlorate	600-2000	S	Interpretation	Schilt	JINC	9 (1959)	211
$FeC_{32}H_{32}N_{4}O_{4}$	Deuterohaem dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$FeC_{34}H_{26}$	1,3,1',3'-Tetraphenyl-ferrocene	3-16 μ	S	Spec	Panson	JACS	76 (1954)	2187
$FeC_{34}H_{32}N_{4}O_{4}$	Protohaem free acid	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$FeC_{34}H_{32}N_{4}O_{6}$	Diformyl deuterohaem	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579

$FeC_{34}H_{32}N_4O_6$	Diformyl deuterohaem dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$FeC_{34}H_{34}N_4O_5$	Monoacetyl deuterohaem dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$FeC_{34}H_{36}N_4O_4$	Rhodohaem dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$FeC_{36}H_{24}Cl_2N_6 \cdot 6H_2O$	Iron (II)-1,10-phenanthroline complex chloride hexahydrate	600-4000	S	Assign	Bush	JACS	78 (1956)	1137
$FeC_{36}H_{24}Cl_2N_6O_8$	Iron (II)-1;10-phenanthroline complex perchlorate	600-4000	S	Spec	Schilt	JINC	9 (1959)	211
$FeC_{36}H_{24}Cl_3N_2O_{12}.H_2O$	Iron (III)-1;10-phenanthroline complex perchlorate monohydrate	600-2000	S	Spec	Schilt	JINC	9 (1959)	211
$FeC_{36}H_{30}$	1,1'-Dibenzohydryl ferrocene	3-16 μ	Sol	Spec	Panson	JACS	76 (1954)	2187
$FeC_{36}H_{30}Br_2O_2P_2$	Iron (II)-bromide-Triphenylphosphine oxide addition compound	1100-1300	S	Assign	Sheldon	JACS	80 (1958)	4775
$FeC_{36}H_{30}N_2O_2$	Iron-nitric oxide, triphenylphosphine complex	1700-2050	Sol	Freq	Lewis	JINC	7 (1958)	32

$FeC_{36}H_{34}N_4O_6$	Diacetyl deuterohaem dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$FeC_{36}H_{36}N_4O_4$	Protohaem dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$FeC_{36}H_{38}N_4O_4$	Protoprophyrin dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$FeC_{36}H_{40}N_4O_4$	Mesohaem dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$FeC_{36}H_{40}N_4O_6$	Haenatchaem dimethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$FeC_{46}H_{34}$	1,2,4,1',2',4'-Hexa-phenylferrocene	3-16 μ	S	Spec	Panson	JACS	76 (1954)	2187
$FeC_{48}H_{52}N_4O_{16}$	Urchaem (I) octamethyl ester	670-4000	S	Spec, Assign	Falk	AJSR	4A (1951)	579
$FeC_{72}H_{60}Cl_3O_{16}P_4$	Iron (III)-triphenyl-phosphine oxide complex perchlorate	900-1300	S	Freq	Cotton	JCS	- (1960)	2199
FeH	Iron hydride	-	-	FC	Platt	JCP	18 (1950)	932
$FeHNO_5P.xH_2O$	Nitrosoferrous hydrogen phosphate hydrate	-	Sol	Struct	Griffith	JCS	- (1958)	3993
		1700-2050	S	Struct	Lewis	JINC	7 (1958)	32
$FeH_4NO_4P.H_2O$	Ferrous ammonium	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493

$FeH_4NO_4P.H_2O$	Ferrous ammonium orthophosphate monohydrate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
$FeH_5N_6O_5S$	Iron (II)-ammonia, nitric oxide complex sulfate	1700-1875	S	Struct	Griffith	JCS	- (1958)	3993
$FeH_8Cl_2N_4$	Iron (II)-hydrazine complex chloride	15-35 μ	-	Freq	Sacconi	N	186 (1960)	549
$FeH_8N_2O_8S_2$	Ferrous ammonium sulfate	0.5-1.3 μ 0.8-1.1 μ	Sol L	Optical properties Beer's law	Pfund Chatterjee	JOSA JCP	29 (1939) 20 (1952)	56 344
$FeH_{10}Cl_2NO_6$	Iron (II)-nitric oxide, water complex chloride	-	-	Struct	Griffith	JCS	- (1958)	3993
$FeH_{10}NO_{10}S$	Iron (II)-nitric oxide, water complex sulfate	-	Sol	Struct	Griffith	JCS	- (1958)	3993
$FeH_{10}NO_{10}Se$	Iron (II)-nitric oxide, water complex selenate	1700-1875	-	Struct	Griffith	JCS	- (1958)	3993
$FeH_{12}F_6N_3$	Ammonia hexafluoro ferrate (III)	1400-4000	S	Spec	Crocket	JACS	82 (1960)	4158
$FeH_{12}O_6$	Hexaaquo-iron (II)	- -	- Sol	Freq, FC Spec	Schultz Furlani	JCP GCI	10 (1942) - (1957)	194 371

$FeH_{15}Cl_2N_6O$	Iron (II)-ammonia, nitric oxide complex chloride	1700–1875	S	Struct	Griffith	JCS	- (1958)	3993
$FeH_{15}N_6O_5S$	Iron (II)-ammonia, nitric oxide complex sulfate	1700–1875	S	Struct	Griffith	JCS	- (1958)	3993
$FeH_{18}N_6$	Hexammine iron (II)	-	Sol	Spec	Furlani	GCI	- (1957)	371
$FeBr_8O_2P_2$	Phosphorous oxybromide iron (II) bromide	1100–1300	S	Bonding	Sheldin	JACS	80 (1958)	4775
$FeCl_3$	Ferric chloride	0.8–1.25 μ	Sol	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
		1–15 μ	Sol	Spec	Lagerqvist	AF	12 (1957)	491
		190–700	G	Spec	Wilmshurst	JMS	5 (1960)	343
$FeCl_6$	Hexachloro iron (II)	-	Sol	Spec	Furlani	GCI	- (1957)	571
FeF_4	Iron (II)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
FeF_4	Iron (II)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
FeI_3O_9	Ferric iodate	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429
FeN_2O_2SK	Iron (III)-nitric oxide, sulfide complex (potassium salt)	1700–2050	S	Freq	Lewis	JINC	7 (1958)	32
FeN_3O_9	Ferric nitrate	2–16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$FeN_3O_9 \cdot 9H_2O$	Ferric nitrate	2–16 μ	S	Spec, Freq	Miller	AC	24 (1952)	1253

$FeN_3O_9 \cdot 9H_2O$	Ferric nitrate monohydrate	2-16 μ	S	Spec, Freq	Miller	AC	24 (1952)	1253
		700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
		300-880	S	Spec	Miller	SA	16 (1960)	135
FeN_4O_4	Iron (III)-nitrate, nitric oxide complex	1700-1875	S	Struct	Griffith	JCS	- (1958)	3993
FeO	Iron monoxide	7000-14000	-	Spec	Bass	PR	87 (1952)	214
$FeO_4P \cdot 2H_2O$	Iron orthophosphate dihydrate	2-15 μ	S	Band freq, I, Assign	Corbridge	JCS	- (1954)	493
$FeO_4P \cdot 4H_2O$	Iron (III)-phosphate tetrahydrate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
FeO_4S	Ferrous sulfate	0.8-1.25 μ	Sol	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
		0.8-1.1 μ	L	Beer's law	Chatterjee	JCP	20 (1952)	344
$FeO_4S \cdot 7H_2O$	Ferrous sulfate heptahydrate	2-16 μ	S	Spec, Freq	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
FeO_4Mg	Magnesium ferrite	280-4000	S	Spec, Assign, FC, I, Thermo.	Waldron	PR	99 (1955)	1727
$Fe_2C_4H_{10}N_4O_4S_2$	Nitrosylthioethyanato iron	1700-2050	S	Struct	Lewis	JINC	7 (1958)	32
$Fe_2C_9O_9$	Iron enneacarbonyl	2-21 μ	S	Spec, Assign	Sheline	JACS	72 (1950)	1107
		2-12.5 μ	S	Spec	Sheline	JACS	73 (1951)	1615
$Fe_2C_{10}H_4O_6$	Reppe Organo iron complex	600-4000	Sol	Spec, Assign	Green	JCS	- (1960)	989

$FeC_{12}H_{10}O_2$	Carbonmonoxide Iron-cyclopentadiene complex	600-5000	S	Struct	Piper	JINC	1 (1955)	165
$Fe_2C_{12}H_{30}Cl_4N_{12}$	Tris-(biacetyl dihydrazone)-iron (II)-tetra-chloroferrate (II)	600-4000	S	Assign	Bush	JACS	78 (1956)	1137
$Fe_2C_{14}H_{10}O_8$	Di-(π-cyclopenta-dienyl iron) tetra-carbonyl	4.5-6 μ	S	Struct	Stammereich	JINC	9 (1959)	3
$Fe_2C_{22}H_{22}$	Dimethylene diferrocene	-	-	Band study	Nesmeyanov	DANS	125 (1959)	1037
$Fe_2C_{32}H_{30}$	Diphenyl dimethylene diferrocene	-	-	Band study	Nesmeyanov	DANS	125 (1959)	1037
$Fe_2H_8N_2O_{16}S_4$	Ferric ammonium sulfate	0.777-2.8 μ 0.8-1.25 μ	Sol Sol	Transmission curves Magnetic rotation	Nichols Ingersoll	PR JOSA	1 (1893) 6 (1922)	1 663
$Fe_2H_8N_2O_{28}S_7$	Ammonium iron alum	0-1.4 μ	Sol	Spec	Coblentz	BBS	7 (1911)	619
$Fe_2NO_9S_2 \cdot 13H_2O$	Iron (II)-sulphate, nitric oxide complex tridecahydrate	1700-1875	S	Struct	Griffith	JCS	- (1958)	3993
Fe_2O_3	α-Ferric oxide	4000-14500	S	Spec	Morin	PR	93 (1954)	1195
$Fe_2O_3 \cdot H_2O$	Ferric oxide hydrate	-	-	H bond	Glemser	ZAUA	297 (1958)	175
Fe_2O_4Co	Cobalt ferrite	280-4000	S	Spec, Assign, FC, I, Thermo.	Waldron	Ph	99 (1955)	1727
Fe_2O_4Mn	Manganese ferrite	280-4000	S	Spec, Assign, FC, I, Thermo.	Waldron	Ph	99 (1955)	1727

Fe_2O_4Mn	Manganese ferrite	280–4000	S	Spec, Assign, FC, I, Thermo.	Waldron	PR	99 (1955)	1727
$Fe_2O_{12}S_3$	Ferric sulfate	0.8–1.25μ	Sol	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
$Fe_2O_{12}S_3 \cdot xH_2O$	Ferric sulfate polyhydrate	300–880	S	Spec	Miller	SA	16 (1960)	135
$Fe_3C_{12}O_{12}$	Iron tetracarbonyl (trimer)	2–12.5μ	S,Sol	Spec, Struct	Sheline	JACS	73 (1951)	1615
		1818–2105	S	Spec, Struct	Dahl	JCP	27 (1957)	323
Fe_3O_4	Iron ferrite	280–4000	S	Spec, Assign, FC, I, Thermo.	Waldron	PR	99 (1955)	1727
$Fe_4H_2N_7O_8S_3$	Roussin's black salt	1700–2050	S	Struct	Lewis	JINC	7 (1958)	32
$Fe_7C_{18}N_{18}$	Ferricferrocyanide	2–15μ	S	Spec	Harkins	AC	31 (1959)	541

Fr COMPOUNDS

FrH	Francium hydride	-	-	FC	Sheline	JCP	18 (1950)	927
Fr_2	Francium	-	-	Freq	Clark	TFS	33 (1937)	1398

Ga COMPOUNDS

GaC_2H_7O	Dimethyl gallium hydroxide	2–16μ	S,Sol	Spec	Kenny	JACS	76 (1954)	4839

$GaC_{27}H_{18}N_3O_3$	Gallium (III)-8-hydroxyquinolate	-	S	Spec	Charles	AC	25 (1953)	530
GaH	Gallium monohydride	-	-	FC	Sheline	JCP	18 (1950)	927
GaBr	Gallium bromide	-	-	Microwave	Mandel	BAPS	2 (1956)	284
$Ga^{69}Br^{79}$	Gallium bromide (isotopic)	-	-	Spec, Mol. Const.	Barrett	PR	109 (1958)	1572
GaCl	Gallium chloride	-	-	Microwave	Mandel	BAPS	2 (1956)	284
$Ga^{69}Cl^{35}$	Gallium chloride (isotopic)	-	-	Spec, Mol. Const.	Barrett	PR	109 (1958)	1572
GaF_4	Gallium (III)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
GaI	Gallium iodide	-	-	Microwave	Mandel	BAPS	2 (1956)	284
$Ga^{69}I^{127}$	Gallium iodide (isotopic)	-	-	Spec, Mol. Const.	Barrett	PR	109 (1958)	1572
GaP	Gallium phosphide	6-26 μ	S	Freq, Assign	Kleinman	PR	118 (1960)	110
GaAs	Gallium arsenide	-	-	Spec	Briggs	PR	93 (1954)	912
		-	S	Spec	Braunstein	PR	99 (1955)	1892
		0.85-25 μ	S	Absorption measurement	Spitzer	PR	114 (1959)	59
GaSb	Gallium antimonide	-	-	Spec	Briggs	PR	93 (1954)	912A
		-	S	Spec	Blunt	PR	96 (1954)	576
		-	S	Spec	Collins	PR	98 (1955)	227A
		-	S	Spec	Braunstein	PR	99 (1955)	1892
Ga_2C_2	Gallium carbide	-	-	Freq, Thermo.	Chupka	JPC	62 (1958)	611
Ga_2O_3	Gallium oxide	410-1200	S	Assign	Kolesova	OS	6 (1959)	38
Ga_2Tl_3	Gallium telluride	-	-	Activation energy	Harbeke	ZN	139 (1958)	775

$GeCH_3Cl_3$	Methyl trichlorogermane	-	-	Mol. Const.	Irisova	IANS	22 (1958)	1307
$GeCH_6$	Methylgermane	-	-	Band study	Barchukov	OS	5 (1958)	530
		-	-	Mol. Const.	Laurie	JCP	30 (1959)	1210
GeC_2H_8	Dimethylgermane	-	G	Group freq	West	JACS	75 (1953)	6080
$GeC_3H_7Cl_3$	Isopropylgermanium trichloride	-	Sol	Spec	Rochao	JACS	73 (1951)	5486
$GeC_3H_7Cl_3$	n-Propylgermanium trichloride	-	Sol	Spec	Rochao	JACS	73 (1951)	5486
GeC_4H_{12}	Tetramethylgermane	-	-	Freq	French	JCP	14 (1946)	389
		600-6000	G	Spec, Freq, Assign	Young	JACS	69 (1947)	1410
		-	-	FC	Sheline	JCP	18 (1950)	595
		-	-	FC	Sheline	JCP	18 (1950)	602
		598-3720	G,L	I, Assign	Lippincott	JACS	75 (1953)	4141
		1242	-	Freq	Sheppard	TFS	51 (1955)	1465
$GeC_4H_{12}O_4$	Tetramethoxygermane	580-2955	L,Sol	Spec, I	Johnson	JACS	75 (1953)	718
$GeC_8H_{20}O_4$	Tetraethoxygermane	695-2930	L,Sol	Table, I	Johnson	JACS	75 (1953)	718
GeC_8H_{20}	Tetraethylgermane	1-16 μ	G	Spec	Kattering	P	4 (1933)	39
$GeC_{16}H_{36}O_4$	Tetra-n-butoxygermane	699-2920	L,Sol	Table, I	Johnson	JACS	75 (1953)	718
$GeC_{18}H_{16}$	Triphenylgermane	1002-4200	Sol	Freq	West	JACS	75 (1953)	6080
$GeC_{18}H_{16}$	Triphenylgermanol	-	-	Ident	Brook	JACS	76 (1954)	77
		-	Sol	H bond	West	JACS	82 (1960)	6269
$GeC_{20}H_{18}O_2$	Methyltriphenylgermane-carboxylate	-	-	Ident	Brook	JACS	76 (1954)	77
$GeC_{20}H_{44}O_4$	Tetra-n-pentoxygermane	699-2910	L,Sol	I	Johnson	JACS	75 (1953)	718

$GeC_{24}H_{20}$	Tetraphenylgermane	1089	Sol	Freq	Kross	JACS	77 (1955)	5858
		625-900	Sol	Substitution	Margoshes	SA	7 (1955)	14
		8-11μ	S	Band freq	Nottes	CIL	- (1959)	298
$GeC_{24}H_{44}O_4$	Tetracyclohexylsilane	670-2946	Sol,L	I	Johnson	JACS	75 (1953)	718
$GeC_{24}H_{52}O_4$	Tetra-n-hexoxygermane	687-2895	L,Sol	I	Johnson	JACS	75 (1953)	718
$GeC_{25}H_{20}O$	Benzoyltriphenyl-germane	-	Sol	Freq	Brook	JACS	82 (1960)	5102
$GeC_{37}H_{30}$	Triphenylmethyl-triphenylgermane	-	-	Comparison	Brook	JACS	76 (1954)	77
GeH	Germanium hydride	-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
$GeHCl_3$	Trichlorogermane	-	-	FC	Krishnamachari	IJP	29 (1955)	384
		300-4000	G	Spec	Lindeman	SA	9 (1957)	47
$Ge^{70}HCl_3^{35}$	Trichlorogermane (isotopic)	-	-	Microwave	Venkateswarlu	JCP	21 (1953)	1713
$Ge^{72}HCl_3^{35}$	Trichlorogermane (isotopic)	-	-	Microwave	Venkateswarlu	JCP	21 (1953)	1713
$Ge^{74}HCl_3^{35}$	Trichlorogermane (isotopic)	-	-	Microwave	Venkateswarlu	JCP	21 (1953)	1713
$Ge^{70}HCl_3^{37}$	Trichlorogermane (isotopic)	-	-	Microwave	Venkateswarlu	JCP	21 (1953)	1713

$Ge^{72}HCl_3^{37}$ Trichlorogermane (isotopic) - - Microwave Venkateswarlu JCP 21 (1953) 1713

$Ge^{72}HCl_3^{37}$	Trichlorogermane (isotopic)	-	-	Microwave	Venkateswarlu	JCP	21 (1953)	1713
$Ge^{74}HCl_3^{37}$	Trichlorogermane (isotopic)	-	-	Microwave	Venkateswarlu	JCP	21 (1953)	1713
GeH_3D	Germane-d_1	1520	G	Spec, Freq, Anal	Lindeman	JCP	22 (1954)	1723
GeH_3Br^{79}	Bromogermane (isotopic)	-	-	Microwave	Mays	JCP	20 (1952)	1695
GeH_3Cl	Monochlorogermane	-	G	Spec, Assign, Thermo. Mol. Const.	Lord	JCP	22 (1954)	542
$Ge^{70}H_3Cl^{35}$	Monochlorogermane (isotopic)	-	G	Microwave	Dailey	PR	76 (1949)	136
$Ge^{72}H_3Cl^{35}$	Monochlorogermane (isotopic)	-	G	Microwave	Dailey	PR	76 (1949)	136
$Ge^{74}H_3Cl^{35}$	Monochlorogermane (isotopic)	-	G	Microwave	Dailey	PR	76 (1949)	136
$Ge^{74}H_3Cl^{37}$	Monochlorogermane (isotopic)	-	G	Microwave	Dailey	PR	76 (1949)	136
$Ge^{76}H_3Cl^{37}$	Monochlorogermane (isotopic)	-	G	Microwave	Dailey	PR	76 (1949)	136

GeH_4	Germane	1-13 μ	G	Spec	Steward	PR	48 (1935)	861
		-	-	Assign	Murphy	JCP	8 (1940)	71
		9-13 μ	-	Freq	Straley	PR	58 (1940)	1002
		-	G	Rot.	Straley	PR	60 (1941)	65A
		9-13 μ	G	Forbidden bands	Tindal	PR	60 (1941)	65A
		-	-	Quant. Mech.	Wu	JCP	9 (1941)	195
		10-14 μ	G	Spec	Straley	PR	62 (1942)	161
		750-1050	G	Freq	Nielsen	JOSA	34 (1944)	521
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	FC	Heath	TFS	46 (1950)	137
		-	G	Band freq	Burgess	JOSA	43 (1953)	1058
		-	-	Bond dist.	Huggins	JACS	75 (1953)	4126
		800	G	Freq	Lindeman	JCP	22 (1954)	1723
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2365
		-	-	FC	Pistorius	JCP	27 (1957)	965
$GeH_8F_6N_2$	Diammonium germanium hexafluoride	-	S	Band freq	Cox	JCS	- (1954)	1798
$GeDCl_3$	Trichlorogermane-d_1	300-4000	G	Spec	Lindeman	SA	9 (1957)	47
GeD_3Cl	Monochlorogermane-d_3	-	G	Freq, Assign, Thermo.	Lord	JCP	22 (1954)	542
		-	-	NCA, FC	Krishnamachari	IJP	29 (1955)	147
$GeBr_4$	Germanium tetrabromide	-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Force field	Heath	TFS	44 (1948)	561
		-	-	Force field	Heath	TFS	44 (1948)	878
		-	-	FC	Linnett	TFS	48 (1952)	592
		-	-	Freq	Waltz	JCP	20 (1952)	307
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2365
		-	-	Freq	Hahn	JCP	24 (1956)	921
		-	-	FC	Pistorius	JCP	28 (1958)	514
$GeCl_4$	Germanium tetrachloride	-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Force field	Heath	TFS	44 (1948)	561
		-	-	Force field	Heath	TFS	44 (1948)	878
		-	-	Force field	Linnett	TFS	48 (1952)	592
		-	-	Freq	Woltz	JCP	20 (1952)	307
		-	-	FC	Bowers	JCP	21 (1953)	1117
		-	-	FC	Gaunt	TFS	50 (1954)	546

		-	-	FC	Krishnamachari	IJP	29 (1955)	384
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2365
		396	-	Freq	Hahn	JCP	24 (1956)	921
		300-4000	G	Spec	Lindeman	SA	9 (1957)	47
		-	-	FC	Pistorius	JCP	28 (1958)	514
GeF_4	Germanium tetra-fluoride	-	G	Band study	Caunt	N	168 (1951)	557
		5-15 μ	G	Spec, Freq, Assign, FC	Caunt	TFS	48 (1952)	873
		-	-	Thermo.	Voelz	JCP	20 (1952)	1662
		2-38 μ	G	Spec, Freq, Assign	Woltz	JCP	20 (1952)	307
GeO	Germanium monoxide	-	-	FC	Baughan	TFS	53 (1957)	1046
		-	-	Spec	Dupuis	RTC	79 (1960)	518
$GeO.H_2O$	Germanium monoxide monohydrate	-	-	Spec, Struct	Dupuis	RTC	79 (1960)	518
GeO_2	Germanium dioxide	0.185-8.5 μ	-	Spec	Shaw	PR	51 (1937)	146
		300-1650	S	Spec	Kaiser	PR	100 (1956)	1264
		-	-	Freq	Cohen	PCS	7 (1958)	301
		300-4000	S	Spec, Assign, Freq	Lippincott	JRNB	61 (1958)	61
		2-15 μ	S	Freq, Spec	Shaw	JPC	64 (1960)	174
$GeO_2.H_2O$	Germanium dioxide monohydrate	-	-	Spec	Dupuis	RTC	79 (1960)	518
$Ge_2C_6H_{18}O$	Bistrimethylgermanium oxide	400-1500	L	Freq, Assign	Brown	SA	16 (1960)	595
$Ge_2C_{37}H_{30}O_2$	Triphenylgermyl triphenylgermane carboxylate	-	-	Ident	Brook	JACS	76 (1954)	77
Ge_6H_2	Digermane	-	-	FC	Gordy	JCP	14 (1946)	305
		400-4000	G,S	FC	Dows	JCP	24 (1956)	1029
		2078-2114	G	Spec, Freq	Dows	JCP	24 (1956)	1117
$Ge_3C_6H_{18}S_3$	Dimethylgermanium sulfide trimer	400-1500	S,Sol	Freq, Assign	Brown	SA	16 (1960)	595

Hf COMPOUNDS

HfH	Hafnium hydride	-	-	Force const.	Platt	JCP	18 (1950)	932
$HfN_4O_{12}\cdot 4H_2O$	Hafnium nitrate tetrahydrate	700–1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99

Hg COMPOUNDS

$HgCH_3Br$	Methyl mercury bromide	-	-	Microwave	Gordy	JCP	22 (1954)	92
$HgCH_3Cl$	Methyl mercury chloride	-	-	Microwave	Gordy	JCP	22 (1954)	92
$HgCClF_3S$	Trifluoromethyl thio mercuric chloride	-	-	Ident	Haszeldine	JCS	- (1953)	3219
$HgC_2H_3N_2S_2$	Mercuric rubeanate	400–4000	Sol	Struct	Barcelo	SA	10 (1958)	8245
HgC_2H_6	Dimethyl mercury	-	-	FC	Thompson	PRS	A160 (1937)	539
		-	-	Freq, Assign	Gutowasky	JCP	17 (1949)	128
		-	-	FC	Sheline	JCP	18 (1950)	602
$HgC_2H_8Cl_2N_2$	Mercury (II)-ethylenediamine complex chloride	280–5000	-	Struct	Brodersen	ZAUA	298 (1958)	142
$HgC_2F_6S_2$	Bis (trifluoromethyl thio) mercury	-	-	Ident	Haszeldine	JCS	- (1953)	3219
HgC_2N_2	Mercuric cyanide	-	-	FC	Linnett	JCS	- (1937)	1398
		2100–2800	S	Spec, FC, Freq, Struct	Jones	JCP	27 (1957)	665
		250–2200	-	Assign	Hidalgo	CPR	249 (1959)	223

		-	S,Sol	Struct	Poulet	CPR	249 (1959)	2079
		250-2200	S	Spec, Assign	Hidalgo	ARS	56A (1960)	9
		300-880	S	Spec	Miller	SA	16 (1960)	135
$HgC_2N_2S_2$	Mercuric thiocyanate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
		-	S	Freq, Assign	Mitchell	JCS	- (1960)	1912
$HgC_3H_3D_4IO$	1,1,2,2-Tetradeuterio-2-methoxy ethyl mercuric iodide	650-4000	S,L	Assign, Freq	Kreevoy	JACS	82 (1960)	6124
HgC_3H_5ClO	Acetonyl mercuric chloride	5-11 μ	Sol	Spec	Morton	JACS	73 (1951)	3300
HgC_3H_7IO	2-Methoxyethyl mercuric iodide	650-4000	S,L	Assign, Freq	Kreevoy	JACS	82 (1960)	6124
HgC_4H_8	Ethyl vinyl mercury	650-3500	L	Assign, Spec	Kaesz	SA	15 (1959)	360
$HgC_4H_8Cl_2O_2$	Mercury (II)-chloride dioxane complex	650-5000	S	Thermo.	Daasch	SA	15 (1959)	726
		500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
$HgC_4H_8Cl_2S_2$	Mercury (II)-dithiane chloride complex	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
HgC_4H_{10}	Diethyl mercury	-	-	FC	Thompson	PRS	160 (1937)	539
		650-3500	L	Assign, Spec	Kaesz	SA	15 (1959)	360
$HgC_4H_{10}Cl_2N_2$	Mercury (II)-chloride piperazine	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
HgC_4H_{15}	Divinyl mercury	650-3500	L	Spec, Assign	Kaesz	SA	15 (1959)	360
HgC_4N_4	Mercury (II)-tetra-cyanide complex ion	250-2200	S	Spec, Assign	Hidalgo	ARS	56A (1960)	9
$HgC_4N_4K_2$	Mercury (II)-cyanide complex (potassium salt)	-	S,Sol	Struct	Poulet	CPR	248 (1959)	2079

HgC_4N_4	Mercury (II)-tetra-cyanide complex ion	250-2200	S	Spec, Assign	Hidalgo	ARS	56A (1960)	9
$HgC_4N_4K_2$	Mercury (II)-cyanide complex (potassium salt)	-	S,Sol	Struct	Poulet	CPR	248 (1959)	2079
$HgC_4N_4S_4K_2$	Mercuric (II)-thio-cyanate complex (potassium salt)	-	S	Freq, Assign	Mitchell	JCS	- (1960)	1912
$HgC_5H_8Cl_2O_2$	Acetylacetone-mercuric chloride complex	650-1750	S	Spec, Struct	Paoloni	GCI	89 (1959)	2171
$HgC_6H_{13}O_5P$	Diethoxyphosphinyl mercuric acetate	-	-	Spec	Fox	JACS	75 (1953)	3967
$HgC_6H_{18}O_2Si_2$	Mercury (II)-trimethyl silanolate	2-16 μ	S	Spec	Tatlock	JOC	17 (1952)	1555
$HgC_6N_6K_4$	Mercury (II)-cyanide complex (potassium salt)	-	S,Sol	Struct	Poulet	CPR	248 (1959)	2079
HgC_8H_8	Phenylvinyl mercury	650-3500	L	Spec, Assign	Kaesz	SA	15 (1959)	360
$HgC_8H_{10}Cl_3N_3$	p-Dimethylaminobenzene diazonium Mercury (II)-chloride	3-14 μ	S	Freq	Gremillion	JACS	81 (1959)	6134
$HgC_8H_{16}Cl_2O_2S_2$	Mercury (II)-thioxane complex	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
$HgC_8H_{18}O_4P$	Mercury (I)-di-n-butyl phosphate	714-5000	S	Interaction study	Smith	JINC	9 (1959)	150
$HgC_{10}H_{12}N_2O_8Na_2 \cdot 2.5H_2O$	Mercury (II)-ethylene-diamine tetraacetic	800-1600	S	Freq, Assign	Sawyer	JACS	81 (1959)	816

$HgC_{10}H_{12}N_2O_8Na_2 \cdot 2.5H_2O$	Mercury (II)-ethylene-diamine tetraacetic acid complex (sodium salt) 2.5 hydrate	800-1800	S	Freq, Assign	Sawyer	JACS	81 (1959)	816
$HgC_{10}H_{21}O_5P$	Di-n-butylphosphinyl mercuric acetate	-	-	Spec	Fox	JACS	75 (1953)	3967
$HgC_{16}H_{36}O_8P_2$	Mercury (II)-di-n-butylphosphate	714-5000	S	Interaction study	Smith	JINC	9 (1959)	150
$HgC_{17}H_{20}I_3NO_3$	Morphine mercuric iodide	2-16 μ	S	Spec	Levi	AC	26 (1954)	1040
$HgC_{17}H_{28}O_8$	2-Acetoxymercurimethyl-5,6-bis-(2,2-dimethyl-1,3-dioxolan-4-yl)-p-dioxane	-	-	Reference	Rosen	JACS	77 (1955)	762
$HgC_{22}H_{42}N_4O_8S_2$	Pantethine mercuric mercaptide	-	-	Absorption	Wittle	JACS	75 (1953)	1694
$HgC_{30}H_{50}O_{12}$	Bis-[5,6-bis-(2,2-dimethyl-1,3-dioxolan-4-yl)-2-p-dioxonyl methyl]-mercury	-	-	Ident, Struct	Rosen	JACS	77 (1955)	762
$HgC_{36}H_{24}Cl_2N_6O_8$	Mercury (II)-1:10-phenanthroline complex perchlorate	600-2000	S	Spec	Schilt	JINC	9 (1959)	211
HgH	Mercury hydride	-	-	$^2\Pi$-type doubling theory	Mulliken	PR	38 (1931)	85
		-	-	Vibrations	Oldenberg	PR	37 (1931)	194
		-	-	Rotation	Oldenberg	PR	37 (1931)	1550
		-	-	Rotation-vibration coupling const.	Pekeris	PR	45 (1934)	98
		-	-	Thermo.	Hulburt	JCP	9 (1941)	61
		-	-	FC	Wu	PR	71 (1947)	118
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927

		-	-	Potential function	Glockler	JCP	20 (1952)	1448
		-	-	Potential function	Beckel	JCP	24 (1956)	553
HgH	Mercury hydride ion	-	-	Rotation-vibration coupling const.	Pekeris	PR	45 (1934)	98
HgH_2BrN	Mercuric amidobromide	2-35 μ	S	Assign	Nakagawa	SA	9 (1957)	199
$HgH_6Br_2N_2$	Mercury (II)-ammonia complex bromide	400-1600	S	NCA, Assign	Bertin	JACS	80 (1958)	525
HgH_6ClN_2	Mercury (I)-ammonia complex chloride	-	-	Freq	Wilmshurst	CJC	38 (1960)	467
$HgH_6Cl_2N_2$	Mercury (II)-ammonia complex chloride	400-1600	S	NCA, Assign	Bertin	JACS	80 (1958)	525
HgD	Mercury deuteride	-	-	Potential function	Beckel	JCP	24 (1956)	553
HgBrCl	Mercuric chloride bromide	-	-	Interaction theory	Duchesne	JCP	19 (1951)	1191
HgBrI	Mercuric bromide iodide	-	-	Interaction theory	Duchesne	JCP	19 (1951)	1191
$HgBr_2$	Mercuric bromide	-	-	Force field	Linnett	TFS	45 (1949)	844
		300-880	S	Spec	Miller	SA	16 (1960)	135
$HgCl_2$	Mercury monochloride	-	-	Residual rays	Schaefer	TFS	25 (1929)	841
		0-2.7 μ	-	Dispersion	Korff	RMP	4 (1932)	471
$HgCl_2$	Mercuric chloride	95 μ	S	Residual rays	Weniger	JOSA	7 (1923)	517
		117-300 μ	-	Dispersion	Korff	RMP	4 (1932)	471
		-	-	Force field	Linnett	TFS	45 (1949)	844
		322	-	Freq	Hahn	JCP	24 (1956)	921
		300-880	S	Spec	Miller	SA	16 (1960)	135
$HgCl_2^{35}$	Mercuric chloride (isotopic)	-	-	Isotope effect theory	Salant	PR	42 (1932)	812

$HgCl^{35}Cl^{37}$	Mercuric chloride (isotopic)	-	-	Isotope effect theory	Salant	PR	42 (1932)	812
$HgCl_4$	Mercuric tetrachloride ion	265	-	Freq	Hahn	JCP	24 (1956)	921
HgI_2	Mercuric iodide	-	-	Force field	Linnett	TFS	45 (1949)	844
		300-880	S	Spec	Miller	SA	16 (1960)	135
HgI_2O_6	Mercuric iodate	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429
$HgNO_3$	Mercurous nitrate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$HgNO_3.H_2O$	Mercurous nitrate monohydrate	700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
		300-880	S	Spec	Miller	SA	16 (1960)	135
HgN_2O_6	Mercuric nitrate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		2-15 μ	S	Spec	Addison	JCS	- (1960)	613
		700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
$HgN_2O_6.H_2O$	Mercuric nitrate monohydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
HgO_4S	Anhydrous mercury (II) sulfate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
HgS	Mercuric sulphide	300-880	S	Spec	Miller	SA	16 (1960)	135
HgSe	Mercuric selenide	0.8-15 μ	S	Assign	Redfield	BAPS	2 (1957)	121
$Hg_2C_6H_{14}Cl_4N_2$	Mercury (II) chloride dimethyl piperizine complex	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
Hg_2Cl_2	Mercurous chloride	91-118 μ	S	Residual rays	Weniger	JOSA	7 (1923)	517
		-	-	Residual rays	Schaefer	TFS	25 (1929)	841
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Hg_2I_2O_6$	Mercurous iodate	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429

$Hg_2N_2O_3$	Mercury (I)-nitrate	-	S	Band freq	Arora	JACS	73 (1951)	1015
Hg_2O_4S	Anhydrous mercury (I)-sulphate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Hg_3O_8P_2$	Mercuric orthophosphate	290-650	S	Assign	Duval	CPR	239 (1954)	249

In COMPOUNDS

$InC_{27}H_{18}N_3O_3$	Indium (III)-8-hydroxyquinolate	-	S	Spec	Charles	AC	25 (1953)	530
		8-15 μ	S	Assign, Spec	Charles	SA	8 (1956)	1
InH	Indium monohydrate	-	-	FC	Sheline	JCP	18 (1950)	927
$In^{115}Br^{79}$	Indium bromide (isotopic)	-	G	Microwave	Barrett	PR	99 (1955)	666
$In^{115}Br^{81}$	Indium bromide (isotopic)	-	G	Microwave	Barrett	PR	99 (1955)	666
$In^{115}Cl^{35}$	Indium chloride (isotopic)	-	G	Microwave	Barrett	PR	99 (1955)	666
		-	-	Spec, Mol. Const.	Barrett	PR	109 (1958)	1572
InF_6	Indium (IV)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
$In^{115}I^{127}$	Indium iodide	-	-	Spec, Mol. Const.	Barrett	PR	109 (1958)	1572
InAs	Indium arsenide	-	-	Spec	Briggs	PR	93 (1954)	912A
		-	-	Anomolous optical behavior	Hrostowski	PR	95 (1954)	1683
		-	-	Calculations	Matossi	ZN	139 (1958)	767
InSb	Indium antimonide	-	S	Spec	Tanenbaun	PR	91 (1953)	1561
		3.2-7 μ	S	Spec	Burstein	PR	93 (1954)	632

		-	-	Refrective index	Briggs	PR	93 (1954)	912
		7 μ	S	Spec	Kaiser	PR	94 (1954)	1431A
		1-6 μ	S	Transmission	Talley	PR	95 (1954)	1092
		1-8 μ	S	Spec	Hrostowski	PR	95 (1954)	1683
		1-15 μ	S	Spec	Breckenridge	PR	96 (1954)	571
		5-7 μ	S	Phovaltaic cell	Mitchell	PR	97 (1955)	239
		3-35 μ	S	Spec	Kaiser	PR	98 (1955)	966
		5-150 μ	S	Spec	Spikzer	PR	99 (1955)	1893
		20-200 μ	S	Reflectance curves	Yoshinaja	PR	100 (1955)	753
		5-11 μ	S	Spec	Kurnick	JAP	27 (1956)	278
		20-200 μ	S	Spec	Yoshinaja	PR	101 (1956)	526
		.14-.18 μ	S	Spec	Blount	PR	101 (1956)	563
		5-150 μ	S	Spec	Moss	PR	101 (1956)	1609
In_2Se_3	Indium selenide	2 μ	S	Photoconductivity	Bode	PR	76 (1949)	179A
In_2Te_3	Indium telluride	-	-	Activation energy	Harbeka	ZN	139 (1958)	775

Ir COMPOUNDS

IrC_6N_6	Iridium (III)-hexa-cyanide complex ion	250-2200	S	Spec, Assign	Hidalgo	ARS	56A (1960)	9
$IrC_6N_6K_3$	Iridium (III)-cyanide complex (potassium salt)	250-2700	-	Assign	Hidalgo	CPR	249 (1959)	233
IrF_4	Iridium tetrafluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
IrF_6	Iridium hexafluoride	2-40 μ	G	Freq, Assign	Mattraw	JCP	23 (1955)	985
		-	-	FC	Califano	AAN	25 (1959)	284
		2500-40000	G	Assign	Moffitt	MP	2 (1959)	109
		1300-1500	G	Assign, Freq	Classen	JCP	33 (1960)	436
$IrN_6O_{12}K_3$	Iridium (III)-nitrite complex (potassium salt)	-	-	Struct	Puget	CPR	250 (1960)	4141

K COMPOUNDS

$KCHF_3O_3P$	Potassium trifluoro-methylphosphonate	-	-	Group freq	Emeleus	JCS	- (1955)	563
$KCHN_6O_2$	Potassium 5-Nitroamino-tetrazole	2-15μ	S	Spec, Freq	Lieber	AC	23 (1951)	1594
$KCHO_3$	Potassium bicarbonate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		11-12.5μ	S	Spec	Underwood	JACS	77 (1955)	317
		600-4000	S	Assign	Braunholtz	JCS	- (1959)	868
		300-880	S	Spec	Miller	SA	16 (1960)	135
KCH_3O_3S	Potassium methyl sulfonate	-	L	Spec, Freq	Gerding	RTC	77 (1958)	374
KCH_4BrN_2S	Thiourea potassium bromide	2-40μ	S	Spec	Stewart	JCP	26 (1957)	248
KCH_4IN_2S	Thiourea potassium iodide	2-40μ	S	Spec	Stewart	JCP	26 (1957)	248
KCN	Potassium cyanide	4.3-5.4μ	Sol	Spec	Gordy	JCP	3 (1935)	664
		2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		2100	Sol	Spec	Jones	JCP	22 (1954)	965
		2020-2160	Sol	Spec	Penneman	JCP	24 (1956)	293
		-	S	Usage	Wiberly	AC	29 (1957)	210
		300-880	S	Spec	Miller	SA	16 (1960)	135
KCNO	Potassium cyanate	2.5-7.5μ	Sol	Spec	Gordy	JCP	3 (1935)	664
		2-14μ	Sol	Spec, Freq, Assign	Williams	JACS	62 (1940)	2442
		2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
KCNS	Potassium thiocyanate	2.5-7.5μ	Sol	Spec	Gordy	JCP	3 (1935)	664
		2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		2-15.5μ	S	Spec	Hacskaylo	AC	26 (1954)	1410
		2-14μ	S	Spec	Wiberley	AC	29 (1957)	210
		700-4400	S	Spec, Freq	Jones	JCP	28 (1958)	1234
		2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
		-	S	Spec, Struct	Tramer	CPH	249 (1959)	2931

		-	S	Spec, Struct	Tramer	CPR	249 (1959)	2531
		300-880	S	Spec	Miller	SA	16 (1960)	135
KCNS	Potassium isothiocyanate	400-4000	S	Spec	Waddington	JCS	- (1959)	2499
		-	S	Freq, Assign	Mitchell	JCS	- (1960)	1912
KCN_7	Potassium tetrazolylazide	2-15 μ	S	Spec, Freq	Lieber	AC	23 (1951)	1594
		2-15 μ	S	Spec, Freq	Lieber	JACS	73 (1951)	1313
$KC_2H_3OS_2$	Methyl potassium xanthate	2.8-15 μ	S	Spec	Pearson	APS	12 (1958)	116
$KC_2H_5O_2S$	Ethyl potassium oxyxanthate	2.8-15 μ	S	Spec	Pearson	APS	12 (1958)	116
$KC_2H_6O_4P$	Dimethyl potassium phosphate	-	-	Spec	Maarsen	RTC	76 (1957)	724
$KC_3H_5OS_2$	Potassium ethyl xanthate	2.8-15 μ	S	Spec	Pearson	APS	12 (1958)	116
KC_3H_9OSi	Potassium trimethyl silanolate	2-16 μ	S	Spec	Tatlock	JOC	17 (1952)	555
$KC_4H_2DO_4$	Potassium maleate-d_1	1200-5000	S	Spec, H bond	Cardwell	JCS	- (1953)	3740
$KC_4H_3O_4$	Potassium hydrogen maleate	1200-5000	S	Spec, H bond	Cardwell	JCS	- (1953)	3740
$KC_4H_4O_6Na.4H_2O$	Rochelle salt	-	-	Scattering	Langer	PR	33 (1929)	1100
		1.55-3.05 μ	S	Freq	Valasek	PR	45 (1934)	654
		4550-8100	S	Struct	Baker	JCP	27 (1957)	689
		-	S	Band study	Stekhanov	IANS	22 (1958)	1109
		-	-	H bond	Bernard	CPR	250 (1960)	3819
$KC_4H_7N_2O_3$	Potassium asparagine	2-9 μ	Sol	Spec, Freq	Jenecks	ABB	88 (1960)	193
$KC_4H_7OS_2$	Isopropyl potassium xanthate	2.8-15 μ	S	Spec	Pearson	APS	12 (1958)	116

$KC_4H_9O_2S$	Butyl potassium oxyxanthate	2.8-15 μ	S	Spec	Pearson	APS	12 (1958)	116
$KC_4H_{10}O_4P$	Diethyl potassium phosphate	-	-	Band freq	Bell	JACS	76 (1954)	5185
		-	-	Spec	Maarsen	RTC	76 (1957)	724
$KC_5H_3N_2O_4$	Potassium orotate	2-12 μ	Sol	Spec, Group freq, Assign	Lacher	JPC	59 (1955)	615
$KC_5H_6DO_4K$	Potassium glutarate-d_1	680-2500	-	Spec	Hadzi	NC	11 (1959)	715
$KC_5H_7O_2$	Potassium acetylaceto-nate	625-5000	S	Spec, Struct	West	JINC	5 (1958)	295
$KC_5H_7O_4$	Potassium glutarate	680-2500	-	Spec	Hadzi	NC	11 (1959)	715
$KC_5H_9N_2O_3$	Glutamine potassium salt	2-9 μ	Sol	Spec, Freq	Jencks	ABB	88 (1960)	193
$KC_5H_9OS_2$	Potassium butyl-xanthate	2.8-15 μ	S	Spec	Pearson	APS	12 (1958)	116
$KC_6H_2N_4O_6$	4,6-Dinitrobenzfuroxan potassium salt	4.8-8.3 μ	-	Spec, Freq	Gaughran	JACS	76 (1954)	2333
$KC_6H_4ClN_2O_3S$	Potassium o-chloro-benzenediazosulfonate	600-1800	S	Spec, Assign	LeFevre	AJC	6 (1953)	341
$KC_6H_4ClN_2O_3S$	Potassium p-chloro-benzenediazosulfonate	600-1800	S	Spec, Assign	LeFevre	AJC	6 (1953)	341
KC_6H_5	Phenyl potassium	600-4000	S	Spec, Freq, Assign	Lanpher	JOC	21 (1956)	830
$KC_6H_5N_2O$	cis-Potassium benzene diazotate	600-1800	S	Spec, Assign	LeFevre	AJC	6 (1953)	341
$KC_6H_5N_2O$	trans-Potassium benzene diazoate	600-1800	S	Spec, Assign	LeFevre	AJC	6 (1953)	341
$KC_6H_5O_2S$	Potassium benzene-sulphinate	700-3300	S	Struct, Assign, H bond	Detone	JCS	- (1955)	3163
$KC_6H_{11}O_2$	Potassium hexanoate (A form)	730-710	S	Freq	Chapman	JCS	- (1957)	4489

$KC_6H_{11}O_2$	Potassium hexanoate (A form)	730-710	S	Freq	Chapman	JCS	- (1957)	4489
$KC_6H_{14}O_4P$	Di-i-propylpotassium phosphate	-	-	Spec	Maarsen	RTC	76 (1957)	724
KC_7H_5OS	Potassium thiobenzoate	2.5-16μ	Sol	Struct	Nyquist	SA	15 (1959)	514
$KC_7H_5O_2$	Potassium benzoate	1554-1398	S	Band freq	Stimson	JCP	22 (1954)	1942
$KC_7H_6NO_2$	Potassium m-amino-benzoate	1566-1400	S	Band freq	Stimson	JCP	22 (1954)	1942
$KC_7H_6NO_2$	Potassium o-amino-benzoate	1535-1390	S	Band freq	Stimson	JCP	22 (1954)	1942
$KC_7H_6NO_2$	Potassium p-amino-benzoate	1555-1400	S	Band freq	Stimson	JCP	22 (1954)	1942
$KC_7H_7N_2O_2$	Potassium p-methoxy-benzenediazotate	600-1800	S	Spec, Assign	LeFevre	AJC	6 (1953)	341
$KC_7H_{11}O_2S$	Cyclohexyl potassium oxyxanthate	2.8-15μ	S	Spec	Pearson	APS	12 (1958)	116
$KC_8H_7O_2$	Potassium phenyl acetate	650-3500	S	Spec, Freq, H bond	Davies	JCS	- (1951)	2858
		-	-	Band study	Hales	JCS	- (1954)	3145
$KC_8H_9O_4$	Potassium penicillate	650-4000	S,Sol	Spec	Ford	JACS	72 (1950)	4529
KC_9H_6NO	Potassium 8-hydroxy-quinolate	-	S	Spec	Charles	AC	25 (1953)	530
		8-15μ	S	Spec, Assign	Charles	SA	8 (1956)	1
KC_9H_6NO	Potassium 2-quinolyl oxide	-	S	Spec, Struct	Gibson	JCS	- (1955)	4340
$KC_9H_{10}N_3O_8$	Potassium ethyl 1-methoxypicrate	-	S	Freq, Struct	Foster	JCS	- (1954)	2153

$KC_{10}H_5O_5S$	Potassium-1,2-naphthoquinone sulfonate	1600-1800	S	Group freq	Josien	JCP	21 (1953)	331
$KC_{10}H_{21}O_2S$	n-Decylpotassium oxyxanthate	2.8-15 μ	S	Spec	Pearson	APS	12 (1958)	116
$KC_{16}H_{15}O_4$	Potassium hydrogen bisphenylacetate	650-3500	S	Spec, Band freq, H bond, Struct, Group freq	Davies	JCS	- (1951)	2858
$KC_{18}H_{35}O_2$	Potassium stearate	-	-	Struct	Gray	JPCC	53 (1949)	23
		6-8 μ	S	Spec	Ellis	N	181 (1958)	181
$KC_{20}H_{15}O_5 \cdot H_2O$	Monopotassium phenolphthalein monohydrate (red salt)	1016-1746	-	Group freq, Struct	Davies	JCS	- (1954)	120
$KC_{20}H_{15}O_5 \cdot 2H_2O$	Monopotassium phenolphthalien dihydrate (white salt)	998-1730	-	Group freq	Davies	JCS	- (1954)	120
$KC_{24}H_{39}O_2$	Potassium 9-phenyl-stearate	-	S	Group freq	Kagarise	JPC	59 (1955)	271
KH	Potassium hydride	-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
		-	-	FC, Potential function	Lippincott	JCP	23 (1955)	1131
		-	-	FC	Baughan	TFS	53 (1957)	1046
KHF_2	Potassium hydrogen fluoride	-	-	H bond, Spec	Buswell	JCP	8 (1940)	362
		1-16 μ	-	Reflection	Kelelaar	JCP	9 (1941)	775
		-	-	Quant. Mech.	Glockler	JCP	10 (1942)	607
		-	-	Bond energy	Davies	JCP	15 (1947)	739
		-	-	Anal	Halverson	RMP	19 (1947)	87
		-	-	H bond, Thermo.	Westrum	JACS	71 (1949)	1940

		4.5-8.5 μ	S	Spec	Ketelaar	JCP	19	(1951)	654
		700-5800	S	Assign	Newman	JCP	19	(1951)	1207
		-	Sol	Spec, Assign	Jones	JCP	22	(1954)	781
		1200-1700	S	Spec	Ketelaar	JCP	24	(1956)	624
KHI_2O_6	Potassium hydrogen iodate	-	S	Spec, Struct	Dasent	JCS	-	(1960)	2429
KHO	Potassium hydroxide	2-4 μ	Sol	Spec	Angstrom	PR	3	(1914)	47
		1-3 μ	Sol	Spec	Grantham	PR	18	(1921)	339
		0.8-1.75 μ	Sol	Spec	Collins	PR	20	(1922)	486
		0.6-2.8 μ	Sol	Assign	Gordy	JCP	2	(1934)	621
		2.8-6 μ	Sol	Spec, Assign	Plyler	JCP	2	(1934)	470
		3-5.4 μ	Sol	Spec	Plyler	JCP	2	(1934)	565
		1.5-2.8 μ	-	Assign	Barr	JCP	4	(1936)	92
		50-150 μ	Sol	Band study	Cartwright	JCP	5	(1937)	776
		6-33 μ	G	Absorption	Spinar	SA	12	(1958)	244
		3000-5000	S	Spec	Buchanan	JCP	31	(1959)	870
		-	-	Struct	Ibera	JCP	33	(1960)	1164
		300-4000	S	Band freq	Snyder	JCP	33	(1960)	1171
KHO_4S	Potassium bisulfate	2-16 μ	S	Spec	Miller	AC	24	(1952)	1253
		600-4000	S	Group study	Braunholtz	JCS	-	(1959)	868
		300-880	S	Spec	Miller	SA	16	(1960)	135
KH_2NO_3S	Potassium sulfamate	500-4000	S	Assign	Vuagnat	JCP	26	(1957)	77
KH_2O_2P	Potassium phosphinate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	-	(1954)	493
KH_2O_4P	Potassium dihydrogen phosphate	1-25 μ	S	Spec	Oberly	JCP	20	(1952)	740
		1400-3500	-	H bond, Spec	Rundle	JCP	20	(1952)	1487
		2-16 μ	S	Spec	Miller	AC	24	(1952)	1253
		2-15 μ	S	Spec, I, Assign	Corbridge	JCS	-	(1954)	493
		400-10000	S	Spec, Assign	Murphy	JCP	22	(1954)	1322
		-	S	H bond	Pimental	JCP	24	(1956)	639
		300-3000	S	Freq, Spec	Blinc	MP	1	(1957)	391
		2-5 μ	S	Spec, H bond	Lazarer	BASU	21	(1957)	29
		600-4000	S	Group study	Braunholtz	JCS	-	(1959)	868
		1500-3000	-	Spec	Lazarev	FTT	2	(1960)	3026
		300-880	S	Spec	Miller	SA	16	(1960)	135

KH_2O_4As	Potassium dihydrogen arsenate	1-25μ	S	Spec	Oberly	JCP	20 (1952)	740
		2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		4000-10000	S	Spec, Assign	Murphy	JCP	22 (1954)	1322
		300-3000	S	Freq, Spec, Quant. Mech.	Blinc	MP	1 (1957)	391
		600-4000	S	Group study	Braunholtz	JCS	- (1959)	868
		300-880	S	Spec	Miller	SA	16 (1960)	135
KH_3NO_3P	Monopotassium phosphar amidate	2-15μ	S	Group freq	Corbridge	JCS	- (1954)	493
KH_4B	Potassium borohydride	600-4000	S	Comparison	Waddington	JCS	- (1958)	4783
KDF_2	Potassium hydrogen fluoride-d_1	1-16μ	-	Reflection	Kelelaar	JCP	9 (1941)	775
		-	-	Anal	Halverson	RMP	19 (1947)	87
		-	Sol	Spec, Assign	Jones	JCP	22 (1954)	781
KDO	Potassium hydroxide-d_1	3000-5000	S	Spec	Buchanan	JCP	31 (1959)	870
		-	-	Struct	Ibers	JCP	33 (1960)	1164
KD_2NO_3S	Potassium sulphamate-d_2	500-4000	S	Assign	Vuagnat	JCP	26 (1957)	77
KD_2O_4P	Potassium dihydrogen phosphate-d_2	1400-4500	-	H bond, Spec	Rundle	JCP	20 (1952)	1487
		300-3000	S	Freq, Spec, Quant. Mech.	Blinc	MP	1 (1957)	391
		1500-3000	S	Spec	Lazarev	FTT	2 (1960)	3026
KD_2O_4As	Potassium dihydrogen arsenate-d_2	300-3000	S	Freq, Spec, Quant. Mech.	Blinc	MP	1 (1957)	391
		600-4000	S	Group study	Braunholtz	JCS	- (1959)	868
KBr	Potassium bromide	-	S	Freq	Nichols	PR	21 (1923)	712A
		82μ	S	Residual rays	Weniger	JOSA	7 (1923)	517
		82.6μ	S	Residual rays	Schaefer	TFS	25 (1929)	841
		-	-	Crystal growing	Strong	PR	36 (1930)	1663
		22.9μ	S	Reflectivity	Strong	PR	37 (1931)	1565
		25-50μ	S	Transmission	Strong	PR	38 (1931)	1818
		0-8.7μ	-	Dispersion	Korff	RMP	4 (1932)	471
		-	-	Dispersion	Strong	PR	45 (1934)	877
		-	S	Filters	Barnes	PR	49 (1936)	732
		5-8μ	S	Films	Plummer	JOSA	26 (1936)	434
		50-150μ	Sol	Ionic theory	Cartwright	JCP	5 (1937)	475

50-150μ	Sol	Ionic theory	Cartwright	JCP	55 (1937)	776
-	-	Freq	Huggins	JCP	5 (1937)	143
-	S	Crystals	Stockbarger	JOSA	27 (1937)	416
-	-	Crystal growing	Chamberlain	hSI	9 (1938)	322
3-5.4μ	Sol	Spec	Plyler	JCP	6 (1938)	316
83μ	S	Residual rays	Seifert	hSI	11 (1940)	365
400-3000	S	Transmission	Wells	JAP	11 (1940)	137
-	S	Crystal growth	West	JOSA	35 (1945)	26
-	-	FC	Gordy	JCP	14 (1946)	305
-	S	Compar	Gore	JOSA	37 (1947)	23
24-34μ	S	Spec	Plyler	JhNB	41 (1948)	125
-	S	Review	Williams	hSI	19 (1948)	135
-	S	Bands	Burstein	Ph	76 (1949)	1254
0.2-15μ	S	Crystals	Friedman	JOSA	39 (1949)	795
-	-	Polarization	Szigeti	TFS	45 (1949)	155
100-600	S	Spec	McCurbin	JOSA	40 (1950)	537
-	S	Freq	Roberts	Ph	77 (1950)	258
-	-	Freq	Szigeti	PRS	204 (1950)	51
-	-	Freq	Rittner	JCP	19 (1951)	1030
1-25μ	S	Refr. index	Stephens	JOSA	42 (1952)	286
-	S	Calibration	Downie	JOSA	43 (1953)	941
-	S	Fabrication	Ryason	JOSA	43 (1953)	928
2-75μ	S	Spec	Schiedt	APS	7 (1953)	75
0.4-25μ	S	Refr. index	Stephens	JOSA	43 (1953)	110
-	-	Disk	Clauson-Kass	ACS	8 (1954)	1088
-	-	Pressed disk	Ford	JSI	31 (1954)	338
1-15μ	S	Filters	Gaunt	JSI	31 (1954)	315
2-15μ	S	Spec	Hausdorff	APS	8 (1954)	131
2-10μ	S	Temp.	Ingebrigtson	AC	26 (1954)	1765
-	S	Quant. Anal	Kirkland	AC	27 (1955)	1537
-	S	Filter	Menziers	AC	27 (1955)	327
-	S	I	Schiedt	AC	27 (1955)	318A
-	S	Reaction	Stewart	AC	27 (1955)	318A
-	-	FC	Baughar	TFS	53 (1957)	1046
-	S	Cells for volatile soln	Black	AC	29 (1957)	169
-	-	Spec	Brackett	JOSA	47 (1957)	636
50-5000	-	Spec	Lord	JOSA	47 (1957)	689
-	G	Freq	Rice	JCP	27 (1957)	573
2-14μ	S	Spec	Wiberly	AC	29 (1957)	210
450-3800	S	Freq	Frevel	SA	15 (1959)	557
17-55μ	S	Transmittance	Plyler	JRNB	64C (1960)	55

$KBrO_3$	Potassium bromate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
KCl	Potassium chloride	2-8 μ	S	Spec	Coblentz	BBS	7 (1911)	619
		1-2.1 μ	Sol	Spec	Callow	JCS	109 (1916)	55
		11.5-25 μ	S	Spec	Coblentz	JOSA	4 (1920)	432
		-	S	Dispersion	Marvin	PR	17 (1921)	412
		-	S	Freq	Nichols	PR	21 (1923)	712A
		107 μ	S	Transmission	Weniger	RSI	7 (1923)	517
		63.4 μ	S	Residual rays	Schaefer	TFS	25 (1929)	841
		-	-	Crystal growing	Strong	PR	36 (1930)	1663
		20-100 μ	-	Transmittivity	Strong	PR	38 (1931)	1818
		40-80 μ	S	Filters	Barnes	PR	43 (1933)	31
		35-120 μ	S	Spec	Barnes	JOSA	26 (1936)	428
		-	S	Filters	Barnes	PR	49 (1936)	732
		50-200 μ	-	Dispersion	Cartwright	PR	49 (1936)	101
		50-150 μ	Sol	Band freq	Cartwright	JCP	5 (1937)	776
		-	-	Theory	Huggins	JCP	5 (1937)	143
		3-5.4 μ	Sol	Spec	Plyler	JCP	6 (1938)	316
		63 μ	S	Residual rays	Seifert	RSI	11 (1940)	365
		-	S	Freq	Foldy	PR	60 (1941)	64A
		-	S	Freq	Iona	PR	60 (1941)	822
		-	-	FC, Bond dist.	Gordy	JCP	14 (1946)	305
		14-24 μ	S	Spec	Plyler	JRNB	41 (1948)	125
		0.5-1.3 μ	S	Bands	Bernstein	PR	76 (1949)	1254
		0.2-15 μ	S	Crystals	Friedman	JOSA	39 (1949)	795L
		-	-	Polarizability	Szigeti	TFS	45 (1949)	155
		-	S	Theory, Freq	Roberts	PR	77 (1950)	258
		-	-	Freq, Theory	Szigeti	PRS	204 (1950)	51
		-	-	Freq	Rittner	JCP	19 (1951)	1030
		-	-	Coupling	Duchesne	JCP	20 (1952)	1804
		-	S	Fabrication	Ryason	JOSA	43 (1953)	928
		2-15 μ	S	Spec	Schiedt	APS	7 (1953)	75
		-	-	Disk	Ford	JSI	31 (1954)	338
		1-15 μ	S	Filters	Gaunt	JSI	31 (1954)	315
		43-70 μ	S	Refl. curves	Keriakes	PR	98 (1955)	553
		-	S	Study	Lax	PR	97 (1955)	39
		-	S	Filters	Menzies	AC	27 (1955)	327A
		-	S	Reaction	Stewart	AC	27 (1955)	318A
		-	-	Band freq	Haas	PR	103 (1956)	564
		-	-	Thermo.	Baughan	TFS	53 (1957)	1046

		2-25μ	Sol	Spec	Falk	CJC	35 (1957)	1195
		-	-	Spec	Lord	JOSA	47 (1957)	689
		-	G	Spec	Rice	JCP	27 (1957)	573
		-	-	Mol. Const.	Garrison	LA	19 (1958)	546
		17-55μ	S	Transmittance	Plyler	JRNB	64C (1960)	55
KCl-ClNa	Sodium chloride - Potassium chloride - Mix crystal	-	-	Vib., Spec, Theory	Matossi	JCP	19 (1951)	161
$KClO_3$	Potassium chlorate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		1-15μ	S	Spec, Assign	Ramdas	PIAS	35 (1952)	249
		1-22μ	S	Assign	Ramdas	PIAS	37 (1953)	451
		300-880	S	Spec	Miller	SA	16 (1960)	135
$KClO_4$	Potassium perchlorate	-	S	Spec	Taylor	TFS	25 (1929)	830
		3-14.5μ	S	Spec, Assign	Taylor	TFS	25 (1929)	856
		400-1300	S	Spec	Cohn	JCS	- (1952)	4282
		2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		290-650	S	Assign	Duval	CPR	239 (1954)	249
		300-880	S	Spec	Miller	SA	16 (1960)	135
KCl_4B	Potassium tetrachloroborate	600-3500	S,L	Spec	Kynaston	JCS	- (1960)	1772
KI	Potassium iodide	-	-	Vib., Freq	Nichols	PR	21 (1923)	712
		82μ	S	Reflection faction	Weniger	JOSA	7 (1923)	517
		-	-	Crystal growing	Strong	PR	36 (1930)	1663
		25-50μ	S	Transmission	Strong	PR	37 (1931)	1565
		22.9μ	S	Reflectivity	Strong	PR	38 (1931)	1818
		8.7μ	-	Dispersion	Korff	TFS	4 (1932)	471
		-	-	Christianson filter	Barnes	PR	49 (1936)	732
		50-200μ	-	Absorption	Cartwright	PR	49 (1936)	101
		50-150μ	Sol	Absorption	Cartwright	JCP	5 (1937)	776
		-	-	Freq	Huggins	JCP	5 (1937)	143
		3-6.5μ	-	Spec	Plyler	PR	51 (1937)	1017
		3-5.4μ	Sol	Spec	Plyler	JCP	6 (1938)	316
		4.75μ	Sol	Absorption	Barr	JCP	7 (1939)	8
		94μ	S	Residual rays	Seffert	RSI	11 (1940)	365
		-	S	Crystal studies	West	JOSA	35 (1945)	26

		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Polarizability theory	Szigeti	TFS	45 (1949)	155
		-	-	Freq	Roberts	PR	77 (1950)	258
		-	-	Freq	Szigeti	PRS	204 (1950)	51
		-	-	Freq	Rittner	JCP	19 (1951)	1030
		2-15 μ	S	Spec	Schiedt	APS	7 (1953)	75
		-	-	Pressed disk	Ford	JSI	31 (1954)	338
		-	S	Reactions	Stewart	AC	27 (1955)	318
		-	-	FC	Baughan	TFS	53 (1957)	1046
		-	-	Freq	Rice	JCP	27 (1957)	573
KIO_3	Potassium icdate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		-	S	Spec, Struct	Dasent	JCS	- (1960)	2429
		300-880	S	Spec	Miller	SA	16 (1960)	135
KIO_4	Potassium periodate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		-	-	Freq, Struct	Siebert	ZAUA	303 (1960)	162
		300-880	S	Spec	Miller	SA	16 (1960)	135
KF	Potassium fluoride	94.1 μ	-	Residual rays	Schaefer	TFS	25 (1929)	841
		-	-	Freq	Huggins	JCP	5 (1937)	143
		3-6.5 μ	-	Solvent effect	Plyler	PR	51 (1937)	1017
		3-5.4 μ	Sol	Spec	Plyler	JCP	6 (1938)	316
		-	S	Freq	Roberts	PR	77 (1950)	258
		-	-	Freq	Rittner	JCP	19 (1951)	1030
		-	-	Pressed disk	Ford	JSI	31 (1954)	338
		-	-	FC	Baughan	TFS	53 (1957)	1046
KFO_3S	Potassium fluoro-sulfate	550-2400	S	Assign, Spec	Sharp	JCS	- (1957)	3761
		400-4000	S	Assign, Struct	Waddington	JCS	- (1960)	2339
KF_2	Potassium bifluoride	1100-6500	S	Spec, Assign	Cote	PRS	210 (1951)	206
KF_4B	Potassium borofluoride	-	-	Band study	Cote	PRS	210 (1951)	217
		400-1400	S	Spec, Freq, Assign	deLattre	JCP	20 (1952)	1180
		375-4000	S	Spec, Isotope effect	Greenwood	JCS	- (1959)	3811
		300-1500	S	Spec	Lecomte	CPR	249 (1959)	1991
		600-3500	S	Spec	Kynaston	JCS	- (1960)	1772
KF_6P	Potassium phosphorous hexafluoride	561-847	S	FC, Struct	deLattre	JCP	19 (1951)	1610
KF_2Si	Potassium fluoro-	488-735	-	Band study	deLattre	JCP	20 (1952)	1180

KF_6Si	Potassium fluoro-silicate	488-735	-	Band study	deLattre	JCP	20 (1952)	1180
KNO_2	Potassium nitrite	6-15μ	Sol	Struct	Williams	JACS	61 (1934)	2987
		2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		-	-	Freq, Assign	Newman	JCP	20 (1952)	444
		700-4000	S	Spec, FC, Freq	Weston	JCP	27 (1957)	683
		2-15μ	S	Assign	Greenberg	JCP	33 (1960)	900
		300-880	S	Spec	Miller	SA	16 (1960)	135
KNO_3	Potassium nitrate	2-14μ	Sol	Freq, Spec	Angstrom	PR	3 (1914)	47
		6-16μ	Sol	Freq	Williams	JACS	61 (1949)	1382
		2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		2-15μ	S	Spec	Lane	JCP	22 (1954)	1855
		2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
		1200-500	Sol	Freq	Vasenkov	IANS	22 (1958)	1125
		450-3800	Sol	Freq	Frevel	SA	15 (1959)	557
		-	S	Freq	Anbar	JCS	- (1960)	1242
		700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
		2-15μ	S	Assign	Greenberg	JCP	33 (1960)	900
		300-880	S	Spec	Miller	SA	16 (1960)	135
$KN^{14}O_3$	Potassium nitrate (isotopic)	800-840	S	Freq, Spec	Decius	JCP	22 (1954)	1941
		11.3-12.5μ	S	Spec, FC	Decius	JCP	23 (1955)	1290
$KN^{15}O_3$	Potassium nitrate (isotopic)	800-840	S	Freq, Spec	Decius	JCP	22 (1954)	1941
		11.3-12.5μ	S	Spec, FC	Decius	JCP	23 (1955)	1290
KN_2O_5S	Fermy's salt	650-1300	S	Struct, Assign	Griffith	JINC	7 (1958)	38
KN_3	Potassium azide	635-3100	S	Freq, FC	Gray	TFS	53 (1957)	901
KO_2	Potassium superoxide	-	S	Spec, Struct	Brame	JINC	4 (1957)	90
K_2	Potassium	-	G	Mol. Const.	Crane	PR	36 (1930)	421
		-	-	Franck-Condon diagram	Loomis	PR	39 (1932)	89
		0.96-1.17μ	S	Spec	Meggers	JRNB	10 (1933)	669
		-	-	Freq	Rosen	PR	43 (1933)	5
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	FC	Sutherland	JCP	8 (1940)	161

		-	-	Spec	Adel	PR	59 (1941)	915
		-	-	Thermo.	Hulburt	JCP	9 (1941)	61
		-	-	FC	Gordy	JCP	14 (1946)	305
$K_2HNO_7S_2$	Potassium hydroxyl-amine disulphonate	-	S	Assign, Struct, Spec	Yamoda	BCSJ	32 (1959)	721
$K_2CF_3O_3P$	Dipotassium trifluoro-methyl phosphonate	-	-	Freq	Emeleus	JCS	- (1955)	563
K_2CO_3	Potassium carbonate	5-12 μ	S	Emission	Pfund	JOSA	23 (1933)	270
		2.9-4 μ	Sol	Spec	Plyler	JCP	4 (1936)	157
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135
$K_2CO_3 \cdot \frac{1}{2}H_2O$	Potassium carbonate 1.5 hydrate	-	S	Band freq	Underwood	JACS	77 (1955)	317
$K_2C_2O_4 \cdot H_2O$	Potassium oxalate monohydrate	2-15 μ	S	Spec, Assign	Schmelz	SA	9 (1957)	51
$K_2C_3H_2O_4$	Dipotassium malonate	680-2500	-	Spec	Hadzi	NC	11 (1959)	715
$K_2C_3H_2O_4 \cdot xH_2O$	Dipotassium malonate polyhydrate	2-15 μ	S	Spec, Freq, Assign	Schmelz	JACS	81 (1959)	287
$K_2C_4H_3DO_4$	Dipotassium succinate-d_1	680-2500	-	Spec	Hadzi	NC	11 (1959)	715
$K_2C_4H_4O_4$	Dipotassium succinate	680-2500	-	Spec	Hadzi	NC	11 (1959)	715
$K_2C_4H_6N_2O_2$	Dipotassium dimethyl glyoximate	1800-3200	S	Spec, H bond	Blinc	JCS	- (1958)	4536
$K_2C_6H_2O_4$	Dipotassium 2,6-dihydroxy-1,4-benzoquinone	5-15 μ	S	Spec, Struct	Edwards	JAPC	10 (1960)	246

$K_2C_7H_5NO_9S_2$	Potassium-4-nitro-toluene-2,6-disulfonate	-	-	Ident	Morton	JACS	77 (1955)	3151
$K_2C_{18}H_{10}O_4$	Dipotassium salt of 2,5-dihydroxy-3,6-diphenyl-1,4-benzo-quinone	5-15μ	S	Spec, Struct	Edwards	JAPC	10 (1960)	246
$K_2C_{20}H_{12}O_4$	Dipotassium phenol-phthalein	1070-1800	S	Spec, Struct, Group freq	Davies	JCS	- (1954)	120
		-	-	Struct	Davies	JPR	15 (1954)	305
K_2HO_4P	Dipotassium phosphate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		2-15μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
		600-4000	S	Group study	Braunholtz	JCS	- (1959)	868
		650-5000	S	Spec	Pustinger	SA	15 (1959)	909
		300-880	S	Spec	Miller	SA	16 (1960)	135
		420-3600	-	Spec, H bond	Ryskin	OS	8 (1960)	606
$K_2HO_4P.3H_2O$	Potassium hydrogen phosphate trihydrate	420-3600	-	Spec, H bond	Ryskin	OS	8 (1960)	606
$K_2H_2O_7P_2$	Dipotassium dihydrogen pyrophosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$K_2H_3NO_6P_2$	Dipotassium dihydrogen imido diphosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$K_2H_6N_4O_8P_4$	Dipotassium tetra-phosphonitrilate	2-15μ	S	Spec	Corbridge	JCS	- (1954)	4555
K_2DO_4P	Dipotassium hydrogen phosphate-d_1	420-3600	-	Spec	Ryskin	OS	8 (1960)	606
K_2FO_3P	Dipotassium monofluoro phosphate	-	S	I, Freq	Corbridge	JCS	- (1954)	4555
		650-5000	S	Spec	Pustinger	SA	15 (1959)	909
K_2O_3	Dipotassium trioxide	-	S	Band study	Giguere	JACS	76 (1954)	5891

$K_2O_3S.2H_2O$	Potassium sulfite dihydrate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$K_2O_3S_2.H_2O$	Potassium thiosulfate monohydrate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
K_2O_3Si	Potassium metasilicate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
K_2O_4S	Potassium sulfate	8-10μ	L	Reflection	Plyler	PR	28 (1929)	284
		3-14.5μ	S	Spec, Assign	Taylor	TFS	25 (1929)	856
		-	-	Interpretation of spec	Duval	CPR	227 (1948)	1153
		2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		290-650	S	Assign	Duval	CPR	239 (1954)	249
		7.5-10.5μ	S	Spec, Anal	Tai	AC	29 (1957)	1430
		2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135
K_2O_4Se	Potassium selenate	220-3500	S	Spec, Struct	Duval	ZE	64 (1960)	582
$K_2O_4Se_2$	Potassium selenate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
$K_2O_5S_2$	Potassium metabisulfide	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		-	-	Struct	Taylor	JCP	28 (1958)	625
$K_2O_7S_2$	Potassium pyrosulfite	300-880	S	Spec	Miller	SA	16 (1960)	135
$K_2O_7B_4.5H_2O$	Potassium tetraborate pentahydrate	2-15μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$K_2O_8S_2$	Potassium persulfate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$K_3H_2N_2O_7P_3$	Potassium diimido trimetaphosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$K_3H_3N_3O_6P_3$	Potassium trimeta-phosphimate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909

$K_3H_3N_3O_6P_3$ + $K_3D_3N_3O_6P_3$	Potassium trimeta phosphimate + Potassium trimeta-phosphimate-d_3	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
K_3O_4P	Potassium orthophosphate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		-	-	FC	Pistorius	JCP	28 (1958)	514
		300-880	S	Spec	Miller	SA	16 (1960)	135
$K_4C_{10}H_{12}N_2O_8$	Ethylenediamine tetraacetic acid potassium salt	800-3000	S	Spec, Freq	Swayer	JACS	80 (1958)	1597
$K_4HNO_6P_2$	Potassium imido diphosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$K_4H_4N_4O_8P_4$	Potassium tetra-metaphosphimate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$K_4O_7P_2$	Tetrapotassium pyro-phosphate	2-15 μ	S	Spec, Assign, Freq, I	Corbridge	JCS	- (1954)	493
		1-40 μ	-	Spec, Freq	Mutschin	ZAC	160 (1958)	81
		-	Sol	Struct	Simon	ZAUA	301 (1959)	154
$K_4O_7P_2 \cdot xH_2O$	Tetrapotassium pyro-phosphate polyhydrate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$K_4O_8P_2 \cdot xH_2O$	Tetrapotassium peroxy-diphosphate polyhydrate	720-3270	S	I, Freq	Corbridge	JCS	- (1954)	4555
$K_5O_{10}P_3$	Pentapotassium tri-phosphate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493

La COMPOUNDS

LaC_2	Lanthanum carbide	-	-	Freq, Thermo.	Chupka	JPC	62 (1958)	611

$LaC_{15}H_{21}O_6$	Lanthanum acetyl acetonate	625-5000	S	Spec, Struct	West	JINC	5 (1958)	295
$LaC_{24}H_{54}O_{12}P_3$	Lanthanum-di-n-butyl phosphate	714-5000	S	Interaction study	Smith	JINC	9 (1959)	150
$LaC_{27}H_{18}N_3O_2$	Lanthanum (III)-8-hydroxyquinolate	- 8-15μ	S S	Spec Assign, Spec	Charles Charles	AC SA	25 (1953) 8 (1956)	530 1
$LaCl_3$	Lanthanum chloride	1-15μ	Sol	Spec	Lagerquist	AF	12 (1957)	491
LaF_3	Lanthanum fluoride	-	S	Spec	Freed	JCP	8 (1940)	840
LaF_4	Lanthanum (III)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
$LaN_3O_9 \cdot 5H_2O$	Lanthanum nitrate pentahydrate	700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
LaO_4P	Lanthanum ortho-phosphate	290-650	S	Assign	Duval	CPR	239 (1954)	249
La_2O_2S	Lanthanum oxysulfide	-	-	IR sens. phosphor and activators	Pitha	JACS	69 (1947)	1870

Li COMPOUNDS

$LiCH_3$	Methyl lithium	-	-	I, Struct	Rodinov	DANS	123 (1958)	113
LiC_2H_5	Ethyl lithium	- - -	- Sol Sol	I, Struct Spec Band study	Rodinov Nikiten Rodinov	DANS DANS DANS	123 (1958) 124 (1959) 125 (1959)	113 873 562
$LiC_2H_6O_2P$	Lithium dimethyl phosphinate	698-1420	S	I, Freq	Corbridge	JCS	- (1954)	4555
$LiC_3H_5O_4$	gem-Dihydroxy lithium propionate	600-3000	S	Freq, Spec	Anderson	SA	12 (1958)	233

$LiC_3H_5O_4 \cdot H_2O$	Lithiumpyruvate monohydrate	650-4000	S	Spec, Assign	Long	TFS	56 (1960)	1570
LiC_3H_7	Propyl lithium	-	Sol	Band study	Rodinov	DANS	125 (1959)	562
$LiC_3D_3O_3$	Lithium pyruvate-d_3	650-4000	S	Spec, Assign	Long	TFS	56 (1960)	1570
LiC_4H_9	Butyl lithium	-	-	I, Struct	Rodinov	DANS	123 (1958)	113
		-	Sol	Band study	Rodinov	DANS	125 (1959)	562
$LiC_5H_7O_2$	Lithium acetyl acetonate	625-5000	S	Spec, Struct	West	JINC	5 (1958)	295
LiC_5H_{11}	Amyl lithium	-	Sol	Band study	Rodinov	DANS	125 (1959)	562
LiC_6H_4I	p-Iodophenyl lithium	-	G,S	Spec	Rodinov	DANS	128 (1959)	728
LiC_6H_5	Phenyl lithium	625-900	Sol	Vibrations	Margoshes	SA	7 (1955)	14
		600-4000	S	Spec, Freq, Assign	Lanpher	JOC	21 (1956)	830
		-	-	I, Struct	Rodinov	DANS	123 (1958)	113
		-	G,S	Spec	Rodinov	DANS	128 (1959)	728
LiC_7H_7	p-Tolyl lithium	-	-	I, Struct	Rodinov	DANS	123 (1958)	113
LiC_7H_{11}	Amyl lithium acetylide	-	-	Spec, Struct, Freq	Shigorin	DANS	129 (1959)	121
LiC_7H_{11}	O-Tolyl lithium	-	-	I, Struct	Rodinov	DANS	123 (1958)	113
$LiC_8H_{18}O_4P$	Lithium-di-n-butyl phosphate	714-5000	S	Interaction study	Smith	JINC	9 (1959)	150
LiC_9H_{11}	Mesityl lithium	-	G,S	Spec	Rodinov	DANS	128 (1959)	728
$LiC_9H_{13}O_7$	Lithium-1,2-o-isopropylidene-D-glucofuranuronate	2-15μ	S	Spec	Tipson	JRNB	62 (1959)	257
$LiC_{10}H_7$	α-Naphthyl lithium	-	G,S	Spec, I, Struct	Rodinov	DANS	123 (1958)	113
		-	G,S	Spec	Rodinov	DANS	128 (1959)	728

$LiC_{10}H_7$	β-Naphthyl lithium	-	G,S	Spec	Rodinov	DANS	128 (1959)	728
$LiC_{12}H_{25}$	Dodecyl lithium	-	-	I, Struct	Rodinov	DANS	123 (1958)	113
		-	Sol	Band study	Rodinov	DANS	125 (1959)	562
$LiC_{16}H_{33}$	Hexadecyl lithium	-	Sol	Band study	Rodinov	DANS	125 (1959)	562
$LiC_{24}H_{39}O_2$	Lithium stearate	6-8μ	S	Spec	Ellis	N	181 (1958)	181
$LiC_{24}H_{39}O_2$	Lithium-9-phenyl stearate	-	S	Group study	Kagaraise	JPC	59 (1955)	271
LiH	Lithium hydride	-	-	Quant. Mech.	Hutchisson	PR	40 (1932)	340
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	L-uncoupling	Crawford	PR	45 (1934)	737
		-	-	Potential curve	Crawford	PR	49 (1936)	640
		-	-	Potential curve	Rosenbaum	JCP	6 (1938)	16
		-	-	FC	Sutherland	JCP	8 (1940)	161
		-	-	FC	Glockler	JCP	10 (1942)	606
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Interatomic distance	Wu	PR	71 (1947)	118
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
		-	-	FC	Mitra	JCP	22 (1954)	564
		970-1500	G	Spec	Klemperer	JCP	23 (1955)	2452
		-	-	FC	Baughan	TFS	53 (1957)	1046
		7μ	G	Vibrations	James	JCP	32 (1960)	728
LiHO	Lithium hydroxide	1-4μ	S	Spec	Grantham	PR	18 (1921)	339
		0.8-1.75μ	Sol	Spec	Collins	PR	20 (1922)	486
		0.6-2.8μ	Sol	Assign	Gordy	JCP	2 (1934)	621
		2.8-6μ	Sol	Spec, Assign	Plyler	JCP	2 (1934)	470
		-	S	Spec, Freq	Jones	JCP	22 (1954)	217
		6-33μ	G	No spec could be recorded	Spinar	SA	12 (1958)	244
		3000-5000	S	Spec	Buchanan	JCP	31 (1959)	870
		2500-8000	S	Spec, Assign	Wickersheim	JCP	31 (1959)	863
$LiHO.H_2O$	Lithium hydroxide hydrate	-	S	Spec, Freq	Jones	JCP	22 (1954)	217
		-	S	Spec	Drouard	CPR	249 (1959)	665

$LiHO.HDO$	Lithium hydroxide hydrate-d_1	-	S	Freq	Jones	JCP	22 (1954)	217
$LiHO.D_2O$	Lithium hydroxide hydrate-d_2	-	S	Freq	Jones	JCP	22 (1954)	217
LiH_2N	Lithium amide	3μ	S	Freq	Mason	JCS	- (1958)	3619
LiH_2O_2P	Lithium phosphinate	2-15μ	S	Group freq, I, Assign	Corbridge	JCS	- (1954)	493
LiH_4Al	Lithium aluminium hydride	3-15μ	Sol	Freq, Assign	Lippincott	JCP	17 (1949)	1351
		-	S,Sol	Spec	Dautel	ZE	64 (1960)	1234
LiH_4B	Lithium borohydrate	-	-	Freq	Price	JCP	17 (1949)	217
		2-14μ	S	Spec, Assign	Price	JCP	17 (1949)	1044
		600-4000	S	Comparison	Waddington	JCS	- (1958)	4783
LiD	Lithium hydride-d_1	-	-	Potential curve	Crawford	PR	49 (1936)	640
		-	-	FC	Glockler	JCP	10 (1942)	606
$LiDO$	Lithium hydroxide-d_1	-	S	Freq	Jones	JCP	22 (1954)	217
		3000-5000	S	Spec	Buchanan	JCP	31 (1959)	870
$LiBr$	Lithium bromide	-	-	Freq	Huggins	JCP	5 (1937)	143
		-	S	Freq	Roberts	PR	77 (1950)	258
		-	-	Freq	Rittner	JCP	19 (1951)	1030
		-	-	FC	Baughan	TFS	53 (1957)	1046
		700-465	G	Freq	Klemperer	JCP	26 (1957)	618
		-	-	Freq	Berkowitz	JCP	29 (1958)	1386
		570-630	G	Mol. Const.	Klemperer	JCP	33 (1960)	1534
$LiCl$	Lithium chloride	50-150μ	Sol	Absorption	Cartwright	JCP	5 (1937)	776
		-	-	Freq	Huggins	JCP	5 (1937)	143
		-	S	Freq	Roberts	PR	77 (1950)	258
		-	-	Freq	Rittner	JCP	19 (1951)	1030
		-	-	FC	Baughan	TFS	53 (1957)	1046
		425-700	G	Freq	Klemperer	JCP	26 (1957)	618
		-	-	Freq	Berkowitz	JCP	29 (1958)	1386
		570-630	G	Mol. Const.	Klemperer	JCP	33 (1960)	1534

$LiClO_4$	Lithium perchlorate	400-4000	Sol	Spec	Pullin	TFS	54 (1958)	11
LiF	Lithium fluoride	-	S	Freq	Nichols	PR	21 (1923)	712
		1-15 μ	S	Spec	Barnes	PR	49 (1936)	648
		-	-	Christianson filter	Barnes	PR	49 (1936)	732
		30-120 μ	S	Spec	Barnes	JOSA	26 (1936)	428
		-	-	Freq	Huggins	JCP	5 (1937)	143
		1-40 μ	S	Spec	Barnes	JOSA	28 (1938)	140
		0-6 μ	S	Dispersion	Wright	RSI	15 (1944)	22
		-	-	Comparison of prism	Gore	JOSA	37 (1947)	23
		16-25 μ	S	Reflection filter	Plyler	PR	72 (1947)	165
		14-25 μ	S	Reflection	Plyler	JOSA	37 (1947)	746
		2-14 μ	S	Spec	White	JOSA	37 (1947)	713
		-	S	Dispersion	Williams	RSI	19 (1948)	135
		-	-	Polarizability theory	Szigeti	TFS	45 (1949)	155
		-	S	Ident	Ballard	JOSA	40 (1950)	798
		0.3-2.5 μ	S	Refr. Index	Durie	JOSA	40 (1950)	878
		0-3 μ	S	Dispersion	Lecomte	JPR	11 (1950)	67
		100-600 μ	S	Spec	McCurbin	JOSA	40 (1950)	537
		-	S	Freq	Roberts	PR	77 (1950)	258
		-	-	Freq	Szigeti	PRS	204 (1950)	51
		-	S	Optical properties	Ballard	JOSA	41 (1951)	772
		-	-	Freq	Rittner	JCP	19 (1951)	1030
		0.4-6 μ	S	Refractive index	Tilton	JRNB	47 (1951)	25
		-	-	Calibration data	Downie	JOSA	43 (1953)	941
		-	-	Quant. Mech.	Benson	JCP	22 (1954)	469
		13-60 μ	S	Vibrations	Lax	PR	97 (1955)	39
		-	-	Mol. Const.	Haas	PR	103 (1956)	564
		-	-	FC	Baughan	TFS	53 (1957)	1046
		-	-	Spec	Brackett	JOSA	47 (1957)	636
		50-500	-	Spec	Lord	JOSA	47 (1957)	689
		825-860	G	Rotational struct	Vidale	JPC	64 (1960)	314
LiI	Lithium iodide	50-150 μ	Sol	Absorption	Cartwright	JCP	5 (1937)	776
		-	-	Freq	Huggins	JCP	5 (1937)	143
		-	S	Freq	Roberts	PR	77 (1950)	258
		-	-	Freq	Rittner	JCP	19 (1951)	1030
		-	-	Pressed disk	Ford	JSI	31 (1954)	338
		425-700	G	Freq	Klemperer	JCP	26 (1957)	618
		-	-	Freq	Berkowitz	JCP	29 (1958)	1366
		570-630	G	Mol. Const.	Klemperer	JCP	33 (1960)	1534

		-	-	Freq	Berkowitz	JCP	29 (1958)	1386
		570-630	G	Mol. Const.	Klemperer	JCP	33 (1960)	1534
$LiI.3H_2O$	Lithium iodide trihydrate	800-4000	S	Group study	Lucchesi	JACS	78 (1956)	1347
$LiIO_3$	Lithium iodate	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429
$LiNO_3$	Lithium nitrate	6-16μ	Sol	Freq	Williams	JACS	61 (1939)	1382
		2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
		450-3800	Sol	Freq	Frevel	SA	15 (1959)	557
		2-15μ	S	Assign	Greenberg	JCP	33 (1960)	900
		300-880	S	Spec	Miller	SA	16 (1960)	135
LiN_3	Lithium azide	635-3100	S	Freq, FC	Gray	TFS	53 (1957)	901
LiO_4SK	Potassium lithium sulfate	22-310μ	S	Reflectance & transmittance	Weniger	JOSA	7 (1923)	517
Li_2	Lithium	-	-	π-type doubling theory	Mulliken	PR	38 (1931)	85
		1.28-1.87μ	S	Spec	Meggers	JRNB	10 (1933)	669
		-	-	Freq	Rosen	PR	43 (1933)	5
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	Potential function	Linnett	TFS	36 (1940)	1123
		-	-	FC	Sutherland	JCP	8 (1940)	161
		-	-	Potential function	Clark	TFS	37 (1941)	299
		-	-	Thermo.	Hulburt	JCP	9 (1941)	61
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	FC	Wu	PR	71 (1947)	118
		-	-	FC	Baughan	TFS	53 (1957)	1046
		-	Sol	Spec	Fowles	JCS	- (1957)	3329
Li_2CO_3	Lithium carbonate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Li_2C_2H_3O_5P$	Dilithium acetyl phosphate	-	-	Freq	Ketelaar	RTC	78 (1959)	190

$Li_2C_2O_4$	Lithium oxalate	370-1650	S	Assign	Schmelz	SA	9 (1957)	51
$Li_2HPO_3 \cdot H_2O$	Dilithium orthophosphite monohydrate	2-15μ	S	Group freq, I, Assign	Corbridge	JCS	- (1954)	493
$Li_2FPO_3 \cdot 3H_2O$	Dilithium monofluorophosphate trihydrate	-	S	I, Freq	Corbridge	JCS	- (1954)	4555
Li_2O_2	Lithium peroxide	2-16μ	S	Spec, Struct	Brame	JINC	4 (1957)	90
$Li_2O_2 \cdot 8H_2O$	Lithium peroxide octahydrate	2-16μ	S	Spec, Struct	Brame	JINC	4 (1957)	90
Li_2O_4S	Lithium sulfate	7.5-10.5μ	S	Spec	Tai	AC	29 (1957)	1430
$Li_2O_4S \cdot H_2O$	Lithium sulfate monohydrate	2-16μ	S	Spec, Freq	Miller	AC	24 (1952)	1253
		2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135
Li_3O_4P	Trilithium orthophosphate	2-15μ	S	Spec, Assign, Freq, I	Corbridge	JCS	- (1954)	493
		650-290	S	Assign	Duval	CPR	239 (1954)	249
$Li_3O_4P \cdot \frac{1}{2}H_2O$	Lithium phosphate hemihydrate	2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
$Li_4O_7P_2 \cdot 2H_2O$	Tetralithium pyrophosphate dihydrate	2-15μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
$Li_4O_8P_2 \cdot xH_2O$	Tetralithium peroxy diphosphate polyhydrate	767-3220	S	I, Freq	Corbridge	JCS	- (1954)	4555

$MgCH_3O_3P$	Magnesium methyl phosphonate	770-1425	S	I, Group freq	Corbridge	JCS	- (1954)	4555
$MgCO_3$	Magnesium carbonate	0.8-20 μ 2-16 μ	S S	Reflectance Spec	Agnew Meloche	JOSA JINC	43 (1953) 6 (1958)	999 104
MgC_2H_5Br	Ethyl magnesium bromide	1-14 μ	Sol	Spec, Anal	Plum	JCP	5 (1937)	172
MgC_2H_5I	Ethyl magnesium iodide	1-13 μ	Sol	Spec, Struct	Plum	JCP	5 (1937)	172
$MgC_2O_4 \cdot 2H_2O$	Magnesium oxalate dihydrate	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
$MgC_4N_4K_2$	Magnesium (II)-cyanide complex (potassium salt)	250-2200	-	Assign	Hidalgo	CPR	249 (1959)	233
$MgC_5H_7O_2$	Acetylacetone magnesium chelate	-	Sol	Freq	Bellamy	JCS	- (1954)	4491
MgC_6H_5Br	Phenyl magnesium bromide	1-13 μ	Sol	Spec	Plum	JCP	5 (1937)	172
MgC_6H_5I	Phenyl magnesium iodide	1-13 μ	Sol	Spec	Plum	JCP	5 (1937)	172
$MgC_6Cl_6O_4$	Magnesium trichloro acrylate	700-1600	-	Spec	Duval	RTC	69 (1950)	391
$MgC_7H_5O_2$	Salicylaldehyde magnesium chelate	-	S	Group freq	Bellamy	JCS	- (1954)	4491

$gC_{10}H_{10}$	Magnesium cyclopentadiene	600-3200 4.7μ	S G	Spec Struct	Wilkinson Cotton	JINC JACS	2 (1956) 80 (1958)	95 269
$MgC_{10}H_{12}N_2O_8Na_2 \cdot 4H_2O$	Magnesium (II)-ethylenediamine tetraacetic acid complex (sodium salt) tetrahydrate	800-3000	S	Spec, Freq	Sawyer	JACS	80 (1958)	1597
$MgC_{10}H_{14}O_4$	Magnesium acetyl acetonate	625-5000	S	Spec, Struct	West	JINC	5 (1958)	295
$MgC_{14}H_{20}O_4$	Magnesium (II)-methylacroyl acetone complex	1200-1800	S	Assign, Mol. Const.	Charette	SA	16 (1960)	689
$MgC_{16}H_{28}O_4$	Magnesium (II)-pivaloyl acetone complex	1200-1800	S	Assign, Mol. Const.	Charette	SA	16 (1960)	689
$MgC_{18}H_{12}N_2O_2$	Magnesium (II)-8-hydroxyquinolate	- 2-16μ 8-15μ 700-800	S S S L	Spec Spec Assign, Spec Struct	Charles Stone Charles Sidorov	AC JACS SA OS	25 (1953) 76 (1954) 8 (1956) 6 (1959)	530 4997 1 812
$MgC_{18}H_{12}N_2O_2 \cdot 2H_2O$	Magnesium - 8-quinolinolate dihydrate	2-16μ	S	Spec	Stone	JACS	76 (1954)	4997
$MgC_{20}H_{16}N_2O_2$	2-Methyl-8-hydroxyquinoline magnesium (II) chelate	8-15μ	S	Assign, Spec	Charles	SA	8 (1956)	1
$MgC_{20}H_{16}N_2O_2$	4-Methyl-8-hydroxyquinoline magnesium (II) chelate	8-15μ	S	Assign, Spec	Charles	SA	8 (1956)	1

$MgC_{28}H_{28}N_4$	Magnesium octamethyl porphin	400-4000	S	Spec, H bond	Mason	JCS	- (1958)	976
$MgC_{36}H_{70}O_4$	Magnesium stearate	2-15μ	S	Spec	Kendall	APS	7 (1953)	179
		6-8μ	S	Spec	Ellis	N	181 (1958)	181
$MgC_{55}H_{70}N_4O_6$	Chlorophyll-b	640-3500	S,Sol	Spec, Freq, Assign	Weigl	JACS	75 (1953)	2173
$MgC_{55}H_{72}N_4O_5$	Chlorophyll-a	640-3500	S,Sol	Spec, Freq, Assign	Weigl	JACS	75 (1953)	2173
$MgC_{55}H_{72}N_4O_5$	Chlorophyll (Mixture of a and b)	0.776-2.83μ	Sol	Transmission curves	Nichols	PR	1 (1893)	1
		1.3-13.7μ	Sol	Band freq	Stair	Ph	33 (1929)	1092
		1-14μ	Sol	Spec	Stair	JRNB	11 (1933)	703
		1-14μ	-	Spec	Loofbourow	RMP	12 (1940)	267
		1-14μ	-	Spec	Aronoff	CR	47 (1950)	175
$MgC_{55}H_{76}N_4O_6$	Bacteriochlorophyll-a	630-3500	S,Sol	Spec, Freq, Assign	Weigl	JACS	75 (1953)	2173
$MgC_{1808}H_{3010}O_4$	Magnesium polymethacryl acetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
MgH	Magnesium hydride	-	-	π-type doubling theory	Mulliken	PR	38 (1931)	85
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		-	-	FC	Wu	PR	71 (1947)	118
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
		-	-	FC	Mitra	JCP	22 (1954)	564
MgH^+	Magnesium hydride ion	-	-	FC	Badger	JCP	22 (1934)	128
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
$MgHC_4P.3H_2O$	Magnesium hydrogen phosphate trihydrate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$MgH_2NO_3P.7H_2O$	Magnesium monoamido phosphate heptahydrate	-	-	Band study	Steiger	ZE	61 (1957)	1004

MgH_2O_2	Magnesium oxide hydrate (Brucite)	2-3.5 μ	S	Spec	Plyler	PR	28 (1926)	284
		2-4 μ	S	Struct	Randall	PR	31 (1928)	1131
		5-50 μ	S	Absorption	Cartwright	PR	35 (1930)	415
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
MgH_2O_2	Magnesium hydroxide	3000-5000	S	Spec, Freq	Benesi	JCP	30 (1959)	852
$MgH_3N_3O_6P_3Na.6H_2O$	Sodium magnesium triphosphonitrilate hexahydrate	823-3175	S	I, Freq	Corbridge	JCS	- (1954)	4555
$MgH_4NO_4P.6H_2O$	Magnesium ammonium orthophosphate hexahydrate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
$MgH_4O_8P_2$	Magnesium biphosphate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$MgH_4O_8P.6H_2O$	Magnesium phosphinate hexahydrate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
$MgH_6N_2O_6P_2$	Magnesium biphosphoramidate	-	-	Band study	Steiger	ZE	61 (1957)	1004
$MgBr_2$	Magnesium bromide	1-13 μ	Sol	Spec, Anal	Plum	JCP	5 (1937)	172
		-	G	Freq, FC	Randall	JPC	63 (1959)	758
$MgCl_2$	Magnesium chloride	0.8-2.3 μ	Sol	Spec	Collins	PR	20 (1922)	486
		220-700	G	Spec, FC	Buchler	JCP	29 (1958)	121
		-	G	Freq, FC	Randall	JPC	63 (1959)	758
$MgCl^{35}Cl^{37}$	Magnesium chloride (isotopic)	-	-	Isotope effect	Salant	PR	42 (1932)	812

$MgCl_2^{35}$	Magnesium chloride (isotopic)	-	-	Isotope effect	Salant	Ph	42 (1932)	812
$MgCl_2O_8$	Magnesium perchlorate	2-16μ	S	Spec, Qual. Anal	Miller	AC	24 (1952)	1253
		2-25μ	-	Spec, Struct	Falk	CJC	35 (1957)	1195
		300-880	S	Spec	Miller	SA	16 (1960)	135
MgF_2	Magnesium fluoride	-	-	FC	Badger	JCP	2 (1934)	128
		0.4-1.6μ	-	Reflection	Haas	JOSA	45 (1955)	945
		0.5-3.4μ	S	Reflectance	Rank	JOSA	45 (1955)	69
		-	S	Mol. Const.	Scott	JOSA	45 (1955)	69
MgF_4	Magnesium fluoride complex anion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
MgI_2	Magnesium iodide	-	-	Isotope effect	Salant	Ph	42 (1932)	812
MgN_2O_2	Magnesium hyponitrite	400-4000	S	Freq	LeFevre	AJC	10 (1957)	361
MgN_2O_6	Magnesium nitrate	0.8-2.3μ	Sol	Spec	Collins	Ph	20 (1922)	486
		2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
$MgN_2O_6 \cdot 6H_2O$	Magnesium nitrate hexahydrate	-	S	Spec	Hafele	ZP	148 (1957)	262
		700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
		300-880	S	Spec	Miller	SA	16 (1960)	135
MgO	Magnesium oxide	1-8μ	S	Emission	Coblentz	BBS	5 (1908)	159
		1-7μ	-	Filter transmission	Pfund	PR	37 (1930)	1565
		6.7-33μ	S	Transmission	Strong	PR	36 (1931)	71
		1-15.6μ	S	Transmission, Reflection	Barnes	PR	48 (1935)	582
		0.2-5μ	S	Optical properties	Strong	JOSA	25 (1935)	207
		35-120μ	S	Spec	Barnes	JOSA	26 (1936)	428
		1-13μ	S	Christianson filter	Barnes	PR	49 (1936)	732
		-	-	Use as window for HF	Wahrhaflig	JCP	8 (1940)	349

		2-14μ	S	Spec	White	JOSA	37 (1947)	713
		-	-	Quant. Mech.	Horning	JCP	16 (1948)	1063
		2-14μ	S	Spec, Struct	Willmott	N	162 (1948)	996
		100-600μ	S	Spec	McCurbin	JOSA	40 (1950)	537
		-	-	Freq	Szigeti	PRS	204 (1950)	51
		1-10μ	S	Transmission curve	Chasmar	JSI	28 (1951)	206
		9μ	S	Transmission	Young	JSI	28 (1951)	207
		0.4-2.7μ	S	Spec	Derksen	JOSA	42 (1952)	263
		1-8μ	S	Spec	Plyler	JOSA	42 (1952)	266
		0.36-5.35μ	S	Refr. Index	Stephens	JRNB	49 (1952)	249
		-	S	Refl. filter	Fastie	JOSA	43 (1953)	333
		1-21μ	Sol	Spec, Freq	Momin	PIAS	37 (1953)	254
		0.6-2.4μ	S	Reflectance, Spec	Sanders	JOSA	43 (1953)	58
		1-15μ	S	Reflectance	Gier	JOSA	44 (1954)	558
		8-40μ	S	Vib.	Lax	PR	97 (1955)	39
		-	-	Refraction index	Haas	PR	103 (1956)	564
		-	S	Spec, Hall effect	Yamaka	PR	101 (1956)	565
		-	-	Spec	Lord	JOSA	47 (1957)	689
$MgO_3S_2.6H_2O$	Magnesium thiosulfate hexahydrate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
MgO_3Si	Magnesium silicate	1-6μ	S	Spec	Coblentz	BBS	6 (1910)	301
		2-15μ	S	Spec	Harkins	AC	31 (1959)	541
MgO_4S	Magnesium sulfate	50-150μ	Sol	Band study	Cartwright	JCP	5 (1937)	776
		290-650	S	Assign	Duval	CPR	239 (1954)	249
		7.5-10.5μ	S	Spec	Tai	AC	29 (1957)	1430
$MgO_4S.7H_2O$	Magnesium sulfate heptahydrate	2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135
$MgO_4B_2.8H_2O$	Magnesium borite octahydrate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$MgO_4Cr.7H_2O$	Magnesium chromate heptahydrate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
MgO_4Fe_2	Magnesium ferrite	10-500	-	Reflection, Transmission	Mitsuishi	JPSJ	13 (1958)	1236

$MgO_4Se.6H_2O$	Magnesium selenate hexahydrate	220-3500	S	Spec, Struct	Duval	ZE	64 (1960)	582
MgS	Magnesium sulfide	0.83-1.35μ	S	Spec	Banks	JACS	72 (1950)	3173
$Mg_2C_4H_2O_{14}\cdot 5H_2O$	Basic magnesium carbonate polyhydrate	2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
$Mg_2P_2O_7$	Dimagnesium pyrophosphate	2-15μ	S	Group freq, I, Assign	Corbridge	JCS	- (1954)	493
$Mg_2O_{12}P_4$	Dimagnesium tetrametaphosphate	-	-	Freq, Struct	Steiger	ZAUA	294 (1958)	1
$Mg_2O_{12}P_4\cdot 8H_2O$	Dimagnesium tetrametaphosphate octahydrate	2-15μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
Mg_2Sn	Magnesium stannide	2-15μ	S	Spec	Blunt	PR	100 (1955)	663
$Mg_3O_8P_2$	Magnesium orthophosphate	2-15μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
		290-650	S	Assign	Duval	CPR	239 (1954)	249
$Mg_3O_8P_2\cdot 4H_2O$	Trimagnesium phosphate tetrahydrate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Mg_3O_8P_2\cdot 5H_2O$	Magnesium phosphate pentahydrate	2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
$Mg_3O_8As_2$	Magnesium arsenate	290-650	S	Assign	Duval	CPR	239 (1954)	249
$Mg_3O_{18}P_6\cdot 10H_2O$	Trimagnesium trimetaphosphate decahydrate	2-15μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
$Mg_4C_3H_2O_{11}\cdot 3H_2O$	Basic magnesium carbonate trihydrate	2-16μ	S	Spec	Hunt	AC	22 (1950)	1478
		2-16μ	S	Spec	Miller	AC	24 (1952)	1253

Mn COMPOUNDS

$MnCO_3$	Manganese carbonate	2-16μ	S	Spec	Meloche	JINC	6 (1958)	104

$MnC_4N_4S_4K_2.6H_2O$	Manganese (II)-isothiocyanate complex (potassium salt) hexahydrate	-	S	Freq, Assign	Mitchell	JCS	-	(1960)	1912
MnC_5HO_5	Manganese pentacarbonyl hydride	400-3000	G	Freq, Assign	Cotton	JCS	-	(1959)	833
MnC_5DO_5	Manganese pentacarbonyl hydride-d_1	400-3000	G	Freq, Assign	Cotton	JCS	-	(1959)	833
MnC_5BrO_5	Manganese pentacarbonyl bromide	1700-2200	-	Struct	Abel	JCS	-	(1959)	1501
MnC_5ClO_5	Manganese pentacarbonyl chloride	1700-2200	-	Struct	Abel	JCS	-	(1959)	1501
MnC_5IO_5	Manganese pentacarbonyl iodide	2-15 μ 1700-2200	S -	Spec Struct	Brimm Abel	JACS JCS	76 -	(1954) (1959)	3831 1501
MnC_5N_5	Manganese (II)-cyanide complex anion	450-2200	-	Freq	Caglioti	JINC	8	(1958)	87
$MnC_5N_6OK_3$	Manganese (II)-cyanide, nitric oxide complex (potassium salt)	1700-2050	S	Freq	Lewis	JINC	7	(1958)	32
$MnC_6H_{18}Br_2O_3S_3.6H_2O$	Manganese (II)-dimethylsulfoxide complex bromide hexahydrate	650-4000	S	Assign, Spec	Cotton	JPC	64	(1960)	1534
$MnC_6H_{18}Cl_2O_3S_3$	Manganese (II)-dimethylsulfoxide complex chloride	650-4000	S	Assign, Spec	Cotton	JPC	64	(1960)	1534
$MnC_6H_{18}Cl_3O_{15}S_3.4H_2O$	Manganese (II)-dimethylsulfoxide complex perchlorate tetrahydrate	650-4000	S	Assign, Spec	Cotton	JPC	64	(1960)	1534

MnC_6N_6	Manganese (I)-cyanide complex anion	-	S	Freq	Caglioti	AAN	22 (1957)	266
MnC_6N_6	Manganese (II)-cyanide complex anion	-	-	Freq	Caglioti	AAN	22 (1957)	266
		2000-2200	-	Freq	Caglioti	JINC	8 (1958)	87
		250-2200	S	Spec, Assign	Hidalgo	ARS	56 (1960)	9
MnC_6N_6	Manganese (III)-cyanide complex anion	-	-	Freq	Caglioti	AAN	22 (1957)	266
		2000-2200	-	Freq	Caglioti	JINC	8 (1958)	87
		250-2200	S	Spec, Assign	Hidalgo	ARS	56 (1960)	9
$MnC_6N_6K_3$	Manganese (III)-cyanide complex (potassium salt)	250-2200	-	Assign	Hidalgo	CPR	249 (1959)	233
$MnC_7H_5O_4$	π-Allyl manganese tetracarbonyl	-	-	Spec	Kaesz	ZN	15 (1960)	682
$MnC_7H_{13}N_3O_3$	Diethylene triamine manganese tricarbonyl	1700-2100	S	Assign	Abel	JCS	- (1959)	2323
$MnC_8H_5O_3$	Cyclopentadienyl tricarbonmonoxide manganese (I)	1700-2200	Sol	Spec, Struct	Cotton	JINC	1 (1955)	175
		600-5000	Sol	Spec, Config.	Piper	JINC	1 (1955)	165
$MnC_8H_5O_5$	σ-Allyl manganese pentacarbonyl	-	-	Spec	Kaesz	ZN	15 (1960)	682
$MnC_{10}H_7O_4$	(π-Acetylcyclopentadienyl) manganese tricarbonyl	657-3110	S	Freq	Cotton	CIL	- (1958)	1368
$MnC_{10}H_{10}$	Manganese cyclopentadiene	600-3200	S	Spec	Wilkinson	JINC	2 (1956)	95
$MnC_{10}H_{12}N_2O_8Na_2 \cdot 2H_2O$	Manganese (II)-ethylenediamine tetraacetic acid complex (sodium salt) dihydrate	800-1800	S	Freq, Assign	Sawyer	JACS	81 (1959)	816

$MnC_{12}H_{36}Cl_2O_{14}S_6$	Manganese (II)-dimethylsulfoxide complex perchlorate	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534
$MnC_{13}H_8IN_2O_3$	Manganese carbonmonoxide 2,2'-dipyridine complex iodide	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$MnC_{13}H_{10}IN_2O_3$	Manganese carbonmonoxide pyridine complex iodide	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$MnC_{14}H_{10}O_4$	Manganese (II)-tropolonate	-	S	Freq	Bryant	JOC	19 (1954)	1889
$MnC_{14}H_{20}O_4$	Manganese (II)-methacroyl acetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
$MnC_{16}H_{28}O_4$	Manganese (II)-pivaloyl acetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
$MnC_{16}H_{36}O_8P_2$	Manganese-di-n-butyl phosphate	714-5000	S	Interaction study	Smith	JINC	9 (1959)	150
$MnC_{18}H_{12}N_2O_2$	Manganese (II)-8-hydroxyquinolate	- 8-15μ	S S	Spec Assign, Spec	Charles Charles	AC SA	25 (1953) 8 (1956)	530 1
$MnC_{20}H_{16}N_2O_2$	2-Methyl-8-hydroxyquinoline manganese (II) chelate	8-15μ	S	Spec, Assign	Charles	SA	8 (1956)	1
$MnC_{20}H_{16}N_2O_2$	4-Methyl-8-hydroxyquinoline manganese (II) chelate	8-15μ	S	Spec, Assign	Charles	SA	8 (1956)	1

$MnC_{30}H_{24}Cl_2N_6O_8$	Manganese (II)-2,2'-bipyridine complex perchlorate	600-2000	S	Interpretation	Schilt	JINC	9 (1959)	211
$MnC_{36}H_{24}Cl_2N_6O_8$	Manganese (II)-1:10-phenanthroline complex perchlorate	600-2000	S	Spec	Schilt	JINC	9 (1959)	211
$MnC_{39}H_{30}BrO_3P_2$	Manganese carbonmonoxide triphenylphosphine complex bromide	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$MnC_{39}H_{30}BrO_3As_2$	Manganese carbonmonoxide, triphenylarsine complex bromide	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$MnC_{39}H_{30}ClO_3P_2$	Manganese carbonmonoxide triphenylphosphate complex chloride	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$MnC_{39}H_{30}ClO_3As_2$	Manganese carbonmonoxide triphenylarsine complex chloride	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$MnC_{39}H_{30}IO_3P_2$	Manganese carbonmonoxide triphenylphosphate complex iodide	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$MnC_{39}H_{30}IO_3As_2$	Manganese carbonmonoxide triphenylarsine complex iodide	1700-2200	-	Struct	Abel	JCS	- (1959)	1501

$MnC_{40}H_{36}Cl_2N_8O_8 \cdot 2H_2O$	Manganese (II)-1:10-phenanthroline complex perchlorate dihydrate	600-2000	S	Spec	Schilt	JIMC	9 (1959)	211
$MnC_{72}H_{60}Cl_2O_{12}P_4$	Manganese (II)-triphenylphosphine oxide complex perchlorate	900-1300	S	Freq	Cotton	JCS	- (1960)	2199
$MnC_{1808}H_{3010}O_4$	Manganese polymethacroylacetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
MnH	Manganese hydride	-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
$MnHO_4P \cdot 3H_2O$	Manganese hydrogen phosphate trihydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
MnH_4F_3N	Ammonium fluoride manganese fluoride	1400-4000	S	Spec	Crocket	JACS	82 (1960)	4158
$MnH_4O_4P_2$	Manganese phosphinate	2-15 μ	S	Group freq, I, Assign	Corbridge	JCS	- (1954)	493
$MnH_8Cl_2N_4$	Manganese (II)-hydrazine complex chloride	15-35 μ	-	Freq	Sacconi	N	186 (1960)	549
$MnH_8I_6N_{20}$	Ammonium manganese (IV) iodate	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429
$MnCl_2$	Manganese chloride	0.56-2.3 μ	Sol	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
		1-15 μ	Sol	Spec	Lagerquist	AF	12 (1957)	491
MnF_2	Manganese fluoride	-	-	Microwave	Portis	PR	116 (1959)	838
MnF_4	Manganese (IV)-tetrafluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
MnF_4	Manganese (II)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762

MnF_4	Manganese (III)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
MnF_5	Manganese (IV)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
$MnI_6O_{18}K_2$	Potassium manganese (IV) iodate	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429
MnN_2O_6	Manganese nitrate	2-15 μ	S	Spec	Addison	JCS	- (1960)	613
MnO	Manganous oxide	1-8 μ	S	Emission	Coblentz	BBS	5 (1908)	159
MnO_4	Permanganate ion	-	-	Freq	Taylor	TFS	25 (1929)	314
MnO_4S	Manganese sulfate	0-1.4 μ	Sol	Spec	Coblentz	BBS	7 (1911)	619
		0.8-1.25 μ	Sol	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
$MnO_4S.H_2O$	Manganese sulfate monohydrate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$MnO_4S.2H_2O$	Manganese sulfate dihydrate	2-16 μ	S	Spec, Freq	Miller	AC	24 (1952)	1253
$MnO_4S.xH_2O$	Manganese sulfate polyhydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
MnO_4K	Potassium permanganate	3-14.5 μ	S	Spec, Assign	Taylor	TFS	25 (1929)	856
		-	S	Freq	Taylor	TFS	25 (1929)	860
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		1000	S	Freq	Barraclough	JCS	- (1959)	3552
		300-880	S	Spec	Miller	SA	16 (1960)	135
$MnO_4Na.3H_2O$	Sodium permanganate trihydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$MnO_9B_4.8H_2O$	Manganese tetraborate octahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Mn_2C_5H_5NOS_2$		1700-2050	S	Freq	Lewis	JINC	7 (1958)	32

$Mn_2C_8Br_2O_8$	Manganese carbonyl bromide (binuclear)	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$Mn_2C_8Cl_2O_8$	Manganese carbonyl chloride (binuclear)	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$Mn_2C_8I_2O_8$	Manganese carbonyl iodide (binuclear)	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$Mn_2C_{10}O_{10}$	Manganese carbonmonoxide complex (binuclear)	450-3000	S,Sol	Spec, Struct	Cotton	JINC	2 (1956)	141
$Mn_2C_{14}H_{10}Cl_6N_2O_6Pt$	Cyclopentadienyldicarbomonoxidenitrosoniummanganese (I)-hexachloroplatinate	600-5000	Sol	Spec, Config., Struct	Piper	JINC	1 (1955)	165
$Mn_2C_{14}H_{10}Cl_6N_2O_{12}Pt$	Ethyl pentacarbonmonoxide nitrosonium manganese hexachloroplatinate	-	S	Freq	Lewis	JINC	7 (1958)	32
$Mn_2C_{15}H_{15}N_3O_3$	Manganese cyclopentadiene, nitric oxide complex	5.6-6.8 μ 1700-2050	Sol Sol	Struct, Freq Freq	Piper Lewis	JINC JINC	2 (1956) 7 (1958)	38 32
Mn_2O_8Ba	Barium permanganate	300-880	S	Spec	Miller	SA	16 (1960)	135
Mn_2O_8Ca	Calcium permanganate	300-880	S	Spec	Miller	SA	16 (1960)	135
$Mn_2O_8Ca.4H_2O$	Calcium permanganate tetrahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
$Mn_2O_{12}P_4.9H_2O$	Dimanganese tetrametaphosphate nonahydrate	2-16 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
$Mn_3O_8P_2$	Manganese orthophosphate	290-650	S	Assign	Duval	CPR	239 (1954)	249

$Mn_3O_8P_2 \cdot 7H_2O$	Trimanganesephosphate heptahydrate	2-16 μ 2-16 μ 300-880	S S S	Spec Comparison Spec	Miller Meloche Miller	AC JIMC SA	24 (1952) 6 (1958) 16 (1960)	1253 104 135
$Mn_3O_{18}P_6 \cdot 11H_2O$	Trimanganese trimeta-phosphate hendeca-hydrate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493

Mo COMPOUNDS

$MoC_3Cl_9O_3P_3$	Molybdenum carbon-monoxide phosphorous trichloride complex	1700-2100	Sol	Freq	Abel	JCS	- (1959)	2323
$MoC_3Cl_9O_3As_3$	Molybdenum carbon-monoxide arsenic trichloride complex	1700-2100	Sol	Freq	Abel	JCS	- (1959)	2323
$MoC_3Cl_9O_3Sb_3$	Molybdenum carbon-monoxide antimony trichloride complex	1700-2100	Sol	Freq	Abel	JCS	- (1959)	2323
$MoC_4H_4N_4O_4$	Molybdenum (IV)-cyanide, hydroxide complex (potassium salt)	800-3500	S	Freq, Assign, Struct	Griffith	JCS	- (1959)	872
$MoC_4H_4N_4O_4K_3 \cdot 2H_2O$	Molybdenum (V)-cyanide hydroxide complex (potassium salt) dihydrate	800-3500	S	Freq, Assign, Struct	Griffith	JCS	- (1959)	872
$MoC_5H_2N_6O_3K_4$	Molybdenum (III)-cyanide, hydroxide nitric oxide complex (potassium salt)	800-3500	S	Freq, Assign	Griffith	JCS	- (1959)	872

$MoC_5H_3N_5O_3K_4 \cdot xH_2O$	Molybdenum (IV)-cyanide, hydroxide complex (potassium salt) polyhydrate	800-3500	S	Freq, Assign, Struct	Griffith	JCS	- (1959)	872
$MoC_6H_{12}N_6S_3$	Molybdenum (0)-carbonmonoxide thiourea complex	-	S	Freq	Cotton	CIL	- (1960)	1219
$MoC_6H_{12}N_9S_6$	Molybdenum (III)-isothiocyanate complex (ammonium salt)	-	S	Freq, Assign	Mitchell	JCS	- (1960)	1912
MoC_6O_6	Molybdenum hexacarbonyl	2-40 μ	G,S	Spec, Assign, Thermo.	Hawkins	JCP	23 (1955)	2422
		-	-	NCA	Murata	JCP	27 (1957)	605
		-	-	Assign, Thermo., NCA	Kawai	BCSJ	33 (1960)	1008
$MoC_7H_5NO_3$	Molybdenum (I)-carbonmonoxide cyclopentadiene, nitric oxide complex	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
		1700-2050	Sol	Freq	Lewis	JINC	7 (1958)	32
$MoC_8H_5BrO_3$	Molybdenum (II)-carbonmonoxide, cyclopentadiene complex bromide	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
$MoC_8H_5ClO_3$	Molybdenum (II)-carbonmonoxide, cyclopentadiene complex bromide	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
$MoC_8H_5IO_3$	Molybdenum (II)-carbonmonoxide, cyclopentadiene complex iodide	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
$MoC_8H_6O_3$	Molybdenum (II)-carbonmonoxide, cyclopentadiene complex hydride	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104

$MoC_8N_8K_3$	Molybdenum (V)-cyanide complex (potassium salt)	2-32 μ	S	Spec, I	Brame	JINC	6 (1958)	99
$MoC_8N_8K_3 \cdot 2H_2O$	Molybdenum (V)-cyanide complex (potassium salt) dihydrate	2-32 μ	S	Spec, I	Brame	JINC	6 (1958)	99
$MoC_8N_8K_4$	Molybdenum (IV)-cyanide complex (potassium salt)	2-32 μ 250-2200	S -	Spec, I Assign	Brame Hidalgo	JINC CPR	6 (1958) 249 (1959)	99 233
$MoC_8N_8K_4 \cdot 2H_2O$	Molybdenum (IV)-cyanide complex (potassium salt) dihydrate	407-36 2-32 μ	S,Sol S	Spec Spec	Bonino Brame	AAN JINC	20 (1956) 6 (1958)	566 99
$MoC_9H_8O_3$	Molybdenum carbon-monoxide cyclopenta-diene, methyl complex	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
$MoC_9H_{18}O_3S_3$	Molybdenum carbon-monoxide dimethyl sulfide complex	-	Sol	Freq	Cotton	CIL	- (1960)	1219
$MoC_{10}H_{10}O_3$	Molybdenum carbon-monoxide cyclopenta-diene ethyl complex	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
$MoC_{10}H_{12}$	Cyclopentadienyl molybdenum hydride	-	S	Spec, Struct	Fritz	ZN	15 (1960)	419
$MoC_{11}H_{12}O_3$	Molybdenum carbon-monoxide cyclopenta-diene, isopropyl complex	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
$MoC_{14}H_8N_2O_4$	2,2'-Dipyridyl molybdenum tetra-carbonyl	1700-2100	Sol	Freq	Abel	JCS	- (1959)	2323

$MoC_{15}H_{24}C_3S_3$	Molybdenum (0)-carbon-monoxide, thiophene complex	-	Sol	Freq	Cotton	CIL	-	(1960)	1219
$MoC_{16}H_8N_2O_4$	O-Phenanthroline molybdenum tetra-carbonyl	1700-2100	Sol	Freq	Abel	JCS	-	(1959)	2323
$MoC_{18}H_{15}N_3O_3$	Molybdenum carbon-monoxide pyridine complex	1700-2100	Sol	Freq	Abel	JCS	-	(1959)	2323
$MoC_{21}H_{15}Cl_6O_3P_3$	Molybdenum carbon-monoxide phenyl phosphorous dichloride complex	1700-2100	Sol	Freq	Abel	JCS	-	(1959)	2323
$MoC_{21}H_{18}N_9S_6$	Molybdenum carbon-monoxide phenyl phosphorous dichloride complex	-	S	Assign	Mitchell	JCS	-	(1960)	1912
$MoC_{39}H_{30}Cl_3O_3P_3$	Molybdenum carbon-monoxide diphenyl phosphorous chloride complex	1700-2100	Sol	Freq	Abel	JCS	-	(1959)	2323
$MoC_{57}H_{45}O_3P_3$	Molybdenum carbon-monoxide triphenyl-phosphine complex	1700-2100	S	Freq	Abel	JCS	-	(1959)	2323
$MoC_{57}H_{45}O_3As_3$	Molybdenum carbon-monoxide triphenyl-arsine complex	1700-2100	S	Freq	Abel	JCS	-	(1959)	2323
$MoC_{57}H_{45}O_3Sb_3$	Molybdenum carbon-monoxide triphenyl-stibine complex	1700-2100	S	Freq	Abel	JCS	-	(1959)	2323
MoH	Molybdenum hydride	-	-	FC	Platt	JCP	18	(1950)	932

$MoH_8N_2O_4$	Ammonium molybdate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$MoCl_5OK_2$	Potassium molybdenyl pentachloride	1000	S	Freq	Barraclough	JCS	- (1959)	3552
MoF_4	Molybdenum tetra-fluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
MoF_6	Molybdenum hexafluoride	2-40 μ	G	Spec, Freq, Assign	Burke	JCP	20 (1952)	447
		400-5000	G	Spec, Assign, Thermo.	Gaunt	TFS	49 (1953)	1122
		-	-	FC	Gaunt	TFS	50 (1954)	546
		741	-	Freq	Hahn	JCP	24 (1956)	921
		-	-	FC	Califano	AAN	25 (1958)	284
		-	-	John-Teller effect	Weinstock	JCP	31 (1959)	262
MoF_7	Molybdenum (VI)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
MoO_3	Molybdenum trioxide	1000	S	Freq	Barraclough	JCS	- (1959)	3552
MoO_4	Molybdate ion	-	-	FC	Pistorius	JCP	28 (1958)	514
$MoO_4K.5H_2O$	Potassium molybdate pentahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$MoO_4Na_2.2H_2O$	Sodium molybdate dihydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
MoS_2	Molybdenum sulfide	1-10 μ	S	Transmission, Reflection	Crandall	PR	2 (1913)	343
		0.8-5.5 μ	S	Spec	Coblentz	BBS	14 (1918)	653
		0.5-2.4 μ	S	Optical properties	Coblentz	BBS	15 (1918)	121
		0.6-2 μ	S	Photoelectric properties	Coblentz	BBS	16 (1920)	595
		-	-	Photoelectric properties	Cobelentz	PR	15 (1920)	340
		0.6-2.0 μ	S	Photoelectric properties	Coblentz	BBS	18 (1922)	585
		0.4-1.4 μ	S	Thermo.	Coblentz	BBS	19 (1923)	375
		0.5-4 μ	S	Spec	Nix	RMP	4 (1932)	723

$Mo_2C_{10}H_2N_2O_{12}Na \cdot H_2O$	Molybdenum ethylene diamine tetraacetic acid complex (sodium salt) monohydrate	800-1800	S	Spec	Donald	JACS	82 (1960)	4191
$Mo_2C_{10}H_{12}N_2O_{14}Na_4 \cdot 8H_2O$	Molybdenum (VI)-ethylenediamine tetraacetic acid complex (sodium salt) octahydrate	800-1800	S	Spec	Donald	JACS	82 (1960)	4191
$Mo_2C_{15}H_{10}O_5$	Molybdenum cyclopentadienyl carbonyl	2-16 μ	S,Sol	Spec, Freq, Struct	Wilkinson	JACS	76 (1954)	209
		1700-2200	Sol	Spec, Struct	Cotton	JINC	1 (1955)	175
$Mo_2C_{26}H_{24}N_{10}O_4S_6$	Molybdenum-oxo,pyridinium ion, thiocyanate complex	-	S	Assign	Mitchell	JCS	- (1960)	1912
$Mo_7H_{24}N_6C_{24}$	Ammonium heptamolybdate	2-15.3 μ	S	Spec	Hacskaylo	AC	26 (1954)	1410
$Mo_7H_{24}N_6O_{24} \cdot 4H_2O$	Hexaammonium paramolybdate tetrahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135

Na COMPOUNDS

$NaCHF_3O_2P$	Sodium trifluoromethylphosphinate	-	-	Group freq	Bennett	JCS	- (1954)	3598
		-	-	Struct	Emeleus	JCS	- (1955)	563
$NaCHF_3O_2P$	Sodium trifluoromethyl acid phosphonite	-	-	Ident	Bennett	JCS	- (1954)	3896
$NaCHF_3O_3P$	Sodium trifluoromethyl phosphonate	-	-	Ident, Freq	Bennett	JCS	- (1954)	3896
		-	-	Group study	Emeleus	JCS	- (1955)	563
		-	-	Ident	Paul	JCS	- (1955)	574
$NaCHO_2$	Sodium formate	750-3200	S	IR, Assign	Newman	JCP	20 (1952)	1663
		-	-	Band study	Margoshes	JCP	22 (1954)	381
$NaCHO_3$	Sodium bicarbonate	2-16 μ	S	Spec, Anal	Miller	AC	24 (1952)	1253

$NaCHO_3$	Sodium bicarbonate	2-16 μ	S	Spec, Anal	Miller	AC	24 (1952)	1253
		-	-	H bond, Freq	Rundle	JCP	20 (1952)	1487
		11-12.5 μ	S	Spec, Freq	Underwood	JACS	77 (1955)	317
		-	S	H bond	Pimental	JCP	24 (1956)	639
		600-4000	S	Group study	Braunholtz	JCS	- (1959)	868
		300-880	S	Spec	Miller	SA	16 (1960)	135
$NaCH_2NO$	Sodium formamide	650-3800	S	Spec, Freq, Assign	Evans	JCP	22 (1954)	1228
$NaCH_3O_3S$	Sodium methylsulfonate	-	-	Freq	Haszeldine	JCS	- (1954)	4228
		7-10 μ	S	Assign	Haszeldine	JCS	- (1955)	2901
		-	L	Spec, FC	Gerding	RTC	77 (1958)	374
$NaCH_4BrN_2S$	Thiourea sodium bromide	2-40 μ	S	Spec	Stewart	JCP	26 (1957)	248
$NaCH_4IN_2S$	Thiourea sodium iodide	2-40 μ	S	Spec	Stewart	JCP	26 (1957)	248
$NaCF_3O_2S$	Sodium trifluoromethane sulphinate	9-10 μ	S	Assign	Haszeldine	JCS	- (1955)	2901
$NaCF_3O_3S$	Sodium trifluoromethane sulphonate	-	-	Group freq	Haszeldine	JCS	- (1954)	4228
		7-10 μ	S	Assign	Haszeldine	JCS	- (1955)	2901
NaCN	Sodium cyanide	2.5-7.5 μ	Sol	Spec	Gordy	JCP	3 (1935)	664
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		-	-	Usage	Wiberly	AC	29 (1957)	210
		2000-2500	S	Effect of heating	Rao	CIL	- (1958)	1436
		300-880	S	Spec	Miller	SA	16 (1960)	135
NaCNO	Sodium isocyanate	400-4000	S	Spec	Waddington	JCS	- (1959)	2499
NaCNS	Sodium thiocyanate	2.8-3.3 μ	Sol	Spec	Buswell	JPC	45 (1941)	543
		2-16 μ	S	Spec, Anal	Miller	AC	24 (1952)	1253
		-	S	Spec	Wiberly	AC	29 (1957)	210
		300-880	S	Spec	Miller	SA	16 (1960)	135
$NaCN_7$	Sodium tetrazolylazide	2-15 μ	S	Spec, Freq	Lieber	AC	23 (1951)	1594
$NaC_2HD_2O_2$	Sodium acetate-d_2	400-3100	S	Freq, Assign	Jones	JCP	22 (1954)	1796
$NaC_2H_2DO_2$	Sodium acetate-d_1	400-3100	S	Freq	Jones	JCP	22 (1954)	1796

$NaC_2H_2ClO_2$	Sodium chloroacetate	400–1800	S	Assign	Tsuboi	SA	12 (1958)	253
$NaC_2H_3O_2$	Sodium acetate	800–3000	S	Spec, Freq	Sawyer	JACS	80 (1958)	1597
$NaC_2H_3O_2 \cdot 3H_2O$	Sodium acetate trihydrate	2–15 μ	S	Spec	Childers	AC	27 (1955)	737
$NaC_2H_3O_3$	Sodium methyl carbonate	0.6–2.8 μ	Sol	Assign	Gordy	JCP	2 (1934)	621
		2.8–6 μ	Sol	Assign, Spec	Plyler	JCP	2 (1934)	470
		5.4–7.4 μ	S	Spec	Davies	JCP	6 (1938)	755
		4.75 μ	Sol	Abs.	Barr	JCP	7 (1939)	8
		1575	S	Freq	Flett	JCS	- (1948)	1441
		600–4000	Sol	Spec	Gore	AC	21 (1949)	382
		2–15 μ	-	Freq, Struct	Rasmussen	JACS	71 (1949)	1073
		-	-	Group freq	Hales	JCS	- (1954)	3145
		400–3100	S	Spec, Freq, Assign, FC	Jones	JCP	22 (1954)	1796
		-	-	Freq, Assign	Jones	JCP	23 (1955)	2105
		700–4000	S	IR, Freq, Assign	Wilmshurst	JCP	23 (1955)	2463
$NaC_2H_4NO_2$	Sodium glycinate	5–10 μ	Sol	Spec, Assign	Klotz	JPCC	52 (1948)	961
		600–4000	S,Sol	Spec	Gore	AC	21 (1949)	382
		400–1800	-	Assign	Tsuboi	SA	12 (1958)	253
$NaC_2H_5O_3S$	Sodium ethanesulfonate	-	-	Group freq	Haszeldine	JCS	- (1954)	4228
NaC_2H_6OP	Sodium dimethyl phosphinate	2–15 μ	S	Spec, Group freq, I	Corbridge	JCS	- (1954)	4555
$NaC_2H_6O_4P$	Dimethyl sodium phosphate	-	-	Spec	Maarsen	RTC	76 (1957)	724
$NaC_2D_3O_2$	Sodium acetate-d_3	400–3000	S	Spec, Freq, Assign	Jones	JCP	22 (1954)	1796
$NaC_2F_3O_2$	Sodium trifluoro-acetate	1067–1687	S	Freq	Fuson	JCP	20 (1952)	1627
		600–4000	S	Spec, H bond	Klemperer	JCP	22 (1954)	1399
$NaC_3H_2Cl_3O_2$	Sodium 2,2,3-trichloro-propionate	2.5–11 μ	Sol	Spec	Wright	APS	9 (1955)	105
		2.5–11 μ	Sol	Spec, Anal	Potts	AC	28 (1956)	1255
$NaC_3H_2Cl_2O_2$	Sodium 2,2-dichloro-	2.5–11 μ	Sol	Spec	Wright	APS	9 (1955)	105
					Potts	AC	28 (1956)	1255

$NaC_3H_3Cl_2O_2$	Sodium 2,2-dichloro-propionate	2.5-11 μ 2.5-11 μ	Sol Sol	Spec Spec, Anal	Wright Potts	APS AC	9 (1955) 28 (1956)	105 1255
$NaC_3H_3O_3$	Sodium pyruvate	650-4000	S	Spec, Assign	Long	TFS	56 (1960)	1570
$NaC_3H_4ClO_2$	Sodium 2-chloro-1, 3,5-triazine	2.5-11 μ 2.5-11 μ	Sol Sol	Spec Spec, Anal	Wright Potts	APS AC	9 (1955) 28 (1956)	105 1255
$NaC_3H_5F_3O_2PS$	Sodium ethyl trifluoro methyl phosphono-thioate	740-830	S	Assign	McIvor	CJC	37 (1959)	869
NaC_3H_5	Allylsodium	2-3 μ	Sol	Struct	Kwata	BCSJ	33 (1960)	1091
$NaC_3H_5O_2$	Sodium propionate	2-15 μ 7-9 μ	S S	Spec, Anal Anal	Childers Meikeljohn	AC AC	27 (1955) 29 (1957)	737 329
NaC_3H_6IO	Sodium iodide acetone complex	400-4000	S,L	Complex study	Yamada	BCSJ	33 (1960)	666
$NaC_3H_6NO_2$	dl-Sodium alanine	600-4000	S,Sol	Spec	Gore	AC	21 (1949)	382
$NaC_3H_7O_3S$	Sodium 1-propane-sulfonate	- 725-1300	- -	Group freq Ident	Haszeldine Marvel	JCS JACS	- (1954) 76 (1954)	4228 61
$NaC_3H_7O_4S$	Sodium propyl sulfate	5-10 μ	-	Spec, Assign	Klotz	JPCC	52 (1948)	961
$NaC_3H_8O_2PS$	Sodium ethyl hydrogen methyl thiophosphonate	-	-	Spec, Freq	Popov	ZOK	29 (1954)	1998
NaC_3H_9OSi	Sodium trimethyl silonate	2-16 μ	L	Spec	Tatlock	JOC	17 (1952)	555
NaC_3D_5	Perdeuteroallyl sodium	-	S	Struct	Lanpher	JACS	79 (1957)	5578
$NaC_3Cl_3O_2$	Sodium trichloro-acrylate	700-1600	-	Spec	Duval	RTC	69 (1950)	391
$NaC_4H_7O_2$	Sodium n-butyrate	2-15 μ 7-9 μ	S S	Spec Qual. Anal	Childers Meiklejohn	AC AC	27 (1955) 29 (1957)	737 329

$NaC_4H_8NO_2$	Sodium-DL-α-amino-butyrate	-	Sol,L	Spec	Takenishi	NKZ	81 (1960)	858
$NaC_4H_8NO_3$	dl-Threonine	600-4000 2-16 μ	Sol S	Spec Spec, Config.	Gore Bolhofer	AC JACS	21 (1949) 76 (1954)	382 1322
$NaC_4H_9O_3S$	Sodium butane sulfonate	-	-	Freq	Haszeldine	JCS	- (1954)	4228
$NaC_4H_{10}O_2PS$	Sodium ethyl hydrogen ethyl thiophosphate	-	-	Spec, Freq	Popov	ZOK	29 (1959)	1998
$NaC_4H_{10}O_2PS_2$	Sodium O,O-diethyl phosphorodithioate	740-1500	S	Assign	McIvor	CJC	37 (1959)	869
$NaC_4H_{10}O_3PS$	Diethyl sodium thio-phosphate	-	-	Spec, Freq	Popov	ZOK	29 (1959)	1998
$NaC_4H_{10}O_4P$	Diethyl sodium phosphate	-	-	Spec	Maarsen	RTC	76 (1957)	724
NaC_5H_4NO	Sodium 2-pyridyl oxide	-	S	Spec, Freq, Assign	Gibson	JCS	- (1955)	4340
$NaC_5H_7BrNO_2$	Sodium γ-bromoallyl-glycinate	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$NaC_5H_7ClNO_2$	Sodium γ-chloro-allylglycinate	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$NaC_5H_7O_2$	Sodium acetylacetonate	625-5000	S	Spec, Struct	West	JINC	5 (1958)	295
$NaC_5H_7O_3S$	8-Acetyl-β-mercapto-propionate, sodium salt	2-9 μ	Sol	Spec, Freq	Jencks	ABB	88 (1960)	193
$NaC_5H_8ClO_2$	Sodium DL-α-chloro-valerate	-	L,Sol	Spec, Assign	Takenishi	NKZ	81 (1960)	1382
$NaC_5H_8NO_2$	Sodium allyl glycinate	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
NaC_5H_9	Pentenyl sodium	-	S	Struct	Lanpher	JACS	79 (1957)	5578
$NaC_5H_9O_2$	Sodium n-valerate	2-15 μ	S	Spec	Childers	AC	27 (1955)	737

$NaC_5H_{10}NO_2$	Sodium valinate	5-10 μ	Sol	Spec, Assign	Klotz	JPCC	52 (1948)	961
$NaC_5H_{11}O_3S$	Sodium n-pentane-sulfonate	-	-	Freq	Haszeldine	JCS	- (1954)	4228
$NaC_6H_2Br_3N_2O_3S$	Sodium 2,4,6-tribromo-benzenediazosulfonate	600-1800	S	Spec, Assign	LeFevre	AJC	6 (1953)	341
$NaC_6H_2F_9O_6$	Sodium trifluoro-acetate ditrifluoro acetic acid	600-4000	S	Spec, H bond	Klemperer	JCP	22 (1954)	1399
$NaC_6H_3N_4O$	6-Hydroxy pteridine sodium salt	-	S	Freq, Struct	Albert	JCS	- (1952)	1620
$NaC_6H_4ClN_2O_3S$	cis-Sodium o-chloro-benzenediazosulfonate	600-1800	S	Spec, Struct	LeFevre	AJC	6 (1953)	341
$NaC_6H_4ClN_2O_3S$	trans-Sodium-o-chloro-benzenediazosulfonate	600-1800	S	Spec, Struct	LeFevre	AJC	6 (1953)	341
$NaC_6H_4ClN_2O_3S$	Sodium p-chlorobenzene diazosulfonate	600-1800	S	Spec, Struct	LeFevre	AJC	6 (1953)	341
$NaC_6H_4IN_2O_3S$	Sodium o-iodobenzene-diazosulfonate	600-1800	S	Spec, Struct	LeFevre	AJC	6 (1953)	341
$NaC_6H_4IN_2O_3S$	Sodium p-iodobenzene-diazosulfonate	600-1800	S	Spec, Struct	LeFevre	AJC	6 (1953)	341
$NaC_6H_4NO_3$	Sodium p-nitrophen-oxide	1300-1600	S	Struct	Kross	JACS	78 (1956)	4223
$NaC_6H_4N_3O_3$	Sodium p-nitrobenzene-diazotate	600-1800	S	Spec, Assign	LeFevre	AJC	6 (1953)	341
NaC_6H_5	Phenyl sodium	625-900	S	Vibrations	Margoshes	SA	7 (1955)	14
		600-4000	S	Spec, Freq assign	Lanpher	JOC	21 (1956)	830

NaC_6H_5O	Sodium phenoxide	970-1350	S	Spec, Struct, Assign	Davies	JCS	- (1954)	120
		-	-	Freq, I, Ident	Hales	JCS	- (1954)	3145
$NaC_6H_5O_2S$	Sodium benzenesulphinate	9-10 μ	S	Assign	Haszeldine	JCS	- (1955)	2901
$NaC_6H_5O_3S$	Sodium benzenesulphonate	8-15 μ	S	Spec, Ident	Bonner	JACS	73 (1951)	3701
		625-900	-	Vibrations	Margoshes	SA	7 (1955)	14
		12-15 μ	S	Freq	Kross	JACS	78 (1956)	1332
$NaC_6H_{10}NO_2$	Sodium γ-methylallyl-glycinate	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1386
$NaC_6H_{11}O_2$	Sodium caproate	5-10 μ	Sol	Spec, Assign	Kloty	JPCC	52 (1948)	961
		2-15 μ	S	Spec	Childers	AC	27 (1955)	737
		7-9 μ	S	Anal	Meiklejohn	AC	29 (1957)	329
$NaC_6H_{12}NO_2$	Sodium norleucinate	5-10 μ	-	Spec, Assign	Klotz	JPCC	52 (1948)	961
$NaC_6H_{14}O_4P$	Di-i-propyl sodium-phosphate	-	-	Spec	Maarsen	RTC	76 (1957)	724
$NaC_6H_{15}OSi$	Sodium triethyl silanolate	2-16 μ	S	Spec	Tatlock	JOC	17 (1952)	1555
$NaC_6D_2F_9O_6$	Sodium trifluoro-acetate ditrifluoro acetic acid-d_2	600-4000	S	Spec, H bond	Klemperer	JCP	22 (1954)	1399
$NaC_7H_4NO_4$	Sodium-p-nitrobenzoic acid	1300-1600	S,Sol	Struct	Kross	JACS	78 (1956)	4225
$NaC_7H_5Br_2N_2O_3S$	Sodium-4,6-dibromo-2-methylbenzenediazo sulphonate	600-1800	S	Spec, Assign	LeFevre	AJC	6 (1953)	341
$NaC_7H_5O_2$	Sodium benzoate	1380-1610	S	Spec, Assign, Struct	Davies	JCS	- (1954)	120
		-	-	Band freq	Hales	JCS	- (1954)	3145
		-	-	Band freq	Stimson	JCP	22 (1954)	1942
		625-900	-	CH out of plane	Margoshes	SA	7 (1955)	14
		12-15 μ	S	CH out of plane	Kross	JACS	78 (1956)	1332

$NaC_7H_5O_3$	Sodium salicylate	-	-	Band freq, I	Hales	JCS	-	(1954) 3145
$NaC_7H_6NO_2$	Sodium m-amino-benzoate	1563-1410	S	Band freq	Stimson	JCP	22	(1954) 1942
$NaC_7H_6NO_2$	Sodium o-amino-benzoate	1518-1398	S	Band freq	Stimson	JCP	22	(1954) 1942
$NaC_7H_6NO_2$	Sodium p-amino-benzoate	1540-1410	S	Band freq	Stimson	JCP	22	(1954) 1942
NaC_7H_7O	Benzyl anion (sodium salt)	2-3μ	Sol	Struct	Kuwata	BCSJ	33	(1960) 1091
$NaC_7H_7O_3$	p-Toluenesulfonic acid (sodium salt)	2-11μ	S	Spec	Waldock	JPC	56	(1952) 654
$NaC_8H_7O_3$	Sodium o-methoxy-benzoate	-	-	Band freq, I	Hales	JCS	-	(1954) 3145
$NaC_8H_7O_3$	Sodium methyl salicylate	-	-	Band freq, I	Hales	JCS	-	(1954) 3145
$NaC_8H_7O_3$	Vanillin sodium salt	600-4000	S	Spec, Freq	Herzert	JOC	25	(1960) 405
$NaC_8H_7O_4$	Sodium vanillate	600-4000	S	Spec, Freq	Herzert	JOC	25	(1960) 405
$NaC_8H_9O_3S$	Sodium 2-phenylethane sulphonate	400-4000	S,Sol	Spec	Freeman	AJC	10	(1957) 227
$NaC_8H_{15}O_2$	Sodium caprylate	600-1800	S	Spec	Chapman	JCS	-	(1958) 784
NaC_9H_6NO	Sodium 8-hydroxy-quinolate	-	S	Spec	Charles	AC	25	(1953) 530
$NaC_9H_9O_3$	Acetovanillone sodium salt	600-4000	S	Spec, Freq	Herzert	JOC	25	(1960) 405
$NaC_{10}H_{19}O_2$	Sodium caprate	650-1800	S	Spec	Chapman	JCS	-	(1958) 784
$NaC_{11}H_9O_5 \cdot 2H_2O$	Sodium gladiolate dihydrate	-	S	Freq	Grove	JCS	-	(1952) 3345

$NaC_{11}H_{14}O_6P$	Sodium diethyl-m-carboxyphenylphosphate	-	-	Freq, Assign	Ketelaar	RTC	78 (1959)	190
$NaC_{11}H_{14}O_6P$	Sodium diethyl-p-carboxyphenylphosphate	-	-	Freq, Assign	Ketelaar	RTC	78 (1959)	190
$NaC_{12}H_9N_2O_3S$	Sodium p-diphenyl diazosulphonate	600-1800	S	Spec assign	LeFevre	AJC	6 (1953)	341
$NaC_{12}H_{23}O_2$	Sodium laurate	650-1800	S	Spec	Chapman	JCS	- (1958)	784
$NaC_{12}H_{25}O_4S$	Sodium dodecyl sulfate	5-10 μ	-	Spec, Group assign	Klotz	JPCC	52 (1948)	961
$NaC_{13}H_8N_3O_5$	Sodium-p-nitrobenzene-azosalicylate	1300-1600	Sol	Struct	Kross	JACS	78 (1956)	4225
$NaC_{16}H_{17}N_2O_4S$	Sodium pencillin-G	400-3400	S	Spec, Anal	Barnes	AC	19 (1947)	620
$NaC_{16}H_{17}N_2O_5S$	Sodium pencillin-x	400-3400	S	Spec, Anal	Barnes	AC	19 (1947)	620
$NaC_{16}H_{19}O_5$	Glucanolsodium salt	-	-	-	Ham	JACS	76 (1954)	6066
$NaC_{16}H_{25}N_2O_4S$	Sodium n-heptyl pencillin	400-3400	S	Spec, Anal	Barnes	AC	19 (1947)	620
$NaC_{16}H_{31}O_2$	Sodium palmitate	650-1800 650-4000	S S	Spec, Heat effect Spec	Chapman Kawano	JCS NKZ	- (1958) 81 (1960)	784 1805
$NaC_{18}H_{15}OSi$	Sodium triphenyl silanolate	2-16 μ	S	Spec	Tatlock	JOC	17 (1952)	1555
$NaC_{18}H_{29}O_3S$	Sodium p-(1-butyloctyl) benzene sulfonate	2-16 μ	S	Spec, Group freq	Gray	JOC	20 (1955)	511
$NaC_{18}H_{29}O_3S$	Detergent sodium dodecyl benzene sulfonate	9.0-10.4 μ	Sol	Anal	Cirillo	AC	31 (1959)	959
$NaC_{18}H_{29}O_3S$	Sodium-m-dodecyl-benzene sulfonate	2-16 μ	S	Spec, Freq	Gray	JOC	20 (1955)	511

$NaC_{18}H_{29}O_3S$	Sodium-o-dodecyl-benzene sulfonate	2-16μ	S	Spec, Freq	Gray	JOC	20 (1955)	511
$NaC_{18}H_{29}O_3S$	Sodium-p-dodecyl-benzenesulfonate	2-16μ	S	Spec, Freq	Gray	JOC	20 (1955)	511
$NaC_{18}H_{31}O_4$	Sodium 9,14-diketo-stearate	600-3600	S	Ident	Davis	JACS	72 (1950)	124
$NaC_{18}H_{33}O_2$	cis-9-octadecenoic acid, sodium salt	-	-	Spec	Marron	AC	23 (1951)	548
$NaC_{18}H_{35}O_2$	Sodium stearate	650-1800	S	Spec	Chapman	JCS	- (1958)	784
		6-8μ	S	Spec	Ellis	N	181 (1958)	181
		650-4000	S	Spec	Kawano	NKZ	81 (1960)	1805
$NaC_{19}H_{31}O_3S$	Sodium-p-(1-methyl-dodecyl) benzene sulfonate	2-16μ	S	Spec, Group freq	Gray	JOC	20 (1955)	511
$NaC_{20}H_{17}O_8P_2$	Sodium-β-naphthyl-hydrogen phosphate-β-naphthyl dihydrogen phosphate complex	2-16μ	S	Spec	Friedman	JACS	73 (1951)	5292
$NaC_{24}H_{39}O_2$	Sodium 9-phenyl stearate	-	S	Group freq	Kagarise	JPC	59 (1955)	271
NaH	Sodium hydride	-	-	Vibrations	Dunham	PR	41 (1932)	721
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
		-	-	FC	Mitra	JCP	22 (1954)	564
		-	-	FC	Baughan	TFS	53 (1957)	1046
$NaHF_2$	Sodium hydrogen fluoride	-	S	Freq	Ketelaar	JCP	24 (1956)	624
NaHO	Sodium hydroxide	2-4 μ	Sol	Spec	Angstrom	Ph	3 (1914)	47
		1-3μ	Sol	Spec	Grantham	Ph	18 (1921)	339

		0.8-1.75 μ	Sol	Spec	Collins	PR	20 (1922)	486
		0.6-2.8 μ	Sol	Assign	Gordy	JCP	2 (1934)	621
		2.8-6 μ	Sol	Spec, Assign	Plyler	JCP	2 (1934)	470
		3-5.4 μ	Sol	Spec	Plyler	JCP	2 (1934)	565
		1.5-2.8 μ	-	Assign	Barr	JCP	4 (1936)	92
		2.6-6.6 μ	Sol	Spec	Plyler	JCP	4 (1936)	157
		4-5.2 μ	Sol	Spec	Williams	JCP	4 (1936)	251
		4.75 μ	Sol	Absorption	Barr	JCP	5 (1939)	8
		3400-3900	S	Spec, Struct	Busing	JCP	23 (1955)	933
		6-33 μ	G	Absorption	Spinar	SA	12 (1958)	244
		3000-5000	S	Spec	Buchanan	JCP	31 (1959)	870
$NaHO_3Se$	Sodium hydrogen selenite	-	S	Spec	Simon	ZE	64 (1960)	209
$NaHO_4S$	Sodium bisulfate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		2-25 μ	Sol	Spec	Falk	CJC	35 (1957)	1195
$NaHO_4S.H_2O$	Sodium bisulfate monohydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
NaH_2NO_3S	Sodium sulfamate	500-4000	S	Assign	Vuagnat	JCP	26 (1957)	77
NaH_2C_2P	Sodium phosphinate	2-15 μ	S	Freq, I	Corbridge	JCS	- (1954)	493
$NaH_2O_2P.H_2O$	Sodium phosphinate monohydrate	2-15 μ	S	Spec, Freq, I, Assign	Corbridge	JCS	- (1954)	493
		300-880	S	Spec	Miller	SA	16 (1960)	135
NaH_2O_4P	Sodium dihydrogen phosphate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
		300-3000	S	Freq, Spec	Blinc	MP	1 (1957)	391
		2-25 μ	Sol	Spec	Falk	CJC	35 (1957)	1195
		700-3300	S	Quant. Mech.	Blinc	MP	1 (1958)	391
		-	S	Band study	Stekhanov	IANS	22 (1958)	1109
$NaH_2O_4P.H_2O$	Sodium dihydrogen phosphate monohydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$NaH_2O_4P.2H_2O$	Sodium dihydrogen phosphate dihydrate	2-15 μ	S	Spec	Corbridge	JCS	- (1954)	493
		-	S	Spec, Struct	Stekhanov	FTT	2 (1960)	2932
NaH_2NO_4P	Monosodium phosphor-	2-15 μ	S	Spec	Corbridge	JCS	- (1954)	493
					Stekhanov	FT	61 (1957)	1904

NaH_3NO_3P	Monosodium phosphoramidate	2-15 μ	S	Spec	Corbridge	JCS	- (1954)	493
		-	-	Bond character	Steiger	ZE	61 (1957)	1004
$NaH_3O_7P_2$	Monosodium hydrogen pyrophosphate	1-40 μ	-	Spec	Mutschin	ZAC	160 (1958)	81
$NaH_4N_2O_8P_3$	Sodium diimidotriphosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
NaH_4B	Sodium borohydride	-	-	Freq	Price	JCP	17 (1949)	217
		2-14 μ	S	Spec	Price	JCP	17 (1949)	1044
		-	-	Spec	Stockmayer	JCP	21 (1953)	1311
		600-4000	S	Compar	Waddington	JCS	- (1958)	4783
$NaH_{12}ClN_4$	Tetramine sodium chloride	-	-	Freq	Wilmshrust	CJC	38 (1960)	467
$NaH_{12}IN_4$	Tetramine sodium iodide	-	-	Group freq	Leonard	JACS	77 (1955)	2029
$Na^+H_{12}N_4$	Tetramine sodium ion	-	-	Group freq	Leonard	JACS	77 (1955)	2029
NaD	Sodium deuteride	-	S	Freq	Sayre	JCP	18 (1950)	584
NaDO	Sodium hydroxide-d_1	6.2-8.6 μ	Sol	Spec	Plyler	JCP	9 (1936)	157
		2500-2800	S	Spec, Struct	Busing	JCP	23 (1955)	933
		3000-5000	S	Spec	Buchanan	JCP	31 (1959)	870
NaD_2NO_3S	Sodium sulphamate-d_2	500-4000	S	Assign	Vuagnat	JCP	26 (1957)	77
NaD_2O_4P	Sodium dihydrogen phosphate-d_2	300-3000	S	Freq, Spec	Blinc	MP	1 (1957)	391
		700-3300	S	Quant. Mech.	Blinc	MP	1 (1958)	391
NaBr	Sodium bromide	-	Sol	Spec	Plyler	JCP	2 (1934)	306
		-	S	Filter	Barnes	PR	49 (1936)	732
		-	-	Theory	Huggins	JCP	5 (1937)	143
		3-5.4 μ	Sol	Spec	Plyler	JCP	6 (1938)	316
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	Sol	Photoelectric effect	Ogg	JCP	14 (1946)	295
		-	-	Polarization	Szigeti	TFS	45 (1949)	155

		-	S	Theory	Roberts	PR	77	(1950)	258
		-	-	Freq	Szigeti	PRS	204	(1950)	51
		-	-	Theory	Rittner	JCP	19	(1951)	1030
		-	-	Disk	Ford	JSI	31	(1954)	338
		-	S	Reaction	Stewart	AC	27	(1955)	318A
		-	-	FC	Baughan	TFS	53	(1957)	1046
		-	G	Freq	Rice	JCP	27	(1957)	573
		-	-	Spec	Schoeffer	PCS	12	(1960)	233
$NaBr.2H_2O$	Sodium bromide dihydrate	2.8-33μ	Sol	Spec	Buswell	JPC	45	(1941)	543
		2-3μ	S	Absorption	Lyon	PR	61	(1942)	482
		3μ	S	Assign	Webben	PR	85	(1952)	755
$NaBrO_3$	Sodium bromate	2-16μ	S	Spec	Miller	AC	24	(1952)	1253
		300-880	S	Spec	Miller	SA	16	(1960)	135
NaCl	Sodium chloride	2-4μ	Sol	Spec	Angstrom	PR	3	(1914)	47
		1-13μ	S	Transmission	Gorton	PR	7	(1916)	66
		-	S	Residual rays	Hollnagel	PR	11	(1918)	135
		11-20μ	S	Spec	Coblentz	JOSA	4	(1920)	432
		-	S	Dispersion	Marvin	PR	17	(1921)	412
		0.8-2.3μ	Sol	Solute effect	Collins	PR	20	(1922)	486
		-	S	Absorp.	Brown	PR	21	(1923)	103
		-	S	Freq, Theory	Nichols	PR	21	(1923)	712A
		50-3000	S	Transmission	Weniger	RSI	7	(1923)	517
		0.3-7μ	S	Reflectance	Hulbert	RSI	17	(1928)	23
		52μ	S	Residual rays	Schaefer	TFS	25	(1929)	841
		-	-	Crystal growing	Strong	PR	36	(1930)	1663
		41-63μ	S	Emission	Strong	PR	38	(1931)	1818
		10-70μ	S	Reflection spec	Barnes	PR	39	(1932)	562
		0-8.7μ	-	Dispersion	Korff	RMP	4	(1932)	471
		10-70μ	S	Reflection	Barnes	PR	43	(1933)	31
		1.5-4μ	S	Effect of H_2O	Barnes	PR	44	(1933)	898
		0-16μ	S	Dispersion	Cross	RSI	4	(1933)	197
		1-10μ	S	Transmission	Pfund	JOSA	23	(1933)	375
		-	Sol	Spec	Plyler	JCP	2	(1934)	306
		-	-	Absorp.	Barnes	PR	48	(1935)	582
		35-120μ	S	Spec	Barnes	JOSA	26	(1936)	428
		1-10μ	S	Filter	Barnes	PR	49	(1936)	732
		2-4μ	S	Film	Plummer	JOSA	26	(1936)	434
		50-150μ	Sol	Band freq	Cartwright	JCP	5	(1937)	776
		3-6.5μ	-	Theory Solvent effect	Plyler	PR	51	(1937)	1017A

-	-	Theory	Huggins	JCP	5	(1937)	143
3-6.5μ	-	Solvent effect	Plyler	PR	51	(1937)	1017A
52μ	S	Residual rays	Seifer	RSI	11	(1940)	365
400-3000	S	Transmission	Wells	JAP	11	(1940)	137
2.8-33μ	Sol	Band spec	Buswell	JPC	45	(1941)	543
0-6μ	S	Dispersion	Wright	RSI	15	(1944)	22
160-300	L	Spec	Krishnan	N	156	(1945)	267
-	-	FC	Gordy	JCP	14	(1946)	305
-	S	Raman	Krishnan	PRS	187	(1946)	188
-	S	Compar.	Gore	JOSA	37	(1947)	23
-	S	Lattice vib.	Markham	PR	71	(1947)	473
-	-	Quant. Mech.	Hornig	JCP	16	(1948)	1063
-	S	Dispersion	Williams	RSI	19	(1948)	135
-	S	Bands	Bernstein	PR	76	(1949)	1254
-	-	Quant. Mech.	Rittner	JCP	17	(1949)	198
-	-	Polarization	Szigeti	TFS	45	(1949)	155
0-3μ	S	Dispersion	Lecomte	JPR	11	(1950)	67
100-600	S	Spec	McCurbin	JOSA	40	(1950)	537
-	S	Freq, Theory	Roberts	PR	77	(1950)	258
-	-	Freq, Theory	Szigeti	PRS	204	(1950)	51
-	-	Freq	Rittner	JCP	19	(1951)	1030
0-16μ	S	R. Ind.	Towler	JSI	28	(1951)	105
-	-	Calib.	Towler	JSI	29	(1952)	393
0.8-20μ	S	Reflectance	Agnew	JOSA	43	(1953)	823
0.8-20μ	S	Reflectance	Agnew	JOSA	43	(1953)	999
-	S	Grinding & Polishing	Baird	JOSA	43	(1953)	432
-	S	Calib.	Downie	JOSA	43	(1953)	941
2-15μ	S	Spec	Schiedt	APS	7No.2	(1953)	75
-	-	Disk	Ford	JSI	31	(1954)	338
35-70μ	S	Refl. Curves	Lax	PR	97	(1955)	39
-	S	Reaction	Stewart	AC	27	(1955)	318A
-	-	Dielectric Const.	Haas	PR	103	(1956)	564
-	-	FC	Baughan	TFS	53	(1957)	1046
-	-	Spec	Brackett	JOSA	47	(1957)	636
50-5000	-	Spec	Lord	JOSA	47	(1957)	689
-	G	Freq, Spec	Rice	JCP	27	(1957)	573
-	-	Spec, Freq	Berkowitz	JCP	29	(1958)	1386
100-300	S	Spec, Temp.	Haas	PR	117	(1960)	1497

		17-55 μ	S	Transmittance	Plyler	JRNB	64C (1960)	55
		-	-	Spec	Schaeffer	PCS	12 (1960)	233
$NaCl^{35}$	Sodium chloride	-	-	Spec	Garrison	DA	19 (1958)	546
$NaClO_2$	Sodium chlorite	-	-	Excited state	Duchesne	JCP	21 (1953)	2005
$NaClO_3$	Sodium chlorate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		1-22 μ	S	Assign	Ramdas	PIAS	37 (1953)	451
		460-3200	S	Freq, Assign	Hollenberg	SA	16 (1960)	1155
		300-880	S	Spec	Miller	SA	16 (1960)	135
$NaClO_4$	Sodium perchlorate	-	-	Struct rules	Couturejh	JCP	15 (1947)	153
$NaClO_4.H_2O$	Sodium perchlorate monohydrate	-	S	Spec	Miller	AC	24 (1952)	1253
		-	S	Spec	Miller	SA	16 (1960)	135
NaF	Sodium fluoride	-	S	Freq	Nichols	PR	21 (1923)	712
		-	-	Freq	Huggins	JCP	5 (1937)	143
		-	S	Polarizability	Szigeti	TFS	45 (1949)	155
		-	S	Freq	Szigeti	PRS	204 (1950)	51
		-	-	Freq	Roberts	PR	77 (1950)	258
		-	-	Freq	Rittner	JCP	19 (1951)	1030
		20-60 μ	S	Vib.	Lax	PR	97 (1955)	39
		1-8.2 μ	Sol	Spec	Maybury	JCP	23 (1955)	1277
		-	-	Mol. Const.	Haas	PR	103 (1956)	564
		-	-	Spec	Lord	JOSA	47 (1957)	689
$NaFO_3S$	Sodium fluoro-sulfate	550-2400	S	Assign, Spec	Sharp	JCS	- (1957)	3761
NaF_4B	Sodium boro-fluoride	400-1400	S	Spec, Assign, Freq	Cote	PRS	210 (1951)	217
NaI	Sodium iodide	-	-	Christianson filter	Barnes	PR	49 (1936)	732
		-	-	Freq	Huggins	JCP	5 (1937)	143
		-	S	Crystal studies	West	JOSA	35 (1945)	26
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Polarizability theory	Szigeti	TFS	45 (1949)	155

		-	-	Freq	Roberts	PR	77	(1950)	258
		-	-	Freq	Szigeti	PRS	204	(1950)	51
		-	-	Freq	Rittner	JCP	19	(1951)	1030
		-	-	Pressed disk	Ford	JSI	31	(1954)	338
		-	G	Freq, Spec, Mol. Const.	Rice	JCP	27	(1957)	573
$NaI.2H_2O$	Sodium iodide dihydrate	2.8-3.3 μ	Sol	Spec	Buswell	JPC	45	(1941)	543
		2.5 μ	S	Absorption	Lyon	PR	61	(1942)	482
$NaIO_3$	Sodium iodate	2-16 μ	S	Spec	Miller	AC	24	(1952)	1253
		-	S	Spec, Struct	Dasent	JCS	-	(1960)	2429
		300-880	S	Spec	Miller	SA	16	(1960)	135
$NaIO_4$	Sodium periodate	-	-	Freq, Struct	Siebert	ZAUA	303	(1960)	162
$NaNO_2$	Sodium nitrite	6-15 μ	Sol	Struct	Williams	JACS	61	(1939)	2987
		2-16 μ	S	Spec	Miller	AC	24	(1952)	1253
		750-3000	S	Spec, Assign	Newman	JCP	20	(1952)	444
		700-4000	S	Spec, Freq, FC	Weston	JCP	27	(1957)	683
		-	Sol	Spec	Tramer	CPR	248	(1959)	354
		2-15 μ	S	Assign	Greenberg	JCP	33	(1960)	900
		300-880	S	Spec	Miller	SA	16	(1960)	135
$NaN^{14}O_2$	Sodium nitrite (isotopic)	3-14 μ	S	Assign, Spec, FC, Freq	Sidman	JACS	79	(1957)	2675
$NaN^{15}O_2$	Sodium nitrite (isotopic)	3-14 μ	S	Assign, Spec, FC, Freq	Sidman	JACS	79	(1957)	2675
$NaNO_3$	Sodium nitrate	22-310	S	Reflection, Transmission	Weniger	JOSA	7	(1923)	517
		-	-	Residual rays	Shaefer	TFS	25	(1929)	841
		6-16 μ	Sol	Freq	Williams	JACS	61	(1939)	1382
		2.8-3.3 μ	Sol	Spec	Buswell	JPC	45	(1941)	543
		-	S	Crystal studies	West	JOSA	35	(1945)	26
		2.5-15 μ	S	Band study	Lawner	JOSA	42	(1952)	359
		2-16 μ	S	Spec	Miller	AC	24	(1952)	1253
		1-22 μ	S	Spec, Assign	Ramdas	PIAS	37	(1953)	441
		-	-	Absorption, Freq	Haas	P	22	(1956)	1286

		2-25 μ	Sol	Spec	Falk	CJC	35 (1957)	1195
		-	S	Spec	Hafele	ZP	148 (1957)	262
		3000-5000	S	Spec, Assign	Hexter	SA	10 (1958)	291
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		450-3800	Sol	Freq	Frevel	SA	15 (1959)	557
		-	S	Spec	Shultin	DANS	125 (1959)	767
		700-1500	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
		2-15 μ	S	Assign	Greenberg	JCP	33 (1960)	900
		300-880	S	Spec	Miller	SA	16 (1960)	135
$NaN^{14}O_3$	Sodium nitrate (isotopic)	800-840	S	Freq, Spec	Decius	JCP	22 (1954)	1941
$NaN^{15}O_3$	Sodium nitrate (isotopic)	800-840	S	Freq, Spec	Decius	JCP	22 (1954)	1941
NaN_3	Sodium azide	2-15 μ	S	Spec, Freq	Lieber	AC	23 (1951)	1594
		-	S	Freq	Lieber	JACS	73 (1951)	1313
		1.1 μ	S	Radiations	Rosenwasser	JCP	24 (1956)	184
		635-3100	S	Freq	Gray	TFS	53 (1957)	901
		300-880	S	Spec	Miller	SA	16 (1960)	135
NaO_2	Sodium superoxide	-	S	Spec, Struct	Brame	JINC	4 (1957)	90
NaO_2As	Sodium metaarsenate	2-16 μ	S	Spec, Anal	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
NaO_2B	Sodium metaborate	2-15 μ	S	Freq, Struct	Krogh	ARK	12 (1958)	475
$NaO_2B.2H_2O$	Sodium boride dihydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
$NaO_3B.4H_2O$	Sodiumperborate tetrahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135

Na_2	Sodium	1.07-1.14 μ	S	Spec	Meggers	JRNB	10	(1933)	669
		-	-	FC	Badger	JCP	2	(1934)	128
		-	-	Quant. Mech.	Stearn	JCP	2	(1934)	410
		-	-	FC	Sutherland	JCP	8	(1940)	161
		-	-	Spec	Adel	PR	59	(1941)	915
		-	-	Thermo.	Hulburt	JCP	9	(1941)	61
		-	-	FC	Gordy	JCP	14	(1946)	305
		-	-	Photoelectric effect	Ogg	JCP	14	(1946)	295
		-	-	FC	Wu	PR	71	(1947)	11
$Na_2CH_3OP.6H_2O$	Disodium methyl phosphonate hexahydrate	702-3230	S	Group freq	Corbridge	JCS	-	(1954)	4555
$Na_2CF_3O_3P$	Disodium trifluoromethyl phosphonate	-	-	Freq	Bennett	JCS	-	(1954)	3598
		-	-	Freq	Bennett	JCS	-	(1954)	3896
		-	-	Freq	Emeleus	JCS	-	(1955)	563
Na_2CO_3	Sodium carbonate	0.3-7 μ	S	Reflectance	Hulbert	JOSA	17	(1928)	23
		0.6-2.8 μ	Sol	Assign	Gordy	JCP	2	(1934)	621
		2.8-6 μ	Sol	Spec, Assign	Plyler	JCP	2	(1934)	470
		1.5-2.8 μ	Sol	Assign	Barr	JCP	4	(1936)	92
		2.6-6.6 μ	Sol	Spec	Plyler	JCP	4	(1936)	157
		3-16 μ	S	Spec	Miller	AC	24	(1952)	1253
		11-12.5 μ	S	Spec, Freq	Underwood	JACS	77	(1955)	317
		2-16 μ	S	Spec	Meloche	JINC	6	(1958)	104
		300-880	S	Spec	Miller	SA	16	(1960)	135
$Na_2C_2H_4O_6S_2$	Disodium ethylene disulfonic acid	-	-	Group freq	Haszeldine	JCS	-	(1954)	4228
$Na_2C_2N_{10}.5H_2O$	Disodium azotetrazolepentahydrate	2-15 μ	S	Spec, Freq	Lieber	AC	23	(1951)	1594
$Na_2C_2O_4$	Disodium oxalic acid	2-15 μ	S	Spec, Anal	Childers	AC	27	(1955)	737
		360-1640	S	Assign	Schmelz	SA	9	(1957)	51
$Na_2C_3H_2O_4$	Disodium malonate	2-15 μ	S	Spec, Anal	Childers	AC	27	(1955)	737
$Na_2C_3H_2O_4.H_2O$	Disodium malonate monohydrate	2-15 μ	S	Spec, Freq, Assign	Schmelz	JACS	81	(1959)	287

$Na_2C_4H_4O_4$	Disodium succinate	2-15 μ	S	Spec, Anal	Childers	AC	27 (1955)	737
$Na_2C_4H_6N_2O_2$	Disodium dimethyl glyoximate	1800-3200	S	Spec, Assign, H bond	Blinc	JCS	- (1958)	4536
$Na_2C_5H_6O_4$	Disodium glutarate	2-15 μ	S	Spec	Childers	AC	27 (1955)	737
$Na_2C_6H_6O_5S$	Disodium S-acetyl-thiomalate	2-9 μ	Sol	Spec, Freq	Jencks	ABB	88 (1960)	193
$Na_2C_7H_4O_3$	Disodium salicylate	-	-	Band freq, I	Hales	JCS	- (1954)	3145
$Na_2C_7H_{10}O_4$	Disodium pimelate	2-15 μ	S	Spec, Anal	Childers	AC	27 (1955)	737
$Na_2C_{10}H_4N_2O_8S$	Naphthol yellow S	5-12 μ	Sol	Spec	Gibson	JRNB	18 (1922)	121
$Na_2C_{10}H_{14}N_2O_8$	Disodium dihydrogen versenate	650-3500	S	Spec, Freq, I	Chapman	JCS	- (1955)	1766
$Na_2C_{10}H_{14}N_2O_8 \cdot 2H_2O$	Ethylenediamine tetra-acetic acid disodium salt dihydrate	800-3000	S	Spec, Freq	Sawyer	JACS	80 (1958)	1597
$Na_2C_{12}H_{10}O_2Si$	Disodium diphenyl-silanolate	2-16 μ	S	Spec	Tatlock	JOC	17 (1952)	1555
$Na_2C_{20}H_{10}O_5$	Uranine	1070-1800	S	Spec, Struct, Group freq	Davies	JCS	- (1954)	120
		-	-	Struct	Davies	JPR	15 (1954)	305
$Na_2C_{20}H_{12}O_4$	Phenolphthalein disodium salt	-	-	Struct	Davies	JPR	15 (1954)	305
$Na_2C_{20}H_{14}O_8$	2,5-Dihydroxy-3,6-bis-(p-methoxyphenyl) 1,4-benzoquinone disodium salt	5-15 μ	S	Spec, Struct	Edwards	JAPC	10 (1960)	246
Na_2HO_3P	Disodium orthophosphite	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
$Na_2HO_3P \cdot 5H_2O$	Disodium orthophosphite pentahydrate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493

$Na_2HO_3P.5H_2O$	Disodium orthophosphite pentahydrate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
Na_2HO_4P	Disodium orthophosphate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
$Na_2HO_4P.2H_2O$	Disodium orthophosphate dihydrate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
$Na_2HO_4P.12H_2O$	Disodium phosphate dodecahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
$Na_2HO_4As.7H_2O$	Disodium orthoarsenate heptahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Na_2H_2NO_3P$	Disodium monoamido phosphate	-	-	Band study	Steiger	ZE	61 (1957)	1004
		650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Na_2H_2O_6P_2.xH_2O$	Disodium dihydrogen hypophosphate monohydrate	2-15 μ	S	Spec, I, Freq	Corbridge	JCS	- (1954)	4555
$Na_2H_2O_7P_2$	Disodium hydrogen pyrophosphate	-	-	Freq	Bergman	JCS	- (1952)	847
		2-15 μ	S	Spec, I, Freq	Corbridge	JCS	- (1954)	493
		1-40 μ	-	Freq, Spec	Mutschin	ZAC	- (1958)	160
		-	-	Mol. Construction	Lecomte	CPR	249 (1959)	2681
		650-5000	S	Spec	Pustinger	SA	15 (1959)	909
Na_2FO_3P	Disodium monofluoro phosphate	-	S	I, Freq	Corbridge	JCS	- (1954)	4555
		650-5000	S	Spec	Pustinger	SA	15 (1959)	909
Na_2F_6Si	Sodium silicofluoride	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
Na_2O_2	Sodium peroxide	2-16 μ	S	Spec, Struct	Brame	JINC	4 (1957)	90
$Na_2O_2.8H_2O$	Sodium peroxide octahydrate	2-16 μ	S	Spec, Struct	Brame	JINC	4 (1957)	90
$Na_2O_2.8D_2O$	Sodium peroxide octahydrate-d_{16}	2-16 μ	S	Spec, Struct	Brame	JINC	4 (1957)	90
Na_2O_3S	Sodium sulfite	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253

		2-16 μ	S	Spec	Anderson	AC	25 (1953)	1906
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Na_2O_3S_2 \cdot 5H_2O$	Sodium thiosulfate pentahydrate	0.8-2.3 μ	Sol	Spec	Collins	PR	20 (1922)	486
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		0.6-2.7 μ	S	Dispersion	Vanderberg	AC	26 (1954)	428
		1000-1250	S	Spec, Struct	Hidaka	BCSJ	32 (1959)	1317
		300-880	S	Spec	Miller	SA	16 (1960)	135
Na_2O_3Si	Sodium metasilicate	2.8-6 μ	Sol	Spec, Assign	Plyler	JCP	2 (1934)	470
$Na_2O_3Si \cdot 5H_2O$	Sodium silicate pentahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
Na_2O_3Se	Sodium selenite	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
Na_2O_4S	Sodium sulfate	2-4 μ	Sol	Spec	Angstrom	PR	3 (1914)	47
		2.8-3.3 μ	Sol	Spec	Buswell	JPC	45 (1941)	543
		-	-	Interpretation of spec	Duval	CPR	227 (1948)	1153
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		7.5-10.5 μ	S	Spec	Tai	AC	29 (1957)	1430
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Na_2O_4S \cdot xH_2O$	Sodium sulfate polyhydrate	0.9-1.13 μ	Sol	Band study	Hulburt	JPC	21 (1917)	5345
$Na_2O_4B_2$	Sodium metaborate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
Na_2O_4Se	Sodium selenate	220-3500	S	Spec	Duval	ZE	64 (1960)	582
$Na_2O_4Se \cdot 10H_2O$	Sodium selenate decahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
Na_2O_2S	Sodium metabisulfate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Na_2O_5Se_2$	Sodium pyroselenite	-	S	Freq	Simon	ZAUA	303 (1960)	39

$Na_2O_6P_2K_2 \cdot 10H_2O$	Dipotassium disodium hypophosphate decahydrate	750-3275	S	I, Freq	Corbridge	JCS	- (1954)	4555
$Na_2O_7B_4$	Sodium tetraborate	2.8-6 μ	Sol	Spec, Assign	Plyler	JCP	2 (1934)	470
		2-15 μ	S	Freq, Struct	Krogh-Mol	ArK	12 (1958)	475
$Na_2O_7B_4 \cdot 10H_2O$	Sodium tetraborate decahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Na_2O_9Si_4$	Sodium disilicate	5-50 μ	-	Absorption	Cartwright	PR	35 (1930)	415
		20-130 μ	-	Spec	Barnes	PR	39 (1932)	562
$Na_3HO_7P_2 \cdot H_2O$	Trisodium hydrogen pyrophosphate monohydrate	1-40 μ	-	Spec, Freq	Mutschin	ZAUC	160 (1958)	81
$Na_3H_3N_3O_6P_3 \cdot 4H_2O$	Trisodium triphosphonitrilate tetrahydrate	2-15 μ	S	Spec, Freq	Corbridge	JCS	- (1954)	4555
$Na_3H_3N_3O_6P_3 \cdot 4H_2O$	Sodium trimetaphosphimate tetrahydrate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Na_3O_3PS \cdot 10H_2O$	Trisodium phosphoromonothioate decahydrate	860-3430	G	I, Freq	Corbridge	JCS	- (1954)	4555
Na_3O_3As	Sodium arsenate	290-650	S	Assign	Duval	CPR	239 (1954)	249
Na_3O_4P	Sodium orthophosphate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
		290-650	S	Assign	Duval	CPR	239 (1954)	249
$Na_3O_4P \cdot 12H_2O$	Sodium orthophosphate dedecahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		800-4000	S	Freq	Lucchesi	JACS	78 (1956)	1347
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Na_3O_6B_3$	Sodium metaborate	250-4000	-	Spec, Freq, Assign	Goubeau	ZPC	20 (1959)	15
$Na_3O_9P_3$	Sodium trimetaphosphate	7-15 μ	S	Spec	Corbridge	AC	27 (1955)	1383
		2-15 μ	S	Spec, Freq, I, Assign	Corbridge	JCS	- (1955)	493

$Na_3O_9P_3 \cdot H_2O$	Trisodium trimetaphosphate monohydrate	2-15 μ	S	Spec, Freq, I	Corbridge	JCS	- (1954)	493
$Na_3O_9P_3 \cdot 6H_2O$	Trisodium trimetaphosphate hexahydrate	2-15 μ	S	Spec, Freq, Assign	Corbridge	JCS	- (1954)	493
$Na_4C_{10}H_{12}N_2O_8$	Ethylenediamine tetraacetic acid sodium salt	650-3500	S	Spec, I, Group freq	Chapman	JCS	- (1955)	1766
$Na_4HNO_6P_2$	Sodium imidodiphosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Na_4H_4N_4O_8P_4 \cdot 2.5H_2O$	Tetrasodium tetraphosphonitrilate 2.5 hydrate	2-15 μ	S	Spec	Corbridge	JCS	- (1954)	4555
$Na_4H_4N_4O_8P_4 \cdot 3H_2O$	Sodium tetrametaphosphimate trihydrate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Na_4C_6P_2 \cdot 10H_2O$	Tetrasodium hypophosphate decahydrate	916-3320	S	I, Freq	Corbridge	JCS	- (1954)	4555
$Na_4O_7P_2$	Tetrasodium pyrophosphate	-	-	Freq	Bergmann	JCS	- (1952)	847
		2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	847
		7-15 μ	S	Spec	Corbridge	AC	27 (1955)	1383
		1-40 μ	-	Spec, Freq	Mutschin	ZAC	160 (1958)	81
		-	Sol	Struct	Simon	ZAUA	301 (1959)	154
$Na_4O_7P_2 \cdot 10H_2O$	Sodium pyrophosphate decahydrate	2-15 μ	S	Freq, I	Corbridge	JCS	- (1954)	493
		1-40 μ	-	Spec, Freq	Mutschin	ZAC	160 (1958)	81
$Na_4O_8P_2 \cdot xH_2O$	Tetrasodium peroxydiphosphate polyhydrate	720-3100	S	I, Freq	Corbridge	JCS	- (1954)	4555
$Na_4O_{12}P_4$	Tetrasodium tetrametaphosphate	2-15 μ	S	Freq, Assign, I	Corbridge	JCS	- (1954)	493
		-	-	Freq, Struct	Steger	ZAUA	294 (1958)	1

$Na_4O_{12}P_4 \cdot 4H_2O$	Tetrasodium tetrameta-phosphate tetrahydrate	2-15 μ -	S -	Spec, Freq, Assign, I Freq, Struct	Corbridge Steger	JCS ZAUA	- 294	(1954) (1958)	493 1
$Na_5O_{10}P_3$ - I	Pentasodium tri-phosphate-I	2-15 μ 7-15 μ	S S	Spec, Freq, Assign, I Spec	Corbridge Corbridge	JCS AC	- 27	(1954) (1955)	493 1383
$Na_5O_{10}P_3$ - II	Pentasodium tri-phosphate-II	2-15 μ 7-15 μ	S S	Spec, Freq, Assign Spec	Corbridge Corbridge	JCS AC	- 27	(1954) (1955)	493 1383
$Na_5O_{10}P_3 \cdot 6H_2O$	Sodium triphosphate hexahydrate	2-15 μ	S	Spec, Assign, I, Freq	Corbridge	JCS	-	(1954)	493

Nb COMPOUNDS

$NbC_{10}H_{10}Br_3$	Niobium (V)-cyclopenta-diene complex bromide	2-15 μ	S	Spec	Wilkinson	JACS	76	(1954)	4281
$NbC_{22}H_{21}F_6$	Tri-p-tolylmethyl hexafluoro niobiate	600-3400	S	Spec	Sharp	JCS	-	(1957)	4804
$NbCl_5$	Niobium pentachloride	310-5000	S	Spec, Freq, Thermo., Struct	Gaunt	SA	10	(1958)	52
NbF_4	Niobium tetrafluoride	-	S	Freq, Struct	Peacock	JCS	-	(1959)	2762
NbF_7	Niobium (V)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	-	(1959)	2762
NbO_3K	Potassium niobate	300-1000	S	Spec, Struct, I	Last	PR	105	(1957)	1740
NbO_3Na	Sodium niobate	300-1000	S	Spec, Struct, I	Last	PR	105	(1957)	1740

Nd COMPOUNDS

$NdBr_3O_9 \cdot 9H_2O$	Neodymium bromate	3 μ 0.35 μ	S S	Band study Spec, Freq	Benton Satten	PR JCP	73 21	(1948) (1953)	536 637

$NdCl_3$	Neodymium chloride	-	S	Spec	Varsanyi	JCP	33 (1960)	1616
NdF_3	Neodymium fluoride	-	S	Spec	Freed	JCP	8 (1940)	840
NdO	Neodymium oxide	1-8 μ	S	Spec	Coblentz	BBS	5 (1908)	159
NdO_4P	Neodymium ortho-phosphate	290-650	S	Assign	Duval	CPR	239 (1954)	249

Ni COMPOUNDS

$NiCCl_9OP_3$	Nickel carbonmonoxide, trichlorophosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiCF_9OP_3$	Nickel carbonmonoxide, trifluorophosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_2H_3N_2NS_2$	Nickel rubeanate	400-4000	Sol	Struct	Barcelo	SA	10 (1958)	245
$NiC_2H_3N_3$	Dicyanoammine nickel clathrate of pyrrole	700-4000	S	Spec, Struct	Drago	JACS	80 (1958)	2667
$NiC_2H_3N_3$	Dicanoammine nickel(II) clathrate of thiophene	700-4000	S	Spec, Struct	Drago	JACS	80 (1958)	2667
$NiC_2H_3N_3 \cdot 1/3H_2O \cdot 2/5C_2H_5NH_2$	Dicyanoammine nickel(II) clathrate of ethyl-amine. 1/3 hydrate	700-4000	S	Spec, Struct	Drago	JACS	80 (1958)	2667
$NiC_2H_3N_3 \cdot 1/3H_2O \cdot 1/20\ C_6H_6$	Dicyanoammine nickel(II) clathrate of benzene. 1/3 hydrate	700-4000	S	Spec, Struct	Drago	JACS	80 (1958)	2667

$NiC_2H_3N_3 \cdot 1/3H_2O \cdot 1/3\ C_6H_6$	Dicyanoammine nickel(II) clathrate of benzene. 1/3 hydrate	700-4000	S	Spec, Struct	Drago	JACS	80 (1958)	2667
$NiC_2H_3N_3 \cdot 1/3H_2O \cdot 1/2\ C_6H_6$	Dicyanoammine nickel(II) clathrate of benzene. 1/3 hydrate	700-4000	S	Spec, Struct	Drago	JACS	80 (1958)	2667
$NiC_2H_8Cl_2N_4S_2$	Nickel (II)-thiourea chloride complex	2-15μ	S	Spec, Freq	Yamaguchi	JACS	80 (1958)	527
$NiC_2H_{12}N_6S_2$	Nickel (II)-ammonia complex isothiocyanate	-	S	Freq assign	Mitchell	JCS	- (1960)	1912
$NiC_2H_{16}N_2O_8S$	Nickel (II)-ethylene-diamine, water complex sulfate	900-1100	S	H bond, Band study	Fujita	JACS	78 (1956)	3693
$NiC_2Cl_6O_2P_2$	Nickel carbonmonoxide, phosphorous tri-chloride complex	-	-	Freq, Struct, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_2F_6O_2P_2$	Nickel carbonmonoxide, phosphorous tri-fluoride complex	-	-	Freq, Struct, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_2N_2S_2$	Nickel (II)-thiocyanate	-	S	Freq assign	Mitchell	JCS	- (1960)	1912
$NiC_3Cl_3O_3P$	Nickel carbonmonoxide phosphorous tri-chloride complex	-	-	Freq, Struct, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_3F_3O_3P$	Nickel carbonmonoxide phosphorous tri-fluoride complex	-	-	Freq, Struct, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_3N_4OK_2$	Nickel (I)-cyanide, nitric oxide complex (potassium salt)	2000-2150	S	Struct	Griffith	JINC	7 (1958)	295
$NiC_4H_6O_4$	Nickel acetate	0.6-1.5μ	Sol	Spec	Coblentz	BBS	14 (1918)	653

$NiC_4H_6O_4 \cdot 4H_2O$	Nickel acetate tetrahydrate	900-1100	S	H bond, Band study	Fujita	JACS	78 (1956)	3963
		400-5000	S	Spec	Nakamoto	JACS	79 (1957)	4904
$NiC_4H_8Cl_2O_2$	Nickel (II)-dioxane complex chloride	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
$NiC_4H_8N_2O_4$	Nickel (II)-glycine complex	900-1100	S	H bond, Band study	Fujita	JACS	78 (1956)	3963
$NiC_4H_8N_2O_4 \cdot 2H_2O$	Nickel (II)-glycine complex dihydrate	2-15.5 μ	S	Spec, Group freq	Sen	JACS	77 (1955)	211
		900-1100	S	H bond, Band study	Fujita	JACS	78 (1956)	3963
		2-7 μ	S	Chelation const.	Rosenberg	ACS	10 (1956)	840
		2-15 μ	S	Assign	Saraceno	JACS	80 (1958)	5018
$NiC_4H_9O_3P$	Nickel (0)-carbonmonoxide trimethyl phosphine complex	-	-	Freq, Struct, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_4H_{20}Cl_2N_4O_{10}$	Nickel (II)-ethylene-diamine, water complex perchlorate	700-850	S	H bond, Band study	Fujita	JACS	78 (1956)	3963
NiC_4N_4	Nickel (II)-tetra-cyanide complex ion	250-2200	S	Spec, Assign	Hidalgo	ARS	56 (1960)	9
$NiC_4N_4Ba \cdot 4H_2O$	Nickel (II)-cyanide complex (barium salt) tetrahydrate	-	S	FC, Spec	McCullough	SA	16 (1960)	929
$NiC_4N_4K_2$	Nickel (II)-cyanide complex (potassium salt)	2.5-15 μ	S	Spec, Struct	Sayed	JACS	78 (1956)	702
		2136	S	Struct	Griffith	JINC	7 (1958)	295
		1600-2200	S	Spec, Struct	Sayed	JACS	80 (1958)	2047
		-	S	Spec, Assign	Bonino	AAN	26 (1959)	137
		250-2200	-	Assign	Hidalgo	CPR	249 (1959)	233
$NiC_4N_4Na_2$	Nickel (II)-cyanide complex (sodium salt)	-	S	Spec, Assign	Bonino	AAN	26 (1959)	137
		2050-2250	Sol	Spec	McCullough	JINC	13 (1960)	286
$NiC_4N_4Na_2 \cdot 3H_2O$	Nickel (II)-cyanide complex (sodium salt) trihydrate	-	S	FC, Spec	McCullough	SA	16 (1960)	929

NiC_4O_4	Nickel carbonyl	-	-	Freq	Wilson	JCP	3 (1935)	59
		1-20 μ	-	Anal	Bailey	JCP	6 (1938)	225
		4-23 μ	L,G	Spec, Thermo., Assign	Crawford	JCP	6 (1938)	525
		-	-	FC	Walsh	TFS	43 (1947)	158
		-	-	FC	Sheline	JCP	18 (1950)	602
		-	-	FC, Struct	Nyholm	JCS	- (1953)	2670
		2045	-	Freq	Margoshes	JCP	22 (1954)	381
		270-10000	G	Freq, Assign	Jones	JCP	23 (1955)	2448
		-	-	NCA	Bigorgne	CPR	246 (1958)	1685
		400-4000	G,L	Spec, Assign, NCA, FC	Jones	JCP	28 (1958)	1215
$NiC_4^{12}O_4$	Nickel carbonyl (isotopic)	-	-	Thermo., Freq	Bernstein	JCP	22 (1954)	710
$NiC_4^{13}O_4$	Nickel carbonyl (isotopic)	-	-	Thermo., Freq	Bernstein	JCP	22 (1954)	710
NiC_5H_5NO	Nickel (I)-cyclopentadiene, nitric oxide complex	600-5000	Sol	Spec, Freq, Struct	Piper	JINC	1 (1955)	165
		20000-40000	-	Symmetry of complex	Cox	N	181 (1958)	1157
		1700-2050	Sol	Freq	Lewis	JINC	7 (1958)	32
$NiC_5H_7O_2$	Acetylacetone nickel chelate	-	Sol	Freq	Bellamy	JCS	- (1954)	4491
$NiC_6H_9O_6P$	Trimethoxyphosphine nickel tricarbonyl	-	-	Freq, Struct	Bigorgne	BSCF	- (1960)	1986
$NiC_6H_{12}N_2O_4$	Nickel (II)-alanine complex (l & dl)	650-4000	S	Freq, Assign	Segnini	SA	16 (1960)	540
$NiC_6H_{12}N_2O_4 \cdot 2H_2O$	Nickel (II)-alanine complex dihydrate	2-7 μ	S	Chelation const.	Rosenberg	ACS	10 (1956)	840
$NiC_6H_{12}N_2O_4 \cdot 3H_2O$	Nickel (II)-alanine complex trihydrate	650-4000	S	Freq assign	Segnini	SA	16 (1960)	540
$NiC_6H_{12}N_2O_4 \cdot 4H_2O$	Nickel (II)-alanine complex tetrahydrate	900-1100	S	H bond	Fujita	JACS	78 (1956)	3963
		650-4000	S	Freq, Assign	Segnini	SA	16 (1960)	540

$NiC_6H_{16}N_6S_2$	Nickel (II)-ethylene-diamine isothiocyanate complex	-	S	Freq assign	Mitchell	JCS	- (1960)	1912
$NiC_6H_{18}Br_2O_3S_3$	Nickel (II)-dimethyl sulfoxide complex bromide	650-4000	S	Spec, Assign	Cotton	JPC	64 (1960)	1534
$NiC_6H_{18}Cl_2O_3S_3$	Nickel (II)-dimethyl sulfoxide complex chloride	650-4000	S	Spec, Assign	Cotton	JPC	64 (1960)	1534
$NiC_6H_{24}Cl_2N_6$	Nickel (II)-ethylene-diamine complex chloride	450-1750	S	Spec, Config.	Powell	JCS	- (1959)	791
$NiC_6H_{24}N_8O_6$	Nickel (II)-ethylene-diamine complex nitrate	3000-4000	S	H bond, Config.	Swink	ACR	13 (1960)	639
$NiC_6H_{26}N_{10}S_6 \cdot 4H_2O$	Nickel (II)-isothio-cyanate complex (ammonium salt)tetra-hydrate	-	S	Freq assign	Mitchell	JCS	- (1960)	1912
$NiC_7H_5O_2$	Salicylaldehyde nickel chelate	-	S	Freq	Bellamy	JCS	- (1954)	4491
$NiC_8H_4F_3O_2S$	Thenoyltrifluoro-acetone nickel chelate	-	Sol	Freq	Bellamy	JCS	- (1954)	4491
$NiC_8H_{12}D_2N_4O_4$	Nickel (II)-dimethyl glyoxime complex-d_2	2-26 μ	-	Freq	Godycki	JCP	19 (1951)	1205
		2-16 μ	S	Spec, H bond	Voter	AC	23 (1951)	1730
		1400-4500	-	H bond, Spec	Rundle	JCP	20 (1952)	1487
$NiC_8H_{14}N_4O_4$	Nickel (II)-dimethyl glyoxime complex	2-26 μ	S	Freq	Godycki	JCP	19 (1951)	1205
		2-16 μ	S	Spec, H bond	Voter	AC	23 (1951)	1730
		1400-4500	-	H bond, Spec	Rundle	JCP	20 (1952)	1487
		-	S	Spec	Rundle	JACS	76 (1954)	3101
		2-6 μ	S	Spec	Nakahara	BCSJ	28 (1955)	473
		2-15 μ	S	Spec	Nakahara	BCSJ	29 (1956)	296
		-	S	H bond	Pimental	JCP	24 (1956)	639

		2-15 μ	S	Spec	Nakahara	BCSJ	29 (1956)	296
		-	S	H bond	Pimental	JCP	24 (1956)	639
		1800-3200	S	Spec, Assign, H bond	Blinc	JCS	- (1958)	4536
		1575-5000	-	H bond	Gill	N	183 (1958)	248
$NiC_8H_{18}N_4O_6 \cdot 2H_2O$	Nickel (II)-glycyl-glycine complex dihydrate	-	S,Sol	Chelation const.	Rosenberg	ACS	11 (1957)	1390
$NiC_8H_{18}O_2P_2$	Nickel carbonmonoxide, trimethyl phosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_8H_{18}O_8P_2$	Nickel carbonmonoxide, trimethoxy phosphine complex	-	-	Freq, Struct, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_8H_{20}Cl_2N_8$	Nickel (II)-biacetyl dihydrazone, chloride complex	600-3500	S	Spec, Assign	Stoufer	JACS	82 (1960)	3491
$NiC_8H_{24}Br_2O_4S_4$	Nickel (II)-dimethyl sulfoxide complex bromide	650-4000	S	Spec, Assign	Cotton	JPC	64 (1960)	1534
$NiC_8H_{24}I_2O_4S_4$	Nickel (II)-dimethyl sulfoxide complex iodide	650-4000	S	Spec, Assign	Cotton	JPC	64 (1960)	1534
$NiC_9H_{10}NO_6S$	Nickel (II)-8-hydroxy-quinoline-5-sulfonic acid, water complex	-	S	Struct	Norita	SK	32 (1959)	83
$NiC_9H_{10}NO_6S \cdot 2H_2O$	Nickel (II)-8-hydroxy-quinoline-5-sulfonic acid water complex	-	S	Struct	Norita	SK	32 (1959)	83
$NiC_9H_{15}O_3P$	Nickel carbonmonoxide, triethylphosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986

$NiC_9H_{15}O_6P$	Nickel carbonmonoxide, triethoxyphosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_{10}H_{10}$	Nickel (II)-cyclopentadiene complex	-	-	Struct	Wilkinson	JACS	75 (1953)	1011
		2-16 μ	S	Spec	Wilkinson	JACS	76 (1954)	1970
		775-1440	-	Struct, Freq	Dunitz	JCP	23 (1955)	954
$NiC_{10}H_{10}D_4Cl_2N_2O_4$	Nickel (II)-γ-chloro allylglycine complex-d_4	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$NiC_{10}H_{12}D_2N_4C_2$	Nickel (II)-allylglycine complex-d_4	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$NiC_{10}H_{14}Br_2N_2O_4$	Nickel (II)-γ-bromo-allylglycine complex	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$NiC_{10}H_{14}Cl_4N_4O$	Nickel (II)-γ-chloro-allylglycine complex	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$NiC_{10}H_{16}N_2O_4$	Nickel (II)-allylglycine complex	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$NiC_{10}H_{20}N_2O_{12}Na_2$	Nickel (II)-ethylenediamine tetraacetic acid complex (sodium salt)	800-1800	S	Freq assign	Sawyer	JACS	81 (1959)	816
$NiC_{10}H_{27}OP_3$	Nickel (0)-carbonmonoxide, trimethyl phosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_{10}H_{27}O_{10}P_3$	Nickel (0)-carbonmonoxide, trimethoxy phosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_{12}H_8N_2O_2$	Nickel carbonmonoxide, pyridine complex	-	S	Freq, FC	Nyholm	JCS	- (1953)	2670
$NiC_{12}H_8N_2O_4$	Nickel (II)-2-pyridine carboxylic acid chelate	-	-	Struct	Lumme	SK	31 (1958)	294

$NiC_{12}H_8N_2O_4$	Nickel (II)-2-pyridine carboxylic acid chelate	-	-	Struct	Lumme	SK	31 (1958)	294
$NiC_{12}H_{16}D_2N_4O_4$	Nickel (II)-1,2-cyclohexanedionedioxime complex-d_2	2-16 μ	S	Spec, H bond	Voter	AC	23 (1951)	1730
$NiC_{12}H_{16}O_2As_2$	Nickel carbonmonoxide dimethylarsine, O-phenylene complex	-	S,Sol	Freq, FC	Nyholm	JCS	- (1953)	2670
$NiC_{12}H_{18}N_4O_4$	Nickel (II)-cyclohexane-1:2-dionedioxime complex	2-16 μ 800-3200	S S	Spec, H bond Spec, H bond, Assign	Voter Blinc	AC JCS	23 (1951) - (1958)	1730 4536
$NiC_{12}H_{20}N_2O_4$	Nickel (II)-methyl allylglycine complex	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$NiC_{12}H_{24}N_2O_4$	Nickel (II)-leucine complex	2-7 μ	S	Chelation	Rosenberg	ACS	10 (1956)	840
$NiC_{12}H_{30}Cl_2N_{12}$	Nickel (II)-biacetyl dihydrazone complex chloride	600-3500	S	Spec, Assign	Stoufer	JACS	82 (1960)	3491
$NiC_{12}H_{30}N_2O_6P_2$	Nickel (II)-nitrate triethyl phosphine complex	700-4000 700-4000	S S	Assign Assign	Gatehouse Gatehouse	JCS JINC	- (1957) - (1958)	4222 75
$NiC_{12}H_{36}Br_2O_6S_6$	Nickel (II)-dimethyl sulfoxide complex bromide	650-4000	S	Spec, Assign	Cotton	JPC	64 (1960)	1534
$NiC_{12}H_{36}Cl_2O_{14}S_6$	Nickel (II)-dimethyl sulfoxide complex perchlorate	650-4000	S	Spec, Assign	Cotton	JPC	64 (1960)	1534
$NiC_{13}H_{45}OP_3$	Nickel (0)-carbonmonoxide, triethyl phosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986

$NiC_{14}H_{10}O_2S_2$	Nickel-2-mercapto-troponate	-	S	Freq	Bryant	JOC	19 (1954)	1889
$NiC_{14}H_{20}D_2N_4O_4$	Nickel (II)-1,2-cycloheptane dione dioxime complex-d_2	2-16 μ	S	Spec, H bond	Voter	AC	23 (1951)	1730
$NiC_{14}H_{20}O_4$	Nickel-methacronyl acetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
$NiC_{14}H_{22}N_4O_4$	Nickel (II)-1,2-cycloheptane dione-dioxime complex	2-16 μ	S	Spec, H bond	Voter	AC	23 (1951)	1730
$NiC_{14}H_{30}O_2P_2$	Nickel-carbonmonoxide triethyl phosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_{14}H_{30}O_8P_2$	Nickel-carbonmonoxide triethoxyphosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_{15}H_{27}O_3P$	Nickel (0)-carbon-monoxide tri-n-butyl-phosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_{16}H_{28}O_4$	Nickel-pivaloyl acetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
$NiC_{16}H_{36}O_8P_2$	Nickel (II)-di-n-butylphosphate	714-5000	S	Interaction studies	Smith	JINC	9 (1959)	150
$NiC_{18}H_{11}N_2O_8S_2Na$	Nickel (II)-8-hydroxy-quinoline-5-sulfonic acid complex (sodium salt)	-	S	Struct	Norita	SK	32B (1959)	83
$NiC_{18}H_{12}N_2O_2$	Nickel (II)-8-hydroxy-quinolate	- 8-15 μ	S S	Spec Spec, Assign	Charles Charles	AC SA	25 (1953) 8 (1956)	530 1

$NiC_{18}H_{15}N_2O_{10}S_2Na$	Nickel (II)-8-hydroxy-quinoline-5-sulfonic acid, water complex (sodium salt)	-	S	Struct	Norita	SK	32B (1959)	83
$NiC_{19}H_{45}O_4P$	Nickel (0)-carbonmonoxide, triethoxyphosphine complex	-	-	Struct, Freq, FC	Bigorgne	bSCF	- (1960)	1986
$NiC_{20}H_{12}N_2O_4$	Nickel (II)-8-quinoline-carboxylic acid chelate	-	-	Struct	Lumme	SK	31B (1958)	294
$NiC_{20}H_{16}N_2O_2$	2-Methyl-8-hydroxy-quinoline nickel (II) chelate	8-15 μ	S	Assign, Spec	Charles	SA	8 (1956)	1
$NiC_{20}H_{16}N_2O_2$	4-Methyl-8-hydroxy-quinoline nickel (II) chelate	8-15 μ	S	Assign, Spec	Charles	SA	8 (1956)	1
$NiC_{21}H_{15}O_3P$	Nickel (0)-carbon-monoxide, triphenyl-phosphine complex	-	-	Struct, Freq, FC	Bigorgne	bSCF	- (1960)	1986
$NiC_{21}H_{15}O_6P$	Nickel (0)-carbon-monoxide, triphenoxy-phosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_{22}H_{20}N_6S_2$	Nickel (II)-pyridine, isothiocyanate complex	-	S	Freq assign	Mitchell	JCS	- (1960)	1912
$NiC_{26}H_{54}O_8P_2$	Nickel (0)-carbon-monoxide, tri-n-butoxyphosphine complex	-	-	Struct, Freq, FC	Bigorgne	bSCF	- (1960)	1986
$NiC_{28}H_{24}Cl_2N_4$	Nickel (II)-mesostil-benediamine complex chloride	-	-	Struct	Furlani	GCI	88 (1958)	279

$NiC_{30}H_{26}N_4O_4$	Nickel (II)-mesostilbene-diamine complex formate	-	-	Struct	Furlani	GCI	88 (1958)	279
$NiC_{32}H_{16}N_8$	Nickel phthalocyanine	3-15 μ	S	Spec	Eberts	JACS	74 (1952)	2806
$NiC_{32}H_{23}Cl_2N_4O_4$	Nickel (II)-mesostilbene diamine complex chloroacetate	-	-	Struct	Furlani	GCI	88 (1958)	279
$NiC_{36}H_{24}Cl_2N_6O_8$	Nickel-1;10-phenanthroline complex perchlorate	600-2000	S	Spec	Schilt	JINC	9 (1959)	211
$NiC_{37}H_{81}O_4P_3$	Nickel-carbonmonoxide, tri-n-butoxyphosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_{38}H_{30}O_2P_2$	Nickel-carbonmonoxide, triphenylphosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_{38}H_{30}O_8P_2$	Nickel-carbonmonoxide, triphenoxyphosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_{55}H_{45}OP_3$	Nickel-carbonmonoxide, triphenylphosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_{55}H_{45}O_{10}P_3$	Nickel-carbonmonoxide, triphenoxyphosphine complex	-	-	Struct, Freq, FC	Bigorgne	BSCF	- (1960)	1986
$NiC_{72}H_{60}Cl_2O_{12}P_4$	Nickel (II)-triphenyl-phosphine oxide complex perchlorate	900-1300	S	Freq	Cotton	JCS	- (1960)	2199
$NiC_{\ldots}H_{\ldots}O_{\ldots}$	Nickel polymethacroxyl	1300-1800	S	Anal[illegible]	Charette	SA	16 (1960)	689

$NiC_{1808}H_{3010}O_4$	Nickel polymethacroyl acetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
NiH	Nickel hydride	-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
$NiHO_3P.H_2O$	Nickel orthophosphite monohydrate	2-15 μ	S	Group freq, I, Assign	Corbridge	JCS	- (1954)	493
NiH_4F_3N	Ammonium fluoride nickel fluoride	1400-4000	S	Spec	Crocket	JACS	82 (1960)	4158
$NiH_4NO_9S_4K_3$	Nickel (I)-nitric oxide, thiosulphate complex (potassium salt) dihydrate	1700-2050	S	Struct	Lewis	JINC	7 (1958)	32
$NiH_4N_2O_6S_2$	Nickel sulfamate	-	-	Freq, Assign	Bicelli	AC	47 (1957)	1380
$NiH_8Cl_2N_4$	Nickel hydrazine complex chloride	15-35 μ	-	Freq	Sacconi	N	186 (1960)	549
$NiH_8N_2O_8S_2$	Nickel ammonium sulfate	0.8-1.25 μ	Sol	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
		0.8-1.1 μ	L	Beer's law	Chatterjee	JCP	20 (1952)	344
$NiH_{12}O_6$	Hexaquo nickel ion	-	S,Sol	Freq, FC	Schultz	JCP	10 (1942)	194
$NiH_{18}Cl_2N_6$	Nickel (II)-ammonia complex chloride	2-15 μ	S	FC, Freq, Assign	Kobayashi	JCP	23 (1955)	1354
		650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467
$NiH_{18}N_6$	Hexamine nickel ion	-	-	Freq, FC	Schultz	JCP	10 (1942)	194

$NiCl_2$	Nickel chloride	0-1.4 μ	Sol	Spec	Coblentz	BBS	7 (1911)	619
		0.8-1.1 μ	L	Beer's law	Chatterjee	JCP	20 (1952)	344
		1-15 μ	Sol	Spec	Lagerquist	AF	12 (1957)	491
		-	G	Freq, FC	Randall	JPC	63 (1959)	758
$NiCl_2 \cdot 6H_2O$	Nickel (II)-chloride hexahydrate	900-1100	S	H bond	Fujita	JACS	78 (1956)	3963
$NiCl_2O_8 \cdot 6H_2O$	Nickel (II)-perchlorate hexahydrate	900-1100	S	H bond	Fujita	JACS	78 (1956)	3963
NiF_4	Nickel (IV)-tetrafluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
NiF_4	Nickel (II)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
NiF_6Si	Nickel fluoro silicate	488-735	-	Band study	deLattre	JCP	20 (1952)	1180
NiI_2O_6	Nickel iodate	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429
NiN_2O_6	Nickel (II)-nitrate	0.6-1.5 μ	Sol	Spec	Coblentz	BBS	14 (1918)	653
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$NiN_2O_6 \cdot 6H_2O$	Nickel nitrate hexahydrate	700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
		300-880	S	Spec	Miller	SA	16 (1960)	135
NiN_6O_{12}	Nickel (II)-nitrite complex ion	400-5000	S	Spec, Freq, Assign	Nakamoto	JACS	80 (1958)	4817
NiO	Nickel oxide	1-15 μ	S	Spec	Johnston	PR	93 (1954)	634
		800-2300	S	Spec	Morin	PR	93 (1954)	1199

NiO_4S	Nickel sulfate	0.8-1.5 μ	Sol	Spec	Coblentz	BBS	14 (1918)	653

NiO_4S	Nickel sulfate	0.8-1.5 μ	Sol	Spec	Coblentz	BBS	14 (1918)	653
		8-12 μ	L	Reflection	Plyler	PR	28 (1926)	284
		-	-	Interpretation of spec	Duval	CPR	227 (1948)	1153
		0.8-1.1 μ	L	Beer's law	Chatterjee	JCP	20 (1952)	344
		7.5-10.0 μ	S	Spec, Anal	Tai	AC	29 (1957)	1430
$NiO_4S.6H_2O$	Nickel sulfate hexa-hydrate	2.2 μ	S	Absorption	Ingersoll	PR	57 (1940)	1145
		0.7-1.9 μ	S	Magnetic rotation	Breen	PR	64 (1943)	75
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$NiO_4S.7H_2O$	Nickel sulfate hepta-hydrate	-	-	Quant. Mech.	Vanvleck	JCP	7 (1939)	72
		900-1100	S	H bond	Fujita	JACS	78 (1956)	3963
NiO_4Fe_2	Nickel ferrite	-	-	Absorption	Kapian	JCP	21 (1953)	760
		-	-	Microwave	Brown	PR	93 (1954)	381
		280-4000	S	Spec, Assign, FC, I, Thermo.	Waldron	PR	99 (1955)	1727
		10-500	-	Reflection and transmission	Mitsuishi	JPSJ	13 (1958)	1236
NiO_4Mn_2	Nickel manganite	350-5800	S	Spec, FC	Dasgupta	TFS	53 (1956)	909
$NiO_{10}P_3Na_3 \cdot 12H_2O$	Nickel trisodium triphosphate dodecahydrate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
$Ni_2C_6N_6K_4$	Nickel cyanide complex (potassium salt)	2.5-15 μ	S	Struct	Sayed	JACS	78 (1956)	702
		2000-2150	S	Struct	Griffith	JINC	7 (1958)	295

$Ni_2C_8N_6O_2K_4$	Nickel carbonmonoxide cyanide complex (potassium salt)	1800-2200	S	Spec, Struct	Griffith	JINC	10 (1959)	23
$Ni_2H_4N_4O_8P_4 \cdot 2.5H_2O$	Dinickel tetra-phosphonitrilate 2.5 hydrate	80.2-3140	S	I, Group freq	Corbridge	JCS	- (1954)	4555
$Ni_3CH_4O_7 \cdot 4H_2O$	Basic nickel carbonate tetrahydrate	2-16 μ	S	Comparison	Meloche	JINC	6 (1958)	104
$Ni_3C_{15}H_3F_{18}O_{16}$	Nickel (II)-sym-hexafluoroacetyl-acetone complex (trimer)	280-1700	-	Band study	Nakamoto	N	183 (1959)	459
$Ni_3C_{15}H_{12}F_9O_6$	Nickel (II)-1,1,1-trifluoroacetyl-acetone complex (trimer)	280-1700	-	Band study	Nakamoto	N	183 (1959)	459
$Ni_3C_{15}H_{21}O_6$	Nickel (II)-acetyl-acetone complex (trimer)	280-1700	-	Band study	Nakamoto	N	183 (1959)	459
$Ni_3C_{30}H_{27}O_6$	Nickel (II)-benzoyl-acetone complex (trimer)	280-1700	-	Band study	Nakamoto	N	183 (1959)	459
$Ni_3C_{45}H_{33}O_6$	Nickel (II)- ω-benzoyl acetophenone complex (trimer)	280-1700	-	Band study	Nakamoto	N	183 (1959)	459

$Ni_3O_6P_2S_2$	Trinickel bisphosphoromonothioate	885-3360	S	I, Freq	Corbridge	JCS	- (1954)	4555
$Ni_3O_8P_2$	Nickel orthophosphate	290-650	S	Assign	Duval	CPh	239 (1954)	259
$Ni_3O_8P_2 \cdot 7H_2O$	Nickel (II)-phosphate heptahydrate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		2-16μ	S	Spec	Meloche	JInC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135

Np COMPOUNDS

$NpC_6H_9O_8Na$	Sodium neptunyl acetate	400-3000	S	Freq, Assign, FC	Jones	JCP	23 (1955)	2105
$NpCl_2O_{10}$	Neptunyl perchlorate	800-1060	Sol	FC, Spec	Jones	JCP	21 (1953)	542
NpF_6	Neptunium hexafluoride	2-38μ	S	Spec, Assign	Malm	JCP	23 (1955)	2192
		-	-	FC	Califano	AAN	25 (1958)	284
		-	-	John-Teller effect	Weinstock	JCP	31 (1959)	262
$NpN_3O_{11}Rb$	Rubidium neptunyl nitrate	.6-1.3μ	L	Temp effect	Waggener	JACS	80 (1958)	3167
NpO_2	Neptunium dioxide ion	-	-	Spec	Gruen	JCP	20 (1952)	1818

Os COMPOUNDS

$OsC_6H_4BrCl_3N_2$	p-Bromobenzene-diazonium chloride, osmium chloride double salt	-	-	Struct	Kazitsyana	IANS	- (1960)	1523
$OsC_6N_6K_4$	Osmium (II)-cyanide complex (potassium salt)	2-5μ	S	Spec	Bonino	AAN	25 (1958)	401
		250-2200	-	Assign	Hidalgo	CPR	249 (1959)	233
OsH	Osmium hydride	-	-	FC	Platt	JCP	18 (1950)	932
$OsHN_5O_{10}K_2$	Osmium (III)-hydroxide, nitric oxide, nitrite complex	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
$OsCl_5NK_2$	Potassium nitrilo-pentachloroosmate	0-1.3μ	S	Spec, Freq	Lewis	JINC	6 (1958)	12
OsF_4	Osmium tetrafluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
OsF_6	Osmium hexafluoride	2500-4000	G	Assign	Moffitt	MP	2 (1959)	109
		-	-	Jahn-Teller effect	Weinstock	JCP	31 (1959)	262
		6-50μ	G	Spec, Thermo.	Weinstock	JCP	32 (1960)	181
OsF_8	Osmium octafluoride	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
$OsNO_3K$	Potassium osmiamate	0-1.3μ	S	Spec, Freq	Lewis	JINC	6 (1958)	12
OsO_4	Osmium tetraoxide	324-971	S,L	Freq assign, Struct	Woodward	TFS	52 (1956)	615

PbC Lead carbide - - Freq Clark TFS 33 (1937) 1390

PbC	Lead carbide	-	-	Freq	Clark	TFS	33 (1937)	1390
$PbCH_3O_3P$	Lead methylphosphonate	758-1420	S	Freq, I	Corbridge	JCS	- (1954)	4555
$PbCO_3$	Lead carbonate	-	-	Freq, Assign	Schaefer	TFS	25 (1929)	841
		2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		2-15 μ	S	Spec	Harkins	AC	31 (1959)	541
		300-880	S	Spec	Miller	SA	16 (1960)	135
$PbC_2N_2S_2$	Lead thiocyanate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		-	S	Usage	Resnik	AC	29 (1957)	1874
		2-15 μ	S	Spec	Wiberly	AC	29 (1957)	210
		300-880	S	Spec	Miller	SA	16 (1960)	135
PbC_4H_{12}	Tetramethyl lead	1-16 μ	G	Spec	Kattering	P	4 (1933)	39
		-	-	Assign	Anderson	JCP	4 (1936)	161
		-	-	CH Potential barrier	French	JCP	14 (1946)	389
		-	-	Freq, Assign	Young	JACS	69 (1947)	1410
		2-23 μ	L,G	Spec, Assign	Sheline	JCP	18 (1950)	595
		-	-	FC	Sheline	JCP	18 (1950)	602
		470-3000	L,G	I, Assign	Lippincott	JACS	75 (1953)	4141
		600-1700	S	Spec, Freq, Struct	Zingaro	JACS	76 (1954)	816
		-	-	Group freq	Leonard	JACS	77 (1955)	2029
		1158	-	Freq	Sheppard	TFS	51 (1955)	1465
$PbC_6HN_3O_8.H_2O$	Lead styphnate hydrate (normal)	600-1700	S	Spec, Struct	Zingaro	JACS	76 (1954)	816

$PbC_6H_5O_4P$	Lead phenyl phosphate	670-3500	-	Spec, Assign	Bellamy	JCS	- (1953)	728
$PbC_6H_{10}O_2S_4$	Ethyl lead dixanthate	2.8-15 μ	S	Spec	Pearson	APS	12 (1958)	116
$PbC_8H_{18}O_4P$	Lead diisobutyl phosphate	670-3500	-	Spec, Assign	Bellamy	JCS	- (1953)	728
PbC_8H_{20}	Tetraethyl lead	1-16 μ	L	Spec	Kattering	P	4 (1933)	39
		-	-	Spec, Freq	Pai	PRS	149 (1935)	29
		-	-	Assign	Anderson	JCP	4 (1936)	161
$PbC_{10}H_{10}$	Cyclopentadienyl lead	400-4000	Sol	Spec, Struct	Dave	JCS	- (1959)	3684
$PbC_{10}H_{12}Cl_6N_2$	Pyridinium hexachloro-plumbate	-	S	H bond, Freq	Nuttall	JCS	- (1960)	4965
$PbC_{10}H_{12}N_2O_9Na_2 \cdot H_2O$	Lead (II)-ethylene-diamine tetraacetic acid complex (sodium salt) monohydrate	800-1800	S	Freq, Assign	Sawyer	JACS	81 (1959)	816
$PbC_{10}H_{22}O_4P$	Lead diisoamyl phosphate	670-3500	-	Spec, Assign	Bellamy	JCS	- (1953)	728
$PbC_{12}H_8N_2O_4$	Lead (II)-2-pyridine carboxylic acid chelate	-	-	Struct	Lumme	SK	31 (1958)	294
$PbC_{12}H_8N_2O_8P$	Lead di-p-nitrophenyl phosphate	670-3500	-	Assign, Spec	Bellamy	JCS	- (1953)	728

$PbC_{12}Cl_2O_8$	Lead trichloro-acrylate	700-1600	-	Spec	Duval	RTC	69 (1950)	391
$PbC_{14}H_{10}C_2S_2$	Lead-2-mercapto-troponate	-	S	Band freq	Bryant	JCC	19 (1954)	1889
$PbC_{14}H_{10}O_4$	Lead tropolonate	-	S,Sol	Band freq	Bryant	JCC	19 (1954)	1889
$PbC_{14}H_{14}O_4P$	Lead dibenzyl phosphate	670-3500	-	Spec, Assign	Bellamy	JCS	- (1953)	728
$PbC_{14}H_{21}O_4P$	Lead-p-octyl phenyl phosphate	670-3500	-	Spec, Assign	Bellamy	JCS	- (1953)	728
$PbC_{16}H_{36}O_8P_2$	Lead-di-n-butyl-phosphate	714-5000	S	Interaction study	Smith	JINC	9 (1959)	150
$PbC_{18}H_{12}N_2O_2$	Lead (II)-8-hydroxy-quinolate	- 8-15 μ	S S	Spec Assign, Spec	Charles Charles	AC SA	25 (1953) 8 (1956)	530 1
$PbC_{18}H_{16}O$	Triphenyl lead hydroxide	-	Sol	H bond	West	JACS	82 (1960)	6269
$PbC_{20}H_{12}N_2O_4$	Lead (II)-8-quinoline carboxylic acid chelate	-	-	Struct	Lumme	SK	31 (1958)	294
$PbC_{20}H_{22}O_4$	Lead α-isopropyl tropolonate	-	S	Freq	Bryant	JCC	19 (1954)	1889

$PbC_{24}H_{16}Cl_2N_4O_8$	Lead (II)-1:10-phenanthroline complex perchlorate	600-250°	S	Spec	Schilt	JINC	- (1959)	211
$PbC_{24}H_{20}$	Tetraphenyl lead	625-900	S	Vibrations	Margoshes	SA	7 (1955)	114
		8-11μ	S	Band study	Noltes	CIL	- (1959)	298
$PbC_{36}H_{70}O_4$	Lead stearate	6-8μ	S	Spec	Ellis	N	181 (1958)	181
$PbC_{48}H_{32}Cl_2N_8O_8$	Lead (II)-1:10-phenanthroline complex perchlorate	600-2000	S	Spec	Schilt	JINC	9 (1959)	211
PbH	Lead monohydride	-	-	Spec	Watson	PR	57 (1940)	708
		-	-	FC	Sheline	JCP	18 (1950)	927
$PbHO_3P$	Lead orthophosphite	2-15μ	S	Spec, Freq, I, Assign	Corbridge	JCS	- (1954)	493
$PbHO_4As$	Lead orthoarsenate	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$PbH_4N_2O_6S_2$	Lead sulfamate	-	S	Freq assign	Bicelli	AC	47 (1957)	1380
$PbH_4O_4P_2$	Lead phosphinate	2-15μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
$PbH_8Cl_6N_2$	Diammonium lead hexachloride	-	S	Freq	Cox	JCS	- (1954)	1798
PbCl	Lead monochloride	-	-	Residual rays	Schaefer	TFS	25 (1929)	841

$PbCl_2$	Lead chloride	71-114 μ	S	Residual rays	Weniger	JOSA	7 (1923)	517
		0-8.7 μ	-	Dispersion	Korff	RMP	4 (1932)	417
		90-230 μ	S	Spec	Sinton	JOSA	44 (1954)	503
$PbCl_4$	Lead tetrachloride	-	-	FC	Bowers	JCP	21 (1953)	1117
$PbFO_3P$	Lead monofluoro-phosphate	783-1110	S	I, Group freq	Corbridge	JCS	- (1954)	4555
PbF_4	Lead tetrafluoride	-	S	Freq, Struct	Peacock	JCS	- (1954)	2762
PbI_2	Lead iodide	0.4-2 μ	S	Photoelectrical properties	Coblentz	BBS	18 (1922)	489
PbI_2O_6	Lead iodate	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429
$PbI_6O_{18}K_2$	Potassium lead (IV) iodate	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429
PbN_2O_2	Lead hyponitrite	-	S	Freq	LeFevre	AJC	10 (1957)	361
PbN_2O_6	Lead nitrate	-	S	Reflection factors	Weniger	JOSA	7 (1923)	517
		-	-	Residual rays	Schaefer	TFS	25 (1929)	841
		700-1500	S	Spec	Newman	JCP	18 (1950)	1291
		2-16 μ	S	Spec, Freq	Miller	AC	24 (1952)	1253
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		2-15 μ	S	Spec	Addison	JCS	- (1960)	613
		700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
		300-880	S	Spec	Miller	SA	16 (1960)	135
PbN_3	Lead azide	-	-	Assign	Sutherland	PRS	156 (1936)	678

PbO	Lead oxide	1-8 μ	S	Emission	Coblentz	BBS	5 (1908)	159
		5-50 μ	S	Absorption	Cartwright	PR	35 (1930)	415
		-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Mol. Const.	Pekersi	PR	45 (1934)	98
		-	-	FC	Badger	PR	48 (1935)	284
		0.8-20 μ	S	Reflectance	Agnew	JOSA	43 (1953)	999
		-	-	FC	Baughan	TFS	53 (1957)	1046
PbO_3Ti	Lead titanate	-	-	Spec	Yatsenko	IANS	24 (1960)	1308
PbO_3Zr	Lead zirconate	-	-	Spec	Yatsenko	IANS	24 (1960)	1308
PbO_4S	Lead sulfate	300-880	S	Spec	Miller	SA	16 (1960)	135
PbO_4B_2	Lead metaborate	680-1420	S	Spec	Duval	JOSA	44 (1954)	261
$PbO_4B_2.H_2O$	Lead borite monohydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
PbO_4Cr	Lead chromate	2-15 μ	S	Spec	Harkins	AC	31 (1959)	541
PbO_4Se	Lead selenate	290-650	S	Assign	Duval	CPR	239 (1954)	249
		220-3500	S	Spec, Struct	Duval	ZE	64 (1960)	582
PbS	Lead sulfide	0.8-20 μ	S	Reflectance	Agnew	JOSA	43 (1953)	999
		-	S	Photoconductivity	Jones	JOSA	43 (1953)	1008
		1-3.2 μ	S	Photoresponse	Mitchell	PR	93 (1954)	1421
		90-230 μ	S	Spec	Sinton	JOSA	44 (1954)	503
		600-1700	S	Spec, Freq, Struct	Zingaro	JACS	76 (1954)	816
		1-5.5 μ	S	Spec	Braithwaite	JSI	321 (1955)	10
		-	S	Mol. Const.	Scott	JOSA	45 (1955)	176
		20-200 μ	S	Refl. Curves	Yoshinaga	PR	100 (1955)	753
		-	S	Preparation of film	Harada	JCP	24 (1956)	447
		2-3.5 μ	S	Photoconductivity	Smith	PRS	235 (1956)	1

PbSe	Lead selenide	0.8-20 μ	S	Reflectance	Agnew	JOSA	43 (1953)	999
		3-6 μ	S	Spec	Braithwaite	JSI	32 (1955)	10
		20-200 μ	S	Reflectance curves	Yoshinaga	PR	100 (1955)	753
		1-8 μ	S	Spec	Young	JSI	32 (1955)	142
		2-8 μ	S	Photoconductivity	Smith	PhS	235 (1956)	1
PbTe	Lead telluride	2-6 μ	S	Transmission	Clark	PR	85 (1952)	1043
		0.8-20 μ	S	Diffuse reflectance	Agnew	JOSA	43 (1953)	999
		.5-7 μ	S	Transmission	Lasser	PR	96 (1954)	47
		1-6 μ	S	Spec	Bode	Ph	96 (1954)	259
		3-6 μ	S	Spec	Braithwaite	JSI	32 (1955)	10
		1-6 μ	S	Spec	Young	JSI	32 (1955)	142
		2-6 μ	S	Photoconductivity	Smith	PhS	235 (1956)	1
$Pb_2C_6H_3N_3O_{10}$	Lead styphnate (basic)	600-1700	S	Spec, Struct	Zingaro	JACS	76 (1954)	816
$Pb_2H_4N_4O_8P_4 \cdot xH_2O$	Dilead tetraphospho-nitrilate xhydrate	788-3150	S	I, Freq	Corbridge	JCS	- (1954)	4555
$Pb_2O_6P_2$	Dilead hypophosphate	892-1076	S	Freq, I	Corbridge	JCS	- (1954)	4555
$Pb_2O_7P_2$	Dilead pyrophosphate	2-15 μ	S	Group freq, I, Assign	Corbridge	JCS	- (1954)	4555
$Pb_2O_{12}P_4 \cdot 4H_2O$	Dilead tetrameta-phosphate tetrahydrate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	4555
$Pb_3C_2H_2O_8$	Basic lead carbonate	5-50 μ	-	Absorption	Cartwright	PR	35 (1930)	415
		1-7 μ	-	Transmission	Pfund	PR	36 (1930)	71
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
$Pb_3O_6P_2S_2$	Trilead bis-phosphoro-monothioate	874-1610	S	I, Freq	Corbridge	JCS	- (1954)	4555
$Pb_3C_8P_2$	Lead orthophosphate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135

$Pb_3O_{12}As_3$	Lead arsenate	290-650	S	Assign	Duval	CPR	239 (1954)	249
Pb_3S_3Sb	Lead antimony sulfide	0.7-1.0 μ	S	Photoelectric properties	Coblentz	BBS	18 (1922)	594

Pd COMPOUNDS

$PdC_2H_6N_2O_4$	Palladium (II)-ammonia, oxalate complex	299-3250	S	Assign	Schmelz	SA	9 (1957)	51
		2-15 μ	S	Assign, Freq	Mizushima	SA	13 (1958)	31
$PdC_4H_8N_2O_4$	trans-Palladium (II)-glycine complex	2-15 μ	S	Config, Assign	Saraceno	JACS	80 (1958)	5018
$PdC_4H_{12}Cl_2O_2S_2$	Palladium (II)-dimethyl sulfoxide complex chloride	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534
$PdC_4H_{16}Cl_2N_4$	Palladium (II)-ethylene-diamine complex chloride	400-1750	S	Spec, Freq, Config	Powell	JCS	- (1959)	791
$PdC_4H_{16}Cl_2N_8S_4$	Palladium (IV)-thiourea complex chloride	2-15 μ	S	Spec, Freq	Yamaguchi	JACS	80 (1958)	527
PdC_4N_4	Palladium (II)-tetracyanide complex ion	250-2200	S	Spec, Assign	Hidalgo	ARS	56 (1960)	9
$PdC_4N_4K_2$	Palladium (II)-cyanide complex (potassium salt)	-	S	Spec, Assign	Bonino	AAN	26 (1959)	137
		250-2200	-	Assign	Hidalgo	CPR	249 (1959)	233

$PdC_4N_4Na_2$	Palladium (II)-cyanide complex (sodium salt)	-	S	Spec, Assign	Bonino	AAN	26 (1959)	137
$PdC_4O_8K_2 \cdot 2H_2O$	Palladium (II)-oxalate complex (potassium salt) dihydrate	357-3460	S	Assign	Schmelz	SA	9 (1957)	51
$PdC_6H_4O_8K_2 \cdot H_2O$	Palladium (II)-malonic acid complex (potassium salt) monohydrate	2-15 μ	S	Freq, Assign	Schmelz	JACS	81 (1959)	287
$PdC_6H_{14}Br_2N_2$	Palladium (II)-bromide, 1,4-dimethyl-piperazine complex	2800-3000	L,S	Assign	Braunholtz	JCS	- (1958)	2780
$PdC_6H_{14}Cl_2N_2$	Palladium (II)-dimethyl piperazine, chloride complex	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
$PdC_8H_{14}N_4O_4$	Palladium (II)-dimethyl glyoxime complex	-	-	H bond, Freq	Rundle	JCP	20 (1952)	1487
		-	S	Spec	Rundle	JACS	76 (1954)	3101
		-	-	H bond	Pimental	JCP	24 (1956)	639
		1800-3200	S	Spec, Assign, H bond	Blinc	JCS	- (1956)	4536
$PdC_8H_{20}ClN_4$	Palladium - chloride, piperazine complex	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105

$PdC_8H_{20}Cl_2NO_3P$	trans-Palladium (II)-chloride, piperidine, trimethoxy-phosphine complex	-	Sol	Freq, I	Chatt	JCS	-	(1958)	3203
$PdC_8H_{24}Cl_2N_8S_4$	Palladium - methylthio-urea complex chloride	2-15 μ	S	Spec	Lane	JACS	81	(1959)	3824
$PdC_9H_{21}Cl_2NS$	trans-Palladium (II)-chloride, diethylsulfide, piperidine complex	-	Sol	Freq, I	Chatt	JCS	-	(1958)	3203
$PdC_9H_{21}Cl_2NSe$	trans-Palladium (II)-chloride, diethylselenide, piperidine complex	-	Sol	Freq, I	Chatt	JCS	-	(1958)	3203
$PdC_{10}H_8N_4O_6$	Palladium (II)-2:2-dipyridine, nitrate complex	700-4000 700-4000	S S	Assign Assign	Gatehouse Gatehouse	JCS JINC	- 8	(1957) (1958)	4222 75
$PdC_{10}H_9O_2$	Palladium (II)-benzoyl acetone complex	1700-280	-	Assign	Nakamoto	N	183	(1959)	459
$PdC_{10}H_{12}N_2O_8Na_2$	Palladium (II)-ethylenediamine tetraacetic acid complex (sodium salt)	-	-	Spec	Morris	DA	19	(1958)	223

$PdC_{10}H_{12}Cl_2N_2O_8Na_4$	-	Palladium (V)-ethylenediamine tetraacetic acid complex chloride (sodium salt)	-	-	Spec	Morris	DA	19 (1958)	223
$PdC_{10}H_{14}O_4$	Palladium acetyl acetonate	625-5000 280-1700	S -	Spec, Struct Band study	West Nakamoto	JINC N	5 (1958) 183 (1959)		295 459
$PdC_{10}H_{18}Cl_2NO_3P$	-	trans-Palladium (II)-chloride, trimethoxy-phosphine, p-toluidine complex	-	Sol	Freq, I	Chatt	JCS	- (1958)	3203
$PdC_{10}H_{22}Cl_2N_2$	trans-Palladium (II)-chloride, piperidine complex	-	Sol	Freq, I	Chatt	JCS	- (1958)		3203
$PdC_{11}H_{26}Cl_2NP$	trans-Palladium (II)-chloride, piperidine, triethylphosphine complex	-	Sol	Freq, I	Chatt	JCS	- (1958)		3203
$PdC_{11}H_{26}Cl_2NAs$	trans-Palladium (II)-chloride, piperidine, triethylarsine complex	-	Sol	Freq, I	Chatt	JCS	- (1958)		3203
$PdC_{11}H_{28}Cl_2NO_3$	trans-Palladium (II)-chloride, n-octyl-amine trimethoxy-phosphine complex	-	Sol	Freq, I	Chatt	JCS	- (1958)		3203

$PdC_{12}H_8N_4S_2$	Palladium (II)-2,2-dipyridine thiocyanate complex	-	S	Freq, Assign	Mitchell	JCS	-	(1960)	1912
$PdC_{12}H_{18}N_4O_4$	Palladium (II)-cyclohexane-1:2-dione dioxime complex	800-3200	S	Spec, Assign, H bond	Blinc	JCS	-	(1958)	4536
$PdC_{12}H_{28}N_2O_4Se_2$	Palladium (II)-di-n-propyl-selenide, nitrite complex	1300-1500 800-1500	Sol Sol	Bonding Freq, Struct	Gatehouse Chalt	JINC JCS	8 -	(1958) (1959)	79 4073
$PdC_{12}H_{28}N_2O_4Te_2$	Palladium (II)-di-n-propyl telluride, nitrite complex	1300-1500 800-1500	Sol Sol	Freq, Bonding Freq, Struct	Gatehouse Chalt	JINC JCS	8 -	(1958) (1959)	79 4073
$PdC_{13}H_{23}Cl_2NS$	trans-Palladium (II)-chloride, di-n-propyl-sulfide, p-toluidine complex	-	Sol	Freq, Struct	Chatt	JCS	-	(1958)	3203
$PdC_{13}H_{23}Cl_2NSe$	trans-Palladium (II)-chloride, di-n-propyl-selenide p-toluidine complex	-	Sol	Freq, Struct	Chatt	JCS	-	(1959)	3203
$PdC_{13}H_{23}Cl_2NTe$	trans-Pallaium (II)-chloride, di-n-propyltelluride, p-toluidine complex	-	Sol	Freq, I	Chatt	JCS	-	(1958)	3203

$PdC_{14}H_{10}O_4$	Palladium tropolonate	-	S	Band freq	Bryant	JOC	19 (1954)	1889
$PdC_{14}H_{32}Cl_2NP$	trans-Palladium (II)-chloride, piperidine, tri-n-propyl-phosphine complex	-	Sol	Freq, I	Chatt	JCS	- (1958)	3203
$PdC_{14}H_{33}Cl_2NS$	trans-Palladium (II)-chloride, di-n-propyl-sulfide n-octyl-amine complex	-	Sol	Freq, I	Chatt	JCS	- (1958)	3203
$PdC_{14}H_{33}Cl_2NSe$	trans-Palladium (II)-chloride, di-n-propyl-selenide, n-octyl-amine complex	-	Sol	Freq, I	Chatt	JCS	- (1958)	3203
$PdC_{14}H_{33}Cl_2NTe$	trans-Palladium (II)-chloride, di-n-propyl-telluride n-octylamine complex	-	Sol	Freq, I	Chatt	JCS	- (1958)	3203
$PdC_{15}H_{28}Cl_2N_2$	trans-Palladium (II)-chloride, n-octylamine, p-toluidine complex	-	Sol	Freq, I	Chatt	JCS	- (1958)	3203
$PdC_{16}H_{30}Cl_2NP$	trans-Palladium (II)-chloride, tri-n-propylphosphine p-toluidine complex	- 3000-3500 -	Sol Sol Sol	Freq, Mol. Const. H bond Freq, I	Chatt Chatt Chatt	JCS JCS JCS	- (1955) - (1956) - (1958)	4461 2712 3203

$PdC_{16}H_{30}Cl_2NAs$	trans-Palladium (II)-chloride, tri-n-propyl arsine, p-toluidine complex	-	Sol	Freq, I	Chatt	JCS	-	(1958)	3203
$PdC_{16}H_{36}N_2O_4S_2$	Palladium-di-n-butyl-sulfide, nitrite complex	800-1500 1300-1500	Sol Sol	Freq, Struct Bonding	Chatt Gatehouse	JCS JINC	- 8	(1959) (1958)	4073 79
$PdC_{16}H_{38}Cl_2N_2$	trans-Palladium (II)-chloride, n-octylamine complex	-	Sol	Freq, I	Chatt	JCS	-	(1958)	3203
$PdC_{18}H_{40}Cl_2NP$	trans-Palladium (II)-chloride, n-octylamine, tri-n-propyl-phosphine complex	-	Sol	Freq, I	Chatt	JCS	-	(1958)	3203
$PdC_{18}H_{40}Cl_2NAs$	trans-Palladium (II)-chloride, n-octylamine tri-n-propyl-arsine complex	-	Sol	Freq, I	Chatt	JCS	-	(1958)	3203
$PdC_{20}H_{18}O_4$	Palladium (II)-benzoyl acetone complex	280-1700	-	Bonding	Nakamoto	N	181	(1959)	459
$PdC_{20}H_{30}N_4O_4$	trans-Palladium (II)-nitrite, 4-n-pentyl-pyridine complex	1300-1500	Sol	Bonding	Gatehouse	JINC	8	(1958)	79
$PdC_{22}H_{26}Cl_2$	trans-Palladium (II)-chloride,	-	Sol	Freq, I	Chatt	JCS	-	(1958)	3203

$PdC_{23}H_{26}Cl_2NO_3P$	trans-Palladium (II)-chloride, triphenoxy-phosphine complex	-	Sol	Freq, I	Chatt	JCS	-	(1958)	3203
$PdC_{23}H_{26}Cl_2NP$	trans-Palladium (II)-chloride, piperidine, triphenyl-phosphine complex	-	Sol	Freq, I	Chatt	JCS	-	(1958)	3203
$PdC_{24}H_{54}N_2O_4P_2$	Palladium (II)-nitrite tri-n-butylphosphine complex	800-1500 800-1500	Sol Sol	Bonding Freq, Struct	Gatehouse Chatt	JINC JCS	8 -	(1958) (1959)	79 4073
$PdC_{24}H_{54}N_2O_4As_2$	Palladium (II)-nitrite, tri-n-butylarsine complex	1300-1500 800-1500	Sol Sol	Bonding Freq, Struct	Gatehouse Chatt	JINC JCS	8 -	(1958) (1959)	79 4073
$PdC_{25}H_{24}Cl_2NP$	trans-Palladium (II)-chloride, triphenyl-phosphine, p-toluidine complex	-	Sol	Freq, I	Chatt	JCS	-	(1958)	3203
$PdC_{25}H_{24}Cl_2NO_3P$	trans-Palladium (II)-chloride, triphenoxy-phosphine p-toluidine complex	-	Sol	Freq, I	Chatt	JCS	-	(1958)	3203

$PdC_{26}H_{34}Cl_2NO_3P$	trans-Palladium (II)-chloride, n-octylamine triphenoxy-phosphine complex	-	Sol	Freq, I	Chatt	JCS	- (1958)	3203
$PdC_{26}H_{34}Cl_2NP$	trans-Palladium (II)-chloride, n-octylamine, biphenylphosphine complex	-	Sol	Freq, I	Chatt	JCS	- (1958)	3203
$PdH_4N_2O_8$	Palladium (II)-nitrate, water complex	700-4000	S	Assign	Gatehouse	JCS	- (1957)	4222
		700-4000	S	Assign	Gatehouse	JINC	8 (1958)	75
$PdH_6Cl_2N_2$	cis-Palladium (II)-ammonia, chloride complex	2-15μ	S	Assign, Spec, Freq	Mizushima	SA	13 (1958)	31
$PdH_6Cl_2N_2$	trans-Palladium (II)-ammonia, chloride complex	450-3350	S	Assign, Freq	Powell	JCS	- (1956)	3108
		650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		2-15μ	S	Assign	Mizushima	SA	13 (1958)	31
		-	-	Freq	Wilmshrust	CJC	38 (1960)	467
$PdH_{12}Cl_2N_4$	Palladium (II)-ammonia complex chloride	650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
		2-15μ	S	Assign, Freq	Mizushima	SA	13 (1958)	31
		-	-	Freq	Wilmshurst	CJC	38 (1960)	467
$PdH_{12}Cl_2N_4 \cdot H_2O$	Palladium (II)-ammonia complex chloride mono-hydrate	450-3550	S	Assign, Freq	Powell	JCS	- (1956)	3108

$PdD_6Cl_2N_2$	trans-Palladium (II)-ammonia, chloride complex-d_6	450-2000	S	Assign	Powell	JCS	- (1956)	3108
$PdCl_4$	Palladous tetrachloride ion	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
PdF_4	Palladium tetrafluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
$Pd_2C_4H_8Cl_4$	Palladium (II)-chloride, ethylene complex	400	S	Assign	Powell	SA	13 (1958)	69
$Pd_2C_{24}H_{54}Cl_2N_2O_4P_2$	Palladium (II)-chloride nitrite, tri-n-butylphosphine complex	800-1450	S	Bonding	Gatehouse	JINC	8 (1958)	79
$Pd_2C_{24}H_{54}N_2O_4P$	Palladium (II)-nitrite tri-n-butylphosphine complex	800-1500	S	Freq, Struct	Chatt	JCS	- (1959)	4073
$Pd_2C_{24}H_{54}N_4O_4P_2$	Palladium (II)-nitric oxide, tri-n-butylphosphine complex	800-1450	S	Bonding	Gatehouse	JINC	8 (1958)	79
$Pd_2C_{26}H_{54}N_2O_8P_2$	Palladium (II)-nitrite oxalate, tri-n-butylphosphine complex	800-1500 800-1500	S S	Bonding Freq, Struct	Gatehouse Chatt	JINC JCS	8 (1958) - (1959)	79 4073
$Pd_2H_{12}Cl_4N_4$	Tetraammine palladium (II)-tetrachloro-palladate (II)	785-1632	-	Freq	Mizushima	JCP	23 (1955)	1367

Po COMPOUNDS

PoH	Polonium monohydride	-	-	FC	Sheline	JCP	18 (1950)	927

PoO	Polonium oxide	-	-	Freq	Clark	TFS	33 (1937)	1398
PoS	Polonium sulfide	-	-	Freq, Calculation	Calrk	TFS	33 (1937)	1398
PoSe	Polonium selenide	-	-	Freq, Calculation	Clark	TFS	33 (1937)	1398
PoTe	Polonium tellurite	-	-	Freq, Calculation	Clark	TFS	33 (1937)	1398
Po_2	Polonium	-	-	Freq	Clark	TFS	33 (1937)	1398

Pr COMPOUNDS

PrF_3	Praseodymium fluoride	-	S	Spec	Freed	JCP	8 (1940)	840
		-	S	Electronic transition	Mandel	JCP	33 (1960)	192

Pt COMPOUNDS

$PtCH_2Cl_2NOK.H_2O$	Platinum (II)-amide, carbonmonoxide, chloride complex (potassium salt) monohydrate	-	-	Struct	Babushkin	DANS	123 (1958)	461
$PtC_2H_4D_3Cl_2N$	Platinum (II)-ammonia-d_3, ethylene complex chloride	400-2000	S	Spec, Assign	Powell	JCS	- (1959)	3089
$PtC_2H_4Cl_2NO_2K$	Platinum (II)-chloride, glycine complex (potassium salt)	2-7μ	S	Chelation effect	Rosenberg	ACS	10 (1956)	840

$PtC_2H_4Cl_3K$	Platinum (II)-chloride, ethylene complex (potassium salt)	400-2100	S	Assign	Powell	SA	13 (1958)	69
$PtC_2H_4Cl_3K.H_2O$	Platinum (II)-chloride, ethylene complex (potassium salt)monohydrate	500-3500	S	Freq	Powell	JCS	- (1956)	4495
		-	-	Struct	Babushkin	DANS	123 (1958)	461
		400-3100	S	Assign	Powell	SA	13 (1958)	69
$PtC_2H_6N_2O_4$	Platinum (II)-ammonia, oxalate complex	2-15 μ	S	Assign, Freq	Mizushima	SA	13 (1958)	31
$PtC_2H_7Cl_2N$	Platinum (II)-ammonia chloride, ethylene complex	400-2000	S	Spec, Assign	Powell	JCS	- (1959)	3089
$PtC_2H_7Cl_2N$	trans-Platinum (II)-ammonia, ethylene, chloride complex	450-3300	S	Freq	Powell	JCS	- (1956)	4495
		-	Sol	Freq, Struct, Config	Irving	JCS	- (1958)	2283
		400-2100	S	Assign. Freq	Powell	SA	13 (1958)	69
$PtC_2H_8Cl_2N_4S_2$	Platinum (II)-thiourea complex chloride	2-15 μ	S	Spec, Freq	Yamaguchi	JACS	80 (1958)	527
$PtC_3H_6Cl_2$	Cyclopropane platinous chloride	2.5-14 μ	S	Freq	Tipper	JCS	- (1955)	2045
$PtC_3H_9Cl_2N$	trans-Platinum (II)-chloride, ethylene, methylamine complex	-	Sol	Freq, H bond	Chatt	JCS	- (1955)	4461
$PtC_4H_4Cl_2N_2S_2$	Platinum (II)-chloride 1,2-dithiocyanato-ethane, complex	660-3140	S,Sol	Assign	Mizushima	JPC	59 (1955)	293

$PtC_4H_8Cl_2S_2$	Platinum (II)-dithiane complex chloride	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
$PtC_4H_8N_2O_4$	cis-Platinum (II)-glycine complex	2-7μ 2-15μ	S S	Chelation effect Spec, Assign	Rosenberg Saraceno	ACS JACS	10 (1956) 80 (1958)	840 5018
$PtC_4H_8N_2O_4$	trans-Platinum (II)-glycine complex	2-7μ 2-15μ	S S	Chelation effect Assign, Spec	Rosenberg Saraceno	ACS JACS	10 (1956) 80 (1958)	840 5018
$PtC_4H_{11}Cl_2N$	trans-Platinum (II)-chloride, dimethyl-amine, ethylene complex	-	Sol	Freq	Chatt	JCS	- (1955)	4461
$PtC_4H_{11}Cl_2N$	trans-Platinum (II)-chloride, ethyl-amine, ethylene complex	- 3100-3400	Sol Sol	Freq Freq, H bond	Chatt Duncanson	JCS JCS	- (1955) - (1960)	4461 3841
$PtC_4H_{12}Cl_2O_2S_2$	Platinum (II)-dimethyl sulfoxide complex chloride	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534
$PtC_4H_{13}Cl_2NS$	trans-Platinum (II)-ammonia, chloride, ethylsulfide, complex	450-3300 -	S Sol	Freq Freq, Struct, Config.	Powell Irving	JCS JCS	- (1956) - (1958)	4495 2283
$PtC_4H_{16}Cl_2N_4$	Platinum (II)-ethylenediamine complex chloride	450-1750	S	Spec, Config.	Powell	JCS	- (1959)	791
$PtC_4H_{16}Cl_2N_8S_4$	Platinum (IV)-thiourea complex chloride	2-5μ	S	Spec, Freq	Yamaguchi	JACS	80 (1958)	527
PtC_4N_4	Platinum (II)-tetra-	250-2200						

PtC_4N_4	Platinum (II)-tetra-cyanide complex ion	250-2200	S	Spec, Assign	Hidalgo	AAS	56 (1960)	9
PtC_4N_4K	Platinum (II)-cyanide complex (potassium salt)	2-40 μ 250-2200	S -	Assign, Vibrations Assign	Sweeny Hidalgo	JACS CPR	78 (1956) ?49 (1959)	889 239
$PtC_4N_4S_4K_2$	Platinum (II)-isothiocyanate complex (potassium salt)	-	S	Freq, Assign	Mitchell	JCS	- (1960)	1912
$PtC_5H_{13}Cl_2N$	trans-Platinum (II)-chloride, ethylene, propylamine complex	3100-3400	Sol	Freq, H bond	Duncanson	JCS	- (1960)	3841
$PtC_6H_{15}Cl_2N$	trans-Platinum (II)-t-butylamine, chloride, ethylene complex	3100-3400	Sol	Freq, H bond, Iso.	Duncanson	JCS	- (1960)	3841
$PtC_6H_{18}Cl_2P_2$	cis-Platinum (II)-chloride trimethyl-phosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	- (1960)	2047
$PtC_6H_{19}ClP$	Platinum (II)-chloride, hydride trimethyl-phosphine complex	2000-2200	Sol	Freq	Chatt	CIL	- (1958)	859
$PtC_6N_6S_6K_2$	Platinum (IV)-thiocyanate complex (potassium salt)	-	S	Freq, Assign	Mitchell	JCS	- (1960)	1912
$PtC_7H_{15}Cl_2N$	trans-Platinum (II)-chloride, ethylene, piperidine complex	3000-3500 3000-3500	Sol Sol	H bond H bond	Chatt Chatt	JCS JCS	- (1955) - (1956)	4461 2712

$PtC_7H_{20}Cl_2NP$	trans-Platinum (II)-chloride, methyl-amine triethyl-phosphine complex	3100-3400	Sol	Freq, H bond, Iso.	Duncanson	JCS	-	(1960)	3841
$PtC_7H_{21}BrP_2$	trans-Platinum-bromide, methyl, trimethylphosphine complex	400-4000	Sol,S	Band freq	Adams	JCS	-	(1960)	2047
$PtC_7H_{21}ClP_2$	cis-Platinum (I)-chloride methyl, trimethylphosphine complex	400-4000	Sol,S	Band freq	Adams	JCS	-	(1960)	2047
$PtC_7H_{21}ClP_2$	trans-Platinum (I)-chloride, methyl, trimethylphosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_7H_{21}IP_2$	Platinum-iodide, methyl, trimethyl-phosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_7H_{21}NO_2P_2$	Platinum-methyl, nitrite, trimethyl-phosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_7H_{21}NO_3P_2$	Platinum-methyl, nitrate trimethyl-phosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_8H_9Br_2NO$	trans-Platinum (II)-bromide carbonmono-oxide, p-toluidine complex	-	Sol	Freq, Struct, Config.	Irving	JCS	-	(1958)	2283

$PtC_8H_9Cl_2NO$	trans-Platinum (II)-chloride, carbonmonoxide, p-toluidine complex	-	Sol	Freq, Struct, Config.	Irving	JCS	-	(1958)	2283
$PtC_8H_9I_2NO$	trans-Platinum (II)-iodide, carbonmonoxide, p-toluidine complex	-	Sol	Freq, Struct, Config.	Irving	JCS	-	(1958)	2283
$PtC_8H_{14}Cl_3O_2K$	Platinum (II)-chloride, 2,5-dihydroxy-2,5-dimethylhexyne-3-complex (potassium salt)	2000-4000	S,Sol	Struct, Assign	Chatt	N	184	(1959)	526
$PtC_8H_{16}Cl_2O_2S_2$	Platinum (II)-thioxane complex chloride	500-1500	S	Spec, Struct	Hendra	JCS	-	(1950)	5105
$PtC_8H_{20}Cl_2 - NO_3P$	trans-Platinum (II)-chloride trimethoxyphosphine piperidine complex	3000-3500 -	Sol Sol	H bond Freq	Chatt Chatt	JCS JCS	- -	(1955) (1956)	4461 2712
$PtC_8H_{20}Cl_2S_2$	cis-Platinum (II)-chloride diethyl sulfide complex	600-750	S	Freq	Powell	JCS	-	(1956)	4495
$PtC_8H_{20}Cl_2S_2$	trans-Platinum (II)-chloride, diethyl-sulfide complex	600-750	S	Freq	Powell	JCS	-	(1956)	4495
$PtC_8H_{20}S_2$	Platinum (0)-1,2-diethyl thioethane, methyl complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047

$PtC_8H_{21}NP_2$	cis-Platinum (I)-cyanide, methyl, trimethylphosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_8H_{21}NP_2S$	trans-Platinum (I)-methyl, thiocyanate, trimethylphosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2017
$PtC_8H_{22}Cl_2NP$	trans-Platinum (II)-chloride, ethylamine, triethylphosphine complex	-	Sol	Freq	Chatt	JCS	-	(1955)	4461
		3000-3500	Sol	H bond	Chatt	JCS	-	(1956)	2712
		3100-3400	Sol	Freq, H bond, Iso.	Duncanson	JCS	-	(1960)	3841
$PtC_8H_{23}ClP_2$	trans-Platinum-chloride, ethyl, trimethylphosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_8H_{23}IP_2$	trans-Platinum-iodide, ethyl, trimethylphosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_8H_{24}Cl_2N_8S_4$	Platinum (II)-methyl thiourea complex chloride	2-15 μ	S	Spec	Lane	JACS	81	(1959)	3824
$PtC_8H_{24}P_2$	cis-Platinum-methyl, trimethyl-phosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_9H_{13}Cl_2N$	trans-Platinum (II)-chloride, ethylene, p-toluidine complex	-	Sol	Freq, H bond	Chatt	JCS	-	(1955)	4461
		3000-3500	Sol	H bond	Chatt	JCS	-	(1956)	2712

$PtC_{10}H_{16}Cl_2OK$ Platinum (II)- 2000-4000 S,Sol Struct. Assign Chatt N 184 (1959) 526

$PtC_9H_{16}Cl_3OK$	Platinum (II)-chloride 2,5,5-trimethyl-2-hydroxyhexyne-3-complex (potassium salt)	2000-4000	S,Sol	Struct, Assign	Chatt	N	184 (1959)	526
$PtC_9H_{16}Cl_3O_2K$	Platinum (II)-chloride, 2,5-dimethyl-2-methoxy-5-hydroxyhexyne-3-complex (potassium salt)	2000-4000	S,Sol	Struct, Assign	Chatt	N	184 (1959)	526
$PtC_9H_{21}Cl_2NS$	Platinum (II)-chloride, diethyl-sulfide, piperidine complex	3000-3500 3000-3500	Sol Sol	Freq H bond	Chatt Chatt	JCS JCS	- (1955) - (1956)	4461 2712
$PtC_9H_{21}Cl_2NSe$	trans-Platinum (II)-chloride, diethyl-selenide piperidine complex	- 3000-3500	Sol Sol	Freq H bond	Chatt Chatt	JCS JCS	- (1955) - (1956)	4461 2712
$PtC_9H_{21}Cl_2NTe$	trans-Platinum (II)-chloride, diethyl-telluride piperidine complex	- 3000-3500	Sol Sol	Freq H bond	Chatt Chatt	JCS JCS	- (1955) - (1956)	4461 2712
$PtC_9H_{24}Cl_2NP$	trans-Platium (II)-ammonia, chloride, tri-n-propyl-phosphine complex	3000-3500	S,Sol	H bond, Spec	Chatt	JCS	- (1956)	2712
$PtC_9H_{24}I_2NP$	trans-Platinum (II)-ammonia, iodide, tri-n-propylphosphine complex	3000-3500	S,Sol	H bond, Freq, Spec	Chatt	JCS	- (1956)	2712

$PtC_9H_{25}ClP_2$	trans-Platinum-chloride, n-propyl, trimethyl-phosphine complex	400-4000	Sol,S	Band freq	Adams	JCS	- (1960)	2047
$PtC_{10}H_{12}Cl_2$ - $N_2O_8Na_4$	Platinum (II)-ethylenediamine tetraacetic acid (tetrasodium salt bidentate) chloride complex	-	-	Spec, Struct	Morris	DA	19 (1958)	223
$PtC_{10}H_{12}N_2O_8$-Na_2	Platinum (II)-ethylenediamine tetraacetic acid (disodium salt tetradentate) complex	-	-	Spec, Struct	Morris	DA	19 (1958)	223
$PtC_{10}H_{12}N_6O_4$	cis-Platinum (II)-aminopyridine, nitrite complex	800-1450	Sol	Bonding	Gatehouse	JINC	8 (1958)	79
$PtC_{10}H_{12}N_6O_4$	trans-Platinum (II)-aminopyridine, nitrite complex	800-1450	Sol	Bonding	Gatehouse	JINC	8 (1958)	79
$PtC_{10}H_{15}Cl_2N$	trans-Platinum (II)-chloride, 2,6-dimethyl aniline, ethylene complex	-	Sol	Freq, H bond	Chatt	JCS	- (1955)	4461
$PtC_{10}H_{16}Cl_2NP$	trans-Platinum (II)-chloride, t-butyl-amine, triethyl-phosphine complex	3100-3400	Sol	Freq, Iso., H bond	Duncanson	JCS	- (1960)	3841

$PtC_{10}H_{18}Cl_3O_2K$	Platinum (II)-chloride, 2,5-dimethoxy-2,5-dimethylhexyne-3 complex (potassium salt)	2000-4000	S,Sol	Struct, Assign	Chatt	N	184 (1959)	526
$PtC_{10}H_{22}Cl_2N_2$	trans-Platinum (II)-chloride, piperidine complex	- 3000-3500	Sol Sol	Freq H bond	Chatt Chatt	JCS JCS	- (1955) - (1956)	4461 2712
$PtC_{10}H_{26}Cl_2NP$	trans-Platinum (II)-chloride, methyl-amine, tri-n-propyl-phosphine complex	- 3000-3500	Sol Sol,S	Freq, H bond H bond	Chatt Chatt	JCS JCS	- (1955) - (1956)	4461 2712
$PtC_{10}H_{28}P_2$	cis-Platinum-ethyl, trimethyl-phosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	- (1960)	2047
$PtC_{11}H_{26}Cl_2NSb$	trans-Platinum (II)-chloride, triethyl-stibine, piperidine complex	- 3000-3500	Sol Sol	Freq, I H bond	Chatt Chatt	JCS JCS	- (1955) - (1956)	4461 2712
$PtC_{12}H_{18}N_4O_4$	Platinum (II)-cyclohexane 1:2-dione dioxime complex	800-3200	S	Spec, Assign, H bond	Blinc	JCS	- (1958)	4536
$PtC_{12}H_{28}N_2O_4S_2$	Platinum (II)-di-n-propyl-sulfide, nitrite complex	800-1500	Sol	Freq, Struct	Chatt	JCS	- (1959)	4073
$PtC_{12}H_{28}N_2O_4S_2$	cis-Platinum (II)-di-n-propyl-sulfide, nitrite complex	800-1500	Sol	Freq, Struct, Bonding	Gatehouse	JINC	8 (1958)	79

$PtC_{12}H_{28}N_2O_4S_2$	trans-Platinum (II)-di-n-propylsulfide, nitrite complex	800-1450 800-1500	Sol Sol	Bonding Freq, Struct	Gatehouse Chatt	JINC JCS	8 (1958) - (1959)	79 4073
$PtC_{12}H_{28}N_2O_4Se_2$	Platinum (II)-di-n-propylselenide, nitrite complex	800-1500	Sol	Struct, Freq	Chatt	JCS	- (1959)	4073
$PtC_{12}H_{28}N_2O_4Se_2$	Platinum (II)-di-n-propylselenide, nitrite complex	1300-1500 800-1500	Sol Sol	Bonding Freq	Gatehouse Chatt	JINC JCS	8 (1958) - (1959)	79 4073
$PtC_{12}H_{28}N_2O_4Te_2$	trans-Platinum (II)-di-n-propyl telluride, nitrite complex	1300-1500 800-1500	Sol Sol	Bonding Freq, Struct	Gatehouse Chatt	JINC JCS	8 (1958) - (1959)	79 4073
$PtC_{12}H_{30}Cl_2P_2$	cis-Platinum (II)-chloride triethyl-phosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	- (1960)	2047
$PtC_{12}H_{30}Cl_2P_2$	trans-Platinum (II)-chloride, triethyl-phosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	- (1960)	2047
$PtC_{12}H_{30}P_2$	Platinum-1,2-bis-(diethylphosphino) ethane methyl complex	400-4000	Sol,S	Band freq	Adams	JCS	- (1960)	2047
$PtC_{12}H_{31}BrP_2$	Platinum (II)-bromide, hydride, triethylphosphine complex	2000-2050	Sol	Freq	Chatt	CIL	- (1958)	859
$PtC_{12}H_{31}BrAs$	Platinum (II)-bromide, hydride, triethylarsine complex	2100-2200	Sol	Freq	Chatt	CIL	- (1958)	859

$PtC_{12}H_{31}ClP_2$	Platinum (II)-chloride, hydride, triethylphosphine complex	2000-2250	Sol	Freq	Chatt	CIL	-	(1958)	859
$PtC_{12}H_{31}ClAs$	Platinum (II)-chloride hydride triethylarsine complex	2100-2200	Sol	Freq	Chatt	CIL	-	(1958)	859
$PtC_{12}H_{31}IP_2$	Platinum (II)-iodide, hydride, triethylphosphine complex	2000-2250	Sol	Freq	Chatt	CIL	-	(1958)	859
$PtC_{12}H_{31}IAs$	Platinum (II)-iodide hydride, triethylarsine complex	2100-2200	Sol	Freq	Chatt	CIL	-	(1958)	859
$PtC_{12}H_{31}NO_2P_2$	Platinum (II)-hydride, nitrite, triethylphosphine complex	2000-2250	Sol	Freq	Chatt	CIL	-	(1958)	859
$PtC_{12}H_{31}NO_3P_2$	Platinum (II)-hydride, nitrate, triethylphosphine	2000-2250	Sol	Freq	Chatt	CIL	-	(1958)	859
$PtC_{12}H_{32}P_2$	cis-Platinum-n-propyl, trimethyl-phosphine complex	400-4000	S,Sol	Freq	Adams	JCS	-	(1960)	2047
$PtC_{13}H_{16}Cl_3O_2K$	Platinum (II)-chloride, 2-phenyl-5-methyl-2,5-dihydroxy-hexyne-3 complex (potassium salt)	2000-4000	S,Sol	Struct, Assign	Chatt	N	184	(1959)	526

$PtC_{13}H_{23}Cl_2NS$	trans-Platinum (II)-chloride, di-n-propyl sulfide, p-toluidine complex	- 3000-3500 3000-3400	Sol S,Sol Sol	Freq, H bond H bond, Spec H bond	Chatt Chatt Chatt	JCS JCS JINC	- - 8	(1955) (1956) (1958)	4461 2712 67
$PtC_{13}H_{23}Cl_2NSe$	trans-Platinum (II)-chloride, di-n-propylselenide, p-toluidine complex	- 3000-3500	Sol Sol	H bond, Freq H bond	Chatt Chatt	JCS JCS	- -	(1955) (1956)	4461 2712
$PtC_{13}H_{23}Cl_2NTe$	trans-Platinum (II)-chloride, di-n-propyl telluride p-toluidine complex	-	Sol	Freq, H bond	Chatt	JCS	-	(1955)	4461
$PtC_{13}H_{24}Cl_2NO_3P$	trans-Platinum (II)-chloride, triethoxy-phosphine, p-toluidine complex	-	Sol	Freq, H bond	Chatt	JCS	-	(1955)	4461
$PtC_{13}H_{24}Cl_2NP$	trans-Platinum (II)-chloride, triethyl-phosphine, p-toluidine complex	- 3000-3500	Sol Sol	Freq, H bond H bond, Config.	Chatt Chatt	JCS JCS	- -	(1955) (1956)	4461 2712
$PtC_{13}H_{25}Cl_2NO_2$	trans-Platinum (II)-chloride, 2,4-dimethyl-2,4-dihydroxy-hexyne-3, piperidine complex	2000-4000	S,Sol	Assign, Struct	Chatt	N	184	(1959)	526
$PtC_{13}H_{31}NP_2$	Platinum (II)-cyanide, hydride, triethylphosphine complex	2000-2250	Sol	Freq	Chatt	CIL	-	(1958)	859

$PtC_{13}H_{31}NP_2S$	Platinum (II)-hydride thiocyanate, triethylphosphine complex	2000-2250	Sol	Freq	Chatt	CIL	-	(1958)	859
$PtC_{13}H_{31}NSAs_2$	Platinum (II)-hydride triethylarsine, thiocyanate complex	2100-2200	Sol	Freq	Chatt	CIL	-	(1958)	859
$PtC_{13}H_{32}Cl_2NP$	trans-Platinum (II)-chloride, diethylamine, tri-n-propylphosphine complex	-	Sol	Freq	Chatt	JCS	-	(1955)	4461
		3000-3500	Sol	H bond, Spec	Chatt	JCS	-	(1956)	2712
		3100-3300	Sol	H bond	Chatt	JINC	8	(1958)	67
$PtC_{13}H_{33}BrP_2$	trans-Platinum-bromide, methyl, triethylphosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_{13}H_{33}ClP_2$	cis-Platinum-chloride, methyl, triethylphosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_{13}H_{33}ClP_2$	trans-Platinum-chloride, methyl, triethylphosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_{13}H_{33}IP_2$	trans-Platinum-iodide methyl, triethylphosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047

$PtC_{13}H_{33}NO_2P_2$	trans-Platinum-methyl, nitrite, triethylphosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_{13}H_{33}NO_3P_2$	trans-Platinum-methyl, nitrate, triethylphosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_{14}H_{18}Cl_3OK$	Platinum (II)-chloride, 2,2-dimethyl-5-hydroxy-5-phenyl hexyne-3 complex (potassium salt)	2000-4000	S,Sol	Struct, Assign	Chatt	N	184	(1959)	526
$PtC_{14}H_{27}Cl_2NO$	trans-Platinum (II)-chloride 2,2-dimethyl-5-hydroxy-5-methyl hexyne-3, piperidine complex	2000-4000	S,Sol	Struct, Assign	Chatt	N	184	(1959)	526
$PtC_{14}H_{27}Cl_2NO_2$	Platinum (II)-chloride, 2,4-dimethyl-2-methoxy-4-hydroxy pentyne-2, piperidine complex	2000-4000	S,Sol	Struct, Assign	Chatt	N	184	(1959)	526
$PtC_{14}H_{32}Cl_2NP$	trans-Platinum (II)-chloride, piperidine, tri-n-propylphosphine complex	- 3000- 500 3100-3300	Sol Sol Sol	Freq, I Freq, H bond H bond	Chatt Chatt Chatt	JCS JCS JINC	- - 8	(1955) (1956) (1958)	4461 2712 67
$PtC_{14}H_{32}Cl_2NAs$	trans-Platinum (II)-chloride, piperidine, tri-n-propyl-arsine complex	- 3000-3500	Sol Sol	Freq, I H bond	Chatt Chatt	JCS JCS	- -	(1955) (1956)	4461 2712

$PtC_{14}H_{33}NP_2$	trans-Platinum cyanide, methyl triethylphosphine complex	400-4000	S,Sol	Freq	Adams	JCS	-	(1960)	2047
$PtC_{14}H_{33}NP_2S$	trans-Platinum (I)-methyl thiocyanate, triethylphosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_{14}H_{35}ClP_2$	trans-Platinum-chloride, ethyl, triethylphosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_{14}H_{35}IP_2$	trans-Platinum-iodide, ethyl, triethylphosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_{14}H_{36}P_2$	cis-Platinum (0)-methyl, triethyl-phosphine complex	400-4000	S,Sol	Band freq	Adams	JCS	-	(1960)	2047
$PtC_{15}H_{26}Cl_2N_2$	trans-Platinum (II)-chloride,4-n-pentylpyridine, piperidine complex	- 3000-3500	Sol Sol	Freq, I H bond	Chatt Chatt	JCS JCS	- -	(1955) (1956)	4461 2712
$PtC_{15}H_{27}Br_2NS$	trans-Platinum (II)-bromide, di-n-butyl hydrogen sulfide, p-methylaniline complex	3000-3500	Sol	Association Const.	Chatt	JCS	-	(1956)	2712

$PtC_{15}H_{27}Cl_2NS$	trans-Platinum (II)-chloride, di-n-butyl hydrogen sulfide, p-methylaniline complex	3000-3500	Sol	H bond	Chatt	JCS	-	(1956)	2712
$PtC_{15}H_{27}Cl_2NS$	trans-Platinum (II)-chloride, di-n-butyl sulfide, p-toluidine complex	-	Sol	Freq, H bond	Chatt	JCS	-	(1955)	4461
$PtC_{15}H_{27}Cl_2N_2O_2P$	trans-Platinum (II)-chloride, p-nitroaniline, tri-n-propyl-phosphine complex	- 3000-3500	Sol Sol	Freq, H bond H bond	Chatt Chatt	JCS JCS	- -	(1955) (1956)	4461 2712
$PtC_{15}H_{27}Cl_3NP$	trans-Platinum (II)-chloride, p-chloro-aniline tri-n-propylphosphine complex	- 3000-3500	Sol Sol	Freq, H bond H bond	Chatt Chatt	JCS JCS	- -	(1955) (1956)	4461 2712
$PtC_{15}H_{28}Cl_2NP$	trans-Platinum (II)-chloride, aniline, tri-n-propyl-phosphine complex	-	Sol	Freq, H bond	Chatt	JCS	-	(1955)	4461
$PtC_{15}H_{29}Cl_2NO_2$	Platinum (II)-chloride, piperi-dine, 2,5-dimethoxy 2,5-dimethylhexyne-3 complex	2000-4000	Sol,S	Struct, Assign	Chatt	N	184	(1959)	526
$PtC_{15}H_{37}ClP_2$	Platinum-chloride, n-propyl, triethyl-phosphine complex	400-4000	Sol, S	Band freq	Adams	JCS	-	(1960)	2047

$PtC_{16}H_{29}Cl_2NS$	trans-Platinum (II)-chloride, 2,6-dimethyl-aniline, di-n-butyl sulfide complex	-	Sol	Freq, H bond	Chatt	JCS	-	(1955)	4461
$PtC_{16}H_{30}Br_2NP$	trans-Platinum (II)-bromide, p-methylaniline tri-n-propyl-phosphine complex	3000-3500	Sol	H bond	Chatt	JCS	-	(1956)	2712
$PtC_{16}H_{30}Cl_2NOP$	trans-Platinum (II)-chloride, p-anisidine, tripropylphosphine complex	-	Sol	Freq, H bond	Chatt	JCS	-	(1955)	4461
$PtC_{16}H_{30}Cl_2NP$	trans-Platinum (II)-chloride, benzylamine, tri-n-propylphosphine complex	- 3000-3500	Sol Sol	Freq, H bond H bond	Chatt Chatt	JCS JCS	- -	(1955) (1956)	4461 2712
$PtC_{16}H_{30}Cl_2NP$	trans-Platinum (II)-chloride, N-methylaniline tri-n-propyl-phosphine complex	- 3000-3500 3100-3300	Sol Sol Sol	Freq H bond H bond	Chatt Chatt Chatt	JCS JCS JINC	- - 8	(1955) (1956) (1958)	4461 2712 67
$PtC_{16}H_{30}Cl_2NP$	trans-Platinum (II)-chloride, tri-n-propyl-phosphine, p-toluidine complex	- 3000-3500	Sol S	Freq, H bond H bond, Spec	Chatt Chatt	JCS JCS	- -	(1955) (1956)	4461 2712

$PtC_{16}H_{30}Cl_2NAs$	trans-Platinum (II)-chloride, tri-n-propylarsine p-toluidine complex	- 3000-3500	Sol S	Freq, H bond H bond	Chatt Chatt	JCS JCS	- (1955) - (1956)	4461 2712
$PtC_{16}H_{30}Cl_2NSb$	trans-Platinum (II)-chloride, tri-n-propylstibene p-toluidine complex	- 3000-3500	Sol Sol	Freq, H bond H bond	Chatt Chatt	JCS JCS	- (1955) - (1956)	4461 2712
$PtC_{16}H_{30}Cl_4NP$	trans-Platinum (IV)-chloride, tri-n-propylphosphine p-toluidine complex	-	Sol	H bond, Freq	Chatt	JCS	- (1955)	4461
$PtC_{16}H_{30}I_2NP$	trans-Platinum (II)-iodide, tri-n-propylphosphine, p-toludidine complex	3000-3500	Sol	H bond	Chatt	JCS	- (1956)	2712
$PtC_{16}H_{36}N_2O_4S_2$	cis-Platinum (II)-di-n-butyl sulfide nitrite complex	1300-1500 800-1500	Sol Sol	Bonding Freq, Struct	Gatehouse Chatt	JINC JCS	8 (1958) - (1959)	79 4073
$PtC_{16}H_{36}N_2O_4S_2$	trans-Platinum (II)-di-n-butylsulfide, nitrite complex	1300-1500 800-1500	Sol Sol	Bonding Freq, Struct	Gatehouse Chatt	JINC JCS	8 (1958) - (1959)	79 4073
$PtC_{16}H_{40}P_2$	cis-Platinum-ethyl, triethyl-phosphine complex	400-4000	Sol,S	Band freq	Adams	JCS	- (1960)	2047
$PtC_{17}H_{32}Cl_2N$	trans-Platinum (II)-chloride, 2:6-dimethylaniline, tri-n-propylphosphine complex	- 3000-3500	Sol Sol	Freq, H bond H bond	Chatt Chatt	JCS JCS	- (1955) - (1956)	4461 2712

$PtC_{18}H_{27}Cl_2NO_2$	Platinum (II)-chloride, 2,5-dihydroxy-2-phenyl-5-methyl-hexyne-3, piperidine complex	2000-4000	S,Sol	Struct, Assign	Chatt	N	184	(1959)	526
$PtC_{18}H_{33}Cl_2INP$	trans-Platinum (II)-chloride, o-iodo-aniline n-tributyl-phosphine complex	3100-3400	Sol	Freq, Iso., H bond	Duncanson	JCS	-	(1960)	3841
$PtC_{18}H_{42}N_2O_4As_2$	cis-Platinum (II)-nitrite tri-n-propylarsine complex	1300-1500	Sol	Bonding	Gatehouse	JINC	8	(1958)	79
$PtC_{18}H_{43}ClP_2$	Platinum-chloride, hydride tri-n-propylphosphine complex	2183	Sol	Freq	Chatt	CIL	-	(1958)	859
$PtC_{19}H_{29}Cl_2NO$	trans-Platinum (II)-chloride, 2,2-dimethyl-5-hydroxy-5-phenyl hexyne-3, piperidine complex	2000-4000	S,Sol	Assign, Struct	Chatt	N	184	(1959)	526
$PtC_{19}H_{36}Cl_2NP$	trans-Platinum (II)-chloride, tri-n-butylphosphine, p-toluidine complex	3000-3500	Sol	H bond	Chatt	JCS	-	(1956)	2712
$PtC_{19}H_{36}Cl_2NP$	trans-Platinum (II)-chloride, di-n-butylphosphine, o-toluidine complex	3100-3500	Sol	H bond	Chatt	JINC	8	(1958)	67

$PtC_{19}H_{36}Cl_2NP$	trans-Platinum (II)-chloride, tri-t-butylphosphine o-toluidine complex	3100-3400	Sol	Freq, H bond, Iso.	Duncanson	JCS	-	(1960)	3841
$PtC_{19}H_{36}Cl_2NP$	trans-Platinum (II)-chloride, tri-n-butylphosphine, p-toluidine complex	- 3000-3500	Sol Sol	Freq, H bond H bond	Chatt Chatt	JCS JCS	- -	(1955) (1956)	4461 2712
$PtC_{20}H_{30}Cl_2N_2$	trans-Platinum (II)-chloride, 4-n-phenylpyridine complex	3000-3500	Sol	H bond	Chatt	JCS	-	(1956)	2712
$PtC_{20}H_{30}N_4O_4$	cis-Platinum (II)-nitrite-4-n-phenyl-pyridine complex	1300-1500 800-1500	Sol Sol	Bonding Freq, Struct	Gatehouse Chatt	JINC JCS	8 -	(1958) (1959)	79 4073
$PtC_{20}H_{30}N_4O_4$	trans-Platinum (II)-nitrite, 4-n-phenyl-pyridine complex	1300-1500 800-1500	Sol Sol	Bonding Freq, Struct	Gatehouse Chatt	JINC JCS	8 -	(1958) (1959)	79 4073
$PtC_{20}H_{31}ClP_2$	Platinum (II)-diethylphenyl-phosphine, hydride complex chloride	2100-2200	Sol	Assign	Chatt	CIL	-	(1958)	859
$PtC_{20}H_{31}IP_2$	Platinum (II)-diethylphenyl-phosphine, hydride complex iodide	2100-2200	Sol	Assign	Chatt	CIL	-	(1958)	859
$PtC_{21}H_{32}Cl_2NP$	trans-Platinum (II)-chloride, p-phenyl-aniline tri-n-propylphosphine complex	- 3000-3500	Sol Sol	Freq, H bond H bond	Chatt Chatt	JCS JCS	- -	(1955) (1956)	4461 2712

$PtC_{22}H_{34}Cl_2N_2$	trans-Platinum (II)-chloride, 2,6-dimethylaniline, 4-n-nonylpyridine complex	-	Sol	Freq, H bond	Chatt	JCS	-	(1955)	4461
$PtC_{24}H_{54}N_2O_4P_2$	cis-Platinum (II)-nitrite, tri-n-butylphosphine complex	1300-1500	Sol	Bonding	Gatehouse	JINC	8	(1958)	79
		800-1500	Sol	Freq, Struct	Chatt	JCS	-	(1959)	4073
$PtC_{24}H_{54}N_2O_4P_2$	trans-Platinum (II)-nitrite, tri-n-butylphosphine complex	1300-1500	Sol	Bonding	Gatehouse	JINC	8	(1958)	79
		800-1500	Sol	Freq, Struct	Chatt	JCS	-	(1959)	4073
$PtC_{24}H_{54}N_2O_4As_2$	cis-Platinum (II)-nitrite, tri-n-butylarsine complex	800-1500	Sol	Freq	Chatt	JCS	-	(1959)	4073
$PtC_{24}H_{54}N_2O_4As_2$	trans-Platinum (II)-nitrite, tri-n-butylarsine complex	1300-1500	Sol	Bonding	Gatehouse	JINC	8	(1958)	79
		800-1500	Sol	Freq, Struct	Chatt	JCS	-	(1959)	4073
$PtH_6ClN_3O_2$	cis-Platinum (II)-ammonia, chloride, nitrite complex	500-550	S	Freq	Powell	JCS	-	(1956)	4495
$PtH_6Cl_2N_2$	cis-Platinum (II)-ammonia, chloride complex	-	S	Freq, Struct	Curran	AC	26	(1954)	429A
		3000-3500	S	H bond	Chatt	JCS	-	(1956)	2712
		500-3300	S	Freq	Powell	JCS	-	(1956)	4495
		2-15 μ	S	Freq	Mizushima	SA	13	(1958)	31
$PtH_6Cl_2N_2$	trans-Platinum (II)-ammonia, chloride complex	-	S	Freq, Struct	Curran	AC	26	(1954)	429A
		300-4000	S	Spec, Assign	Barrow	JINC	2	(1956)	340
		3000-3500	S	H bond	Chatt	JCS	-	(1956)	2712

		500-3300	S	Assign, Freq	Powell	JCS	-	(1956)	3108
		500-3300	S	Freq	Powell	JCS	-	(1956)	4495
		650-1650	S	Freq	Svatos	JACS	79	(1957)	3313
		-	Sol	Freq, Struct, Config.	Irving	JCS	-	(1958)	2283
		2-15 μ	S	Assign, Freq	Mizushima	SA	13	(1958)	31
		-	-	Electronegativity	Wilmshurst	CJC	38	(1960)	467
$PtH_6Cl_3N_2S$	Platinum (II)-ammonia chloride complex chlorine monosulphide	300-4000	S	Spec, Assign	Barrow	JINC	2	(1956)	340
$PtH_6N_4O_4$	cis-Platinum (II)-ammonia, nitrite complex	-	S	Freq	Powell	JCS	-	(1956)	4495
$PtH_6N_6O_{12}$	cis-Platinum (III)-ammonia, nitrate complex	700-4000	S	Assign	Gatehouse	JCS	-	(1957)	4222
		700-4000	S	Assign	Gatehouse	JINC	8	(1958)	75
$PtH_6N_6O_{12}$	trans-Platinum-ammonia, nitrate complex	700-4000	S	Assign	Gatehouse	JCS	-	(1957)	4222
		700-4000	S	Assign	Gatehouse	JINC	8	(1958)	75
$PtH_8Br_6N_2$	Diammonium platinum hexabromide	-	S	Freq	Cox	JCS	-	(1954)	1798
$PtH_8Cl_2N_2$	Diammonium platinum hexachloride	-		Freq	Cox	JCS	-	(1954)	1798
$PtH_{12}Cl_2N_4$	Platinum (II)-ammonia, complex chloride	-	S	Freq	Curran	AC	26	(1954)	429
		500-3550	S	Assign	Powell	JCS	-	(1956)	3108
		650-1650	S	Freq	Svatos	JACS	79	(1957)	3313
		2-15 μ	S	Assign	Mizushima	SA	13	(1958)	31
		-	-	Freq	Wilmshurst	CJC	38	(1960)	467
$PtH_{15}Cl_3N_5$	Platinum (III)-ammonia, chloride complex chloride	-	-	Freq	Wilmshurst	CJC	38	(1960)	467
$PtH_{15}Cl_4N_6$	Platinum (IV)-ammonia, chloride	650-1650	S	Freq	Svatos	JACS	79	(1957)	3313

$PtH_{15}Cl_4N_5$	Platinum (IV)-ammonia, chloride complex chloride	650-1650	S	Freq	Svatos	JACS	79 (1957)	3313
$PtH_{15}Cl_4N_6O_3Co$	Nitratopentammino cobalt (III) tetrachloro platinate (II)	700-4000	S	Assign	Gatehouse	JCS	- (1957)	4222
$PtD_6Cl_2N_2$	trans-Platinum-ammonia chloride, complex-d_6	300-4000	S	Spec, Assign	Barrow	JINC	2 (1956)	340
$PtD_6Cl_3N_2S$	Platinum(II)-ammonia, chloride complex chlorine monosulphide-d_6	300-400	S	Spec, Assign	Barrow	JINC	2 (1956)	340
$PtCl_4$	Platinous tetra-chloride ion	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
$PtCl_5NOK_2$	Platinum (III)-chloride, nitric oxide complex (potassium salt)	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
PtF_4	Platinum tetra-fluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
PtF_6	Platinum hexa-fluoride	2500-40000	G	Assign	Moffitt	MP	2 (1959)	109
		-	-	Jahn-Teller effect	Weinstock	JCP	31 (1959)	262
		6-50 μ	S	Spec, Thermo.	Weinstock	JCP	32 (1960)	181
PtN_4O_8	Platinum (II)-nitrite complex anion	400-5000	S	NCA, Spec, Freq, Assign, Struct	Kakamoto	JACS	80 (1958)	4817
$PtN_6O_{12}K_2$	Platinum (II)-nitrite complex (potassium salt)	-	-	Struct	Puget	CPR	250 (1960)	4141

$Pt_2C_4H_8Cl_4$	Platinum (II)-chloride, ethylene complex	700-3500 700-3100	S S	Freq, I Assign	Chatt Powell	JCS SA	- (1953) 13 (1958)	2939 69
$Pt_2C_6H_{12}Cl_4$	Platinum (II)-chloride, propylene complex	700-3500	S	Freq, I	Chatt	JCS	- (1953)	2939
$Pt_2C_6H_{12}Cl_6K.H_2O$	Potassium propylene trichloroplatinite monohydrate	700-3500	S	Freq, I	Chatt	JCS	- (1953)	2939
$Pt_2C_8H_{18}Cl_4N_2$	Platinum (II)-chloride, dimethyl-piperazine, ethylene complex	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
$Pt_2H_{12}Cl_4N_4$	Tetrammine platinum (II) tetrachloro-platinate (II)	300-4000	S	Spec, Assign	Barrows	JINC	2 (1956)	340

Pu COMPOUNDS

$PuC_6H_9O_8Na$	Sodium plutonyl acetate	3100-3000	S	Freq assign, FC	Jones	JCP	23 (1955)	2105
$PuCl_2O_{10}$	Plutonyl perchlorate	800-1060	Sol	Spec, FC	Jones	JCP	21 (1953)	542
PuF_6	Plutonium hexafluoride	2-23 μ	G	Freq, Assign, Thermo.	Hawkins	JCP	23 (1955)	2191
		2-38 μ	G	Spec, Assign	Malm	JCP	23 (1955)	2192
		-	G	Spec	Weinstock	JINC	2 (1956)	380
		-	-	Jahn-Teller effect	Weinstock	JCP	31 (1959)	262
PuO_2	Plutonyl ion	-	-	Anal	Betts	JCP	16 (1948)	1089
		-	-	Freq	Kasha	JCP	17 (1949)	349
		-	-	Spec	Green	JCP	20 (1952)	1818
RaH	Radium hydride	-	-	IC	Sheline	JCP	18 (1950)	927

RaH	Radium hydride	-	-	FC	Sheline	JCP	18 (1950)	927

Rb COMPOUNDS

RbCNO	Rubidium isocyanate	400-4000	S	Spec	Waddington	JCS	- (1959)	2499
RbH	Rubidium hydride	-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
		-	-	FC	Baughan	TFS	53 (1957)	1046
RbHO	Rubidium hydroxide	6-33 μ	G	Absorption	Spinar	SA	12 (1958)	244
RbBr	Rubidium bromide	-	-	Christianson filter	Barnes	PR	49 (1936)	732
		-	-	Freq	Huggins	JCP	5 (1937)	143
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Polarizability	Szigeti	TFS	45 (1949)	155
		-	-	Freq	Roberts	PR	77 (1950)	258
		-	-	Freq	Szigeti	PRS	204 (1950)	51
		-	-	Freq	Rittner	JCP	19 (1951)	1030
		-	-	FC	Baughan	TFS	53 (1957)	1046
		-	-	Freq	Rice	JCP	27 (1957)	573
RbCl	Rubidium chloride	-	-	Christianson filter	Barnes	PR	49 (1936)	732
		-	-	Freq	Huggins	JCP	5 (1937)	143
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Polarizability theory	Szigeti	TFS	45 (1949)	155
		-	S	Freq	Roberts	PR	77 (1950)	258
		-	-	Freq	Szigeti	PRS	204 (1950)	51
		-	-	Freq	Rittner	JCP	19 (1951)	1030
		-	-	Pressed disk	Ford	JSI	31 (1954)	338
		-	G	Freq	Rice	JCP	27 (1957)	573
RbF	Rubidium fluoride	-	-	Freq	Huggins	JCP	5 (1937)	143
		-	S	Freq	Roberts	PR	77 (1950)	258

		-	-	Freq	Rittner	JCP	19 (1951)	1030
$RbFO_3S$	Rubidium fluoro-sulfate	550-2400	S	Assign, Spec	Sharp	JCS	- (1957)	3761
RbI	Rubidium iodide	-	-	Christianson filter	Barnes	PR	49 (1936)	732
		-	-	Freq	Huggins	JCP	5 (1937)	143
		-	S	Growing oriented crystal section	West	JOSA	35 (1945)	26
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Polarizability theory	Szigeti	TFS	45 (1949)	155
		-	S	Freq	Roberts	PR	77 (1950)	258
		-	-	Freq	Szigeti	PRS	204 (1950)	51
		-	-	Freq	Rittner	JCP	19 (1951)	1030
		-	S	Crystal study	Smakula	JOSA	43 (1953)	822
		-	-	FC	Baughan	TFS	53 (1957)	1046
		-	-	Freq	Rice	JCP	27 (1957)	573
$RbIO_3$	Rubidium (I)-iodate	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429
$RbIO_4$	Rubidium periodate	-	-	Freq, Struct	Siebert	ZAUA	303 (1960)	162
$RbNO_3$	Rubidium nitrate	2-15 μ	S	Assign	Greenberg	JCP	33 (1960)	900
RbN_3	Rubidium azide	635-3100	S	Freq, FC	Gray	TFS	53 (1957)	901
RbO_8S_2Cr	Rubidium chrome alum	22-310 μ	S	Reflection and transmission	Weniger	JOSA	7 (1923)	517
		-	S	Freq, Assign, Spec	Kraus	JCP	9 (1941)	133
RbK	Rubidium potassium	-	-	Freq	Clark	TFS	33 (1937)	1390
Rb_2	Rubidium	0.86-1.03 μ	S	Spec	Meggers	JRNB	10 (1933)	669
		-	-	Freq	Rosen	PR	43 (1933)	5
		-	-	Freq	Clark	TFS	33 (1937)	1394
		-	-	Freq	Clark	TFS	33 (1937)	1398
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	FC	Baughan	TFS	53 (1957)	1046

$Rb_2H_2O_6P_2 \cdot xH_2O$	Dirubidium dihydrogen hypophosphate polyhydrate	845-3460	S	I, Group freq	Corbridge	JCS	- (1954)	4555
$Rb_2H_6N_4C_8P_4$	Dirubidium tetra-phosphonitrilate	790-3000	S	I, Group freq	Corbridge	JCS	- (1954)	4555

Re COMPOUNDS

ReC_5IO_5	Rhenium carbonyl-iodide	2-15 μ	S	Spec	Brimm	JACS	76 (1954)	3831
$ReC_8N_8K_3$	Rhenium (V)-cyanide complex (potassium salt)	-	S	Spec	Cotton	N	182 (1958)	393
$ReC_{10}H_{11}$	Cyclopentadienyl rhenium hydride	-	S	Spec, Struct	Fritz	ZN	15 (1960)	419
$ReC_{13}H_8IN_2O_3$	Rhenium carbon-monoxide 2,2'-dipyridine, iodide complex	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$ReC_{13}H_{10}ClN_2O_3$	Rhenium carbon-monoxide chloride, pyridine complex	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$ReC_{13}H_{10}IN_2C_3$	Rhenium, carbon-monoxide, iodide, pyridine complex	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$ReC_{39}H_{30}ClO_3P_2$	Rhenium-carbon-monoxide, chloride, triphenylphosphine complex	1700-2200	-	Struct	Abel	JCS	- (1959)	1501

$ReC_{39}H_{30}ClO_3As_2$	Rhenium-carbon-monoxide, chloride, triphenylarsine complex	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$ReC_{39}H_{30}IO_3P_2$	Rhenium-carbon-monoxide, iodide triphenylphosphine complex	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$ReC_{39}H_{30}IO_3As_2$	Rhenium-carbon-monoxide, iodide, triphenylarsine complex	1700-2200	-	Struct	Abel	JCS	- (1959)	1501
$ReHO_4$	Perrhenic acid	700-1400	Sol	Freq, Assign, Struct	Claasen	JCP	22 (1954)	707
$ReBrO_3$	Rhenium trioxy-bromide	150-3000	Sol,L	Assign	Miller	SA	16 (1960)	1148
$ReClO_3$	Rhenium trioxy-chloride	150-3000	Sol,L	Assign, Thermo.	Miller	SA	16 (1960)	1148
$ReFO_3$	Perrhenyl fluoride	21400-28500Mc	G	Spec	Lotspeich	DA	19 (1958)	340
		21400-28500Mc	G	Spec, Mol. Const., Struct	Lotspiech	JCP	31 (1959)	633
ReF_4	Rhenium tetrafluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
ReF_6	Rhenium hexafluoride	400-5000	G	Spec, Assign, Thermo.	Gaunt	TFS	50 (1954)	209
		-	-	FC	Gaunt	TFS	50 (1954)	546
		-	-	Freq	Mattraw	JCP	23 (1955)	985
		-	-	Freq cal.	Califano	AAN	25 (1958)	284
		2500-40000	G	Assign	Moffitt	MP	2 (1959)	109
		-	-	Jahn-Teller effect	Weinstock	JCP	31 (1959)	1959
ReF_7	Rhenium (VI)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
ReO_4	Perrhenate ion	-	-	Struct, Freq	Woodward	TFS	52 (1956)	61[illegible]

ReO_4	Perrhenate ion	-	-	Struct, Freq	Woodward	TFS	52 (1956)	615
ReO_4K	Potassium perrhenate	290-650 1000	S S	Assign Freq	Duval Barraclough	CPR JCS	239 (1954) - (1959)	249 3552
ReO_4Na	Sodium perrhenate	700-1400	Sol	Freq, Assign, Struct	Claasen	JCP	22 (1954)	707
$Re_2C_{10}O_{10}$	Rhenium carbon-monoxide complex	450-3000	S,Sol, G	Spec, Struct	Cotton	JINC	2 (1956)	141

Rh COMPOUNDS

$RhC_4Cl_2O_8K_3 \cdot H_2O$	cis-Rhodium (III)-chloride, oxalate complex (potassium salt) monohydrate	-	-	Iso.	Collman	JACS	80 (1958)	2054
$RhC_6H_{24}Cl_3N_6$	Rhodium (III)-ethylenediamine complex chloride	450-1750	S	Spec, Config.	Powell	JCS	- (1959)	791
RhC_6N_6	Rhodium (III)-hexacyanide complex ion	250-2200	S	Spec, Assign	Hidalgo	ARS	56 (1960)	9
$RhC_6N_6K_3$	Rhodium (III)-cyanide, complex (potassium salt)	250-2200	-	Assign	Hidalgo	CPR	249 (1959)	233
$RhC_6N_6S_6K_3$	Rhodium (III)-thiocyanate complex (potassium salt)	-	S	Freq assign	Mitchell	JCS	- (1960)	1912
$RhC_8H_{15}Cl_2N_4O_4$	Rhodium (III)-chloride, dimethylglyoxime complex (hydrogen salt)	-	-	Freq, Iso.	Collman	JACS	80 (1958)	2054

$RhC_{15}H_{15}Cl_3N_3$	Rhodium (III)-chloride, pyridine complex	-	-	Iso.	Collman	JACS	80 (1958)	2045
$RhC_{25}H_{25}Cl_3N_5$	Rhodium (III)-chloride, pyridine complex chloride	-	-	Iso.	Collman	JACS	80 (1958)	2054
$RhH_{12}N_9O_{12}$	Rhodium (III)-Nitrite complex (ammonium salt)	-	-	Struct	Puget	CPR	250 (1960)	4141
RhF_4	Rhodium (IV)-tetrafluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762

Ru COMPOUNDS

$RuC_5N_6CK_2$	Ruthenium (III)-cyanide, nitric oxide complex (potassium salt)	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
$RuC_6N_6K_4$	Ruthenium (II)-cyanide, complex (potassium salt)	15-25 μ	S,Sol	Spec	Bonino	AAN	23 (1958)	191
		2-5 μ	S	Spec	Bonino	AAN	25 (1958)	401
		250-2200	-	Assign	Hidalgo	CPR	249 (1959)	233
$RuC_6N_6K_4 \cdot 3H_2O$	Ruthenium (II)-cyanide complex (potassium salt) trihydrate	15-25 μ	S,Sol	Spec	Bonino	AAN	23 (1958)	191
$RuC_9H_{18}N_3S_6$	Nitrosyl derivative of Ruthenium (II) dimethyldithio carbamate	1700-2050	S	Struct	Lewis	JINC	7 (1958)	32

$RuC_{10}H_{10}$	Ruthenium-cyclo-pentadiene complex	2-13 μ	Sol	Spec	Wilkinson	JACS	74 (1952)	6146

$RuC_{10}H_{10}$	Ruthenium-cyclopentadiene complex	2-13μ 2-25μ 300-3600	Sol Sol,S G,Sol	Spec Freq, Assign Spec, Struct, Freq, NCA	Wilkinson Lippincott Lippincott	JACS JCP SA	74 (1952) 21 (1953) 10 (1958)	6146 1307 307
$RuC_{12}H_8Cl_3N_3O$	Ruthenium (III)-nitric oxide, 1:10-phenanthroline complex chloride	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
RuH	Ruthenium hydride	-	-	FC	Platt	JCP	18 (1950)	932
$RuHN_5O_{10}K_2$	Ruthenium (III)-hydroxide, nitric oxide, nitrite complex (potassium salt)	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
RuH_3NO_4	Ruthenium (III)-hydroxide, nitric oxide complex	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
$RuH_{12}Br_3N_5O$	Ruthenium (III)-ammonia,bromide, nitric oxide complex	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
$RuH_{12}Cl_3N_5O$	Ruthenium (III)-ammonia,chloride, nitric oxide complex	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
$RuH_{13}Cl_2NO_2$	Ruthenium (III)-ammonia,hydroxide, nitric oxide complex chloride	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
$RuCl_3NO.3H_2O$	Ruthenium (III)-chloride, nitric oxide complex trihydrate	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32

$RuCl_5NOK_2$	Ruthenium (III)-chloride, nitric oxide complex (potassium salt)	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
$RuCl_5NONa_2.H_2O$	Ruthenium (III)-chloride, nitric oxide complex (sodium salt) monohydrate	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
$RuCl_5NOCs_2$	Ruthenium (III)-chloride, nitric oxide complex (cesium salt)	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32
RuF_4	Ruthenium (IV)-tetrafluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
RuF_4	Ruthenium (III)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
RuI_5NOK_2	Ruthenium (III)-iodide, nitric oxide complex (potassium salt)	1700-2050	S	Freq	Lewis	JINC	7 (1958)	32

Sb COMPOUNDS

$SbC_3H_6I_2$	Propenyl antimony iodide	800-1700	-	Spec, Config.	Nesmeyanov	TEL	8 (1960)	23
SbC_3H_9	Trimethyl stibine	-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	FC	Sheline	JCP	18 (1950)	602
		-	-	Freq	Weston	JACS	76 (1954)	2645
		1200	-	Freq	Sheppard	TFS	51 (1955)	1465

		1200	-	Freq	Sheppard	TFS	51 (1955)	1465
$SbC_{8/5}H_{16/5}Cl_3O_{4/3}$	Antimonytrichloride-dioxane	150-5000	S	Thermo., Symmetry	Daasch	SA	15 (1959)	726
$SbC_4H_8Cl_3O_2$	Antimony trichloride dioxane	650-5000	S	Thermo., Symmetry	Daasch	SA	15 (1959)	726
$SbC_6H_6Cl_3$	Antimony trichloride benzene complex	650-10000	Sol	Spec	Daasch	JCP	28 (1958)	1005
$SbC_6H_7O_3B$	Phenylstibonic acid	600-4000	S	Assign	Braunholtz	JCS	- (1959)	868
$SbC_6H_{12}Cl_3O_3$	Antimony trichloride dioxane	650-1000	S	Thermo., Symmetry	Daasch	SA	15 (1959)	726
SbC_9H_{15}	Tripropenyl antimony	800-1700	-	Spec, Config.	Nesmeyanov	TEL	8 (1960)	23
$SbC_9H_{15}Br_2$	Tripropenyl antimony bromide	800-1700	-	Spec, Config.	Nesmeyanov	TEL	8 (1960)	23
$SbC_9H_{15}Cl_2$	Tripropenyl antimony chloride	800-1700	-	Spec, Config.	Nesmeyanov	TEL	8 (1960)	23
$SbC_{12}H_{20}Br$	Tetrapropenyl antimony bromide	800-1700	-	Spec, Config.	Nesmeyanov	TEL	8 (1960)	23
$SbC_{12}H_{24}Cl_3O_6$	Antimony trichloride-dioxane	650-5000	S	Thermo., Symmetry	Daasch	SA	15 (1959)	726
$SbC_{15}H_{25}$	Pentapropenyl antimony	800-1700	-	Spec, Config.	Nesmeyanov	TEL	8 (1960)	23
$SbC_{18}H_{15}$	Triphenyl stibine	1045	Sol	Freq	Kross	JACS	77 (1955)	5858
		625-9000	Sol	Vibrations	Margoshes	SA	7 (1955)	14

$SbC_{18}H_{16}Br_4N$	Triphenyl ammonium tetrabromoantimonate	-	S	H bond, Freq	Nuttall	JCS	-	(1960)	4965
$SbC_{18}H_{16}Cl_4N$	Triphenyl ammonium tetrachloroantimonate	-	S	H bond, Freq	Nuttall	JCS	-	(1960)	4965
$SbC_{21}H_{27}F_6N$	Tri-p-tolyl ammonium hexafluoroantimonate	600-3400	S	Spec	Sharp	JCS	-	(1957)	4804
SbH	Antimony monohydride	-	-	FC	Sheline	JCP	18	(1950)	927
SbH_3	Stibene	-	-	FC	Gordy	JCP	14	(1946)	305
		5.3μ	G	Struct	Nielsen	JOSA	37	(1947)	296
		2-15μ	G	Spec	Smith	JCP	19	(1951)	384
		-	-	Struct	Nielsen	JCP	20	(1952)	759
		2-15μ	-	Mol. Const.	Haynie	JCP	21	(1953)	1839
		-	G	Vibrations, Band study	Huggins	JACS	75	(1953)	4126
		-	G	Vibrations	Gamo	CPR	238	(1954)	2305
		-	-	Molecular interaction	Meal	JCP	24	(1956)	1126
$Sb^{121}H_3$	Stibene-(isotopic)	-	-	Microwave	Jache	PR	97	(1955)	680
$Sb^{123}H_3$	Stibene-(isotopic)	-	-	Microwave	Jache	PR	97	(1955)	680
SbD_3	Stibene-d_3	2-15μ	G	Spec, Mol. Const.	Haynie	JCP	21	(1953)	1839
$Sb^{121}D_3$	Stibene-d_3 (isotopic)	-	-	Microwave	Jache	PR	97	(1955)	680
$Sb^{123}D_3$	Stibene-d_3 (isotopic)	-	-	Microwave	Jache	PR	97	(1955)	680
$SbBr_3$	Antimony tribromide	550-850	S	Assign, FC	Davies	JMS	2	(1958)	253
$SbClF_5NO$	Nitrosyl antimony pentafluorochloride	-	-	Freq, Spec	Waddington	ZAUA	304	(1960)	185

$SbCl_3$	Antimony trichloride	-	-	Freq	Howard	JCP	2 (1934)	630
		-	-	FC	Gordy	JCP	14 (1946)	305
		360	-	Freq	Hahn	JCP	24 (1956)	921
		85-550	S	Assign, FC	Davies	JMS	2 (1958)	253
		700-1900	G	Assign, I, Thermo.	Wilmshurst	JMS	5 (1960)	343
$SbCl_4NO$	Nitrosyl antimony tetrachloride nitrosyl compound	-	-	Freq, Spec	Waddington	ZAUA	304 (1960)	185
$SbCl_5$	Antimony pentachloride	1.5-16μ	L	Spec, Dispersion	Marvin	PR	34 (1912)	161
		190-420	G	Assign, Thermo., I	Wilmshurst	JMS	5 (1960)	343
SbF_5	Antimony pentafluoride	2-25μ	G	Spec	Akers	PR	95 (1954)	300
		200-1400	G	Freq, Thermo.	Gaunt	SA	10 (1958)	57
SbF_5K_2	Potassium pentafluoro antimonite	-	-	Struct	Mellish	TFS	51 (1955)	1311
SbN	Antimony nitride	-	-	Freq	Clark	TFS	33 (1937)	1390
SbF_6NO_2	Nitronium hexafluoro antimonate	2-16μ	S	Spec, Struct	Cook	JCP	33 (1960)	1669
SbO_3K	Potassium antimonate	400-4000	-	Spec, Assign, Struct	Siebert	ZAUA	301 (1959)	161
$SbO_3K.2.2H_2O$	Potassium antimonate 2.2 hydrate	400-4000	-	Spec, Struct, Assign	Siebert	ZAUA	301 (1959)	161
SbO_3Na	Sodium antimonate	400-4000	-	Spec, Struct, Assign	Siebert	ZAUA	301 (1959)	161
$SbO_4K.1.7H_2O$	Potassium peroxy antimonate 1.7 hydrate	400-4000	-	Constitution study	Siebert	ZAUA	301 (1959)	161
		-	-	Struct	Siebert	ZAUA	301 (1959)	316
$SbO_4K.1.8H_2O$	Potassium peroxy antimonate 1.8 hydrate	400-4000	-	Constitution study	Siebert	ZAUA	301 (1959)	161
		-	-	Struct	Siebert	ZAUA	301 (1959)	316

$SbO_4Na.2H_2O$	Sodium peroxy antimonate dihydrate	400-4000	-	Constitution study	Siebert	ZAUA	301 (1959)	161
		-	-	Struct	Siebert	ZAUA	301 (1959)	316
SbP	Antimony phosphide	-	-	Freq	Clark	TFS	33 (1937)	1390
SbS_4	Artimony tetrasulfide ion	-	-	FC	Pistorius	JCP	28 (1958)	514
SbAs	Antimony arsenide	-	-	Freq	Clark	TFS	33 (1937)	1390
$Sb_2C_6H_6Cl_6$	Antimony trichloride benzene complex	650-5000	S	Thermo.	Daasch	SA	15 (1959)	726
$Sb_2C_8H_{10}Cl_7N_3$	p-dimethylamino benzene diazonium chloride antimony trichloride	3-14μ	S	Freq	Gremillion	JACS	81 (1959)	6134
$Sb_2C_{12}H_{14}O_6$	Phenylstibonic acid (dimer)	600-4000	S	Freq	Braunholtz	JCS	- (1959)	868
Sb_2O_3	Antimony trioxide	2-15μ	S	Spec	Miller	AC	24 (1952)	1253
		2-15μ	S	Spec	Harkins	AC	31 (1959)	541
		300-880	S	Spec	Miller	SA	16 (1960)	135
Sb_2O_5	Antimony pentoxide	2-16μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$Sb_3HO_{12}K_2 \cdot 3.5H_2O$	Potassium triperoxy antimonate 3.5 hydrate	400-4000	-	Constitution study	Siebert	ZAUA	301 (1959)	161
		-	-	Struct	Siebert	ZAUA	301 (1959)	316

Sc COMPOUNDS

$ScC_{15}H_{21}O_6$	Scandium acetyl-acetonate	-	Sol	Spec	Freed	JCP	8 (1940)	840
ScF_4	Scandium (III)- fluoride complex	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762

ScF_4	Scandium (III)-fluoride complex ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
$ScN_3O_9 \cdot 4H_2O$	Scandium nitrate tetrahydrate	700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99

Sm COMPOUNDS

SmF_3	Samarium fluoride	-	S	Spec	Freed	JCP	8 (1940)	840
$SmN_3O_9 \cdot 6H_2O$	Samarium nitrate hexahydrate	700-1600	S	Absorption freq	Ferraro	JMS	4 (1960)	99

Sn COMPOUNDS

$SnCH_3I_3$	Methyl stanic iodide	500-3500	Sol,S	Spec, Freq	Okawara	JACS	82 (1960)	3287
$SnCH_3O$	Methyl tin oxide	400-1500	S	Assign, Freq	Brown	SA	16 (1960)	595
$SnC_2H_6Br_2$	Dimethyl stannic bromide	500-3500	S,Sol	Spec, Freq	Okawara	JACS	82 (1960)	3287
$SnC_2H_6Cl_2$	Dimethyl stannic chloride	500-3500	Sol	Spec	Okawara	JACS	82 (1960)	3287
$SnC_2H_6I_2$	Dimethyl stannic iodide	700-3000	S	Assign	Lippincott	JPC	57 (1953)	939
SnC_2H_6O	Dimethyl tin oxide	400-1500	S	Freq, Assign	Brown	SA	16 (1960)	595
$SnC_2H_8Br_4N_4O_2$	Tin (IV) tetrabromide complex with urea	-	-	Spec	Bystrov	OS	9 (1960)	460

$SnC_2H_8Cl_4N_4O_2$	Tin (IV) tetrachloride complex with urea	-	-	Spec	Bystrov	OS	9 (1960)	460
$SnC_2H_8Br_4N_4S_2$	Tin (IV) tetrabromide complex with thiourea	-	-	Spec	Bystrov	OS	9 (1960)	460
$SnC_2H_8Cl_4N_4S_2$	Tin (IV) tetrachloride complex with thiourea	-	-	Spec	Bystrov	OS	9 (1960)	460
$SnC_3H_7ClO_2$	Dimethylmonocarboxy stannic chloride	4-14 μ	S	Spec, Freq	Okawara	JACS	82 (1960)	3287
SnC_3H_9Br	Trimethyl stannic bromide	-	-	Ident	Pedley	TFS	53 (1957)	1612
		500-3500	L,Sol	Spec, Freq	Okawara	JACS	82 (1960)	3287
SnC_3H_9F	Trimethyl stannic fluoride	500-3500	S	Spec, Freq	Okawara	JACS	82 (1960)	3287
SnC_3H_9I	Trimethyl stannic iodide	704-4350	L	Assign	Lippincott	JPC	57 (1953)	939
		500-3500	Sol,L	Spec, Freq	Okawara	JACS	82 (1960)	3287
$SnC_4H_8O_4$	Dimethyllin dicarboxylate	400-3000	S	Spec, Freq	Okawara	JACS	82 (1960)	3287
$SnC_4H_{10}O_2$	Trimethyl tin monocarboxylate	400-3000	S	Spec, Freq	Okawara	JACS	82 (1960)	3287
$SnC_4H_{11}Cl_3O_2$	Ethoxytin trichloride ethanolate	2-15.5 μ	S	Spec	Laubengayer	JACS	76 (1954)	5985
SnC_4H_{12}	Tetramethyl tin	1-16 μ	G	Spec	Kettering	P	4 (1933)	39
		-	-	Spec, Freq	Pai	PRS	149 (1935)	29
		-	-	Assign	Anderson	JCP	4 (1936)	161
		-	-	Potential barrier	French	JCP	14 (1946)	389

		-	-	Potential barrier	French	JCP	14 (1946)	389
		-	-	Freq, Assign	Young	JACS	69 (1947)	1410
		-	-	FC	Sheline	JCP	18 (1950)	595
		-	-	FC	Sheline	JCP	18 (1950)	602
		520-3700	G,L	I, Assign	Lippincott	JACS	75 (1953)	4141
		-	-	Ident	Edgell	JACS	76 (1954)	1169
		1200	-	Freq	Sheppard	TFS	51 (1955)	1465
		-	-	Ident	Pedley	TFS	53 (1957)	1612
		2-25 μ	L,G	Spec, Freq	Dillard	JOSA	50 (1960)	1271
$SnC_4H_{12}Cl_4O_2S_2$	Tin (IV)-dimethyl sulfoxide complex chloride	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534
$SnC_6H_5Cl_3$	Phenyl tin trichloride	650-3500	L,Sol	Assign, Freq	Griffith	JMS	5 (1960)	148
SnC_6H_{16}	Dimethyldiethyl tin	2-25 μ	L,G	Spec, Freq	Dillard	JOSA	50 (1960)	1271
$SnC_6H_{18}C_2Si_2$	Tin (II)-trimethyl silanolate	2-16 μ	Sol	Spec	Tatlock	JOC	17 (1952)	1555
SnC_7H_{18}	Methyl triethyl tin	2-25 μ	L,G	Spec, Freq	Dillard	JOSA	50 (1960)	1271
$SnC_8H_{10}Cl_5N_3 \cdot \frac{1}{2}H_2O$	p-dimethylamino-benzene diazonium chloride tin tetrachloride semihydrate	3-14 μ	S	Freq	Gremillion	JACS	81 (1959)	6134
SnC_8H_{12}	Tetravinyl tin	650-3500	L	Freq, Assign	Kaesz	SA	15 (1959)	360

$SnC_8H_{18}Cl_2$	Dibutyl tin dichloride	300-3200	S,Sol	Spec, Freq	Tobin	JMS	5 (1960)	65
SnC_8H_{20}	Tetraethyl tin	650-3500	L	Spec, Assign	Kaesz	SA	(1959)	360
		2-25 μ	L,G	Spec, Freq	Dillard	JOSA	50 (1960)	1271
		-	-	Spec, Assign	Hoffman	ZE	64 (1960)	616
$SnC_8H_{24}O_2Si_2$	Bis-(trimethyl-siloxy)dimethyl tin	2-16 μ	S	Spec	Tatlock	JOC	17 (1952)	1555
$SnC_{10}H_{10}$	Cyclopentadienyl tin	400-4000	Sol	Spec, Struct	Dave	JCS	- (1959)	3684
$SnC_{12}H_{10}Cl_2$	Diphenyl tin dichloride	650-3500	S,Sol	Freq, Assign	Griffiths	JMS	5 (1960)	148
$SnC_{12}H_{10}O$	Diphenyl tin oxide	-	-	Comparison	Gilman	JOC	20 (1955)	763
$SnC_{12}H_{36}O_4Si_4$	Tin (IV)-trimethyl silanolate	2-16 μ	S	Spec	Tatlock	JOC	17 (1952)	1555
$SnC_{18}H_{15}Cl$	Triphenyl tin chloride	650-3500	S,Sol	Assign, Freq	Griffiths	JMS	5 (1960)	148
$SnC_{18}H_{15}O$	Triphenyl tin oxide	-	-	Comparison	Gilman	JOC	20 (1955)	763
$SnC_{18}H_{16}Br_5N$	Triphenylammonium pentachlorostannate	-	S	H bond, Freq	Nuttall	JCS	- (1960)	4965
$SnC_{18}H_{16}O$	Triphenyl tin hydroxide	-	Sol	H bond	West	JACS	82 (1960)	6269
$SnC_{19}H_{15}Cl_5$	Triphenyl methyl-pentachloro-stannate	600-3400	S	Spec	Sharp	JCS	- (1957)	4804
$SnC_{24}H_{20}$	Tetraphenyl tin	-	-	Ident	Gilman	JOC	18 (1953)	680

$SnC_{24}H_{20}$	Tetraphenyl tin	-	-	Ident	Gilman	JOC	18 (1953)	680
		-	-	Ident, Anal	Gilman	JOC	18 (1953)	1554
		-	-	Comparison	Gilman	JOC	20 (1955)	763
		1075	Sol	Freq	Kross	JACS	77 (1955)	5858
		625-900	Sol	Vibrations	Margoshes	SA	7 (1955)	14
		8-11μ	S	Band study	Noltes	CIL	- (1959)	298
		650-3500	S,Sol	Assign, Freq	Griffith	JMS	5 (1960)	148
$SnC_{25}H_{20}O_2$	p-Carboxyphenyl-triphenyl tin	-	-	Comparison	Gilman	JOC	20 (1955)	763
$SnC_{36}H_{30}Br_4O_2P_2$	Tin (IV) bromide-triphenylphosphine oxide add. compd.	1100-1300	S	P-O band	Sheldon	JACS	80 (1958)	4775
$SnC_{36}H_{30}Cl_4O_2P_2$	Tin (IV) choride-triphenylphosphine oxide add. compd.	1100-1300	S	P-O band	Sheldon	JACS	80 (1958)	4775
$SnC_{36}H_{32}Cl_6N_2$	Triphenyl ammonium hexafluorostannate	-	S	H bond, Freq	Nuttall	JCS	- (1960)	4965
SnH	Tin monohydride	-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
$SnHF_5OK_2.H_2O$	Tin (IV)-fluoride, hydroxide, complex (potassium salt) monohydrate	-	-	Spec, Config., FC	Kriegsman	NWS	47 (1960)	393
SnH_4	Stannate	-	-	FC	Gordy	JCP	14 (1946)	305
$SnH_8Cl_6N_2$	Diammonium tin hexa-chloride	-	S	Freq	Cox	JCS	- (1954)	1798
SnH_8F_6N	Tin (IV)-fluoride complex (ammonium salt)	-	-	Spec, Config., FC	Kriegsman	NWS	47 (1960)	393
$SnH_{10}F_6N_4$	Tin (IV)-fluoride complex (hydrazinium salt)	-	-	Spec, Config., FC	Kriegsman	NWS	47 (1960)	393
$SnBr_4$	Tin tetrabromide	-	-	Vibrations	Urey	PR	38 (1931)	1969
		-	-	Freq	Villars	CR	11 (1932)	369
		-	-	Vibrations	Rosenthal	PR	46 (1934)	730
		-	-	FC	Rosenthal	PR	49 (1936)	535
		-	-	FC	Gordy	JCP	14 (1946)	305

		-	-	Force field	Heath	TFS	44 (1948)	561
		-	-	Force field	Heath	TFS	44 (1948)	878
		-	-	Force field	Linnett	TFS	48 (1952)	592
		-	-	FC	Gaunt	TFS	50 (1954)	546
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2365
		220	-	Freq	Hahn	JCP	24 (1956)	921
		-	-	FC	Pistorius	JCP	28 (1958)	514
$SnCl_2 \cdot 2H_2O$	Stannous chloride dihydrate	800-4000	S	Vibrations	Lucchesi	JACS	78 (1956)	1347
$SnCl_4$	Tin tetrachloride	1.5-16 μ	L	Spec, Dispersion	Marvin	PR	34 (1912)	161
		0.8-2.0 μ	L	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
		-	-	Vibrations	Urey	PR	38 (1931)	1969
		-	-	Freq	Villars	CR	11 (1932)	369
		-	-	Vibrations	Rosenthal	PR	46 (1934)	730
		-	-	Thermo.	Herman	JCP	6 (1938)	406
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Force field	Heath	TFS	44 (1948)	561
		-	-	Force field	Heath	TFS	44 (1948)	878
		-	-	Force field	Linnett	TFS	48 (1952)	592
		-	-	FC	Bowers	JCP	21 (1953)	1117
		-	-	FC	Gaunt	TFS	50 (1954)	546
		366	-	Freq	Hahn	JCP	24 (1956)	921
		-	-	FC	Pistorius	JCP	28 (1958)	514
$SnCl_4 \cdot 5H_2O$	Stannic chloride pentahydrate	800-4000	S	Vibrations	Lucchesi	JACS	78 (1956)	1347
$SnCl_6$	Tin hexachloride ion	314	-	Freq	Hahn	JCP	24 (1956)	921
$SnCl_{10}O_2P_2$	Phosphorous oxychloride stannic chloride complex	1100-1300	S	Band study	Sheldon	JACS	80 (1958)	4775
SnF_4	Tin tetrafluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
$SnF_6K_2 \cdot H_2O$	Tin (IV)-fluoride	-	-	Spec, Config., FC	Kriegsman	NWS	47 (1960)	393

$SnF_6K_2.H_2O$	Tin (IV)-fluoride complex (potassium salt) monohydrate	-	-	Spec, Config., FC	Kriegsman	NWS	47 (1960)	393
SnO	Tin monoxide	-	-	FC	Baughan	TFS	53 (1957)	1046
SnO_2	Tin oxide	1-8μ	S	Emission	Coblentz	BBS	5 (1908)	159
		22-310μ	S	Reflectance	Weniger	JOSA	7 (1923)	517
SnO_3Ba	Barium stannate	350-700	-	Freq, Assign, FC	Yatsenko	IANS	22 (1958)	1456
SnO_3Sr	Strontium stannate	350-700	-	Freq, Assign, FC	Yatsenko	IANS	22 (1958)	1456
SnO_7P_2	Tin pyrophosphate	-	-	Spec	Steiger	ZAUA	303 (1960)	169
$Sn_2C_4H_{12}Cl_2O$	1,3-Dichloro-tetramethyl distannoxane	400-1500	S	Freq, Assign	Brown	SA	16 (1960)	595
$Sn_2C_{36}H_{30}$	Hexaphenylditin	-	-	Ident	Gilman	JOC	18 (1953)	680
		-	-	Anal, Ident	Gilman	JOC	18 (1953)	1554
		-	-	Comparison	Gilman	JOC	20 (1955)	763
$Sn_2C_{42}H_{42}$	Hexa-o-tolylditin	-	-	Ident	Gilman	JOC	18 (1953)	1554
$Sn_3C_6H_{18}S_3$	Dimethyl tin sulfide (trimer)	400-1500	S,Sol	Freq, Assign	Brown	SA	16 (1960)	595

Sr COMPOUNDS

$SrCH_3O_3P.2H_2O$	Strontium methyl phosphonate dihydrate	2-15μ	S	Spec, Group freq, I	Corbridge	JCS	- (1954)	4555
$SrCO_3$	Strontium carbonate	2-16μ	S	Spec	Hunt	AC	22 (1950)	1478
		11-12.5μ	S	Spec, Freq	Underwood	JACS	77 (1955)	317

		2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
		1-15μ	S	Spec, Assign	Narayanan	JIIS	40 (1958)	1
		300-880	S	Spec	Miller	SA	16 (1960)	135
$SrC^{12}O_3$	Strontium carbonate (isotopic)	858	S	Intermolecular coupling	Decius	JCP	22 (1954)	1946
$SrC^{13}O_3$	Strontium carbonate (isotopic)	858	S	Intermolecular	Decius	JCP	22 (1954)	1946
$SrC_4H_{12}O_4P_2 \cdot xH_2O$	Strontium bis-dimethyl phosphinate polyhydrate	737-3270	S	I, Freq	Corbridge	JCS	- (1954)	4555
$SrC_{10}H_{12}N_2O_8Na_2 \cdot 5H_2O$	Strontium (II)-ethylenediamine tetraacetic acid complex (sodium salt)pentahydrate	800-3000	S	Spec, Freq	Sawyer	JACS	80 (1958)	1597
$SrC_{48}H_{32}Cl_2N_6O_8 \cdot 4H_2O$	Strontium (II)-phenanthroline complex perchlorate tetrahydrate	600-2000	S	Spec	Schilt	JINC	9 (1959)	211
SrH	Strontium hydride	-	-	FC	Platt	JCP	18 (1950)	932
		-	-	FC	Sheline	JCP	18 (1950)	927
$SrHO_3P.H_2O$	Strontium ortho-phosphite mono-hydrate	2-15μ	S	Group freq, I, Assign	Corbridge	JCS	- (1954)	493
$SrH_3N_3O_4P_3Na \cdot 4H_2O$	Sodium strontium triphosphonitrilate tetrahydrate	820-3230	S	I, Freq	Corbridge	JCS	- (1954)	4555
$SrH_4O_4P_2$	Strontium phosphi-nate	2-15μ	S	Spec, Freq, I, Assign	Corbridge	JCS	- (1954)	493

$SrBr_2.6H_2O$	Strontium bromide hexahydrate	800-4000	S	Spec	Lucchesi	JACS	78 (1956)	1347
$SrCl_2$	Strontium chloride	2-4 μ	Sol	Spec	Angstrom	PR	3 (1914)	47
		0.8-2.3 μ	Sol	Spec	Collins	PR	20 (1922)	486
$SrCl_2.6H_2O$	Strontium chloride hexahydrate	800-4000	S	Spec	Lucchesi	JACS	78 (1956)	1347
$SrF_3P.xH_2O$	Strontium monofluorophosphate polyhydrate	2-15 μ	S	Spec, I, Freq	Corbridge	JCS	- (1954)	4555
SrF_2	Strontium fluoride	-	-	Polarizability theory	Szigeti	TFS	45 (1949)	155
SrN_2O_6	Strontium nitrate	2-16 μ	S	Spec, Freq	Miller	AC	24 (1952)	1253
		700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
		300-880	S	Spec	Miller	SA	16 (1960)	135
SrN_6	Strontium azide	635-3100	S	Freq, FC	Gray	TFS	53 (1957)	901
SrO	Strontium oxide	-	-	Polarizability theory	Szigeti	TFS	45 (1949)	155
		-	-	Freq	Szigeti	PRS	204 (1950)	51
SrO_2	Strontium dioxide	2-16 μ	S	Spec, Struct	Brame	JINC	4 (1957)	90
$SrO_3PSNa.8H_2O$	Sodium strontium phosphoromonothioate octahydrate	844-3140	S	I, Freq	Corbridge	JCS	- (1954)	4555
SrO_3Ti	Strontium titanate	-	S	Absorption	Linz	PR	91 (1953)	753
		2-15 μ	S	Spec	Mara	PR	96 (1954)	801
		0.35-15 μ	S	Spec	Noland	PR	94 (1954)	724
SrO_4S	Strontium sulphate	1-7.5 μ	S	Spec	Coblentz	BBS	2 (1907)	457
		5-12 μ	S	Reflectance, Spec	Coblentz	BBS	2 (1907)	457
		5-50 μ	S	Absorption	Cartwright	PR	35 (1930)	415

		2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
		300-880	S	Spec	Miller	SA	16 (1960)	135
SrO_4Cr	Strontium chromate	2-15μ	S	Spec	Harkins	AC	31 (1959)	541
SrO_4Mo	Strontium molybdate	290-650	S	Assign	Duval	CPR	239 (1954)	249
SrO_4W	Strontium tungstate	290-650	S	Assign	Duval	CPR	239 (1954)	249
SrS	Strontium sulphide	-	-	IR-sensitive phosphor	Mason	JACS	71 (1949)	509
SrSe	Strontium selenide	-	-	IR-sensitive phosphoresence	Ellickson	PR	69 (1946)	5342
		-	-	Stimulation spec of phosphors	Smith	JACS	69 (1947)	1725
		-	-	IR sensitive phosphors	Mason	JACS	71 (1949)	509
		-	-	IR sensitive phosphors	Texin	JACS	71 (1949)	2494
$Sr_2O_6P_2 \cdot 2H_2O$	Distrontium hypophosphate dihydrate	848-3360	S	I, Freq	Corbridge	JCS	- (1954)	4555
$Sr_2O_7P_2$	Distrontium pyrophosphate	2-15μ	S	Freq, Assign, I	Corbridge	JCS	- (1954)	493
$Sr_2O_8P_2 \cdot xH_2O$	Distrontium peroxy diphosphate polyhydrate	732-3350	S	I, Freq	Corbridge	JCS	- (1954)	4555
$Sr_2O_{12}P_4 \cdot 5H_2O$	Distrontium tetrametaphosphate pentahydrate	2-15μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
Sr_3Cl_2OS	Strontium sulfide-strontium chloride-strontium oxide	-	-	IR sensitive phosphor	Prener	JACS	71 (1949)	1803
$Sr_3O_8P_2$	Tristrontium orthophosphate	2-15μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493
		290-650	S	Assign	Duval	CPR	239 (1954)	249
		2-16μ	S	Spec	Meloche	JINC	6 (1958)	104
$Sr_3O_{18}P_6 \cdot 7H_2O$	Tristrontium trimetaphosphate	2-15μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493

$Sr_3O_{18}P_6 \cdot 7H_2O$	Tristrontium trimetaphosphate heptahydrate	2-15 μ	S	Freq, I, Assign	Corbridge	JCS	- (1954)	493

Ta COMPOUNDS

$TaC_{10}H_{10}Br_3$	Tantalum (V)-cyclopentadiene complex bromide	2-15 μ	S	Spec	Wilkinson	JACS	76 (1954)	4281
TaF_4	Tantalum tetrafluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
TaF_7	Tantalum (V)-fluoride complex ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762

Te COMPOUNDS

TeCS	Thiocarbonyl telluride	-	-	Microwave	Hardy	PR	95 (1954)	385
		2-15 μ	Sol	Spec, Ident	Wentik	JCP	29 (1958)	188
TeH	Tellurium hydride	-	-	FC	Sheline	JCP	18 (1950)	927
TeH_2	Hydrogen telliodide	-	-	FC	Gordy	JCP	14 (1946)	305
		3.8-5.5 μ	G	Spec	Jarrell	PR	76 (1949)	199
		870-2000	G	Spec, Mol. Const.	Rossman	JCP	24 (1956)	1276
		-	-	Band study, Mol. Const.	Orssmann	DA	19 (1958)	341
$TeH_4O_6K_2 \cdot 3H_2O$	Potassium tellurate trihydrate	400-4000	-	Spec	Siebert	ZAUA	- (1959)	301
$TeH_4O_6Na_2$	Sodium tellurate	400-4000	-	Spec	Siebert	ZAUA	- (1959)	301

TeH_6O_6	Telluric acid	400-4000	-	Spec	Siebert	ZAUA	- (1959)	301
$TeBr_2$	Tellurium bromide	-	-	FC	Gordy	JCP	14 (1946)	305
$TeCl_2$	Tellurium dichloride	-	-	FC, Bond dist.	Gordy	JCP	14 (1946)	305
$TeCl_4$	Tellurium tetrachloride	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
TeF_6	Tellurium hexafluoride	-	-	Quant. Mech.	Wilson	JCP	2 (1934)	432
		-	-	Quant. Mech.	VanVleck	JCP	7 (1939)	72
		-	-	FC	Heath	TFS	45 (1949)	264
		-	-	FC	Linnett	TFS	48 (1952)	592
		400-5000	G	Spec, Assign, Thermo.	Gaunt	TFS	49 (1953)	1122
		-	-	FC	Gaunt	TFS	50 (1954)	546
		25-40 μ	G	Freq	Gaunt	TFS	51 (1954)	893
		677	-	Freq	Hahn	JCP	24 (1956)	921
		-	-	FC	Califano	AAN	25 (1958)	284
		-	-	Jahn-Teller effect	Weinstock	JCP	31 (1959)	262
TeO_2	Tellurim dioxide	-	-	Anal	Duchesne	JCP	15 (1947)	631
TeS	Tellurium sulfide	-	-	Freq	Clark	TFS	33 (1937)	1390
		-	-	Freq	Clark	TFS	33 (1937)	1394
TeSe	Tellurium selenium	-	-	Freq	Clark	TFS	33 (1937)	1390
		-	-	Freq	Clark	TFS	33 (1937)	1394
		3-8 μ	S	Photo response	Loferski	PR	93 (1954)	707
Te_2	Tellurium	0.5-9 μ	S	Reflectance	Coblentz	BBS	7 (1911)	197
		-	-	Absorption	Cartwright	PR	35 (1930)	415
		-	-	Spec	Ruedy	PR	41 (1932)	588
		1-11 μ	S	Transmission	Pfund	JOSA	23 (1933)	375
		0.185-10 μ	S	Reflectance	Andrews	PR	51 (1937)	1017
		-	-	Freq	Clark	TFS	33 (1937)	1394
		-	-	FC	Sutherland	JCP	8 (1940)	161
		-	-	FC	Linnett	TFS	38 (1942)	1
		4.5-10 μ	S	Transmission	Loferski	PR	83 (1951)	876
		-	-	Polarization	Loferski	PR	86 (1952)	652

		-	-	Polarization	Loferski	PR	86 (1952)	652
		3-9 μ	S	Spec	Loferski	PR	87 (1952)	905
		1-6 μ	S	Spec	Plyler	JOSA	42 (1952)	266
		0.8-20 μ	S	Reflectance	Agnew	JOSA	43 (1953)	999
		4-25 μ	S	Spec	Caldwell	PR	94 (1954)	1427
		-	-	Absorption	Callen	JCP	22 (1954)	518
		3.6-8 μ	S	Refractive index	Hartig	JOSA	44 (1954)	17
		3-9 μ	S	Spec	Loferski	PR	93 (1954)	707
		5-25 μ	S	Usage	Greenler	JOSA	45 (1955)	788
		-	S	Pressure effect on absorption	Neuringer	PR	98 (1955)	1193
Te_2F_{10}	Tellurium deca-fluoride	2-25 μ	G	Spec, Freq, Assign	Dodd	TFS	53 (1957)	1545
Te_3As_2	Arsenic tritelluride	-	S	Glasses	Fraser	JOSA	43 (1953)	823

Th COMPOUNDS

$ThC_{10}H_{12}N_2O_8 \cdot 9H_2O$	Thorium (IV)-ethylenediamine nonahydrate	800-1800	S	Spec	Donald	JACS	82 (1960)	4191
$ThC_{24}H_{54}O_{12}P_3$	Thorium (III)-di-n-butyl phosphate	714-5000	S	Interaction study	Smith	JINC	9 (1959)	150
ThF_4	Thorium tetra-fluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
ThI_4O_{12}	Thorium (IV)-iodate	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429
ThN_4O_{12}	Thorium (IV)-nitrate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104

$ThN_4O_{12}\cdot 4H_2O$	Thorium nitrate tetrahydrate	300-880	S	Spec	Miller	SA	16 (1960)	135
$ThN_4O_{12}\cdot 5H_2O$	Thorium nitrate pentahydrate	700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
ThO_2	Thorium oxide	1-8 μ	S	Spec	Coblentz	BBS	5 (1908)	159
		-	S	Emission	Pirani	JSI	16 (1939)	372

Ti COMPOUNDS

$TiC_3H_6Cl_4O$	Acetone titanium tetrachloride adduct	-	-	Spec	Cassimatis	HCA	43 (1960)	424
$TiC_4H_6Br_4N_2$	Titanium (IV) bromide complex with methyl-cyanide	600-3000	-	Spec, Struct, Assign	Rao	ZAUA	304 (1960)	351
$TiC_4H_6Cl_4N_2$	Titanium (IV) chloride complex with methyl-cyanide	400-3000	-	Spec, Struct, Assign	Rao	ZAUA	304 (1960)	351
$TiC_4H_6F_4N_2$	Titanium (IV) fluoride complex with methyl-cyanide	400-3000	-	Spec, Struct, Assign	Rao	ZAUA	304 (1960)	351
$TiC_4H_8Br_4O_2$	Titanium (IV)-dioxane complex bromide	500-1500	S	Spec, Struct	Hendra	JCS	- (1960)	5105
$TiC_4H_{12}O_4$	Titanium methoxide	-	-	Spec, Assign	Kriegsman	ZE	62 (1958)	1163
$TiC_5H_5F_4N$	Titanium tetra-fluoride-2-pyri-dine	660-3000	-	Spec	Rao	NWS	46 (1959)	556
$TiC_5H_5I_4N$	Titanium tetraiodide 2-pyridine	660-3000	-	Spec	Rao	NWS	46 (1959)	556

$TiC_5H_5I_4N$	Titanium tetraiodide-2-pyridine	660-3000	-	Config.	Rao	NWS	46 (1959)	556
$TiC_6H_{10}Br_4N_4$	Titanium (IV)-bromide complex with ethyl-cyanide	600-3000	-	Spec, Struct, Assign	Rao	ZAUA	304 (1960)	351
$TiC_6H_{10}Cl_4N_4$	Titanium (IV)-chloride complex with ethyl-cyanide	600-3000	-	Spec, Struct, Assign	Rao	ZAUA	304 (1960)	351
$TiC_6H_{10}F_4N_4$	Titanium (IV)-fluoride complex with ethyl-cyanide	600-3000	-	Spec, Struct, Assign	Rao	ZAUA	304 (1960)	351
$TiC_7H_5Cl_5O$	Benzoyl chloride titanium tetrachloride adduct	-	S	Spec	Cassimatis	HCA	43 (1960)	424
$TiC_8H_{20}O_4$	Titanium ethoxide	-	-	Spec, Assign	Kriegsmann	ZE	62 (1958)	1163
$TiC_{10}H_{10}Br_2$	Ttanium (IV)-cyclo-pentadiene, bromide complex	- 2-15 μ	- S	Struct Spec	Wilkinson Wilkinson	JACS JACS	75 (1953) 76 (1954)	1011 4281
$TiC_{10}H_{10}Br_4N_2$	Titanium (IV)-bromide, pyridine complex	600-3000	-	Spec	Rao	ZAUA	304 (1960)	176
$TiC_{10}H_{10}Cl_4N_2$	Titanium (IV)-chloride pyridine complex	400-3000	-	Spec	Rao	ZAUA	304 (1960)	176
$TiC_{10}H_{10}F_4N_2$	Titanium (IV)-fluoride pyridine complex	660-3000 400-3000	- -	Config. Spec	Rao Rao	NWS ZAUA	46 (1959) 304 (1960)	556 176
$TiC_{10}H_{10}I_4N_2$	Titanium (IV)-iodide, pyridine complex	660-3000 400-3000	- -	Config. Spec	Rao Rao	NWS ZAUA	46 (1959) 304 (1960)	556 176
$TiC_{10}H_{14}N_2O_9 \cdot H_2O$	Titanyl (IV)-ethylene-diamine tetraacetic acid monohydrate	800-1800	S	Spec	Donald	JACS	82 (1960)	4191

$TiC_{10}H_{14}O_5$	Titanyl acetyl acetonate	1000	S	Assign	Barraclough	JCS	- (1959)	3552
$TiC_{12}H_{16}$	Titanium (IV)-cyclo-pentadiene, methyl complex	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
$TiC_{12}H_{28}O_4$	Titanium tetraiso-propoxide	2-15 μ	Sol	Spec, Freq, I	Bell	AC	25 (1953)	1720
		600-3000	Sol	Spec, Assign	Zeitler	JPC	61 (1957)	1174
		-	-	Spec, Assign	Kriegsmann	ZE	62 (1958)	1163
$TiC_{12}H_{28}O_4$	Titanium-n-propoxide	-	-	Spec, Assign	Kriegsmann	ZE	62 (1958)	1163
$TiC_{12}H_{36}O_4Si_4$	Tetrakis (trimethyl-siloxy) titanium	600-3000	Sol	Spec, Assign	Zeitler	JPC	61 (1957)	1174
		-	-	Spec, Assign	Kriegsmann	ZE	62 (1958)	1163
$TiC_{14}H_{10}Br_4N_2$	Titanium (IV)-bromide complex with phenyl-cyanide	600-3000	-	Spec, Struct, Assign	Rao	ZAUA	304 (1960)	351
$TiC_{14}H_{10}Cl_4N_2$	Titanium (IV)-chloride complex with phenyl-cyanide	600-3000	-	Spec, Struct, Assign	Rao	ZAUA	304 (1960)	351
$TiC_{14}H_{10}F_4N_2$	Titanium (IV)-fluoride complex with phenyl-cyanide	600-3000	-	Spec, Struct, Assign	Rao	ZAUA	304 (1960)	351
$TiC_{16}H_{36}O_4$	Tetra-n-butoxy titanium	600-3000	Sol	Spec, Assign	Zeitler	JPC	61 (1957)	1174
		-	-	Spec, Assign	Kriegsmann	ZE	62 (1958)	1163
$TiC_{16}H_{36}O_4$	Titanium tetratert-butoxide	665-5000	L	Freq	Ory	AC	32 (1960)	509
$TiC_{36}H_{30}Cl_4O_2P_2$	Titanium (IV)chloride-triphenylphosphine oxide add. compd.	1100-1300	S	P-O band	Sheldon	JACS	80 (1958)	4775
$TiC_{72}H_{60}O_4Si_4$	Tetrakis (triphenyl-siloxy) titanium	600-3000	S	Spec, Assign	Zeitler	JPC	61 (1957)	1174

$TiC_{96}H_{80}O_{10}Si_8$ | 16-Phenyl octa-siloxyspiro [9.9] | 600-3000 | Sol | Spec, Assign | Zeitler | JPC | 61 (1957) | 1174

$TiC_{96}H_{80}O_{10}Si_8$	16-Phenyl octasiloxyspiro [9.9] titanate	600–3000	Sol	Spec, Assign	Zeitler	JPC	61 (1957)	1174
TiH	Titanium hydride	-	-	FC	Platt	JCP	18 (1950)	932
$TiH_8F_6N_2$	Diammonium titanium hexafluoride	-	S	Freq	Cox	JCS	- (1954)	1798
$TiBr_4$	Titanium tetra-	185–3000	L,Sol	Assign, Thermo., FC	Miller	SA	16 (1960)	6
$TiBr_{10}O_2P_2$	Phosphorous oxybromide titanium bromide complex	1100–1300	S	Bonding	Sheldon	JACS	80 (1958)	4775
$TiCl_3$	Titanium trichloride	1–15 μ	Sol	Spec	Lagerquist	AF	12 (1957)	491
$TiCl_4$	Titanium tetrachloride	1.5–16 μ	L	Spec	Marvin	PR	34 (1912)	161
		0.8–2.0 μ	L	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
		-	-	Vibration	Urey	PR	38 (1931)	1969
		-	-	Freq	Villars	CR	11 (1932)	369
		-	-	Vibration	Rosenthal	PR	46 (1934)	730
		-	-	FC	Rosenthal	PR	49 (1936)	535
		-	-	Thermo.	Herman	JCP	6 (1938)	406
		-	-	FC	Gordy	JCP	14 (1946)	305
		-	-	Force field	Heath	TFS	44 (1948)	561
		2–15 μ	L	Spec, Assign	Johannesen	JRNB	53 (1954)	197
		-	G	Thermo.	Farber	JCP	23 (1955)	1460
		6–22 μ	G	Spec, FC, Thermo.	Hawkins	JCP	23 (1955)	1700
		-	-	FC	Horton	JCP	23 (1955)	1727
		-	-	FC	Venkateswarlu	JCP	23 (1955)	2365
		386	-	Freq	Hahn	JCP	24 (1956)	921
		-	-	FC	Pistorius	JCP	28 (1958)	514
		400–3000	-	Spec	Rao	ZAUA	304 (1960)	176
		400–3000	-	Spec	Rao	ZAUA	304 (1960)	176
$TiCl_7OP$	Phosphorous oxychloride Titanium tetrachloride complex	1100–1300	S	Bonding	Sheldon	JACS	80 (1958)	4775

$TiCl_{10}O_2P_2$	Phosphorous oxychloride Titanium tetrachloride complex	1100-1300	S	Bonding	Sheldon	JACS	80 (1958)	4775
TiF_4	Titanium tetrafluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
		400-3000	-	Spec, Freq	Rao	ZAUA	304 (1960)	176
TiF_4	Titanium (III)-complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
$TiI_6O_{18}K_2$	Potassium Titanium (IV) iodate	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429
TiO	Titanium monoxide	-	-	FC	Badger	JCP	2 (1934)	128
		-	-	Mol. Const.	Pekeris	PR	45 (1934)	98
		20.7-152 μ	S	Reflection	Seifert	RSI	11 (1940)	365
		-	-	FC	Linnett	TFS	38 (1942)	1
TiO_2	Titanium dioxide	2-15 μ	S	Absorption	Filimonov	OS	5 (1958)	709
		2-15 μ	S	Spec	Harkins	AC	31 (1959)	541
		300-880	S	Spec	Miller	SA	16 (1960)	135
TiO_3Ba	Barium titanate	300-1000	S	Spec, I	Last	PR	105 (1957)	1740
		350-700	-	Assign, Freq, FC	Yatsenko	IANS	22 (1958)	1456
TiO_3Ca	Calcium titanate	300-1000	S	Spec, Struct	Last	PR	105 (1957)	1740
		350-700	-	Freq, Assign, FC	Yatsenko	IANS	22 (1958)	1456
TiO_3Pb	Lead titanate	300-1000	S	Spec, Struct	Last	PR	105 (1957)	1740
		350-700	-	Freq, Assign, FC	Yatsenko	IANS	22 (1958)	1456
TiO_3Sr	Strontium titanate	300-1000	S	Spec, Struct	Last	PR	105 (1957)	1740
		350-700	-	Freq, Assign, FC	Yatsenko	IANS	22 (1958)	1456
TiO_7P_2	Titanium pyrophosphate	-	-	Spec	Steger	ZAUA	303 (1960)	169

$TlCNO$	Thallium isocyanate	-	S	Spec	Waddington	JCS	-	(1959)	2499
TlC_5H_5	Cyclopentadienyl thallium	4.7 μ	G	Struct	Cotton	JACS	80	(1958)	269
$TlC_5H_7O_2$	Thallium acetyl acetonate	625-5000	S	Spec, Struct	West	JINC	5	(1958)	295
$TlC_{24}H_{16}ClN_4O_4$	Thallium-1:10-phenanthroline complex perchlorate	600-2000	S	Spec	Schilt	JINC	9	(1959)	211
TlH	Thallium monohydride	-	-	FC	Platt	JCP	18	(1950)	932
		-	-	FC	Sheline	JCP	18	(1950)	927
$TlBr$	Thallous bromide	0.3-0.5 μ	S	Photoelectric properties	Coblentz	BBS	18	(1922)	489
		117 μ	S	Residual rays	Weniger	JOSA	7	(1923)	517
		117 μ	S	Residual rays	Schaefer	TFS	25	(1929)	841
		10-130 μ	S	Reflection, Spec	Barnes	PR	39	(1932)	562
		8.7 μ	-	Dispersion	Korff	RMP	4	(1932)	471
		-	-	Christianson filter	Barnes	PR	49	(1936)	732
		117 μ	S	Residual rays	Seifert	RSI	11	(1940)	365
		-	-	Properties of crystal	Tuttle	JCP	14	(1946)	571
		1 μ	S	Photoconductivity	Caldwell	PR	74	(1948)	1207
		2.2-37 μ	S	Spec	Plyler	JRNB	41	(1948)	125
		-	-	Anal	Knowles	AC	21	(1949)	1539
		-	-	Pressed disk	Ford	JSI	31	(1954)	338
		80-230 μ	S	Reflectance, Spec	Sinton	JOSA	44	(1954)	503
		-	-	Spec, Mol. Const.	Barrett	PR	109	(1958)	1572
		17-55 μ	S	Transmittance	Plyler	JRNB	64C	(1960)	55
$TlCl$	Thallium chloride	0.3-0.5 μ	S	Photoelectric	Coblentz	BBS	18	(1922)	489
		91.6 μ	S	Residual rays	Weniger	JOSA	7	(1923)	517
		91.6 μ	S	Residual rays	Schaefer	TFS	25	(1929)	841
		10-130 μ	S	Spec	Barnes	PR	39	(1932)	562
		8.7 μ	-	Dispersion	Korff	RMP	4	(1932)	471
		-	S	Reflection	Barnes	PR	43	(1933)	31

		-	-	Christianson filter	Barnes	PR	49 (1936)	732
		21-28 μ	S	Spec	Plyler	JRNB	41 (1948)	125
		-	-	Polarizability theory	Szigeti	TFS	45 (1949)	155
		-	-	Freq	Szigeti	PRS	204 (1950)	51
		80-230 μ	S	Spec	Sinton	JOSA	44 (1954)	503
		20-200 μ	S	Reflectance	Yoshinaga	PR	100 (1955)	753
		-	-	Microwave, Mol. Const.	Fritzky	ZP	151 (1958)	351
$Tl^{205}Cl^{35}$	Thallium chloride (isotopic)	-	-	Spec, Mol. Const.	Barrett	PR	109 (1958)	1572
TlF	Thallous fluoride	151 μ	-	Residual rays	Schaefer	TFS	25 (1929)	841
		-	-	Microwave, Mol. Const.	Fritzky	ZP	151 (1958)	
$Tl^{205}F$	Thallium fluoride (isotopic)	-	-	Spec, Mol. Const.	Barrett	PR	109 (1958)	1572
TlI	Thallous iodide	0.3-0.6 μ	S	Photoelectrical properties	Coblentz	BBS	18 (1922)	489
		151.8 μ	S	Residual rays	Weniger	JOSA	7 (1923)	517
		8.7 μ	-	Dispersion	Korff	RMP	4 (1932)	471
		-	-	Christianson filter	Barnes	PR	49 (1936)	732
		152 μ	S	Residual rays	Seifert	RSI	11 (1940)	365
		-	-	Crystal preparation	Tuttle	JCP	14 (1946)	571
		-	-	Anal	Knowles	AC	21 (1949)	1539
		-	S	Stabilization	Smakula	JOSA	43 (1953)	822
		-	-	Pressed disk	Ford	JSI	31 (1954)	338
		80-230 μ	S	Spec	Sinton	JOSA	44 (1954)	503
$Tl^{205}I$	Thallium (I) iodide (isotopic)	1.5-3 μ	-	Microwave, Mol. Const.	Happ	ZP	147 (1957)	567
$Tl^{205}I^{127}$	Thallium iodide (isotopic)	-	-	Spec, Mol. Const.	Barrett	PR	109 (1958)	1572
$TlIO_3$	Thallium iodate	-	S	Spec, Struct	Dasent	JCS	- (1960)	2429

$TlNO_3$	Thallous nitrate	680–3600	S	Anal	Keller	JCP	17 (1949)	26
		-	S	Polarization	Haford	PR	78 (1950)	348
		700–3400	S	Assign	Newman	JCP	18 (1950)	1276
		700–1500	S	Spec	Newman	JCP	18 (1950)	1291
		700–1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
TlO_4P	Thallium (III) orthophosphate	290–650	S	Assign	Duval	CPR	239 (1954)	249
TlO_8S_2Cr	Thallium sulfate alum	-	S	Freq assign, Spec	Kraus	JCP	9 (1941)	133
TlO_8Se_2Cr	Thallium selenate alum	-	S	Freq assign, Spec	Kraus	JCP	9 (1941)	133
TlS	Thallium sulfide	0.8–20 μ	S	Reflectance	Agnew	JOSA	43 (1953)	999
$Tl_2H_2NO_3P$	Dithallium phosphoranidate	650–5000	S	Spec	Pustinger	SA	15 (1959)	909
Tl_2S	Thallous sulfide	-	-	Reflection and transmission	VonHippel	JCP	14 (1946)	355
		-	-	Photoelectricity	VonHippel	JCP	14 (1946)	370
$Tl_3 - H_2N_2O_7P_3$	Thallium diimidotrimetaphosphate (ring)	650–5000	S	Spec	Pustinger	SA	15 (1959)	909
$Tl_3 - H_3N_3O_6P_3$	Thallium (I)-trimetaphosphate	650–5000	S	Spec	Pustinger	SA	15 (1959)	909
Tl_3O_4P	Thallium (I)-phosphate	650–5000	S	Spec	Pustinger	SA	15 (1959)	909
$Tl_3O_9P_3$	Thallium (I)-cyclictrimetaphosphate	650–5000	S	Spec	Pustinger	SA	15 (1959)	909

$Tl_4 - HNO_6P_2$	Thallium (I)-imidodiphosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Tl_4 - H_3N_2O_8P_3$	Thallium di-imidotrimeta-phosphate (ring) compound with TlOH	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Tl_4 - H_4N_3O_7P_3$	Thallium trimeta-phosphinate compound with TlOH	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Tl_4 - H_4N_4O_8P_4$	Thallium (I)-tetrametaphos-phimate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Tl_4 - O_7P_2$	Thallium (I)-pyrophosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Tl_5 - H_2N_2O_8P_3$	Thallium (I)-diimidotri-phosphate (chain)	650-5000	S	Spec	Pustinger	SA	15 (1959)	909

Tm COMPOUNDS

TmH	Thulium hydride	-	-	FC	Platt	JCP	18 (1950)	932

U COMPOUNDS

$UC_4H_6O_6$	Uranyl acetate	4.5-13.5 μ	S	Spec, Struct	Conn	TFS	34 (1938)	1483
		600-1600	S	Spec, Assign	Caldow	CJC	38 (1960)	772
$UC_4H_{11}N_3O_9$	Dimethylethanolamine uranyl nitrate	2-15 μ	-	Spec	Barr	JACS	74 (1952)	4430

$UC_4O_8 \cdot 5H_2O$	Uranium (IV)-oxalate penta-hydrate	-	S	Spec	Cappellina	ANCR	50 (1960)	615
$UC_6H_9O_8Na$	Sodium uranyl (VI) acetate	400-3000 800-2000	S -	Spec, Assign, FC Bond dist.	Jones Jones	JCP SA	23 (1955) 15 (1959)	2105 409
$UC_{10}H_{10}N_4O_8$	Dipyridine uranyl nitrate	2-15 μ	-	Spec	Barr	JACS	74 (1952)	4430
$UC_{12}H_{12}N_2O_9$	Uranyl-pyridine, salicylic acid, water complex nitrate	2-15 μ	-	Spec	Barr	JACS	74 (1952)	4430
$UC_{14}H_{20}O_6$	Uranyl-methacroyl-acetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
$UC_{16}H_{24}Cl_2N_2O_8$	Uranium (IV)-N-phenylglycine, water complex chloride	2-15 μ	-	Spec	Barr	JACS	74 (1952)	4430
$UC_{16}H_{28}O_6$	Uranyl pivaloyl acetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
$UC_{18}H_{12}N_2O_4$	Uranyl-8-hydroxy quinoline chelate	8-15 μ	S	Group freq, Spec	Charles	SA	8 (1956)	1
$UC_{20}H_{16}N_2O_8$	Uranyl-2-quinoline carboxylic acid water complex	2-15 μ	-	Spec	Barr	JACS	74 (1950)	4430
$UC_{24}H_{20}Cl_2N_2O_6$	Uranium (IV)-chloride pyridine salicylic acid complex	2-15 μ	-	Spec	Barr	JACS	74 (1952)	4430

$UC_{30}H_{31}Cl_2N_3O_4$	Uranium (IV)-chloride, quinolidine, 2-quinoline carboxylic acid complex	2-15 μ	-	Spec	Barr	JACS	74 (1952)	4430
$UC_{48}H_{108}O_{24}P_6$	Uranium (VI)-di-n-butyl phosphate	714-5000	S	Group interaction study	Smith	JINC	9 (1959)	150
$UC_{54}H_{36}N_6O_6$	Uranium (VI)-8-hydroxyquinolate	-	S	Spec	Charles	AC	25 (1953)	530
$UC_{1808}H_{3010}O_6$	Uranyl polymethacroylacetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
UBr_2O_2	Uranyl bromide	-	-	Ion study	Prigent	CPR	247 (1958)	1737
UCl_2O_2	Uranyl chloride	13.5 μ	S	Spec, Struct	Corn	TFS	34 (1938)	1483
		-	-	Ion study	Prigent	CPR	247 (1958)	1737
$UCl_2O_2Cs_2$	Uranyl (VI)-chloride complex cesium salt	-	-	Group freq	Jones	SA	10 (1958)	395
		800-2000	-	Bond distance	Jones	SA	15 (1959)	409
UCl_2O_{10}	Uranyl perchlorate	800-1060	Sol	Spec	Jones	JCP	21 (1953)	542
UCl_4	Uranium (IV)-chloride	2-15 μ	-	Spec	Barr	JACS	74 (1952)	4430
UF_2O_2	Uranyl fluoride	2-15 μ	-	Spec	Barr	JACS	74 (1952)	4430
UF_4	Uranium tetrafluoride	-	S	Freq	Conwag	JCP	31 (1959)	1002
$UF_5O_2K_3$	Uranyl fluoride complex (potassium salt)	800-200	-	Bond distance	Jones	SA	15 (1959)	409
UF_6	Uranium hexafluoride	2-17 μ	G	Assign	Bigeleisen	JCP	16 (1948)	442

UF_6	Uranium hexafluoride	2-17μ	G	Assign	Bigeleisen	JCP	16 (1948)	442
		-	-	Orbital valency	Heath	TFS	45 (1949)	264
		2-40μ	G	Spec, Assign	Burke	JCP	20 (1952)	447
		400-5000	G	Spec, Assign	Gaunt	TFS	49 (1953)	1122
		-	G	Spec	Tlewellyn	JCP	21 (1953)	28
		-	-	FC	Gaunt	TFS	50 (1954)	546
		-	-	Freq, Assign	Hawkins	JCP	23 (1955)	2191
		656	-	Stretch freq	Hahn	JCP	24 (1956)	921
		-	-	FC	Califano	AAN	25 (1958)	284
		-	-	Jahn-Teller effect	Weinstock	JCP	31 (1959)	262
UN_2O_8	Uranyl nitrate	-	Sol	Raman	Corn	TFS	34 (1938)	1483
$UN_2O_8 \cdot 2H_2O$	Uranyl nitrate dihydrate (N^{15},N^{14})	700-3700	S	Spec, Assign	Gatehouse	JCS	- (1958)	3965
$UN_2O_8 \cdot 2H_2O$	Uranyl nitrate dihydrate	700-3800	S	Spec, Assign	Allpress	AJC	12 (1959)	569
		600-1600	S	Spec, Assign	Caldow	CJC	38 (1960)	772
$UN_2O_8 \cdot 3H_2O$	Uranyl nitrate trihydrate	700-3700	S	Band assign	Gatehouse	JCS	- (1958)	3965
		-	-	Group freq	Jones	SA	10 (1958)	395
		700-3800	S	Spec, Assign	Allpress	AJC	12 (1959)	569
		700-1600	S	Absorp. Freq	Ferraro	JMS	4 (1960)	99
$UN_2O_8 \cdot 6H_2O$	Uranyl nitrate hexahydrate	2-15μ	S	Spec	Barr	JACS	74 (1952)	4430
		700-3700	S	Spec, Band assign	Gatehouse	JCS	- (1958)	3965
		700-3800	S	Spec, Assign	Allpress	AJC	12 (1959)	569
		600-1600	S	Spec, Assign	Caldow	CJC	38 (1960)	772
		300-880	S	Spec	Miller	SA	16 (1960)	135
UN_3O_9Rb	Uranyl (VI)-nitrate complex (Rubidium salt)	-	-	Group freq	Jones	SA	10 (1958)	395
$UN_3O_{11}Cs$	Uranyl (VI)-nitrate complex (cesium salt)	-	-	Group freq	Jones	SA	10 (1958)	395

$UN_3O_{11}K$	Uranyl (VI)-nitrate complex (potassium salt)	- 700-3800	- S	Group freq Spec, Assign	Jones Allpress	SA AJC	10 (1958) 12 (1959)	395 569
$UN_3O_{11}Rb$	Rubidium uranyl nitrate	700-4000 800-2000	S -	Spec assign Bond dist.	Gatehouse Jones	JCS SA	- (1958) 15 (1959)	3965 409
$UN_4O_{14}K_2$	Uranyl (VI)-nitrate complex (potassium salt)	-	-	Group freq	Jones	SA	10 (1958)	395
$U_4O_{14}Rb_2$	Uranyl (VI)-nitrate complex (Rubidium salt)	-	-	Group freq	Jones	SA	10 (1958)	395
UO_2	Uranyl ion	- 860	- -	Vib. Freq Stretch freq	Kasha Hahn	JCP JCP	17 (1949) 24 (1956)	349 921
UO_3	Uranium trioxide	897	-	Stretch freq	Hahn	JCP	24 (1956)	921
UO_6S	Uranyl sulfate	-	Sol	Raman	Corn	TFS	34 (1938)	1483
$U_2C_{15}H_{15}Cl_8N_3$	Uranium (IV)-chloride pyridine complex	2-15 μ	-	Spec	Barr	JACS	74 (1952)	4430
U_2O_3	Uranium oxide	1-8 μ	S	Emission	Coblentz	BBS	5 (1908)	159
$U_4C_8H_{16}O_4$	Potassium tetra-uranyl (IV) oxalate	-	S	Spec	Cappllina	ANCR	50 (1960)	615

V COMPOUNDS

$VC_4H_8N_2O_9 \cdot 2H_2O$	Vanadyl (III)-oxalate complex dihydrate (ammonium salt)	1000	S	Assign	Barraclough	JCS	- (1959)	3552
$VC_6H_{12}N_2O_9 \cdot 4H_2O$	Vanadyl (IV)-malonic acid	1000	S	Assign	Barraclough	JCS	- (1959)	3552

$VC_6H_{12}N_2O_9 \cdot 4H_2O$	Vanadyl (IV)-malonic acid complex tetrahydrate (ammonium salt)	1000	S	Assign	Barraclough	JCS	- (1959)	3552
$VC_9H_5O_4$	Vanadium (I)-carbonmonoxide cyclopentadiene complex	600-5000 1700-2200	Sol Sol	Spec, Config. Spec, Struct	Piper Colton	JINC JINC	1 (1955) 1 (1955)	165 175
$VC_{10}H_{10}Br_2$	Vanadium (IV)-cyclopentadiene complex bromide	-	-	Struct	Wilkinson	JACS	75 (1953)	1011
$VC_{10}H_{10}Cl_2$	Vanadium (IV)-cyclopentadiene chloride complex	2-15 μ	S	Spec	Wilkinson	JACS	76 (1954)	4281
$VC_{10}H_{12}N_2O_8Na \cdot 5H_2O$	Vanadium (III)-ethylenediamine tetraacetic acid (sodium salt) pentahydrate	800-1800	S	Spec	Donald	JACS	82 (1960)	4191
$VC_{10}H_{12}N_2P_8Na_2 \cdot 5H_2O$	Vanadyl (IV)-ethylenediamine tetraacetic acid (sodium salt) pentahydrate	800-1800	S	Spec	Donald	JACS	82 (1960)	4191
$VC_{10}H_{14}O_5$	Vanadyl (IV)-acetylacetonate	1000	S	Assign	Barraclough	JCS	- (1959)	3552
VH_4O_3N	Ammonium meta-vanadate	2 - 16 μ 880-3000	S S	Spec Spec	Miller Miller	AC SA	24 (1952) 16 (1960)	1253 135
VCl_3	Vanadium trichloride	1-15 μ	Sol	Spec	Lagerquist	AF	12 (1957)	491
VCl_3O	Vanadium oxytrichloride	-	-	Band freq	Johannesen	JRNB	53 (1954)	197

		358-2061	L	Spec	Miller	JCP	26 (1957)	329
		1000	L	Group freq	Barraclough	JCS	- (1959)	3552
VCl_4	Vanadium tetrachloride	0.8-1.2 μ	Sol	Absorp.	Whittaker	JCP	17 (1949)	188
VF_4	Vanadium tetrafluoride	-	S	Freq	Peacock	JCS	- (1959)	2762
VF_4^-	Vanadium (III)-complex fluoro ion	-	S	Freq	Peacock	JCS	- (1959)	2762
$VO_3Na.4H_2O$	Sodium vanadate tetrahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
VO_4K_3	Potassium orthovanadate	290-650	S	Assign	Duval	CPR	239 (1954)	249
VO_5S	Vanadyl sulfate	0.5-1.4 μ	Sol	Study	Pfund	JOSA	29 (1939)	56
		1000	S	Group freq	Barraclough	JCS	- (1959)	3552
V_2O_5	Vanadium pentaoxide	0.4-8 μ	S	IR	Baros	ZP	126 (1949)	721
		1000	S	Group freq	Barraclough	JCS	- (1959)	3552

W COMPOUNDS

WC_6O_6	Tungsten carbonyl	2-15 μ	S	Spec, Group freq	Sheline	JACS	72 (1950)	5761
$WC_8N_8K_3$	Tungsten (V) cyanide complex (potassium salt)	2-32 μ	S	Spec, I	Brame	JINC	6 (1958)	99
$WC_8N_8K_3.2H_2O$	Tungsten (V) cyanide complex dihydrate (potassium salt)	2-32 μ	S	Spec, I	Brame	JINC	6 (1958)	99
$WC_8N_8K_4$	Tungsten (IV) cyanide complex	2-32 μ	S	Spec, I	Brame	JINC	6 (1958)	99

$WC_8N_8K_4$	Tungsten (IV) cyanide complex (potassium salt)	2-32 μ	S	Spec, I	Brame	JINC	6 (1958)	99
$WC_8N_8K_4 \cdot 2H_2O$	Tungsten (IV) cyanide complex (potassium salt) dihydrate	2-32 μ	S	Spec, I	Brame	JINC	6 (1958)	99
		-	S,Sol	Spec	Fabbri	AAN	25 (1958)	299
$WC_9H_8O_3$	Tungsten carbon-monoxide cyclo-pentadiene methyl complex	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
$WC_{10}H_{10}O_3$	Tungsten carbon-monoxide cyclo-pentadiene ethyl complex	450-4000	Sol	Spec, Freq	Piper	JINC	3 (1956)	104
$WC_{10}H_{12}$	Cyclopentadienyl tungsten hydride	-	S	Struct, Spec	Fritz	ZN	156 (1960)	419
$WC_{13}H_{13}N_5O_3S_3$	Tungsten (VI) hydroxide pyridine complex isothio-cyanate	-	S	Group freq	Mitchell	JCS	- (1960)	1912
WH	Tungsten hydride	-	-	FC, Bond dist.	Platt	JCP	18 (1950)	932
WF_4	Tungsten tetra-fluoride	-	S	Freq, Struct	Peacock	JCS	- (1959)	2769
WF_6	Tungsten hexa-fluoride	2-40 μ	G	Spec, Assign	Burke	JCP	20 (1952)	447
		400-5000	G	Spec, Assign	Gaunt	TFS	49 (1953)	1122
		-	-	FC	Gaunt	TFS	50 (1954)	546
		-	-	Freq	Mattraw	JCP	23 (1955)	985
		772	-	Stretch freq	Hahn	JCP	24 (1956)	921
		-	-	FC	Califano	AAN	25 (1958)	284
		-	-	Jahn-Teller effect	Weinstock	JCP	31 (1959)	262

WF_7^-	Tungsten (VI) complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
WO_3	Tungstic anhydride	350-700	-	Freq, Assign	Yatsenko	IANS	22 (1958)	1456
WO_4^{--}	Tungstate ion	-	-	Struct	Woodward	TFS	52 (1956)	615
		-	-	FC	Pistorius	JCP	28 (1958)	514
WO_4Ca	Calcium tungstate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		290-650	S	Assign	Duval	CPR	239 (1954)	249
		300-880	S	Spec	Miller	SA	16 (1960)	135
WO_4Co	Cobaltic tungstate	290-650	S	Assign	Duval	CPR	239 (1954)	249
WO_4K_2	Potassium tungstate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
WO_4Na_2	Sodium tungstate	290-650	S	Assign	Duval	CPR	239 (1954)	249
		300-880	S	Spec	Miller	SA	16 (1960)	135
$WO_4Na_2 \cdot 2H_2O$	Sodium tungstate dihydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
$W_2C_{16}H_{10}O_6$	Tungsten carbon-monoxide cyclo-pentadiene complex	2-16 μ	S,Sol	Spec, Band freq	Wilkinson	JACS	76 (1954)	209
$W_2C_{16}H_{10}O_6$	Cyclopentadienyl tungsten (I)-μ-hexacarbonmonoxide cyclopentadienyl tungsten (I)	1700-2200	Sol	Spec, Struct	Cotton	JINC	1 (1955)	175

Y COMPOUNDS

$YC_{24}H_{54}O_{12}P_3$	Yttrium (III)-di-n-butyl phosphate	714-5000	S	Metal ion study	Smith	JINC	9 (1959)	150

YF_4^-	Yttrium (III) complex fluoro ion	-	S	Freq, Struct	Peacock	JCS	- (1959)	2762
$YN_3O_9 \cdot 3H_2O$	Yttrium nitrate trihydrate	700-1600	S	Freq, Assign	Ferraro	JMS	4 (1960)	99
Y_2O_3	Yttrium oxide	1-8 μ	S	Spec	Coblentz	BBS	5 (1908)	159

Yb COMPOUNDS

$Yb^{3+}YGG$	Ytterbium doped yttrium gallium garnet	9600-11200	S	Spec, Assign	Pappalardo	JCP	33 (1960)	1734

Zn COMPOUNDS

$ZnCO_3$	Zinc carbonate	22-310 μ	S	Reflection	Weniger	JOSA	7 (1923)	517
		-	-	Residual rays	Schaefer	TFS	25 (1929)	841
$ZnC_2H_3O_3$	Zinc glycollate	1000-1500	Sol	Freq	Goulden	SA	16 (1960)	715
ZnC_2H_6	Dimethyl zinc	-	-	FC	Thompson	PRS	160 (1937)	539
		1-17 μ	G	Spec, Assign	Thompson	TFS	36 (1940)	797
		-	-	FC	Linnett	TFS	41 (1945)	223
		500-4500	G	Freq, Assign	Gutowsky	JCP	17 (1949)	128
		-	-	Theory, FC	Sheline	JCP	18 (1950)	602

$ZnC_2H_8Cl_2N_4S_2$	Zinc (II) thiourea chloride complex	2-15μ	S	Spec, Freq	Yamaguchi	JACS	80 (1958)	527
$ZnC_2F_6O_4S_2$	Zinc trifluoromethane sulphenate	9-10μ	S	Assign	Haszeldine	JCS	- (1955)	2901
ZnC_2N_2	Zinc cyanide	300-880	S	Spec	Miller	SA	16 (1960)	135
$ZnC_3H_5O_3$	Zinc lactate	1000-1500	Sol	Freq	Goulden	SA	16 (1960)	715
$ZnC_3H_6Br_2O$	Zinc bromide acetone system	400-4000	L	Complex	Yamada	BCSJ	33 (1960)	666
ZnC_4H_6	Divinyl zinc	650-3500	L	Assign	Kaesz	SA	15 (1959)	360
ZnC_4H_{10}	Diethyl zinc	- 650-3500	- L	FC Assign	Thompson Kaesz	PRS SA	160 (1937) 15 (1959)	539 360
$ZnC_4H_{10}N_2O_5$	Zinc (II)-glycine complex monohydrate	2-15μ	S	Assign	Saraceno	JACS	80 (1958)	5018
$ZnC_4H_{12}Br_2O_2S_2$	Zinc (II) DMSO complex bromide	650-4000	S	Assign, Spec	Cotton	JPC	64 (1960)	1534
$ZnC_4H_{12}Cl_2N_4S_2$	Zinc (II) methyl thiourea chloride complex	2-15μ	S	Spec	Lane	JACS	81 (1959)	3824
$ZnC_4H_{12}Cl_2O_2S_2$	Zinc (II) DMSO complex chloride	650-4000	S	Assign	Cotton	JPC	64 (1960)	1534
$ZnC_4N_4^{--}$	Zinc (II) tetra-cyanide complex ion	250-2200	S	Spec, Assign	Hidalgo	ARS	56A (1960)	9
$ZnC_4N_4S_4Ba.2H_2O$	Zinc (II)-isothio-cyanate complex (barium salt) dihydrate	-	S	Stretch freq	Mitchell	JCS	- (1960)	1912

$ZnC_4N_4K_2$	Zinc (II) cyanide complex (potassium salt)	250-2200	-	Assign	Hidalgo	CPR	249 (1959)	233
$ZnC_5H_7O_2$	Acetylacetone zinc chelate	-	Sol	Group freq	Bellamy	JCS	- (1954)	4491
$ZnC_6H_{10}O_2S_4$	Ethyl zinc dixanthate	2.8-15 μ	S	Spec	Pearson	APS	12 (1958)	116
$ZnC_6H_{12}N_2O_4$	Zinc (II) alanine (l- and dl-) complex	650-4000	S	Freq, Assign	Segnini	SA	16 (1960)	540
$ZnC_6H_{16}N_4O_4$	Zinc (II) ethylene-diamine complex oxalate	400-1750	S	Spec, Config.	Powell	JCS	- (1959)	791
$ZnC_7H_5O_2$	Salicylaldehyde zinc chelate	-	S	Group freq	Bellamy	JCS	- (1954)	4491
$ZnC_8H_4F_3O_2S$	Thenoyltrifluoro-acetone zinc chelate	-	Sol	Group freq	Bellamy	JCS	- (1954)	4491
$ZnC_8H_{10}Cl_3N_3 \cdot 2H_2O$	p-Dimethyl amino-benzene diazonium chloride zinc chloride dihydrate	3-14 μ	S	Freq	Gremillion	JACS	81 (1959)	6134
$ZnC_{10}H_{14}Br_2N_2O_4$	Zinc (II)-γ-Bromo-allyl glycine complex	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$ZnC_{10}H_{14}Cl_2N_2O_4$	Zinc (II)-γ - chloroallyl glycine complex	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368

$ZnC_{10}H_{14}O_4$	Zinc acetyl acetonate	600-5000	S	Spec, Struct	West	JINC	5 (1958)	295
$ZnC_{10}H_{16}N_2O_4$	Zinc (II)-allyl glycine complex	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$ZnC_{10}H_{18}O_2S_4$	Butyl zinc dixanthate	2.8-15 μ	S	Spec	Pearson	APS	12 (1958)	116
$ZnC_{10}H_{12}N_2O_8Na_2 \cdot 3.5H_2O$	Zinc (II)-EDTA complex (sodium salt) 3.5 hydrate	800-1800	S	Freq, Assign	Sawyer	JACS	81 (1959)	816
$ZnC_{12}H_8N_2O_4$	Zinc (II)-2-pyridine carboxylic acid chelate	-	-	Struct	Lumme	SK	31B (1958)	294
$ZnC_{12}H_{10}N_4S_2$	Zinc (II) pyridine isothiocyanate complex	-	S	Assign	Mitchell	JCS	- (1960)	1912
$ZnC_{12}H_{20}N_2O_4$	Zinc (II)-γ-methyl allyl glycine complex	2-15 μ	S	Assign	Moreno	SA	16 (1960)	1368
$ZnC_{12}H_{36}Cl_2O_{14}S_6$	Zinc (II)-DMSO perchlorate complex	650-4000	S	Spec, Assign	Cotton	JPC	64 (1960)	1534
$ZnC_{14}H_{10}O_4$	Zinc tropolonate	-	S,Sol	Band freq	Bryant	JOC	19 (1954)	1889
$ZnC_{14}H_{20}O_4$	Zinc (II)-methacroyl acetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
$ZnC_{16}H_{28}O_4$	Zinc (II)-pivaloyl acetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
$ZnC_{18}H_{12}N_2O_2$	8-Hydroxyquinoline zinc chelate	- 8-15 μ	S S	Spec Spec	Charles Charles	AC SA	25 (1953) 8 (1956)	530A 1

$ZnC_{20}H_{12}N_2O_4$	Zinc (II)-8-quinoline carboxylic acid chelate	-	-	Struct	Lumme	SK	31B (1958)	294
$ZnC_{20}H_{16}N_2O_2$	2-Methyl-8-hydroxy quinoline zinc chelate	8-15 μ	S	Assign	Charles	SA	8 (1956)	1
$ZnC_{20}H_{16}N_2O_2$	4-Methyl-8-hydroxy quinoline zinc chelate	8-15 μ	S	Assign	Charles	SA	8 (1956)	1
$ZnC_{20}H_{22}O_4$	Zinc-γ-isopropyl tropolonate	-	S	Group freq	Bryant	JOC	19 (1954)	1889
$ZnC_{20}H_{28}Cl_4N_6$	p-Di-(diethylamino-benzene diazonium chloride) zinc chloride	3-14 μ	S	H bond	Gremillion	JACS	81 (1959)	6134
$ZnC_{20}H_{28}Cl_4N_6 \cdot 2H_2O$	p-Di-(diethylamino-benzene diazonium chloride) zinc chloride dihydrate	3-14 μ	S	H bond	Gremillion	JACS	81 (1959)	6134
$ZnC_{32}H_{16}N_8$	Zinc phthalocyanine	3-15 μ	S	Spec	Ebert	JACS	74 (1952)	2806
$ZnC_{36}H_{24}Cl_2N_6O_8$	Zinc (II)-1:10-phenanthroline complex perchlorate	600-2000	S	Spec	Schilt	JINC	9 (1959)	211
$ZnC_{36}H_{70}O_4$	Zinc stearate	2-14 μ	-	Spec	Sheppard	TFS	41 (1945)	261
		6-8 μ	S	Spec	Ellis	N	181 (1958)	181
$ZnC_{72}H_{60}Cl_2O_{12}P_4$	Zinc (II) perchlorate triphenylphosphine oxide complex	900-1300	S	Group freq	Cotton	JCS	- (1960)	2199

$ZnC_{1808}H_{3010}O_4$	Zinc polymethacroyl acetone complex	1200-1800	S	Assign	Charette	SA	16 (1960)	689
ZnH	Zinc hydride	-	-	Doubling theory	Mulliken	PR	38 (1931)	85
		-	-	Thermo.	Hulburt	JCP	9 (1941)	61
		-	-	FC, Bond dist.	Platt	JCP	18 (1950)	932
		-	-	FC, Bond dist.	Sheline	JCP	18 (1950)	927
ZnH^+	Zinc hydride ion	-	-	Coupling constant	Pekeris	PR	45 (1934)	98
ZnH_2NO_3P	Zinc phosphoramidate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
ZnH_4F_3N	Ammoniumfluoride zinc fluoride	1400-4000	S	Spec	Crocket	JACS	82 (1960)	4158
$ZnH_4N_2O_6S_2$	Zinc sulfamate	-	-	Freq, Assign	Bicelli	AC	47 (1957)	1380
$ZnH_8Cl_2N_4$	Zinc (II)-hydrazine chloride complex	15-35 μ	-	Thermo.	Sacconi	N	186 (1960)	549
$ZnH_8N_4O_4P_2$	Zinc diamido-phosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$ZnH_{12}N_4$	Tetrammine zinc (II) ion	-	-	Group freq	Leonard	JACS	77 (1955)	2029
$ZnH_{18}N_6$	Hexammine zinc ion	-	-	FC, Absorption, Freq	Schultz	JCP	10 (1942)	1942
$ZnBr_2$	Zinc bromide	0.6-2.8 μ	Sol	Assign	Gordy	JCP	2 (1934)	621
		2.8-6 μ	Sol	Spec, Assign	Plyler	JCP	2 (1934)	470
		1.5-2.8 μ	-	Assign	Barr	JCP	4 (1936)	92
		4.75 μ	Sol	Absorption	Barr	JCP	7 (1939)	8
$ZnCl_2$	Zinc chloride	0.6-2.8 μ	Sol	Assign	Gordy	JCP	2 (1934)	621
		2.8-6 μ	Sol	Spec, Assign	Plyler	JCP	2 (1934)	470
		1.5-2.8 μ	-	Assign	Barr	JCP	4 (1936)	92
ZnF_4^{-2}	Zinc (II) fluoride complex ion	-	S	Freq	Peacock	JCS	- (1959)	2762

ZnF_4K_2	Zinc (II)-fluoride complex (potassium salt)	300-1500	S	Spec	Lecomte	CPR	249 (1959)	1991
ZnF_6Si	Zinc fluorosilicate	488-735	-	Band	deLattre	JCP	20 (1952)	1180
ZnI_2	Zinc iodide	50-150 μ	Sol	Absorp. Freq	Cartwright	JCP	5 (1937)	776
ZnN_2O_6	Zinc nitrate	0.8-2.3 μ	Sol	Spec	Collins	PR	20 (1922)	486
		2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
		2-15 μ	S	Spec	Addison	JCS	- (1960)	613
$ZnN_2O_6 \cdot 6H_2O$	Zinc nitrate hexahydrate	700-1600	S	Absorp. Freq	Ferraro	JMS	4 (1960)	99
		300-880	S	Spec	Miller	SA	16 (1960)	135
ZnO	Zinc oxide	1-8 μ	S	Emission	Coblentz	BBS	5 (1908)	159
		1-2 μ	G	Transmission	Pfund	PR	36 (1930)	71
		6.7-33 μ	G	Transmission	Strong	PR	37 (1931)	1565
		1-4 μ	S	Filter	Leberknight	PR	43 (1933)	967
		0.5-2.4 μ	S	Transmission	Pfund	JOSA	24 (1934)	143
		0.6-9.0 μ	S	Refr. ind.	Pfund	JOSA	26 (1936)	230A
		-	-	Scattering	Gamble	IEC	9 (1937)	310
		0.4-4 μ	S	Spec	Barnett	JPC	46 (1942)	69
		-	-	Absorp.	Filimonov	OS	5 (1958)	709
		-	-	Spec	Miloslauskii	OS	5 (1958)	614
		1-13 μ	-	Freq	Arneth	ZP	155 (1959)	595
		1-4 μ	S	Spec	Collins	PCS	11 (1959)	190
		1-12 μ	S	Spec	Thomas	PCS	10 (1959)	47
		1200-2000	S	Spec	Matsustuta	JCP	32 (1960)	982
$ZnO_3S.2H_2O$	Zinc sulphite dihydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
		300-880	S	Spec	Miller	SA	16 (1960)	135
ZnO_4S	Zinc sulphate	0.8-2.3 μ	Sol	Solute effect	Collins	PR	20 (1922)	486
		8-11 μ	L	Reflection	Plyler	PR	28 (1926)	284
		7.5-10.5 μ	S	Spec	TaiHan	AC	29 (1957)	1430
$ZnO_4S.7H_2O$	Zinc sulphate heptahydrate	-	S	Spec	Hafele	ZP	148 (1957)	262
		2-16 μ	S	Compar.	Meloche	JINC	6 (1958)	104

ZnO_4Cr	Zinc chromate	2-15 μ	S	Spec	Harkins	AC	31 (1959)	541
$ZnO_4Cr.7H_2O$	Zinc chromate heptahydrate	2-16 μ	S	Spec	Miller	AC	24 (1952)	1253
$ZnO_4Cr.xH_2O$	Zinc chromate polyhydrate	2-15 μ	S	Spec	Harkins	AC	31 (1959)	541
ZnO_4Fe_2	Zinc ferrite	280-4000	S	Spec, Assign	Walotron	PR	99 (1955)	1727
		10-500 μ	-	Reflection	Mitsuishi	JPSJ	13 (1958)	1236
$ZnO_4Se.6H_2O$	Zinc selenate hexahydrate	220-3500	S	Spec	Duval	ZE	64 (1960)	582
ZnS	Zinc sulphide	0.5-1.3 μ	S	Spec	Coblentz	BBS	2 (1907)	457
		1-6.5 μ	S	Transmission	Crandall	PR	2 (1913)	343
		-	S	Vibration freq	Nichols	PR	21 (1923)	712A
		22-310 μ	S	Reflection	Weniger	JOSA	7 (1923)	517
		0.7-15 μ	S	Decay	Taylor	JPC	31 (1927)	115
		30.9 μ	S	Residual rays	Schaefer	TFS	25 (1929)	841
		20-150 μ	S	Residual rays	Strong	PR	38 (1931)	1818
		0.6-9.0 μ	S	Refr. Index	Pfund	JOSA	26 (1936)	230A
		-	-	Particle size	Bailey	IEC	18 (1946)	365
		1-15 μ	S	Particle size	Henry	JOSA	38 (1948)	775
		-	-	Polarization	Szigeti	TFS	45 (1949)	155
		0.8-3 μ	S	Group study	Bube	PR	80 (1950)	764
		1.5 μ	S	Refr. Ind.	DeVore	JOSA	40 (1950)	266A
		-	-	Freq	Szigeti	PRS	204 (1950)	51
		90-230 μ	S	Spec	Sinton	JOSA	44 (1954)	503
		0.5-3.4 μ	S	Reflectance	Rank	JOSA	45 (1955)	69
		-	S	Theory	Scott	JOSA	45 (1955)	176
		20-200 μ	S	Refl.	Yoshinaga	PR	100 (1955)	753
		1.4 μ	S	Refractive Ind.	Czyzak	JOSA	47 (1957)	240
		-	-	Spec	Heckscher	JOSA	47 (1957)	765L
		-	-	Spec	Mitsuishi	JPSJ	13 (1958)	1235
ZnSe	Zinc selenide	-	-	Struct	Mitsuishi	JPSJ	13 (1958)	1235
ZnTe	Zinc telluride	-	-	Struct	Mitsuishi	JPSJ	13 (1958)	1235

$Zn_2HNO_6P_2$	Zinc imidodi-phosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Zn_2H_2N_2O_8P_3Na$	Zinc diimido-triphosphate (chain)	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Zn_2O_{10}P_3Na$	Dizinc sodium triphosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Zn_2O_{10}P_3Na.9H_2O$	Dizinc sodium triphosphate nonahydrate	2-15 μ	S	Group freq, I	Corbridge	JCS	- (1954)	493
$Zn_3CH_4O_7 \cdot 2H_2O$	Basic zinc carbonate	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
$Zn_3O_8P_2$	Zinc phosphate	650-5000	S	Spec	Pustinger	SA	15 (1959)	909
$Zn_3O_8P_2 \cdot 4H_2O$	Zinc phosphate tetrahydrate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104
$Zn_5C_2O_{11} \cdot 4H_2O$	Basic zinc carbonate tetrahydrate	2-16 μ	S	Spec	Meloche	JINC	6 (1958)	104

Zr COMPOUNDS

$ZrC_8H_{18}O_5P$	Zirconyl-di-n-butyl phosphate	714-5000	S	Metal ion	Smith	JINC	9 (1959)	150
$ZrC_{10}H_{10}Br_2$	Zirconium (IV)-cyclopentadiene complex bromide	-	-	Struct	Wilkinson	JACS	75 (1953)	1011
		2-15 μ	S	Spec	Wilkinson	JACS	76 (1954)	4281
ZrH	Zirconium hydride	-	-	FC, Bond dist.	Platt	JCP	18 (1950)	932
ZrF_4	Zirconium tetra-fluoride	-	S	Freq	Peacock	JCS	- (1959)	2762

ZrO_2	Zirconium oxide	1-8 μ	S	Spec	Coblentz	BBS	5 (1908)	159
ZrO_3Ba	Bariumzirconate	350-700	-	Freq, Assign	Yatsenko	IANS	22 (1958)	1456
ZrO_3Pb	Lead zirconate	350-700	-	Freq, FC	Yatsenko	IANS	22 (1958)	1456
ZrO_3Sr	Strontium zirconate	350-700	-	Freq, FC	Yatsenko	IANS	22 (1958)	1456
ZrO_4Si	Zircon	1-4 μ	S	Spec	Coblentz	BBS	6 (1910)	301
		22-310 μ	S	Transmission	Weniger	JOSA	7 (1923)	517
		-	S	Spec	Pirani	JSI	16 (1939)	372
		8-12 μ	S	Spec	Pfund	JOSA	35 (1945)	611
		-	-	Struct	Matossi	JCP	17 (1949)	679

III. Polymeric Compounds

Formula	Name	Range	State	Remarks	Reference			
$(CH_2)_nC_{10}H_8Fe$	Polymethylene ferrocene	-	-	Bands, Discussion	Nesmeyanov	DANS	125 (1959)	1037
$(CH_2O)_n$	Formaldehyde polymer	6-12 μ	S	Spec, Compar. with monomer	Schneider	TFS	52 (1956)	13
		300-4000	S	Spec, Assign, Struct	Novak	TFS	55 (1959)	1484
		-	-	NCA	Miyazawa	SA	16 (1960)	1233
$(CD_2O)_n$	Polyformaldehyde-d_2	300-4000	S	Spec, Assign, Struct	Novak	TFS	55 (1959)	1484
$(C_2H_2D_2)_n$	Polyethylene-d_2	5.58-6 μ	S	Oxidation study	Beachell	JPS	45 (1960)	451
$(C_2H_2Br_2)_n$	Polyvinylidene bromide	400-3100	S	Spec, Assign	Narita	JPS	37 (1959)	251
$(C_2H_2Cl_2)_n$	Polyvinylidene chloride	500-1500	S	Spec	Thompson	PRS	184 (1945)	21
		600-1500	-	Spec	Thompson	TFS	41 (1945)	246
		2800-3500	S	Spec, Struct	Ambrose	PRS	199 (1949)	183
		2.5-100 μ	-	Abstract, Assign, Struct	Krimm	PR	98 (1954)	1547
		70-3000	S	Spec, Assign	Krimm	JPS	22 (1956)	95
		400-3100	S	Spec, Assign	Narita	JPS	37 (1959)	251
		500-1500	S	Spec, Assign	Nambu	JAPP	4 (1960)	69
$(C_2H_2Cl_2O)_n$	Polydichloro-acetaldehyde	300-4000	S	Spec, Assign	Novak	CJC	37 (1959)	1722
$(C_2H_3D)_n$	Polyethylene-d_1	5.58-6 μ	S	Oxidation study	Beachell	JPS	45 (1960)	451
$(C_2H_3DO)_n$	Polyacetaldehyde-d_1	300-4000	S	Spec, Assign	Novak	CJC	37 (1959)	1710
$(C_2H_3DO)_n$	Polyvinyl alcohol-d_1	2-13 μ	S	Spec, Assign	Tadokoro	JCP	23 (1955)	1351
		-	-	OD def. freq	Krimm	JCP	25 (1956)	778
		-	-	Spec, Assign	Tadokoro	BCSJ	32 (1959)	1252
$(C_2H_3Br)_n$	Polyvinyl bromide	500-3100	S	Spec, Assign	Narita	JPS	37 (1959)	273

$(C_2H_3Cl)_n$	Polyvinyl chloride	2.2-14.8μ	S	Spec, Freq	Sears	JAP	12 (1941)	35
		500-1500	S	Spec	Thompson	PRS	184 (1945)	21
		600-1500	-	Spec	Thompson	TFS	41 (1945)	246
		2800-3500	S	Spec, Struct	Ambrose	PRS	199 (1949)	183
		700-2000	S	Cooling effect on spec	King	JAP	20 (1949)	559
		2-15μ	-	Spec, Struct	Cotman	ANN	57 (1953)	417
		2-15μ	S	Spec, Assign	Campbell	JPS	18 (1955)	461
		2-14μ	S	Spec, Reduction study	Cotman	JACS	77 (1955)	2790
		70-3000	S	Spec, Assign	Krimm	JPS	22 (1956)	95
		2-15μ	-	Spec	Schurz	MC	23 (1957)	152
		650-5000	S	Changes in struct	Berch	JRNB	60 (1958)	481
		600-700	S	C-Cl freq	Berens	CIL	- (1958)	1512
		2-15μ	S	Reduction study	George	CIL	- (1958)	1114
		-	S	O.D.	Grisenthwaite	CIL	- (1958)	719
		-	S	C-Cl freq, Struct	Krimm	CIL	- (1958)	1512
		2-15μ	S	Spec, Decomp. study	Stromberg	JRNB	60 (1958)	147
		2-7μ	S	Stabilization of the polymer	Frye	JPS	40 (1959)	419
		-	-	C-Cl freq, Struct	Grisenthwaite	CIL	- (1959)	433
		800-3000	-	Spec	Kawasaki	BCSJ	32 (1959)	1149
		580-720	S	Spec, C-Cl freq	Krimm	CIL	- (1959)	433
		500-3100	S	Spec, Assign	Narita	JPS	37 (1959)	273
		-	-	Thermal ageing study	Pirozhnaya	IANS	23 (1959)	1202
		600-700	-	C-Cl freq, Struct	Shimanouchi	JCP	30 (1959)	1365
		612-690	S	Spec, Freq, Struct	Asahina	NKZ	81 (1960)	1011
		-	S	Temp. effect on C-Cl	Asahina	NKZ	81 (1960)	1370
		-	-	Spec, Assign	Asahina	NKZ	81 (1960)	1374
		400-900	S	Spec, Crystallinity	Kawai	JPS	46 (1960)	273
		500-1500	S	Spec, Assign	Nambu	JAPP	4 (1960)	69
$(C_2H_3ClO)_n$	Polymonochloro-acetaldehyde	300-4000	S	Spec, Assign	Novak	CJC	37 (1959)	1722
$(C_2H_3FO_2S)_n$	Polyvinyl sulfonyl fluoride	1-15μ	S	Spec	Kern	MC	39 (1960)	1
$(C_2H_3NO)_n$	Polyglycine	700-1700	S	Spec, Struct	Astbury	N	162 (1948)	596
		1200-3500	-	Line spec	Thompson	DFS	9 (1950)	222

		1500-3400	S	Spec, Struct	Ambrose	PRS	205 (1951)	47
		4400-5000	S	Spec	Ambrose	PRS	206 (1951)	206
		-	-	C=O, N-H freq, Struct	Ambrose	PRS	208 (1951)	75
		4000-6500	S	Spec, Bands, Struct	Blout	JACS	74 (1952)	1946
		2.5-14μ	S	Spec, Group freq	Hurd	JACS	75 (1953)	624
		1300-1800	S	Spec	Becher	JACS	76 (1954)	3707
		-	S	C=O, N-H freq, Struct	Elliot	PRS	221 (1954)	104
		800-3000	S	Spec	Elliot	PRS	226 (1954)	408
		-	-	Struct	Elliot	TFS	50 (1954)	1013
		2μ	S	Freq, Dichroism	Fraser	JCP	24 (1956)	89
		1015-1690	S	Bands	Oro	N	186 (1960)	156
$(C_2H_3NO)_nOCH_3$	Polyglycine methyl ester	650-4000	S	Spec, Struct	Blout	JACS	74 (1952)	1946
$(C_2H_3NO_3)_n$	Polyvinyl nitrate	70-3600	S	Assign, Dichroism	Krimm	JAP	29 (1958)	1407
$(C_2H_4)_n$	Polyethylene (polythene)	2-18μ	S	Spec	Thompson	PRS	184 (1945)	3
		600-1800	S	Spec, Assign	Thompson	TFS	41 (1945)	246
		2800-3500	S	Spec, Struct	Ambrose	PRS	199 (1949)	183
		-	-	NCA	Kellner	N	163 (1949)	877
		700-2000	S	Cooling effect on spec	King	JAP	20 (1949)	559
		700-3450	-	Oxidation study	Cross	DFS	9 (1950)	235
		-	-	Interpretation of spec	Kellner	PRS	64 (1951)	521
		2-15μ	-	Spec	Cotman	ANN	57 (1953)	417
		3.3-15.0μ	S,Sol	Spec, Polyethylene resins study	Rugg	JPS	11 (1953)	1
		667-5000	S	Spec, Assign	Smook	IE	45 (1953)	273
		10.2-11.8μ	S	Irradiation effect	Dole	JACS	76 (1954)	4304
		725	S	Crystallinity	Keller	JPS	13 (1954)	511
		13.7μ	S	Crystallinity study	Reding	JAP	25 (1954)	848
		2.5-12μ	S	Spec, Oxidation study	Rugg	JPS	13 (1954)	535
		2.6-3.2μ	-	Spec, Oxidation study	Burnett	JPS	15 (1955)	592
		725	S	Struct	Keller	JPS	15 (1955)	133
		2-14μ	S	Spec, Assign	Rossman	JCP	23 (1955)	1355
		-	S	Assign	Ferguson	JCP	24 (1956)	1115
		13.8μ	S	Spec, Temp. effect	Fischer	NWS	43 (1956)	223
		70-3000	S	Spec, Assign	Krimm	JCP	25 (1956)	549
		650-3500	S,L	Spec, Crystallinity	Tobin	JCP	25 (1956)	1044
		-	-	Config	Dole	JACS	79 (1957)	4809
		700-5800	S	Spec, Assign	Nielsen	JCP	26 (1957)	1391

		-	-	Anal of various groups	Hawkins	JPS	28	(1958)	341
		-	S	Irradiation study	Williams	JACS	81	(1959)	2919
		-	-	Irradiation study	Slovokhotova	DANS	129	(1959)	1347
		5.58-6 μ	S	Oxidation study	Beachell	JPS	45	(1960)	451
		2-15 μ	S	Spec	Gossl	MC	42	(1960)	1
		1-15 μ	S,Sol	Spec, Oxidation study	Grafmuller	MC	40	(1960)	161
		600-3500	-	Mol. Struct during oxidation	Luongo	JPS	42	(1960)	139
		-	-	NCA	Miyazawa	SA	16	(1960)	1231
		500-1500	S	Spec, Assign	Nambu	JAPP	4	(1960)	69
		-	S	Spec, Assign	Nielsen	JMS	4	(1960)	488
$(C_2H_4O)_n$	Polyacetaldehyde	-	-	Struct	Sutherland	N	157	(1946)	267
		300-4000	S	Spec, Assign	Novak	CJC	37	(1959)	1710
		6.5-12.5 μ	S,Sol	Spec, Crystallinity	Fuji	MC	40	(1960)	226
		800-3200	S	Spec, Crystallinity	Furukawa	MC	37	(1960)	149
$(C_2H_4O)_n$	Polyethylene glycol	2-15 μ	L	Spec	Kendall	APS	7	(1953)	179
		700-1600	L	Spec, Assign, Config	Kuroda	JPS	26	(1957)	323
		-	L,S, Sol	Spec, Struct	Kuroda	JPS	36	(1959)	453
		2-15 μ	S	Spec, Anal, Ident	Corish	AC	31	(1959)	1298
		-	-	Kerr const	Aroney	JCS	-	(1960)	2890
		2.5-14 μ	S	Spec	Furukawa	MC	38	(1960)	244
$(C_2H_4O)_n$	Polyethylene oxide	9-13 μ	L,S	CH_2 rocking	White	JPS	41	(1959)	369
		700-1500	S	Spec	Ishida	BCSJ	33	(1960)	924
$(C_2H_4O)_n$	Polyvinyl alcohol	500-3200	-	Spec	Thompson	TFS	41	(1945)	246
		700-4000	S	Spec, Assign	Blout	JACS	70	(1948)	862
		2800-3500	S	Spec, Struct	Ambrose	PRS	199	(1949)	183
		7-11 μ	S	Spec, Crystallinity	Tadokoro	BCSJ	28	(1955)	559
		70-3600	S	Spec, Assign	Krimm	JPS	22	(1956)	227
		-	-	OH def. freq	Krimm	JCP	25	(1956)	778
		9.1 μ	-	Struct	Nagai	KKZ	59	(1956)	794
		1050-1200	S	Spec, Assign	Haas	JPS	26	(1957)	391
		8-12 μ	S	Spec, Struct	Tadokoro	JPS	28	(1957)	244
		-	S	Assign, Normal modes	Liang	JPS	35	(1959)	303
		-	-	Spec, Assign	Tadokoro	BCSJ	32	(1959)	1252
$(C_2H_6OSi)_n$	Methyl silicone polymer	650-4000	S	Struct	Lady	AC	31	(1959)	1100

$(C_2H_6Si)_n$	Polyvinylsilane	2-16 μ	-	Spec	Brinckman	JINC	11 (1959)	24
$(C_2H_6Ge)_n$	Polyvinylgermane	2-16 μ	S	Spec	Brinckman	JINC	11 (1959)	24
$(C_2D_2Cl_2)_n$	Polyvinylidene chloride	400-3000	S	Spec, Assign	Narita	JPS	37 (1959)	263
$(C_2D_3Cl)_n$	Polyvinyl chloride-d_3	700-2400	S	Spec, Assign	Narita	JPS	37 (1959)	281
		-	-	Spec	Asahina	NKZ	81 (1960)	1374
$(C_2D_3NO)_n$	Polyglycine-d_3	650-4000	S	Spec	Blout	JACS	74 (1952)	1946
$(C_2ClF_3)_n$	Polychlorotrifluoro-ethylene	70-4000	S	Spec, Assign, NCA	Liang	JCP	25 (1956)	563
		450-1300	S	Crystallinity study	Matsuo	JPS	21 (1956)	331
		440-1290	S	Crystallinity study	Matsuo	JPS	25 (1957)	234
$(C_2F_4)_n$	Polytetrafluoro-ethylene	2.0-14.5 μ	S	Spec	Hanford	JACS	68 (1946)	2082
		2.5-100 μ	-	Abstract, Freq, Struct	Liang	PR	98 (1954)	1548
		70-4000	S	Spec, Assign, NCA	Liang	JCP	25 (1956)	563
		2.5-8 μ	S	End groups study	Bro	JPS	38 (1959)	289
		270-5000	S	Spec, Crystallinity	Moynihan	JACS	81 (1959)	1045
$(C_3H_3D_3)_n$	Polypropylene-3,3, 3-d_3	650-4000	S	Spec	Liang	JPS	44 (1960)	549
$(C_3H_3N)_n$	Polyacrylonitrile	-	-	Group freq	Drummond	JCS	- (1954)	2456
		2-14 μ	G,S	Spec, Pyrolysis study	Burlant	JPS	22 (1956)	249
		-	-	Spec, Assign, Saponification	Bayzer	ZPC	13 (1957)	30
		2-15 μ	-	Spec	Schurz	MC	23 (1957)	152
		70-3200	S	Spec, Assign	Liang	JPS	31 (1958)	513
		1-15 μ	-	Spec	Schulz	MC	29 (1959)	190
		2.5-15 μ	S	Abs. bands, Struct	Arthur	JPC	64 (1960)	1332
		2.5-14.4 μ	S	Spec	Furukawa	MC	38 (1960)	244
$(C_3H_3NO_2)_n$	Acrylonitrile polymeric peroxide	2-15 μ	-	Spec	Smeltz	JACS	74 (1952)	623
$(C_3H_4D_2)_n$	Polypropylene-1,1-d_2	650-4000	S	Spec	Liang	JPS	44 (1960)	549

$(C_3H_4O)_n$	Polyacrolein	2-15 μ	-	Spec	Schurz	MC	23 (1957)	152
		1-15 μ	-	Spec	Schulz	MC	29 (1959)	190
$(C_3H_4O_2)_n$	Polyacrylic acid	2-15 μ	-	Spec	Schurz	MC	23 (1957)	152
		-	-	Spec, Struct	Simon	JPS	30 (1958)	201
$(C_3H_4O_2)_n$	Polyvinyl formate	2800-3500	S	Spec, Struct	Ambrose	PRS	199 (1949)	183
$(C_3H_5)_nC_4H_5O_2Mg$	Polymethacroyl-acetonato magnesium	1200-1800	S	IR shifts, Assign, Stability const	Charette	SA	16 (1960)	689
$(C_3H_5)_n$ - $C_4H_5O_2Mn$	Polymethacroyl-acetonato manganese	1200-1800	S	IR shifts, Assign, Stability const	Charette	SA	16 (1960)	689
$(C_3H_5)_n$ - $C_4H_5O_2Ni$	Polymethacroyl-acetanato nickel	1200-1800	S	IR shifts, Assign,	Charette	SA	16 (1960)	689
$(C_3H_5)_nC_4H_5O_4U$	Polymethacroyl-acetonato uranyl	1200-1800	S	IR shifts, Assign, Stability const	Charette	SA	16 (1960)	689
$(C_3H_5D)_n$	Polypropylene-2-d_1	650-4000	S	Spec	Liang	JPS	44 (1960)	549
$(C_3H_5DO)_n$	Polypropionaldehyde-d_1	300-4000	S	Spec, Assign	Novak	CJC	37 (1959)	1710
$(C_3H_5NO)_n$	Polyacrylamide	2-15 μ	-	Spec	Schulz	MC	12 (1954)	20
		2-15 μ	-	Spec	Schurz	MC	23 (1957)	152
$(C_3H_5NO)_n$	Poly-L-alanine	700-1700	S	Spec, Struct	Astbury	N	162 (1948)	596
		1500-1700	S	Spec, Assign	Elliot	A	221 (1954)	104
		-	S	C=O, N-H freq, Struct	Elliot	PRS	221 (1954)	104
		800-3000	S	Spec, Struct	Elliot	PRS	226 (1954)	408
		1200-1300	S	Spec, Band	Asai	JPC	59 (1955)	322
		2 μ	S	Freq, Dichroism	Fraser	JCP	24 (1956)	89
		700-4000	S	Struct	Elliot	N	180 (1957)	1340
$(C_3H_5NO)_n$	Poly-DL-alanine	-	S	Effect of H_2O on struct	Elliot	N	170 (1952)	1066
		-	-	C=O, N-H freq, Struct, effect of water	Elliot	PRS	221 (1954)	104

		800-3000	S	Spec	Elliot	PRS	226 (1954)	408
		2-16μ	S	Spec, Group freq, I	Asai	JPC	59 (1955)	322
$(C_3H_5NO)_n$	Polysarcosine	-	-	Group freq	Berger	JACS	76 (1954)	5552
$(C_3H_5NOS)_n$	Polycysteine	600-4000	S	Spec, Ident	Sakakibara	BCSJ	29 (1956)	85
$(C_3H_5NO_2)_n$	Poly-L-serine	-	S	Amide I, Amide II bands, Struct	Blout	JACS	82 (1960)	3787
		-	S,Sol	Struct	Fasman	JACS	82 (1960)	2262
$(C_3H_6)_n$	Polypropylene	700-3000	-	Spec	Pokrovskii	DANS	115 (1957)	552
		800-1400	S	Spec of melted films	Abe	JPS	36 (1959)	536
		660-5000	-	Changes on electron irradiation	Black	PRS	253 (1959)	322
		-	S	Spec, Freq, Struct	Pokrovskii	IANS	23 (1959)	1208
		700-1400	S	Crystallinity	Heinen	JPS	38 (1959)	545
		3-15μ	S	Spec, Struct	Peraldo	GCI	89 (1959)	798
		8-13μ	S	Struct, Tacticity	Brader	JAPS	3 (1960)	370
		2-15μ	S	Spec	Gossl	MC	42 (1960)	1
		650-6000	S	Spec, Assign	Liang	JMS	5 (1960)	290
		650-4000	S	Spec	Liang	JPS	44 (1960)	549
		600-1800	S	Spec, Tacticity	Luongo	JAPS	3 (1960)	302
		300-3100	S	Spec, Assign	Tobin	JPC	64 (1960)	216
$(C_3H_6O)_n$	Polymethyl ethylene oxide	700-1500	S	Spec	Ishida	BCSJ	33 (1960)	924
$(C_3H_6O)_n$	Polypropionaldehyde	300-4000	S	Spec, Assign	Novak	CJC	37 (1959)	1710
$(C_3H_6O)_n$	Polypropylene glycol	2-15μ	L	Ident, Spec, Anal	Corish	AC	31 (1959)	1298
$(C_3H_6O)_n$	Polypropylene oxide	833-3420	S,Sol	Abs, Bands	Price	JACS	78 (1956)	4787
		650-3300	S	Spec, Assign, Rot iso.	Kawasaki	POL	1 (1960)	315
$(C_3H_6O_2)_n$	Polyethylene formal	7-14μ	S	CH_2 rocking freq	Miyake	JACS	82 (1960)	3040
$(C_3H_6O_3S)_n$	Polyvinyl methane-sulfonate	-	S	Group freq	Sauer	JACS	77 (1955)	3793

$(C_3F_7NO)_n$	Tetrafluoroethylene-trifluoronitroso-methane copolymer	-	L	Bands	Barr	JCS	- (1955)	1881
$(C_4HF_7)_n$	Tetrafluoroethylene-trifluoroethylene copolymer	8-12 μ	S	Spec	Iwasaki	JPS	26 (1957)	116
$(C_4H_3NO_2)_n$	Poly-L-Succinimide		-	Spec	Noguchi	NKZ	81 (1960)	620
$(C_4H_4)_n$	Polyvinyl acetylene	3.04-11.08 μ	L	Abs. bands	Price	JPS	41 (1959)	445
$(C_4H_4D_2)_n$	Polybutadiene-2,3-d_2	450-3500	S	Spec, Assign	Golub	SA	16 (1960)	1165
$(C_4H_4Cl_2)_n$	Poly-2,3-dichloro-butadiene	3-15 μ	S	Spec	Mochel	JACS	71 (1949)	4082
$(C_4H_4O_2)_n$	Polyvinyl aceto-β-lactone	2.5-15 μ	S	Spec, Struct	Kawasaki	MC	42 (1960)	25
$(C_4H_5D)_n$	Polybutadiene-2-d_1	450-3500	S	Spec, Assign	Golub	SA	16 (1960)	1165
$(C_4H_5Cl)_n$	Neoprene	2.2-14.8 μ	S	Spec, Freq	Sears	JAP	12 (1941)	35
		500-1500	S	Spec	Thompson	PRS	184 (1945)	21
		2-15 μ	S	Spec, Anal	Dinsmore	AC	20 (1948)	11
		3-20 μ	S	Spec, Crystallinity	Mochel	JACS	71 (1949)	4082
		2-16 μ	-	Spec, Charact. freq	Harms	AC	25 (1953)	1140
		600-3700	-	Spec	Cheverley	APS	10 (1960)	192
$(C_4H_5Cl_3)_n$	Polyvinylchloride-vinylidenechloride (1:1) copolymer	600-1700	S	Spec	Thompson	TFS	41 (1945)	246
		70-3000	S	Spec	Krimm	JPS	22 (1956)	95
		400-4000	S	Spec, Struct	Narita	JPS	36 (1959)	389
$(C_4H_5N)_n$	Polymethacrylonitrile	650-4000	-	Spec	Beaman	JACS	70 (1948)	3115
		2-15 μ	-	Spec	Schurz	MC	23 (1957)	152
		1640-1675	S	Bands	Overberger	JPS	34 (1959)	109
		2-15 μ	-	Spec	Skoda	MC	29 (1959)	156
$(C_4H_5NO_3)_n$	Poly-L-aspartic acid	1000-1800	S	Spec	Berger	JACS	73 (1951)	4084

$(C_4H_6)_n$	Buna-85 rubber	700-900	-	Spec, Review	Thompson	JCS	-	(1944)	183
		600-2000	-	Spec	Thompson	PRS	184	(1945)	3
		600-1800	S	Spec	Thompson	TFS	41	(1945)	246
$(C_4H_6)_n$	Polycyclopropane	600-3200	S	Spec, Bands	Ivin	JCS	-	(1956)	2241
		3.2-10 μ	S	Struct	Hodgkins	JOC	23	(1958)	1369
$(C_4H_6)_n$	Polybutadiene	800-3000	S	Spec, Struct	Field	JAP	17	(1946)	386
		800-3600	-	Spec, Oxidation	Cole	IE	39	(1947)	174
		-	-	Struct	D'Ianni	IE	40	(1948)	253
		900-1000	Sol	Spec, Struct	Hart	JACS	71	(1948)	1980
		600-2000	S	Spec	Treumann	AC	21	(1949)	1161
		914-996	-	Struct	D'Ianni	IE	42	(1950)	95
		-	-	Conjugation, Internal dispersion forces	Simpson	JACS	73	(1951)	5363
		13.6-15.0 μ	-	Spec, Anal	Binder	AC	26	(1954)	1877
		-	Sol	Composition	Binder	IE	46	(1954)	1727
		-	-	Ident	Anderson	JPC	63	(1959)	765
		9-16 μ	Sol	Spec, Unsaturation distribution	Silas	AC	31	(1959)	529
		-	Sol	Struct	Gaylord	JPS	42	(1960)	417
		450-3500	S	Spec, Assign	Golub	SA	16	(1960)	1165
		-	-	Struct	Kuntz	JPS	42	(1960)	299
$(C_4H_6)_n$	1,2-Polybutadiene	-	Sol	Anal	Small	AC	31	(1959)	478
		2-15 μ	-	Spec	Morero			(1960)	136
$(C_4H_6)_n$	cis-1,4-Polybutadiene	-	-	Struct	Natta	ANC	68	(1956)	615
		900-1400	L,Sol, S	Spec, Iso	Cunneen	JPS	40	(1959)	1
$(C_4H_6)_n$	trans-1,4-Polybutadiene	-	Sol	Anal	Small	AC	31	(1959)	478
$(C_4H_6O)_n$	Polybutadiene monoxide	650-3300	S	Spec, Assign	Kawasaki	POL	1	(1960)	315
$(C_4H_6O)_n$	Poly-2,3-dihydrofuran	-	-	Abs. bands, Struct	Barr	JCS	-	(1954)	3766
$(C_4H_6O)_n$	Polydimethylketene	2.5-14 μ	S,Sol	Spec, Struct	Natta	JACS	82	(1960)	4742

$(C_4H_6O_2)_n$	Polymethacrylic acid	2-8 μ	Sol	Spec	Ehrlich	N	172 (1953)	671
$(C_4H_6O_2)_n$	Polymethyl acrylate	600-3200	-	Spec	Thompson	TFS	41 (1945)	246
		3-13 μ	S	Spec, Ident	Boyer	BSCF	- (1958)	240
$(C_4H_6O_2)_n$	Polyvinyl acetate	500-3200	-	Spec	Thompson	TFS	41 (1945)	246
		2800-3500	S	Spec, Struct	Ambrose	PRS	199 (1949)	183
		-	-	Spec, Assign, Polymerization study	Simon	JPS	30 (1958)	201
$(C_4H_7ClO_3S)_n$	Ethyl chloropoly-ethylene sulfonate	2-15 μ	S	Spec	Smook	IE	45 (1953)	2731
$(C_4H_7NOS)_n$	Poly-S-methyl-L-cysteine		S	Amide I and II bands, Struct	Blout	JACS	82 (1960)	3787
$(C_4H_8)_n$	Polyisobutene	700-1900	S	Spec	Thompson	PRS	184 (1945)	3
		600-1800	S	Spec, Assign	Thompson	TFS	41 (1945)	246
		2-14 μ	L	Reaction mechanism	Dainton	JPS	4 (1949)	37
		650-1100	-	Abs. bands	Flett	JCS	- (1952)	3355
		11 μ	S	Spec, Irradiation	Alexander	PRS	232 (1955)	31
		800-2000	S	Spec, Polymerization	Kozyreva	OS	6 (1959)	478
		600-3700	-	Spec	Cheverley	APS	10 (1960)	192
$(C_4H_8Cl_2)_n$	Rubber dichloride	5.7-14 μ	S	Spec, Struct	Saloman	DFS	9 (1950)	291
$(C_4H_8O)_n$	Poly-isobutyraldehyde	300-4000	S	Spec, Assign	Novak	CJC	37 (1959)	1718
$(C_4H_8O)_n$	Poly-n-butyraldehyde	300-4000	S	Spec, Assign	Novak	CJC	37 (1959)	1718
$(C_4H_8O)_n$	Poly-1,1-dimethyl-ethylene oxide	700-1500	S	Spec	Ishida	BCSJ	33 (1960)	924
$(C_4D_6)_n$	Polybutadiene-d_6	450-3500	S	Spec, Assign	Golub	SA	16 (1960)	1165
$(C_4Br_6)_n$	Polybromoprene	3-21 μ	S	Spec	Mochel	JACS	71 (1949)	4082

$(C_4ClF_7)_n$	Tetrafluoroethylene-trifluorochloroethylene copolymer	8-12 μ	S	Spec, Configuration	Iwasaki	JPS	26 (1957)	116
$(C_4Cl_6)_n$	Chlorinated neoprene (polychloroprene)	3-16 μ	S	Spec	Mochel	JACS	71 (1949)	4082
$(C_5H_6)_n$	Polyisopropenyl acetylene	3.02-11.25 μ	L	Abs. bands	Price	JPS	41 (1959)	445
$(C_5H_6NO_3Na)_n$	Sodium poly L-glutamate	700-4000	S	Structure	Elliott	N	180 (1957)	1340
$(C_5H_6NO_3Na)_n$	Sodium poly- α,L-glutamate	-	S	Spec	Lenormant	JACS	80 (1958)	6191
$(C_5H_7NO_3)_n$	Poly-O-acetyl-L-Serine	-	S	Amide I and II, Struct	Blout	JACS	82 (1960)	3787
		1100-1800	S,Sol	Spec, Conformation	Fasman	JACS	82 (1960)	2262
$(C_5H_7NO_3)_n$	Poly - O-acetyl-DL-Serine	-	-	Ident	Frankel	JCS	- (1953)	1991
$(C_5H_7NO_3)_n$	Polyglutamic acid	-	-	Ident	Hanby	N	161 (1948)	132
$(C_5H_7NO_3)_n$	Poly-L-glutamic acid	-	-	$\nu_{C=O}$, ν_{NH}	Elliott	A	221 (1954)	104
$(C_5H_7NO_3)_n$	Poly- α-L-glutamic acid	1300-1800	S	Spec, Config	Lenormant	JACS	80 (1958)	6191
$(C_5H_7NO_3)_n$	Polyglutamic acid	1000-1800	S	Spec, Group freq	Hanby	JCS	- (1950)	3239
		-	S	Struct, CO, NH freq	Elliot	PRS	221 (1954)	104
		-	-	Struct	Waley	JCS	- (1955)	517
$(C_5H_8)_n$	Polyisoprene	800-1600	S	Spec, Struct	Field	JAP	17 (1946)	386
		800-3600	-	Spec, Oxidation study	Cole	IE	39 (1947)	174
		-	-	Struct	D'Ianni	IE	40 (1948)	253
		2-15 μ	S	Spec, Struct	Binder	AC	29 (1957)	503
		800-1000	-	Spec, Config	Nelson	DANS	45 (1957)	545
		1.60-1.68 μ	Sol	Spec, Struct	Fragu	JPS	41 (1959)	522
		6-14 μ	S	Spec, Iso	Golub	JPS	36 (1959)	523

$(C_5H_8)_n$	1,4-cis-Polyisoprene	-	-	Struct	Natta	ANC	68 (1956)	615
		-	Sol	Anal	Small	AC	31 (1959)	1742
$(C_5H_8)_n$	Rubber	3.4-9μ	S	Absorp	Williams	JCP	4 (1936)	460
		2.2-14.8μ	S	Spec, Freq	Sears	JAP	12 (1941)	35
		600-1800	S	Spec, Assign	Thompson	TFS	41 (1945)	246
		800-1600	S	Spec, Struct	Field	JAP	17 (1946)	386
		800-3600	-	Spec, Oxidation study	Cole	IE	39 (1947)	174
		2-15μ	S	Spec, Anal	Dinsmore	AC	20 (1948)	11
		700-2000	S	Cooling effect on spec	King	JAP	20 (1949)	559
		5.7-14μ	S	Spec	Saloman	DFS	9 (1950)	291
		5-15μ	S	Spec, Crystallinity	Sutherland	DFS	9 (1950)	281
		715-5000	S	Spec, Changes due to vulcanization	Salomon	JPS	14 (1954)	181
		4-20μ	-	Chlorination study	Salomon	JPS	14 (1954)	287
		2-13μ	S,Sol	Spec, Struct	Gupta	JPS	17 (1955)	255
		2-40μ	S	Changes in struct due to vulcanization	Linning	JRNB	60 (1958)	9
		900-1400	L,S,	Spec, Iso	Cunneen	JPS	40 (1959)	1
		800-1700	S	Effect of irradiation on spec	Evans	JAPP	2 (1959)	340
		-	Sol	Spec	Kimmer	ZAC	170 (1959)	132
		600-3700	-	Spec	Cheverley	APS	10 (1960)	192
$(C_5H_8)_n$	Polyvinylcyclopropane	2.5-15μ	S	Spec, CH freq	Borchert	JPS	44 (1960)	483
$(C_5H_8Cl_2)_n$	Chlorinated rubber	2-15μ	S	Struct	Ramakrishnan	JPS	19 (1956)	323
$(C_5H_8Cl_2O)_n$	Poly-3,3-bis (chloromethyl) oxetane	-	S	Ident	Kambara	JCSJ	59 (1956)	77
$(C_5H_8N_2O_2)_n$	Polyglycyl-DL-alanine	2-16μ	S	Spec, Assign	Asai	JPC	59 (1955)	322
$(C_5H_8O)_n$	Poly-2,3-dihydro-5-methylfuran	-	-	Abs. bands, Struct	Barr	JCS	- (1954)	3766
$(C_5H_8O)_n$	Poly-1-methoxybutadiene	-	S	Struct	Heck	JPS	41 (1959)	521
$(C_5H_8O_2)_n$	Polymethyl methacrylate	500-3200	-	Spec	Thompson	TFS	41 (1945)	246
		650-4000	-	Spec	Beaman	JACS	70 (1948)	3115
		700-1900	-	Spec	Haslam	ANA	75 (1950)	63

		1.5-2.7 μ	-	Anal, Spec	Miller	JAPC	6 (1956)	385
		-	-	Crystallinity	Miller	CIL	- (1958)	1323
		-	Sol	Anal	Small	AC	31 (1959)	478
		2-15 μ	S	Spec, Tacticity	Baumann	MC	36 (1960)	81
		700-850	S	Spec, Crystallinity	Kawai	JPS	46 (1960)	273
		-	S	Ident	Pohl	JPC	64 (1960)	1701
$(C_5H_8O_2)_n$	Polyvinyl formal	2.0-16.0 μ	-	Assign, Degradation study	Beachell	JPS	7 (1951)	353
$(C_5H_9NO)_n$	Poly-L-valine	-	S	Amide I and II bands, Struct	Blout	JACS	82 (1960)	3787
$(C_5H_9NO_3)_n$	Poly-L-methionine	-	S	Amide I and II bands, Struct	Blout	JACS	82 (1960)	3787
$(C_5H_{10})_n$	Ethylene-propylene copolymer	2-15 μ	S	Spec, Composition	Gossl	MC	42 (1960)	1
$(C_5H_{10}O)_n$	Poly-1,1,2-trimethyl-ethylene oxide	700-1500	S	Spec	Ishida	BCSJ	33 (1960)	924
$(C_5H_{10}O)_n$	Poly-n-valeraldehyde	300-4000	S	Spec, Assign	Novak	CJC	37 (1959)	1718
$(C_6H_4S)_n$	Phenylenesulphide polymer	675-1600	S	Spec, Different kinds of polymers	Lenz	JPS	43 (1960)	167
$(C_6H_6O_3)_n$	Polyacrylic anhydride	-	-	Ident	Crawshaw	JACS	80 (1958)	5464
$(C_6H_7NO)_n$	Acrolein-acrylonitrile copolymer	1-15 μ	-	Spec	Schulz	MC	29 (1959)	190
$(C_6H_7NO_2)_n$	Acrylonitrile-acrylic acid copolymer	700-4000	S	Spec, Anal	Gentilhomme	BSCF	- (1960)	901
$(C_6H_7N_3O_{12})_n$	Cellulose nitrate	2.75-15 μ	S	Study of additon compds.	Champetier	MC	19 (1956)	185
$(C_6H_7N_3O_{12})_n$	Nitrocellulose	-	-	Structural changes on irradiation	Brocks	ZP	149 (1957)	353

		2.4-3.8 μ	S	Effect of heat on struct	Yoshino	KKZ	61 (1958)	121
		-	S,Sol	H bond, Study of addition compd.	Josien	CPR	248 (1959)	685
$(C_6H_7O_6Na)_n$	Sodium alginate	500-1500	-	Spec	Thompson	DFS	9 (1950)	222
$(C_6H_7O_{14}S_3Na_3)_n$	Sulphate of dextran (Na salt)	700-1000	S	Spec, Assign	Nakanishi	BCSJ	29 (1956)	434
$(C_6H_8)_n$	Polyethylvinyl-acetylene	3.42-7.58 μ	L	Abs. bands	Price	JPS	41 (1959)	445
$(C_6H_8)_n$	Polyhexatriene	-	-	Conjugation, Internal dispersion forces	Simpson	JACS	73 (1951)	5363
$(C_6H_8O_4)_n$	Polyethylene succinate	700-1400	S,L	Struct, Dichroism	Davison	JCS	- (1955)	242
$(C_6H_8O_6)_n$	Arginic acid	-	-	H bond, Heat	Sobue	KKZ	59 (1956)	983
$(C_6H_8O_6)_n$	Polygalacturonic acid	2-16 μ	-	Spec	Solms	HCA	37 (1954)	2153
$(C_6H_9ClO_2)_n$	Polyvinyl chloride polyvinyl acetate copolymer	600-1700	S	Spec	Thompson	TFS	41 (1945)	246
		4.7-5.75 μ	S	Absorbance	Wiberly	AC	29 (1957)	210
$(C_6H_9NO)_n$	Polyvinylpyrrolidone	2-9 μ	-	Spec	Oster	JACS	76 (1954)	1393
$(C_6H_9NO_2)_n$	Acrolein-acrylamide copolymer	1-15 μ	-	Spec	Schulz	MC	29 (1959)	190
$(C_6H_9NO_3)_n$	Poly-γ-methyl-L-glutamate (α and β forms)	1500-3400	S	Spec, Struct	Ambrose	PRS	205 (1951)	47
		-	-	CO, NH freq	Elliot	PRS	221 (1954)	104
$(C_6H_9NO_3)_n$	Poly-γ-methyl-DL-glutamate	-	-	CO, NH freq	Elliot	PRS	221 (1954)	104
$(C_6H_9NO_5)_n$	Polygalacturonic acid amide	2-16 μ	-	Spec	Solms	HCA	37 (1954)	2153
$(C_6H_9O_5K)_n$	Charonin (K salt)	700-1000	S	Spec, Assign	Nakanishi	BCSJ	29 (1956)	434

$(C_6H_9O_5Na)_n$	Cellulose (Na salt)	700-1000	S	Spec, Assign	Nakanishi	BCSJ	29 (1956)	434
$(C_6H_{10})_n$	Methyl rubber	600-1800	S	Spec, Struct	Thompson	TFS	41 (1945)	246
$(C_6H_{10}N_2O_5)_n$	Poly-D-galacturonic hydrazide	-	S	Group freq	Wolfrom	JACS	76 (1954)	4011
$(C_6H_{10}O)_n$	Poly-2,3-dihydro-2,2-dimethylfuran	-	-	Abs. bands, Spec	Barr	JCS	- (1954)	3766
$(C_6H_{10}O_5)_n$	Amylose	700-1000	S	Spec, Assign	Nakanishi	BCSJ	29 (1956)	434
$(C_6H_{10}O_5)_n$	Cellulose	0.3-7 μ	S	Reflectance	Hulbert	JOSA	17 (1928)	23
		-	S	Reflectance	Cartwright	PR	35 (1930)	415
		10-130 μ	S	Spec	Barnes	PR	39 (1932)	562
		-	-	Transmission	Hardy	PR	47 (1935)	789
		-	-	Struct	Ellis	JACS	62 (1940)	2859
		20.7-152 μ	S	Transmission	Seifert	RSI	11 (1940)	365
		2400-4000	S	Spec, H bond	Marrinon	JAPC	4 (1945)	204
		2-15 μ	S	Spec, Struct, Oxidation study	Rowen	JRNB	39 (1947)	133
		500-1500	-	Spec	Thompson	DFS	9 (1950)	222
		2.5-4.0 μ	S	Spec, Struct	Brown	JCS	- (1951)	1532
		0.4-2.7 μ	S	Reflectance spec	Derksen	JOSA	42 (1952)	263
		700-1000	S	Spec, Assign	Nakanishi	BCSJ	29 (1956)	434
		2-15 μ	S	Spec	O'Connor	AC	29 (1957)	998
		600-3800	S	Spec, Assign, Struct	Tsuboi	JPS	25 (1957)	159
		-	S	Struct, Crystallinity	Yoshino	KKZ	60 (1957)	1341
		-	-	Struct	Mann	JPS	27 (1958)	595
		2.4-3.8 μ	S	Effect of heat on struct	Yoshino	KKZ	61 (1958)	121
		-	S	Ident, Struct	Ellefsen	ACS	13 (1959)	853
		3 μ	S	Assign, Struct, H bond	Liang	JPS	37 (1959)	385
		640-1700	S	Spec, Assign	Liang	JPS	39 (1959)	269
		3 μ	S	Assign, Struct, H bond	Liang	JPS	37 (1959)	385
		2-15 μ	S	Spec, Oxidation study	Stepanov	IANS	23 (1959)	1222
		650-4000	S	Spec, Assign, Struct	Marchessault	JPS	43 (1960)	71
		-	S	Oxidation study	Spedding	JCS	- (1960)	3147
$(C_6H_{10}O_5)_n$	Charonin	700-1000	S	Spec, Assign	Nakanishi	BCSJ	29 (1956)	434
$(C_6H_{10}O_5)_n$	Dextran	720-950	S	Spec, Freq	Barker	JCS	- (1954)	171

		-	-	Struct	Jeans	JACS	76 (1954)	5041
		-	-	Struct	Rauskin	JACS	76 (1954)	4435
		700-1000	S	Spec, Assign	Nakanishi	BCSJ	29 (1956)	434
$(C_6H_{11}NO)_n$	Polyacrylmorpholide	2-10 μ	S	Spec, Ident	Boyer	BSCF	- (1958)	240
$(C_6H_{11}NO)_n$	Poly- ϵ -capramide	2.6-3.6 μ	S	Spec, Struct	Tsuboi	BCSJ	22 (1959)	255
$(C_6H_{11}NO)_n$	Polycaprolactam (nylon 6)	450-4000	S	Spec, Crystallinity	Tobin	JCP	25 (1956)	1044
$(C_6H_{11}NO)_n$	Poly-L-leucine	4000-2000	S	Spec, Struct	Blout	JACS	74 (1952)	1946
		-	S,L	Assign, Struct	Elliot	PRS	221 (1954)	104
		1300-1800	S	Spec, Assign	Becker	JACS	76 (1954)	3707
		1520-1668	S	Freq, Assign	Blout	JACS	82 (1960)	3787
$(C_6H_{11}NO)_n$	Poly-DL-leucine	4500-5300	S	Spec, Assign	Abbott	PRS	219 (1953)	17
		-	S	Assign, Struct	Elliott	PRS	221 (1954)	104
$(C_6H_{11}N_5O_3)_n$	Poly-L-nitroarginine	-	-	Spec	Hayakawa	NKZ	81 (1960)	618
$(C_6H_{12}ClNO_2S)_n$	n-Butylchloropoly-ethylene sulfonamide	2-15 μ	S	Spec	Smook	IE	45 (1953)	2731
$(C_6H_{12}N_2O)_n$	Poly lysine	2-10 μ	-	Spec, Struct	Klotz	JACS	71 (1949)	1615
		1200-1300	S	Spec, Assign	Asai	JPC	59 (1955)	322
$(C_6H_{12}N_2O)_n$	Poly-L-lysine hydro-iodide	-	S	Assign, Struct	Elliot	PRS	221 (1954)	104
$(C_6H_{12}O)_n$	Polytetramethyl-ethylene oxide	700-1500	S	Spec	Ishida	BCSJ	33 (1960)	924
$(C_6H_{12}S)_n$	Polyhexamethylene sulfide	0-1600	S,L	Spec	Marvel	JACS	72 (1950)	1978
$(C_6D_{10}O_5)_n$	Cellulose, deuterated	2900-3600	S	Spec, D_2O reaction	Mann	TFS	52 (1956)	481
		-	-	D_2O reaction	Mann	TFS	52 (1956)	492
$(C_7H_6)_n$	Benzyl polymer	600-3600	S	Spec, Struct	Hass	JPS	15 (1955)	503

$(C_7H_8OSi)_n$	Methyl-phenyl silicone polymer	650-4000	S	Spec, Struct	Lady	AC	31 (1959)	1100
$(C_7H_8OSi)_n$	Poly methyl phenyl siloxane	625-5000	Sol	Ident	Smith	AC	31 (1959)	1174
$(C_7H_8O_2)_n$	Polydiacrylmethane	2.9-6.1 μ	S	Ident	Jones	JPS	33 (1958)	7
$(C_7H_9N)_n$	Butadiene-acrylonitrile copolymer	600-3700	-	Spec	Cheverley	APS	10 (1960)	1921
$(C_7H_9N)_n$	Nitrile rubber	2-15 μ	S	Spec	Allison	AC	24 (1952)	630
$(C_7H_9NO_2)_n$	Acrylonitrile-methacrylate copolymer	700-4000	S	Spec, Anal	Gentilhomme	BSCF	- (1960)	901
$(C_7H_9O_5S_2Na)_n$	Cellulose xanthate (sodium salt)	2-15 μ	S	Spec	Andrews	CJC	38 (1960)	1381
$(C_7H_{10})_n$	Polyethylisopropenyl acetylene	3.43-11.15 μ	L	Freq	Price	JPS	41 (1959)	445
$(C_7H_{10}O_2)_n$	Polyallyl crotonate	-	S	Freq	Barnett	JOC	25 (1960)	309
$(C_7H_{10}O_3)_n$	Acrolein-vinylacetate copolymer	1-15 μ	-	Spec	Schulz	MC	29 (1959)	190
$(C_7H_{10}O_6)_n$	Polygalacturonic acid methyl ester	2-16 μ	-	Spec	Solms	HCA	37 (1954)	2153
$(C_7H_{12}O_2)_n$	Poly-n-butyl acrylate	700-1500	S	Spec	Furukawa	MC	42 (1960)	165
$(C_7H_{12}O_2)_n$	Polyisobutyl acrylate	700-1500	S	Spec	Furukawa	MC	42 (1960)	165
$(C_7H_{12}O_2)_n$	Poly-sec-butyl acrylate	700-1500	S	Spec	Furukawa	MC	42 (1960)	165
$(C_7H_{12}O_2)_n$	Poly-t-butyl acrylate	700-1500	S	Spec	Furukawa	MC	42 (1960)	165
$(C_7H_{14}O)_n$	Poly-n-heptaldehyde	300-4000	S	Spec, Assign	Novak	CJC	37 (1959)	1718
$(C_8H_5D_3)_n$	Poly-α,β,β-trideuterostyrene	600-3200	S	Assign, Dichroism	Tadokoro	JPS	36 (1959)	553

$(C_8H_7D)_n$	Poly-αd_1-styrene	400-3500	S	Spec, Assign	Kobayashi	BCSJ	33 (1960)	1416
$(C_8H_7Cl)_n$	Poly-p-chlorostyrene	600-1500	S	Spec, Crystallinity	Nagai	BCSJ	32 (1959)	771
		2-15μ	S	Spec	Manecke	MC	37 (1960)	119
$(C_8H_7F)_n$	Poly-p-fluorostyrene	400-3500	S	Spec, Assign	Kobayashi	BCSJ	33 (1960)	1421
		2-15μ	S	Spec	Manecke	MC	37 (1960)	119
$(C_8H_8)_n$	Polystyrene	700-3300	-	Spec	Stair	JRNB	15 (1935)	295
		500-2000	-	Spec	Thompson	PRS	184 (1945)	3
		600-1800	S	Spec, Struct	Thompson	TFS	41 (1945)	246
		1370-1700	-	Monomer detection	Hippel	IE	38 (1946)	1121
		1250-1720	Sol	Polymerization study	Pfann	JPS	1 (1946)	14
		3000-4000	-	Reaction study	Cohen	JPS	2 (1947)	511
		650-1900	Sol	Spec	Bryant	JCS	- (1949)	2389
		700-2000	S	Cooling effect on spec	King	JAP	20 (1949)	559
		600-2000	S	Spec	Treumann	AC	21 (1949)	1161
		700-1900	-	Spec	Hoslam	ANA	75 (1950)	63
		2-16μ	S	Spec, Decomp. study	Achhammer	JRNB	47 (1951)	116
		-	-	Band freq	Walling	JACS	76 (1954)	4878
		2-8μ	L	Polymerization rate	Swolinki	JPS	17 (1955)	269
		680-3350	S	Spec, Struct	Brown	JCS	- (1957)	3620
		2-15μ	-	Spec	Ashinkari	BCSJ	31 (1958)	540
		70-3200	S	Spec, Assign	Liang	JPS	27 (1958)	241
		-	-	Spec	Simon	JPS	30 (1958)	201
		9.5-10.5μ	S	Temp effect on spec	Braun	NWS	46 (1959)	444
		600-3500	S	Assign, Heat effect, Dichroism, Crystallinity	Nozakura	JPS	36 (1959)	553
		950-1550	S	Spec, Struct	Tadokoro	BCSJ	32 (1959)	313
		650-4000	S	Spec, Config	Tadokoro	JPS	36 (1959)	553
		400-1100	S,Sol	Spec	Takeda	BCSJ	32 (1959)	1150
		50-2500	S	Spec	Decamps	CPR	250 (1960)	1827
		650-3600	S	Spec	Kawasaki	POL	1 (1960)	315
		400-3500	S	Spec, Assign	Kobayashi	BCSJ	33 (1960)	1416
		-	-	Absorp.	Kuwata	BCSJ	33 (1960)	1091
		650-5000	S	Spec, Tacticity	Morero	NC	15 (1960)	122
$(C_8H_8)_n$	Poly-p-xylene	1-15μ	S	Spec	Corley	JPS	13 (1954)	137
		290-3500	-	Spec, Assign	Tobin	JPC	61 (1957)	1392

$(C_8H_8)_nC_4H_9O_2$	Polystyrene tert-butyl peroxide	-	-	Group freq	Walling	JACS	76 (1954)	4878
$(C_8H_8F_3NO)_n$	Perfluoromethyl propenyl ketone-acrylonitrile copolymer	-	-	Ident	Rausch	JACS	79 (1957)	4983
$(C_8H_8O)_n$	Poly-2,6-dimethyl-1,4-phenylene oxide	6.25-12.08 μ	Sol	Absorp. bands	Staffin	JACS	82 (1960)	3632
$(C_8H_8O)_n$	Poly-o-hydroxystyrene	600-4000	-	Spec	Marvel	JPS	4 (1949)	703
		-	-	Struct	Tanaka	KKZ	60 (1957)	1595
$(C_8H_8O)_n$	Poly-p-hydroxystyrene	2-15 μ	S	Spec	Manecke	MC	37 (1960)	119
$(C_8H_8O)_n$	Polystyrene oxide	650-3600	S	Spec, Assign	Kawasaki	POL	1 (1960)	315
$(C_8H_8O)_n$	p-Vinylphenol polymer	2.5-14 μ	-	Spec	Savish	JOC	24 (1959)	1345
$(C_8H_8O_3S)_n$	Poly-p-styrenesulfonic acid	-	-	Ident	Houel	CPR	250 (1960)	3839
$(C_8H_{11}NO_2)_n$	Acrylonitrile-methacrylate copolymer	700-4000	S	Spec, Anal	Gentilhomme	BSCF	- (1960)	901
$(C_8H_{12}O_2)_n$	Poly-β-methallyl crotonate	-	S	C=C freq	Barnett	JOC	25 (1960)	309
$(C_8H_{12}O_3)_n$	β-Polyvinyloxyethyl methacrylate	2-15 μ	L	Assign	Walton	JACS	79 (1957)	3985
		2-15.5 μ	-	Spec, Struct	Lal	JPS	44 (1960)	523
$(C_8H_{12}O_4)_n$	Polybutane-1:4-diol succinate	700-1400	S,L	Struct, Dichroism	Davison	JCS	- (1955)	2428
$(C_8H_{12}O_4)_n$	Polyethylene adipate	700-1400	S,L	Struct, Dichroism	Davison	JCS	- (1955)	2428
		650-1000	S	Spec	Bradbury	TFS	56 (1960)	1117

$(C_8H_{12}O_4)_n$	Polyethyleneglycol adipate	2-15 μ	S	Ident, Anal, Spec	Corish	AC	31 (1959)	1298
$(C_8H_{12}O_5S_2)_n$	S-Methyl cellulose xanthate	2-15 μ	S	Spec	Andrews	CJC	38 (1960)	1381
$(C_8H_{13}Cl)_n$	Cyclohexyl chloro-polyethylene	2-15 μ	S	Spec	Smook	IE	45 (1953)	2731
$(C_8H_{13}ClO_2)_n$	2-Chloroethyl vinyl ether vinyl ether copolymer	1000-1200	Sol	Composition	Glass	JAOC	36 (1959)	100
$(C_8H_{13}NO_5)_n$	Chitin	-	S	Spec, Assign	Marchessault	BBA	45 (1960)	499
		700-4000	S	Spec, Assign, H bond	Pearson	JPS	43 (1960)	101
$(C_8H_{13}N_3O_3)_n$	L-Alanine-glycine copolymer	800-1700	S	Spec	Elliott	PRS	226 (1954)	408
$(C_8H_{14}N_2O_2)_n$	Glycine-L-leucine copoly peptide	1300-1800	S	Spec	Becher	JACS	76 (1954)	3707
$(C_8H_{14}O_2)_n$	Ethyl vinyl ether-vinyl ether copolymer	1000-1200	Sol	Composition	Glass	JAOC	36 (1959)	100
$(C_8H_{16}Si)_n$	Polydiallyldimethyl-silane	-	-	Freq	Butler	JOC	25 (1960)	1643
		-	Sol	Freq	Marvel	JOC	25 (1960)	1641
$(C_8H_{18}ClNO_3S)_n$	Triethylamine chloro-polyethylene sulfonate	2-15 μ	S	Spec	Smook	IE	45 (1953)	2731
$(C_8H_{23}NO_3Si_3)_n$	Dimethylaminomethyl-dimethylpolysiloxane	2-15 μ	-	Spec	George	JACS	77 (1955)	3493
$(C_9H_8O_2)_n$	Polystyrene-p-carboxylic acid	-	-	Polymerization study	Houel	CPR	250 (1960)	2209
$(C_9H_9NO)_n$	Poly-DL-phenyl alanine	-	-	Struct, H bond	Elliott	N	165 (1950)	921
		-	Sol	C=O, NH freq	Elliott	PRS	221 (1954)	104
		-	Sol	Struct	Lapp	CPR	248 (1959)	2351

$(C_9H_9NO_2)_n$	Poly-L-tyrosine	700-4000	Sol	Struct	Elliott	N	180 (1957)	1340
$(C_9H_{10})_n$	Poly-α-methylstyrene	-	-	Absorption	Kuwata	BCSJ	33 (1960)	1091
$(C_9H_{10})_n$	Poly-m-methylstyrene	650-1900	Sol	Spec	Bryant	JCS	- (1949)	2389
		-	-	Conformation	Murahashi	BCSJ	32 (1959)	534
		950-1550	S	Spec, Struct	Tadokoro	BCSJ	32 (1959)	313
$(C_9H_{10})_n$	Poly-p-methylstyrene	600-1900	Sol	Spec	Bryant	JCS	- (1949)	2389
		-	-	Absorption	Kuwata	BCSJ	33 (1960)	1091
		-	-	Coformation	Murahashi	BCSJ	32 (1959)	534
		950-1550	S	Spec, Struct	Tadokoro	BCSJ	32 (1959)	313
$(C_9H_{11}F_3O_3)_n$	Perfluoromethyl propenyl ketone-vinyl acetate copolymer	-	-	Ident	Rausch	JACS	79 (1957)	4983
$(C_9H_{15}N_6)_n$	Triethylenemelamine polymer	-	-	Spec	Allen	AC	27 (1955)	540
$(C_{10}H_4D_4O_4)_n$	Polyethylene-d_4 terephthalate	70-3600	S	Spec	Liang	JMS	3 (1959)	554
		2-15μ	S	Spec, Assign	Miyake	JPS	38 (1959)	497
		5-15μ	S	Spec	Farrow	MC	38 (1960)	147
		10-32μ	S	Spec, Assign	Miyake	BCSJ	33 (1960)	992
		4.3-4.9μ	-	C-D stretching	Miyake	JPC	64 (1960)	510
		70-3600	S	Spec	Liang	JMS	3 (1960)	554
$(C_{10}H_8F_7NO)_n$	Perfluoropropyl propenyl ketone-acrylonitrile copolymer	-	-	Ident	Rausch	JACS	79 (1957)	4983
$(C_{10}H_8O_4)_n$	Polyethylene terephthalate	650-2000	S	Spec	Ambroski	IE	45 (1953)	2290
		875-898	-	Crystallinity	Thompson	N	176 (1955)	78
		2.6-5μ	S	Spec, Assign of carboxyl and OH groups	Patterson	TFS	53 (1957)	291
		290-3500	S	Spec, Assign	Tobin	JPC	61 (1957)	1392
		70-3600	S	Spec, Assign, Struct	Liang	JMS	3 (1959)	554
		2-15μ	S	Spec, Rot. iso	Miyake	JPS	38 (1959)	479
		2-15μ	S	Spec, Assign	Miyake	JPS	38 (1959)	497

		5-15μ	S	Spec, Config	Farrow	MC	38 (1960)	147
		5-15μ	S	Crystallinity	Farrow	POL	1 (1960)	330
		10-32μ	S	Spec, Assign	Miyake	BCSJ	33 (1960)	992
$(C_{10}H_{10})_n$	Poly-1-phenylbutadiene	5-15μ	-	Spec	Radzitzki	JPS	13 (1954)	477
$(C_{10}H_{10})_n$	Poly-2-phenylbutadiene	5-15μ	-	Spec	Radzitzki	JPS	13 (1954)	477
$(C_{10}H_{10}N_2O_4)_n$	Polyurethane (polyethylene glycol + p-phenylene diisocyanate)	2-15μ	S	Ident, Anal, Spec	Corish	AC	31 (1959)	1298
$(C_{10}H_{10}O_2)_n$	Poly-O-acetoxystyrene	1400-4000	-	Spec	Marvel	JPS	4 (1949)	703
$(C_{10}H_{11}NOS)_n$	Poly-S-benzyl-L-cysteine	-	S	Amide I and II bands, bands, Struct	Blout	JACS	82 (1960)	3787
$(C_{10}H_{12}O_4)_n$	Polydipropylene fumarate	2-15μ	Sol	Bands, Assign	Walton	JACS	79 (1957)	3985
$(C_{10}H_{13}F_3O_3)_n$	Perfluoromethyl propenyl ketone-ethyl acrylate copolymer	-	-	Ident	Rausch	JACS	79 (1957)	4983
$(C_{10}H_{16}Cl_2S)_n$	Natural rubber vulcanized by S_2Cl_2	.775-2.9μ	S	Transmission curves	Nichols	PR	1 (1893)	1
		750	S	Absorption	Cartwright	PR	35 (1930)	415
		-	-	Freq	Williams	JCP	4 (1936)	460
		2-8μ	S	Abs., Refl. spec	Williams	JAP	8 (1937)	497
		400-3000	S	Spec	Wells	JAP	11 (1940)	137
		2.2-14.8μ	S	Spec	Sears	JAP	12 (1941)	35
		1-15μ	S	Spec	Williams	JAP	15 (1944)	585
		2-17μ	S	Spec	Sheppard	TFS	41 (1945)	261
		-	-	Bands due to vulcanization	Sheppard	JCS	- (1947)	1699
$(C_{10}H_{16}O_2)_n$	Polycyclohexyl methacrylate	700-1900	-	Spec	Hoslam	ANA	75 (1950)	63
$(C_{10}H_{16}O_4)_n$	Polybutane-1:4diol adipate	700-1400	S,L	Dichroism struct	Davison	JCS	- (1955)	2428
$(C_{10}H_{16}O_4)_n$	Polyethylene suberate	650-1000	S	Spec, Crystallinity	Bradbury	TFS	56 (1960)	1117

$(C_{10}H_{16}O_4)_n$	Polymethyl methacrylate-polyethyl acrylate copolymer	700-1900	-	Spec	Hoslam	ANA	75 (1950)	63
$(C_{10}H_{18}O_2)_n$	n-Butyl vinyl ether-vinyl ether copolymer	1000-1200	Sol	Composition	Glass	JAOC	36 (1959)	100
$(C_{10}H_{18}O_2)_n$	Isobutyl vinyl ether-vinyl ether copolymer	1000-1200	Sol	Composition	Glass	JAOC	36 (1959)	100
$(C_{10}H_{27}NO_3Si_3)_n$	n-Butylaminomethyl-dimethylpolysiloxane	2-15 μ	-	Spec	George	JACS	77 (1955)	3493
$(C_{10}H_{27}NO_3Si_3)_n$	Diethylaminomethyl-dimethylpolysiloxane	2-15 μ	-	Spec	George	JACS	77 (1955)	3493
$(C_{10}D_8O_4)_n$	Polyethylene-d_4 terephthalate-d_4	70-3600	S	Spec	Liang	JMS	3 (1959)	554
$(C_{11}H_{11}F_7O_3)_n$	Perfluoropropyl propenyl ketone-vinyl acetate copolymer	-	-	Ident	Rausch	JACS	79 (1957)	4983
$(C_{11}H_{11}NO_3)_n$	Poly-β-benzyl-L-aspertate	1520-1668	S	Freq, Assign, Conformations	Blout	JACS	82 (1960)	3787
$(C_{11}H_{12}N_2O_3)_n$	Glycine-L-tyrosine copolymer	-	-	Spec	Noguchi	NKZ	80 (1959)	85
$(C_{11}H_{13}N)_n$	Butadiene-vinyl pyridine copolymer	800-3000	S	Spec	Field	JAP	17 (1946)	386
$(C_{11}H_{14})_n$	Poly-2,4,5-trimethyl-styrene	650-1900	Sol	Spec	Bryant	JCS	- (1949)	2389
$(C_{11}H_{14})_n$	Poly-2,4,6-trimethyl-styrene	650-1900	Sol	Spec	Bryant	JCS	- (1949)	2389
$(C_{11}H_{16}Si)_n$	Poly-p-trimethylsilyl-styrene	- -	- -	Conformation Spec	Murahashi Noltes	BCSJ RTC	32 (1959) 79 (1960)	534 1076

$(C_{11}H_{16}Ge)_n$	Poly-p-trimethyl-germanium styrene	-	-	Spec	Noltes	RTC	79 (1960)	1076
$(C_{11}H_{16}Pb)_n$	Poly-p-trimethyl lead styrene	-	-	Spec	Noltes	RTC	79 (1960)	1076
$(C_{11}H_{16}Sn)_n$	Poly-p-trimethyl tin styrene	-	-	Spec	Noltes	RTC	79 (1960)	1076
$(C_{11}H_{21}NO)_n$	Nylon 11 (polymer of ω-aminoundecanoic acid	450-4000	S,L	Spec, Crystallinity	Tobin	JCP	25 (1956)	1044
$(C_{11}H_{21}NO)_n$	Poly (N,N-di-n-butyl) acrylamide	1083-1200	-	Tacticity, Crystallinity	Butler	JPS	48 (1960)	357
$(C_{11}H_{21}NO_2S_2)_n$	Polyampholyte	-	-	Ident	Marvel	JOC	25 (1960)	2207
$(C_{12}H_{10}OSi)_n$	Phenyl silicone polymer	650-4000	S	Spectrum	Lady	AC	31 (1959)	1100
$(C_{12}H_{13}F_7O_3)_n$	Perfluoropropyl propenyl ketone-ethyl acrylate copolymer	-	-	Ident	Rausch	JACS	79 (1957)	4983
$(C_{12}H_{13}NO_3)_n$	Poly-γ-benzyl-L-glutamate	1500-3400	S	Spec, Struct	Ambrose	PRS	205 (1951)	47
		-	-	$\nu_{C=O}$, δ_{NH}	Elliott	PRS	221 (1954)	104
		650-2000	Sol	Spec, Config	Blout	JACS	78 (1956)	955
		-	S	Amide I & II bands,	Blout	JACS	82 (1960)	3787
		-	-	Config	Miyazawa	JCP	32 (1960)	1647
$(C_{12}H_{13}NO_3)_n$	Poly-γ-benzyl-DL-glutamate	-	-	$\nu_{C=O}$, δ_{NH}	Elliott	PRS	221 (1954)	104
$(C_{12}H_{13}NO_3)_n$	Poly-L-glutamic benzyl ester	-	-	Struct, H bond	Elliott	N	165 (1950)	921
$(C_{12}H_{14})_n$	Polybutadiene-styrene copolymer	600-1700	S	Spec	Thompson	TFS	41 (1945)	246
		600-2000	S	Spec	Treumann	AC	21 (1949)	1161
		914-996	-	Struct	D'Ianni	IE	42 (1950)	42
		2.5-16 μ	-	Spec, Struct	Nielsen	IE	43 (1951)	341

		-	-	Anal	Binder	AC	26 (1954)	1877
		-	Sol	Composition	Binder	IE	46 (1954)	1727
		1.5-2.7 μ	-	Analysis	Miller	JAPC	6 (1956)	385
		600-3700	-	Spec	Cheverley	APS	10 (1960)	192
$(C_{12}H_{14}N_2O_4)_n$	Polyurethane from poly propylene glycol and 2,6-toluene diisocyanate	2-15 μ	S	Spec, Anal, Ident	Corish	AC	31 (1959)	1298
$(C_{12}H_{14}O_2)_n$	Styrene methacrylic acid copolymer	5.7-5.9 μ	Sol	COOH dimerization study	Chang	JPC	60 (1956)	782
		5.6-6 μ	-	H bonding	Longworth	JPS	29 (1958)	307
$(C_{12}H_{16})_n$	Poly-p-tert-butyl-styrene	-	-	Spec	Noltes	RTC	79 (1960)	1076
$(C_{12}H_{16}O_8)_n$	Cellulose acetate	2-15 μ	S	Spec, Oxidation study, Struct	Rowen	JRNB	39 (1947)	133
		500-1500	-	Spec	Thompson	DFS	9 (1950)	222
		2.5-4 μ	S	Spec, Struct	Brown	JCS	- (1951)	1532
$(C_{12}H_{18}N_2O_4)_n$	Polyurethan from 2-butyne-1,4-diol and 1,6-hexamethylene diisocyanate	700-3500	-	Ident	Marvel	JACS	72 (1950)	1674
$(C_{12}H_{20}O_4)_n$	Polyethylene sebacate	670-1500	S,L	Spec	Davison	JCS	- (1955)	2428
		700-1400	S,L	Dichroism, Structure	Davison	JCS	- (1955)	2428
$(C_{12}H_{22}N_2O_2)_n$	Nylon 66	500-3200	-	Spec, Struct	Thompson	TFS	41 (1945)	246
		2800-3500	S	Spec, Struct	Ambrose	PRS	199 (1949)	183
		-	-	Dichroism of C=O and NH bands	Elliott	N	172 (1953)	359
		2-16 μ	-	Spec	Harms	AC	25 (1953)	1140
		-	-	Dichroism	Caroti	N	178 (1956)	162
		2.5-11.5 μ	S	Spec	Coates	JOSA	43 (1953)	984
		2 μ	S	Freq, Dichroism	Fraser	JCP	24 (1956)	89
		1200-8000	Sol	Freq, Assign, Dichroism	Hecht	PRS	235 (1956)	174
		600-3600	S	Deuteration effect	Larose	CJC	35 (1957)	1239
		2.8-3.1 μ	S	Spec	Kinoshita	MC	33 (1959)	1
		400-3500	S	Spec	Cannon	SA	16 (1960)	302

$(C_{12}H_{22}N_2O_4)_n$	Polyurethane from butane-1,4-diol and 1,6-hexamethylene diisocyanate	700-3500	-	Ident	Marvel	JACS	72 (1950)	1674
$(C_{12}H_{23}NO_3Si_3)_n$	Anilinomethyldimethyl-polysiloxane	2-15μ	-	Spec	George	JACS	77 (1955)	3493
		2.8-3.1μ	-	H bonding	Trifan	JPS	28 (1958)	443
$(C_{13}H_{11}N)_n$	Poly-4-(α-pyridyl) styrene	-	-	Ident	Guivetchi	CPR	250 (1960)	3656
$(C_{13}H_{13}F_3O)_n$	Perfluoromethyl propenyl ketone-styrene copolymer	-	-	Ident	Rausch	JACS	79 (1957)	4983
$(C_{13}H_{15}N_3O_4)_n$	Glycine-L-tyrosine copolymer	-	-	Spec	Noguchi	NKZ	80 (1959)	85
$(C_{13}H_{16}O_2)_n$	Polymethyl methacrylate-polystyrene copolymer	700-1900	-	Spec	Hoslam	ANA	75 (1950)	63
$(C_{13}H_{18}S_2)_n$	Benzaldehyde-hexamethylene-dithiol polymercaptol	2400-4000	-	Spec	Marvel	JACS	72 (1950)	2106
$(C_{13}H_{21}NO_6S_2)_n$	Diethylacetamido cellulose xanthate	2-15μ	S	Spec	Andrews	CJC	38 (1960)	1381
$(C_{13}H_{24}N_2O_4)_n$	Polyurethane from pentane-1,5-diol and 1,6-hexamethylene diisocyanate	2.8-3.1μ	-	H bonding	Trifan	JPS	28 (1958)	443
$(C_{13}H_{25}NO_3Si_3)_n$	N-Methylanilinomethyl-dimethylpolysiloxane	2-15μ	-	Spec	George	JACS	77 (1955)	3493
$(C_{14}H_8F_{15}NO)_n$	Perflurorheptyl propenyl ketone-acrylonitrile copolymer	-	-	Ident	Rausch	JACS	79 (1957)	4983

$(C_{14}H_{12}N_2O_4)_n$	Polyurethane from poly ethylene glycol and 1,5-naphthalene diisocyanate	2-15 μ	S	Spec, Anal, Ident	Corish	AC	31 (1959)	1298
$(C_{14}H_{12})_n$	Polydiphenyl ethylene	650-1200	-	Spec	Ishida	BCSJ	33 (1960)	924
$(C_{14}H_{12}O)_n$	Polydiphenyl ethylene oxide	650-1200	-	Spec	Ishida	BCSJ	33 (1960)	924
$(C_{14}H_{12}O_6)_n$	Polyanhydride of adipic acid-terephthalic acid	2-14 μ	S	Spec, Composition	Yoda	BCSJ	32 (1959)	1120
$(C_{14}H_{14}O_4)_n$	Diallylphthalate polymer	1644 -	- -	Polymerization study Struct	LalauKeraly Lalaukeraly	CPR CPR	249 (1959) 250 (1960)	1213 2967
$(C_{14}H_{18}N_2O_3)_n$	Poly-carbo-benzoxy-D-L-lysine	-	-	Struct, H bond	Elliott	N	165 (1950)	921
$(C_{14}H_{20}O_4)_n$	Polysebacate of 2-butyne-1,4-diol	700-1500	-	Ident	Marvel	JACS	72 (1950)	1674
$(C_{14}H_{22}O_4)_n$	Polymethacrylic acid-polycyclohexyl methacrylate copolymer	700-1900	-	Spec	Hoslam	ANA	75 (1950)	63
$(C_{14}H_{24}O_4)_n$	Polybutane-1:4 diol sebacate	700-1400	S,L	Dichroism structure	Davison	JCS	- (1955)	2428
$(C_{14}H_{24}O_4)_n$	Polytetramethylene sebacate	-	-	Ident	Marvel	JACS	72 (1950)	1674
$(C_{14}H_{26}N_2O_2)_n$	Polyhexamethylene suberamide	2.8-3.1 μ	-	H bond	Trifan	JPS	28 (1958)	443
$(C_{14}H_{26}N_2O_4)_n$	Polyurethane from hexane-1,6-diol and 1,6-hexamethylene diisocyanate	2.8-3.1 μ	-	H bonding	Trifan	JPS	28 (1958)	443

$(C_{14}H_{26}O_2)_n$	2-Ethylhexyl vinyl ether-vinyl ether copolymer	1000-1200	Sol	Composition	Glass	JAOC	36 (1959)	100
$(C_{15}H_{11}F_{15}O_3)_n$	Perfluoroheptyl propenyl ketone-vinyl acetate copolymer	-	-	Ident	Rausch	JACS	79 (1957)	4983
$(C_{15}H_{13}F_7O)_n$	Perfluoropropyl propenyl ketone-styrene copolymer	-	-	Ident	Rausch	JACS	79 (1957)	4983
$(C_{15}H_{18}N_2O_4)_n$	Poly-γ-methyl-L-glutamate-DL-phenyl-alanine (α form) (1:1)	1500-3400	S	Spec, Struct	Ambrose	PRS	205 (1951)	47
$(C_{15}H_{18}N_2O_4)_n$	Poly-γ-methyl-L-glutamate-DL-phenyl-alanine (β form) (1:1)	1500-3400	S	Spec, Struct	Ambrose	PRS	205 (1951)	47
$(C_{15}H_{20}N_2O_2)_n$	Poly-DL-leucine-DL-phenylalanine (1:1)	-	S	C=O, NH freq	Elliott	PRS	221 (1954)	104
$(C_{15}H_{20}N_2O_2)_n$	Poly-L-leucine-L-phenylalanine	-	S	C=O, NH freq	Elliott	PRS	221 (1954)	104
$(C_{15}H_{24}O_4)_n$	Polymethyl methacrylate-polycyclohexyl methacrylate copolymer	700-1900	-	Spec	Hoslam	ANA	75 (1950)	63
$(C_{15}H_{28}N_2O_2)_n$	Polyhexamethylene azalamide	2.8-3.1 μ	-	H bond	Trifan	JPS	28 (1958)	443
$(C_{15}H_{28}N_2O_4)_n$	Polyurethan from heptane-1,7-diol and 1,6-hexamethylene diisocyanate	2.8-3.1 μ	-	H bonding	Trifan	JPS	28 (1958)	443
$(C_{16}H_{13}F_{15}O_3)_n$	Perfluoroheptyl propenyl ketone-ethyl acrylate copolymer	-	-	Ident	Rausch	JACS	79 (1957)	4983

$(C_{16}H_{17}ClN_2O_7)_n$	Polymer from poly ethylene glycol adipate and m-chloro-p-phenylene diisocyanate	2-15μ	S	Spec, Anal, Ident	Corish	AC	31 (1959)	1298
$(C_{16}H_{18}N_2O_7)_n$	Polymer from poly ethylene glycol adipate and p-phenylene diisocyanate	2-15μ	S	Spec, Anal, Ident	Corish	AC	31 (1959)	1298
$(C_{16}H_{26}N_2O_7)_n$	Polymer from poly ethyleneglycol adipate and hexamethylene diisocyanate	2-15μ	S	Spec, Anal, Ident	Corish	AC	31 (1959)	1298
$(C_{16}H_{30}N_2O_2)_n$	Polyhexamethylene sebacamide	10μ	S	Spec	Sandeman	JPS	19 (1956)	401
		2.8-3.1μ	-	H bond	Trifan	JPS	28 (1958)	443
$(C_{16}H_{30}N_2O_4)_n$	Polyurethane from octane-1,8-diol and 1,6-hexamethylene diisocyanate	2.8-3.1μ	-	H bonding	Trifan	JPS	28 (1958)	443
$(C_{17}H_{14}O_2)_n$	Polyfurfurylidene-cinnamylidene acetone	5.5-15μ	-	Spec	Borello	GCI	86 (1956)	899
$(C_{17}H_{26}S_2)_n$	Benzaldehyde-decamethylenedithiol polymercaptal	600-4000	-	Spec	Marvel	JACS	72 (1950)	2106
$(C_{17}H_{32}N_2O_2)_n$	Polyhexamethylene undecandioic acid amide	2.8-3.1μ	-	H bonding	Trifan	JPS	28 (1958)	443
$(C_{17}H_{32}N_2O_4)_n$	Polyurethane from nonane-1,9-diol and 1,6-hexamethylene diisocyanate	2.8-3.1μ	-	H bonding	Trifan	JPS	28 (1958)	443

$(C_{18}H_{18}N_2O_3)_n$	L-Phenylalanine-L-tyrosine copolymer	-	-	Spec	Noguchi	NKZ	80 (1959)	85
$(C_{18}H_{20}O_6)_n$	Polyanhydride of sebacic acid and terephthalic acid	2-14 μ	S	Spec, Composition	Yoda	BCSJ	32 (1959)	1120
$(C_{18}H_{20}Si)_n$	Polydiallyldiphenyl-silane	-	-	Freq	Butler	JOC	25 (1960)	1643
$(C_{18}H_{22}N_2O_7)_n$	Polymer from poly ethylene glycol adipate and 2,4-toluene diisocyanate	2-15 μ	S	Anal, Spec, Ident	Corish	AC	31 (1959)	1298
$(C_{18}H_{22}N_2O_7)_n$	Polymer from poly adipate and 2,6-toluene diisocyanate	2-15 μ	S	Anal, Spec, Ident	Corish	AC	31 (1959)	1298
$(C_{18}H_{34}N_2O_2)_n$	Polyhexamethylene dodecandioic acid amide	2.8-3.1 μ	-	H bonding	Trifan	JPS	28 (1958)	443
$(C_{18}H_{34}N_2O_4)_n$	Polyurethan from decane-1,10-diol and 1,6-hexamethylene diisocyanate	2.8-3.1 μ	-	H bonding	Trifan	JPS	28 (1958)	443
$(C_{19}H_{13}F_{15}O)_n$	Perfluoroheptyl propenyl ketone-styrene copolymer	-	-	Ident	Rausch	JACS	79 (1957)	4983
$(C_{20}H_{20}N_2O_7)_n$	Polyurethane from poly ethylene glycol adipate and 1,5,naphthalene diisocyanate	2-15 μ	S	Ident, Anal, Spec	Corish	AC	31 (1959)	1298
$(C_{20}H_{23}Cl_{17})_n$	Polyvinyl chloride-vinylidene chloride (3:7) copolymer	600-1700	S	Spec	Thompson	TFS	41 (1945)	246

$(C_{22}H_{22}N_2O_7)_n$	Polymer from poly ethylene glycol adipate and p,p'-diphenyl diisocyanate	2-15μ	S	Anal, Spec, Ident	Corish	AC	31 (1959)	1298
$(C_{23}H_{24}N_2O_7)_n$	Polymer from poly ethylene glycol adipate and p,p'-diphenylmethane diisocyanate	2-15μ	S	Anal, Spec, Ident	Corish	AC	31 (1959)	1298
$(C_{27}H_{27}N_3O_4)_n$	2L-phenylalanine-L-tyrosine copolymer	-	-	Spec	Noguchi	NKZ	80 (1959)	85
$(C_{30}H_{37}N_3O_3)_n$	Poly-DL-leucine-DL-amino-n-caprylic acid (2:1)	-	-	$\nu_{C=O}$, δ_{NH}	Elliott	PRS	221 (1954)	104
$(C_{37}H_{53}N_{13}O_{14})_n$	Glycine-DL-alanine, L-tyrosine copolymer	-	-	Spec	Noguchi	NKZ	80 (1959)	85
$(C_{904}H_{1505}O_2)_n$	Polymethacroylacetone	1200-1800	S	Stability const., Assign, IR shift	Charette	SA	16 (1960)	689
$(PNCl_2)_n$	Phosphonitrilic chloride polymer	2-21μ	S	Spec	Daasch	AC	23 (1951)	853
$(KPO_3)_n$	Potassium metaphosphate polymer	2-15μ	S	Assign, Struct	Corbridge	JCS	- (1954)	493
$(NaPO_3)_n$	Sodium metaphosphate polymer	2-15μ	S	Assign, Struct	Corbridge	JCS	- (1954)	493

IV. Minerals and Ores

Formula	Name	Range	State	Remarks	Reference			
CSi	Carborundum	1-15 μ	S	Refl. spec	Coblentz	BBS	2 (1907)	457
		10.2-13 μ	S	Refl. spec	Stron	JOSA	29 (1939)	520
O_2Si	Chalcedony	22-310 μ	S	Refl. trans. factors	Weniger	JOSA	7 (1923)	517
O_2Si	Chert	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
O_2Si	Coesite	300-4000	S	Spec, Assign	Lippincott	JRNB	61 (1958)	61
O_2Si	Cristobalite	700-1400	S	Refl. spec	Simon	JCP	21 (1953)	23
		-	S	Heat capacity	Dark	JCP	23 (1955)	597
		400-600	S	Refl. spec	Reitzel	JCP	23 (1955)	2407
		300-4000	S	Spec, Assign	Lippincott	JRNB	61 (1958)	61
O_2Si	Diatomaceous earth	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
O_2Si	Quartz	300-4000	S	Spec	Lippincott	JRNB	61 (1958)	61
O_2Si	α-Quartz	-	-	Electronic moments cal.	Saxena	PIAS	30 (1949)	128
O_2Si	β-Quartz	-	-	Electronic moments cal.	Saxena	PIAS	30 (1949)	128
O_2Si	Silica	300-4000	S	Spec	Lippincott	JRNB	61 (1958)	61
O_2Si	Tridymite	300-4000	S	Spec, Assign	Lippincott	JRNB	61 (1958)	61
$O_2Si \cdot xH_2O$	Opal	1-8 μ	S	Spec	Coblentz	BBS	2 (1907)	457
		0.5-8 μ	S	Spec	Coblentz	BBS	7 (1911)	619
		-	S	Refl. factors	Weniger	JOSA	7 (1923)	517
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
		12-13 μ	S	Spec	Hunt	AC	25 (1953)	1169
$AlHO_2$	Diaspore	7.5-11 μ	S	Refl. spec	Coblentz	BBS	2 (1907)	457
		1-8 μ	S	Emission spec	Coblentz	BBS	6 (1910)	301
		-	-	H bond	Bernal	PRS	151 (1935)	384
		-	-	H bond	Rundle	JCP	20 (1952)	1487
$AlH_2O_{12}Si_3Fe_3$-KMg_3	Biotite	4-14 μ	S	Refl. spec	Coblentz	BBS	2 (1907)	457
		1-9 μ	S	Spec	Hunt	AC	22 (1950)	1478
		4000-3500	-	Spec, Freq	Serratosa	JPC	62 (1958)	1164

AlH_3O_3	Hydrargillite	410-1200	S	Assign	Kolesova	OS	6 (1959)	38
		420-3700	-	Spec, Freq	Kolesova	OS	7 (1959)	261
$AlH_{12}O_9Mg_3$	Hydrotalcite	1-7 μ	S	Emission spec	Coblentz	BBS	6 (1909)	301
$AlH_{12}O_{22}Si_6Ca$	Stilbite	1-8 μ	S	Spec	Coblentz	BBS	2 (1907)	457
AlD_3O_3	Hydrargillite-d_3	420-3700	-	Spec, Freq	Kolesova	OS	7 (1959)	261
AlF_6Na_3	Cryolite	22-310 μ	S	Refl. trans. factors	Weniger	JOSA	7 (1923)	517
		-	-	Particle size	Bailey	IEC	18 (1946)	365
		-	S	FC	deLattre	JCP	19 (1951)	1610
		-	S	Optical consts.	Scott	JOSA	45 (1955)	176
AlO_3Si_3K	Adularia	-	S	Emission	Coblentz	BBS	5 (1909)	159
		22-310 μ	S	Refl. trans. factors	Weniger	JOSA	7 (1923)	517
AlO_4SiK	Mica	-	S	Freq	Bancroft	JPC	23 (1919)	1
		-	S	Absorption	Brown	PR	21 (1923)	103
		107-310 μ	S	Transmission	Weniger	JOSA	7 (1923)	517
		6.7-33 μ	S	Refl. trans.	Strong	PR	37 (1931)	1565
		10-130 μ	S	Spec	Barnes	PR	39 (1932)	562
		.6-2.7 μ	S	Interference, Polarization effects	Ellis	JOSA	23 (1933)	88
		-	S	Use as shutter	Fry	JAP	17 (1946)	150
		2-14 μ	S	Spec	White	JOSA	37 (1947)	713
		1-9 μ	S	Transmission	Fowler	RSI	20 (1949)	175
		100-600 μ	S	Spec	McCurbin	JOSA	40 (1950)	537
		1300-800	S	Refl. spec	Simon	JOSA	41 (1951)	336
		3-15 μ	S	Spec	Sands	AC	24 (1952)	791
		-	S	Spec	Kaye	SC	6 (1954)	257
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
AlO_4SiNa	Nepheline	410-1200	S	Assign	Kolesova	OS	6 (1959)	38
AlO_6Si_2K	Leucite	410-1200	S	Assign	Kolesova	OS	6 (1959)	38
AlO_6Si_2Li	Spodumene (α, β)	550-3000	St	Struct	Ignateva	OS	6 (1959)	807
		410-1200	S	Assign	Kolesova	OS	6 (1959)	38

AlO_6Si_2Na	Jadeite	410-1200	S	Assign	Kolesova	OS	6 (1959) 38
AlO_8Si_3K	Orthoclase	-	S	Quant. anal	Hunt	AC	24 (1952) 607
		12.5-14.3 μ	S	Bands	Hunt	AC	25 (1953) 1169
		410-1200	S	Assign	Kolesova	OS	6 (1959) 38
AlO_8Si_3K	Microcline	4-12 μ	S	Refl. spec	Coblentz	BBS	2 (1907) 457
		2-16 μ	S	Spec	Hunt	AC	22 (1950) 1478
AlO_8Si_3Na	Albite	4-10.5 μ	S	Refl. spec	Coblentz	BBS	2 (1907) 457
		1-8 μ	S	Emission spec	Coblentz	BBS	5 (1909) 159
		2-16 μ	S	Spec	Hunt	AC	22 (1950) 1478
		8-12 μ	S	Spec	Hunt	AC	25 (1953) 1169
		410-1200	S	Assign	Kolesova	OS	6 (1959) 38
Al_2HFO_6Si	Topaz	1-8 μ	S	Emission spec	Coblentz	BBS	5 (1909) 159
		1-6 μ	S	Emission spec	Coblentz	BBS	6 (1910) 301
		22-310	S	Refl. trans. factors	Weniger	JOSA	7 (1923) 517
		2-3 μ	S	H_2O Absorption	Lyon	PR	61 (1942) 482
		7.8-12 μ	S	Refl. spec	Pfund	JOSA	35 (1945) 611
$Al_2H_2F_2O_{11}Si_3KLi$	Lepidolite	4000-3000	-	Spec, Freq	Serratosa	JPC	62 (1958) 1164
$Al_2H_2O_{12}Si_4.xH_2O$	Montmorillonite	4000-3000	-	Spec, Assign	Serratosa	JPC	62 (1958) 1164
$Al_2H_4O_5$	Bauxite	1-8 μ	S	Spec	Coblentz	BBS	2 (1907) 457
		2.5-3.5 μ	S	OH band study	Frederickson	AC	26 (1954) 1883
$Al_2H_4O_8Si_2$	Kaolinite	2-16 μ	S	Spec	Hunt	AC	22 (1950) 1478
		-	S	Quant. Anal	Hunt	AC	24 (1952) 607
		8-12 μ	S	Spec	Hunt	AC	25 (1953) 1169
		8-15 μ	S	Spec	Fridel	AC	28 (1956) 23
		2.5-4.0 μ	S	Spec	Romo	JPC	60 (1956) 987
		2-15 μ	S	Spec	Stubican	N	179 (1957) 542
$Al_2H_4O_{12}Si_3Na_2$	Natrolite	1-9 μ	S	Spec	Coblentz	BBS	2 (1907) 457
$Al_2H_4O_{14}Si_4Na_2$	Analcite	22-310 μ	S	Refl. trans. factors	Weniger	JOSA	7 (1923) 517
$Al_2H_6O_{13}Si_3Ca$	Scolecite	1-6 μ	S	Spec	Coblentz	BBS	2 (1907) 457

$Al_2H_{10}O_{21}Si_6Ca$	Heulandite	1-12 μ	S	Spec	Coblentz	BBS	2 (1907)	457
$Al_2H_{48}O_{40}S_4K_2$	Potassium alum	2.82 μ	Sol	Transmission curves	Nichols	PR	1 (1893)	1
		1-3 μ	S	Spec	Coblentz	BBS	2 (1907)	457
		1.9-.779 μ	S	Transmission	Nicholson	PR	22 (1923)	199
		-	Sol	Comparison with Raman	Hollaender	PR	34 (1929)	994
Al_2O_3	Corundum	20-150 μ	S	Reflectivity	Strong	PR	38 (1931)	1818
		-	-	Use for windows with HF	Vodar	JCP	8 (1940)	349L
		9.3-12 μ	S	Refl. spec	Pfund	JOSA	35 (1945)	611
		-	-	Transmitts to 6.5	Chasmar	JSI	28 (1951)	206
		1-6 μ	S	Trans. curve	Penner	JCP	19 (1951)	272
		410-1200	S	Assign	Kolesova	OS	6 (1959)	38
Al_2O_5Si	Cyanite	1-7 μ	S	Emission spec	Coblentz	BBS	6 (1910)	301
		410-1200	S	Assign	Kolesova	OS	6 (1959)	38
$Al_2O_6Si_5xH_2O$	China clay	2-15 μ	S	Spec	Harkins	AC	31 (1959)	541
$Al_2O_8Si_2Ca$	Anorthite	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
$Al_2O_{12}SSiCa - Fe_2Mg$	Angren gliezh	-	-	Spec	Krylov	DANS	33 (1960)	5
$Al_2O_{12}Si_3Ca_3$	Grossularite	410-1200	S	Assign	Kolesova	OS	6 (1959)	38
$Al_2O_{12}Si_3Fe_3$	Garnet	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
$Al_2O_{12}Si_4Li_2$	Spodumene	22-310 μ	S	Refl. trans. factors	Weniger	JOSA	7 (1923)	517
		0.3-4.5 μ	S	Spec	Bayley	PR	31 (1928)	1132
$Al_2O_{18}Si_6Be_3$	Beryl	1-8 μ	S	Emiss. spec	Coblentz	BBS	5 (1909)	159
		22-310 μ	S	Refl. trans. factors	Weniger	JOSA	7 (1923)	517
		2.4-3 μ	S	H_2O Absorp.	Lyon	PR	61 (1942)	482
		6.7-11 μ	S	Refl. spec	Pfund	JOSA	35 (1945)	611
		.7-1.7 μ	S	Polarizer test	Pfund	JOSA	37 (1947)	558
		-	-	Quant. Mech., Struct	Matossi	JCP	17 (1949)	679
		10-3000	-	Spec, Struct	Wickersheium	AM	44 (1959)	440

$Al_2O_{24}Si_7Ca_2Fe_5Mg_5$	Horneblende	2-16μ	S		Hunt	AC	22 (1950)	1478
$Al_3H_2O_{12}Si_3K$	Muscovite	11-14μ	S	Spec	Coblentz	BBS	2 (1907)	457
		4-11μ	S	Refl. spec	Coblentz	BBS	7 (1911)	619
		1-9μ	S	Spec	Lyon	PR	61 (1942)	482
		2-16μ	S	Spec	Hunt	AC	22 (1950)	1478
		13-14μ	S	H_2O Absorp.	Hunt	AC	25 (1953)	1169
$Al_3O_{16}Si_5CaNa$	Oligoclase	1-8μ	S	Spec	Coblentz	BBS	5 (1909)	159
		2-16μ	S	Emiss. spec	Hunt	AC	22 (1950)	1478
$Al_4H_{10}O_{16}Si_4Fe_6Mg_3$	Vermiculite	4000-3000	S	Spec, Assign	Serratosa	JPC	62 (1958)	1164
$Al_6H_2O_{20}Si_4K_1 \cdot nH_2O$	Illite	2-16μ	S	Spec	Hunt	AC	22 (1950)	1478
		8-12μ	S	Spec	Hunt	AC	25 (1953)	1169
		-	-	Freq	Pobeyguin	CPR	248 (1959)	2220
$Al_6H_4O_{24}Si_6K_2$	Muscovite	4000-3000	-	Spec, Assign	Serratosa	JPC	62 (1958)	1164
		-	-	Freq	Pobeyguin	CPR	248 (1959)	2220
$Al_6ClO_{24}Si_6Na_7$	Hackmanite	200-2000	S	Spec	Medceed	JCP	21 (1953)	1309
Ag_3S_3As	Proustite	0.58-2μ	S	Photoelectric sensitivity	Coblentz	PR	17 (1921)	245
$BaCO_3$	Witherite	22-310μ	S	Refl. trans. factors	Weniger	JOSA	7 (1923)	517
		-	-	Residual rays	Schaefer	TFS	25 (1929)	841
		1-15μ	S	Spec, Assign	Narayanan	JIIS	40A (1958)	1
BaO_4S	Barytes	2-15μ	S	Spec	Harkins	AC	31 (1959)	541
BaO_9Si_3Ti	Benitoite	-	-	Quant. Mech., Struct	Matossi	JCP	17 (1949)	679
$CaCO_3$	Aragonite	-	-	Residual rays	Schaefer	TFS	25 (1929)	841
		5-40μ	S	Refl.	Barnes	PR	39 (1932)	562

		41 μ	S	Residual rays	Seifert	RSI	11 (1940)	365
		-	-	Selection rules	Couture	JCP	15 (1947)	1532
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
		8-15 μ	S	Spec	Louisfert	CPR	235 (1952)	287
		14.3 μ	S	Freq	Hunt	AC	25 (1953)	1169
$CaC^{12}O_3$	Aragonite (isotopic)	861	S	Intermolecular coupling	Decius	JCP	22 (1954)	1946
$CaC^{13}O_3$	Aragonite (isotopic)	861	S	Intermolecular coupling	Decius	JCP	22 (1954)	1946
$CaCO_3$	Calcite	1-8 μ	S	Emiss. spec	Coblentz	BBS	5 (1909)	159
		93-116 μ	S	Residual rays	Weniger	JOSA	7 (1923)	517
		5.5-7.5 μ	S	Refl.	Pfund	JOSA	15 (1927)	69
		1.7-2.64 μ	S	Refl.	Plyler	PR	33 (1929)	948
		-	-	Residual rays	Schaefer	TFS	25 (1929)	841
		8.7 μ	-	Dispersion	Korff	RMP	4 (1932)	471
		3-9 μ	S	Spec	Pfund	PR	39 (1932)	64
		6.4-7.4 μ	S	Refl. trans. spec	Silverman	PR	39 (1932)	72
		4-8 μ	S	Refl. trans.	Pfund	JOSA	23 (1933)	375
		80-150 μ	S	Refl.	Bryant	JOSA	24 (1934)	139
		-	-	Christianson filter	Barnes	PR	49 (1936)	732
		6-11.5 μ	S	Refl.	Sanderson	JOSA	30 (1940)	566
		-	S	Residual rays	Seifert	RSI	11 (1940)	365
		.4-4 μ	S	Spec	Barnett	JPC	46 (1942)	69
		-	-	Selection rules	Halford	JCP	14 (1946)	8
		-	-	Selection rules	Couture	JCP	15 (1947)	1532
		-	-	Quant. Mech.	Hornig	JCP	16 (1948)	1063
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
		-	S	Freq cal.	Giulottoo	JCP	19 (1951)	1316
		-	S	Quant. Anal	Hunt	AC	24 (1952)	607
		8-15 μ	S	Spec	Louisfert	CPR	235 (1952)	287
		14 μ	S	Freq	Hunt	AC	25 (1953)	1169
		2-15.3 μ	S	Spec	Hacskaylo	AC	26 (1954)	1410
		1430	-	Band length	Margoshes	JCP	22 (1954)	381
		1300-1600	S	Emiss. spec	Ketelaar	P	22 (1956)	1283
		20-35 μ	S	Spec, Assign	Hexter	SA	10 (1958)	281
		200-700	-	Freq	Louisfert	CPR	248 (1959)	1150
		-	-	Freq	Pobeyguin	CPR	248 (1959)	2220
		-	S	Assign	Shuttin	DANS	125 (1959)	767

$CaC^{12}O_3$	Calcite (isotopic)	878	S	Intermolecular coupling	Decius	JCP	22 (1954)	1946
$CaC^{13}O_3$	Calcite (isotopic)	850	S	Intermolecular coupling	Decius	JCP	22 (1954)	1946
CaC_2O_6Mg	Dolomite	-	-	Freq, Residual rays	Schaefer	TFS	25 (1929)	841
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
		-	S	Quant. Anal	Hunt	AC	24 (1952)	607
		13.7 μ	S	Spec, Freq	Hunt	AC	25 (1953)	1169
		200-700	-	Freq	Loiusfert	CPR	248 (1959)	1150
		-	-	Freq	Pobeguin	CPR	248 (1959)	2220
CaH_2O_2	Portlandite	2-3 μ	S	Struct	Petch	JOSA	44 (1954)	744
		-	S	Theoretical study	Hexter	JOSA	48 (1958)	770
CaH_4O_6S	Gpysum	1-7 μ	S	Spec	Coblentz	BBS	2 (1907)	457
		1-8 μ	S	Emiss. spec	Coblentz	BBS	5 (1909)	159
		.648-.093 μ	S	Spec	Coblentz	BBS	7 (1911)	619
		-	S	Comparison with Raman	Hollaender	PR	34 (1929)	994
		-	-	Water of crystallisation study	Ellis	PR	38 (1931)	693
		8.7 μ	-	Dispersion formula	Korff	RMP	4 (1932)	471
		7-10 μ	S	Refl. spec	Sanderson	JOSA	30 (1940)	566
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
		2 μ	S	Dispersion	Vanderberg	PR	85 (1952)	755
		15.1 μ	S	Spec, Freq	Hunt	AC	25 (1953)	1169
		3000-9000	S	Spec	Webber	PR	96 (1954)	846
		600-3400	S	Spec, Assign, Struct	Haas	PRS	236A (1956)	427
		2.5-3.3 μ	S	Spec, Struct	Lazerev	BASU	21 (1957)	329
		6131-7542	S	Spec	Stekhanov	BASU	21 (1957)	319
		-	-	Theoretical discussion on struct	Atoji	JCP	29 (1958)	1306
CaF_2	Fluorite	1-5.5 μ	S	Spec, Dichroism	Merritt	PR	2 (1895)	424
		24.4 μ	S	Residual rays plate	Rubens	PR	4 (1897)	314
		2-3 μ	S	Dichroism	Stewart	PR	4 (1897)	433
		.5-9 μ	S	Trans spec	Coblentz	BBS	9 (1913)	81
		-			Gorton	PR	7 (1916)	66
		6-11 μ	S	Spec	Coblentz	JOSA	4 (1920)	432
		-	S	Vib. freq theory	Nichols	PR	21 (1923)	712
		5.8 μ	S	Transmission	Nicholson	PR	22 (1923)	199

		82 μ	S	Refl. factor	Weniger	JOSA	7 (1923)	517
		22-9 μ	S	Reflectivity	Strong	PR	37 (1931)	1565
		5-40 μ	S	Refl.	Barnes	PR	39 (1932)	562
		8.7 μ	-	Dispersion formula	Korff	RMP	4 (1932)	471
		6 μ	S	Optical properties	Williams	PR	53 (1938)	930A
		6 μ	S	Dispersion	Wright	RSI	15 (1944)	22
		-	S	Comp. of prisms	Gore	JOSA	37 (1947)	165A
		19-25 μ	S	Refl.	Plyler	JOSA	37 (1947)	746
		20-25 μ	S	Refl.	Plyler	PR	72 (1947)	165A
		2-14 μ	S	Spec	White	JOSA	37 (1947)	713
		-	S	Dispersion	Williams	RSI	19 (1948)	135
		1-9.75 μ	S	Trans. spec	Stockbarger	JOSA	39 (1949)	731
		-	-	Polarizability	Szigeti	TFS	45 (1949)	155
		3 μ	S	Dispersion	Lecomte	JPR	11 (1950)	67
		-	S	Comp. with BaF_2	Ballard	JOSA	42 (1952)	684
		-	S	Calibration data	Downie	JOSA	43 (1953)	941
		-	-	Comparison	Brackett	JOSA	47 (1957)	636
		5000-500	-	Spec		JOSA	47 (1957)	689
CaO_3Si	Wollastonite	-	-	Quant. Mech., Struct	Matossi	JCP	17 (1949)	679
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
CaO_4Mo	Powellite	650-290	S	Assign	Duval	CPR	239 (1954)	249
CaO_6Si_2Mg	Avagite	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
CaO_6Si_2Mg	Diopside	-	-	Quant. Mech., Struct	Matossi	JCP	17 (1949)	679
$CaO_8S_2Na_2$	Glauberite	1-7 μ	S	Spec	Coblentz	BBS	2 (1907)	457
$CaO_{12}Si_4Mg_3$	Amphibole	4-11 μ	S	Refl. spec	Coblentz	BBS	2 (1907)	457
$Ca_2H_2O_{24}Si_8$ - Fe_5Mg_5	Actinolite	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
$Ca_2H_2O_{24}Si_8Mg_5$	Tremolite	1-7.5 μ	S	Spec	Coblentz	BBS	7 (1911)	619
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478

$Ca_5FO_{12}P_3$	Apatite	4-11 μ	S	Refl. spec	Coblentz	BBS	2 (1907)	457
		1-8 μ	S	Emiss. spec	Coblentz	BBS	5 (1909)	159
		2-16 μ	S	Spec, Freq	Hunt	AC	25 (1953)	1169
		11-12.5 μ	S	Spec	Underwood	JACS	77 (1955)	317
		11-24 μ	S	Spec	Fischer	AC	29 (1957)	431
$Ca_8H_{32}O_{57}Si_{16}K_2$	Apophyllite	8.8-10.4 μ	S	Refl. spec	Strong	JOSA	29 (1939)	520
$Ca_{10}HO_{25}P_6$	Hydroxyapatite (natural)	2-16 μ	-	Spec, Freq	Romo	JACS	76 (1954)	3924
		11-24 μ	S	Spec	Fischer	AC	29 (1957)	431
CuS	Covellite	6 μ	S	Opaque	Crandall	PR	2 (1913)	343
$Cu_2CH_2O_5$	Malachite	22-310 μ	S	Refl. trans. factors	Weniger	JOSA	7 (1923)	517
Cu_2S	Chalcocite	6 μ	S	Opaque	Crandall	PR	2 (1913)	343
$FeCO_3$	Siderite	-	-	Residual rays	Schaefer	TFS	25 (1929)	841
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
		13.5 μ	S	Spec, Freq	Hunt	AC	25 (1953)	1169
$FeHO_2$	Gothite	1-10 μ	S	Spec	Coblentz	BBS	2 (1907)	457
		-	-	H bond	Bernal	PRS	151 (1935)	384
FeO_3Ti	Ilmenite	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
FeS_2	Pyrite	.8-13 μ	S	Refl. spec	Coblentz	BBS	2 (1907)	457
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
		680-2400	S	Refl. Ext. coeff.	Simon	JOSA	41 (1951)	7302
Fe_2O_3	Hemotite	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
$Fe_2O_4SiMg_2$	Olivine	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
$Fe_2O_4Ni_{0.3}Zn_{0.7}$	Nickel-zincferrite	280-4000	S	Spec, Assign, FC	Waldron	PR	99 (1955)	1727
$Fe_3H_4O_9SiMg_3$	Serpentine	1-9 μ	S	Spec	Coblentz	BBS	2 (1907)	457
Fe_3O_4	Magnetite	-	S	Kerr effect polarization	Ingersoll	JOSA	5 (1921)	156

$MgCO_3$	Magnesite	-	-	Freq assign	Schaefer	TFS	25 (1929)	841
		2-16μ	S	Spec	Hunt	AC	22 (1950)	1478
		0.4-2.4μ	S	Refl. spec	Kaye	JOSA	41 (1951)	658
		0.4-2.7μ	S	Refl. spec	Derksen	JOSA	42 (1952)	263
		0.4-2.6μ	S	Refl. spec	Jacgauz	JOSA	45 (1955)	781
		200-700	-	Freq	Louisfer	CPR	248 (1959)	1150
$MgC_2ClO_6Na_3$	Northupite	-	-	Freq	Schaefer	TFS	25 (1929)	841
MgH_2O_2	Brucile	2-3.5μ	S	Spec	Mara	JOSA	43 (1953)	1100
		2-3μ	S	Struct	Petch	JOSA	44 (1954)	744
		2.3-3.5μ	-	Struct	Mara	JOSA	46 (1956)	464L
		-	S	Theoretical	Hexter	JOSA	48 (1958)	770
		350-11000	-	Spec, Struct	Mitra	DA	19 (1958)	841
MgO	β-Magnesia	8.7-32.8μ	S	Reflectivity	Strong	PR	37 (1931)	1565
		20-150μ	S	Reflectivity	Strong	PR	38 (1931)	1810
		-	-	Polarizability theory	Szigeti	TFS	45 (1949)	155
$Mg_3H_2O_{12}Si_4$	Talc	7-11μ	S	Refl. spec	Coblentz	BBS	2 (1907)	457
		1-8μ	S	Emiss. spec	Coblentz	BBS	6 (1910)	301
		5-750μ	S	Absorption	Cartwright	PR	35 (1930)	415
		8.3-10.3μ	S	Refl. spec	Sanderson	JOSA	30 (1940)	566
		2-16μ	S	Spec	Hunt	AC	22 (1950)	1478
		15μ	S	Freq	Hunt	AC	25 (1953)	1169
$Mg_3H_4O_9Si_2$	Antigorite	-	-	Spec, Assign	Brindley	AM	44 (1959)	185
$Mg_3H_4O_9Si_2$	Chrysolite	2.75μ	-	Spec, Assign	Brindley	AM	44 (1959)	185
$Mg_4C_3H_8O_{14}$	Hydromagnesite	-	-	Freq	Pobeguin	CPR	248 (1959)	2220
$MnCO_3$	Rhodochrosite	2-16μ	S	Spec	Hunt	AC	22 (1950)	1478
$MnHO_2$	Manganite	1-9μ	S	Spec	Coblentz	BBS	2 (1907)	457
MnH_4NO_4P	Mineral violet	2-15μ	S	Spec	Harkins	AC	31 (1959)	541
$Na_2H_4ClO_4B$	Teepleite	-	S	Spec, Assign	Edwards	JACS	77 (1955)	266

$PbCO_3$	Cerussite	-	-	Residual rays	Schaefer	TFS	25 (1929)	841
		0.6-9.0 μ	S	Dispersion	Pfund	JOSA	26 (1936)	230A
		-	-	Particle size	Bailey	IEC	18 (1946)	365
		-	-	Selection rules	Couture	JCP	15 (1947)	1532
PbO_4S	Anglesite	1-8 μ	S	Spec	Coblentz	BBS	2 (1907)	457
		5-750 μ	S	Absorption	Cartwright	PR	35 (1930)	415
		-	-	-	Duval	CPR	227 (1948)	1153
PbO_4Mo	Wulfenite	650-290	S	Assign	Duval	CPR	239 (1954)	249
PbO_4W	Stolzite	650-290	S	Assign	Duval	CPR	239 (1954)	249
PbS	Galena	0.5-13 μ	S	Refl. spec	Coblentz	BBS	2 (1907)	457
		6 μ	S	Opaque	Crandall	PR	2 (1913)	343
		22.9-32.8 μ	S	Reflectivity	Strong	PR	37 (1931)	1565
		150 μ	S	Reflectivity	Strong	PR	38 (1931)	1818
		2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
		2-5 μ	S	Trans.	Clark	PR	85 (1952)	1043
Sb_2S_3	Stibnite	0.6-11 μ	S	Refl. spec	Coblentz	BBS	2 (1907)	457
		1-7 μ	S	Trans. refl.	Crandall	PR	2 (1913)	343
		-	S	Freq	Baueroft	JPC	23 (1919)	1
		22.9 μ	S	Reflectivity	Strong	PR	37 (1931)	1565
		20-150 μ	S	Reflectivity	Strong	PR	38 (1931)	1818
		.05-13 μ	S	Trans. spec	Billings	JOSA	37 (1947)	119
		-	S	Theo. consts.	Scott	JOSA	45 (1955)	176
		.6-1.8eV	S	Photoconductivity	DeVore	PR	102 (1956)	86
$Sc_2O_7Si_2$	Thortuveitite	-	-	Cryst. struct, Quant. Mech.	Matossi	JCP	17 (1949)	679
$SrCO_3$	Strontianite	22-310 μ	S	Refl. trans. factors	Weniger	JOSA	7 (1923)	517
		1.5-2.5 μ	S	Assign	Plyler	PR	33 (1929)	948
		-	-	Residual rays	Schaefer	TFS	25 (1929)	841
ThO_4Si	Orangite	650-290	S	Assign	Duval	CPR	239 (1954)	249
TiO_2	Rutile	1-8 μ	S	Emiss. spec	Coblentz	BBS	5 (1909)	159
		22-310 μ	S	Refl. trans. factors	Weniger	JOSA	7 (1923)	517

		0.6-9.0 μ	S	Dispersion	Pfund	JOSA	26 (1936)	230A
		3-300 μ	-	Refl. spec	Berberich	JAP	11 (1940)	681
		0.4-4 μ	S	Spec	Barnett	JPC	46 (1942)	69
		-	-	Polarizability	Szigeti	TFS	45 (1949)	155
		-	-	Freq, Assign, Calc.	Dayal	PIAS	32 (1950)	304
		1.5 μ	S	Refr. Ind.	DeVore	JOSA	40 (1950)	266A
		6-300 μ	S	Refl. spec	VonHipple	RMP	22 (1950)	221
		0.4-8 μ	S	Dispersion	Cronemeyer	PR	82 (1951)	975
		-	S	Refl.	Studer	JOSA	41 (1951)	811
		-	S	Refl. spec	Cronemeyer	PR	87 (1952)	876
		0.3-8 μ	S	Spec	Breckenridge	PR	91 (1953)	793
		0.9-2.65 μ	S	Refl.	Studer	JOSA	43 (1953)	522
		-	-	Heat cap due to optical vib.	Dugdate	PRS	224 (1954)	228
		-	-	Reflectivity surface	Haas	JOSA	45 (1955)	945
		-	S	Theoretical, Consts.	Scott	JOSA	45 (1955)	176
		-	-	Absorption	Cronemeyer	PR	113 (1959)	1226
$ZnCO_3$	Smithsonite	2-16 μ	S	Spec	Hunt	AC	22 (1950)	1478
ZnO	Zincite	20-150 μ	S	Reflectivity	Strong	PR	38 (1931)	1818
Zn_2O_4Si	Willemite	650-290	S	Assign	Duval	CPR	239 (1954)	249

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