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## Pollution Analysis: A Bibliography of the Literature of Activation Analysis

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# TECHNICAL NOTE 532

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## **Pollution Analysis: A Bibliography of the Literature of Activation Analysis**

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Institute for Materials Research  
National Bureau of Standards  
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## PREFACE

This bibliography is the third of a series of bibliographies on the application of Activation Analysis to specific subjects. The bibliographies in this series are produced from the master files of the Analytical Chemistry Division's Activation Analysis Information Center and will be periodically updated.

W. Wayne Meinke, Chief  
Analytical Chemistry Division

POLLUTION ANALYSIS: A BIBLIOGRAPHY OF  
THE LITERATURE OF ACTIVATION ANALYSIS

G. J. Lutz, Editor

The literature of the use of activation analysis of pollution samples is reindexed in detail with respect to Element Determined, Matrix Analyzed and Technique Used for precise literature searching. An author index is included.

Key words: Activation analysis, element determined, matrix analyzed, pollution analysis, technique used.

INTRODUCTION

This publication, Pollution Analysis: A Bibliography of the Literature of Activation Analysis, is one of a series of specialized bibliographies on Activation Analysis, prepared by the Analytical Chemistry Division's Activation Analysis Information Center.

Publications obtained by the center for inclusion in the Activation Analysis Literature Storage and Retrieval Systems are indexed according to the broad categories of Element Determined, Matrix Analyzed and Technique Used. Currently there are 106 descriptive terms under Matrix Analyzed and 53 under Technique Used.

Candidates for inclusions in this bibliography were extracted from the matrix categories water, air atmosphere, foodstuffs, pesticides, particles, dusts, drugs and soils. The publications included in this bibliography have been reindexed in greater detail with

respect to Matrix Analyzed and Technique Used, thus allowing users to make very specific searches on topics of interest.

An author index has been included and it is hoped that readers will point out omissions to the editor. Revisions to this bibliography will be published at appropriate intervals.

The editor thanks Mr. R. J. Boreni of the Activation Analysis Literature Center for his efforts on behalf of this bibliography.



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POLLUTION ANALYSIS - ELEMENT DETERMINED

ALUMINUM

966 1746 6922 7123 8017

ANTIMONY

54 56 1746 2790 6307 6923 8017 8145

ARSENIC

54 55 56 290 476 1746 3791 6307 6944 7242 7332 8145

BARIUM

54 55 56 290 966

BERYLLIUM

184 185

BROMINE

54 55 56 290 1266 1569 1746 3505 3791 5397 5975 6017 6307  
6362 6363 6364 6365 6921 6922 7123 7140 7242 7911 8017 8145

CADMIUM

6923

CALCIUM

54 56 6307

CERIUM

6923

CESIUM

8145

CHLORINE

54 55 56 290 966 1266 1569 1746 1913 2981 5397 6017 6362  
6363 6364 6365 6921 6922 7123 7140 7898 8017

POLLUTION ANALYSIS - ELEMENT DETERMINED

CHROMIUM

2790 6923 7898 8017 8145

COBALT

6307 6923 8017 8145

COPPER

54 55 56 290 1746 2790 6307 6923 6944 7123 8145

EUROPIUM

6923

GALLIUM

1746 6923

GOLD

6923 8145

HAFNIUM

6923

INDIUM

6923 7123

IODINE

54 55 56 290 966 1266 1569 5397 6017 6362 6363 6364  
6365 6921

IODINE-129

1326

IRON

6307 6923 8017 8145

LANTHANUM

2790 6307 6923



POLLUTION ANALYSIS - ELEMENT DETERMINED

MAGNESIUM

54 55 56 290

MANGANESE

54 55 56 290 966 1746 2790 6922 7123 7898 8017 8145

MERCURY

1746 2563 2790 3084 3505 3791 6307 6308 6923 7140 7328 7927  
8008 8017 8145

PHOSPHOROUS

54 56

PLUTONIUM

2553 2998

POTASSIUM

54 55 56 290 8145

RUBIDIUM

54 55 56 290 8145

SAMARIUM

6923

SCANDIUM

1746 2790 6307 6923 8017 8145

SELENIUM

562 6923 8145

SILICON

54 56

SILVER

8145

POLLUTION ANALYSIS - ELEMENT DETERMINED

SODIUM

54 55 56 290 966 1746 2790 6922 7123 7898 8017 8145

STRONTIUM

54 55 56 290

TERBIUM

6923

THORIUM

54 55 56 290 1746 6393

URANIUM

290 8145

VANADIUM

6922 7123 8017

YTTERBIUM

6923

ZINC

54 55 56 290 6307 6923 8017 8145

## APPENDIX III



POLLUTION ANALYSIS - MATRIX ANALYZED

AIR, ATMOSPHERE

184 185 966 1266 1326 1569 2981 2998 5397 6017 6307 6362  
6363 6364 6365 6393 6921 6922 6923 7123 7328 7901 8017

CHLORINATED HYDROCARBONS IN THE ATMOSPHERE

2981

DRUGS

1746

FOODSTUFF

476 2563 2790 3791 6308 6944 7126 7140 7332 7911 7927 8008

INDUSTRIAL WASTE GASES

562

OIL FOR IDENTIFICATION OF SOURCES OF POLLUTION

2790

PESTICIDE RESIDUES

1913 3505 3791 5975 5990 7140 7242 7911 7927

RIVER SEDIMENTS

2790

SOIL

2553

WATER

54 55 56 290 1326 2790 2852 2998 3084 3969 7898 8145



## **APPENDIX IV**





POLLUTION ANALYSIS - TECHNIQUE USED

AUTOMATED SYSTEMS

3791

$^9\text{BE}(\alpha, n\gamma) ^{12}\text{C}$  WITH  $^{210}\text{PO}$  SOURCE

184 185

DUST COLLECTION

1962

FROZEN WATER SAMPLE DURING IRRADIATION

3808 8145

GE(LI) DETECTORS

6923

GENERAL REVIEWS

935 1056 1874 2656 4412 6926 7120 7126 7140 8072

GROUP SEPARATIONS FOR WATER SAMPLES

54 55 56 290 2852 8145

STABLE ISOTOPES IN INSECTICIDE SPRAYING TRACING

6859

STABLE ISOTOPES IN RIVERS AND ESTUARIES TRACING

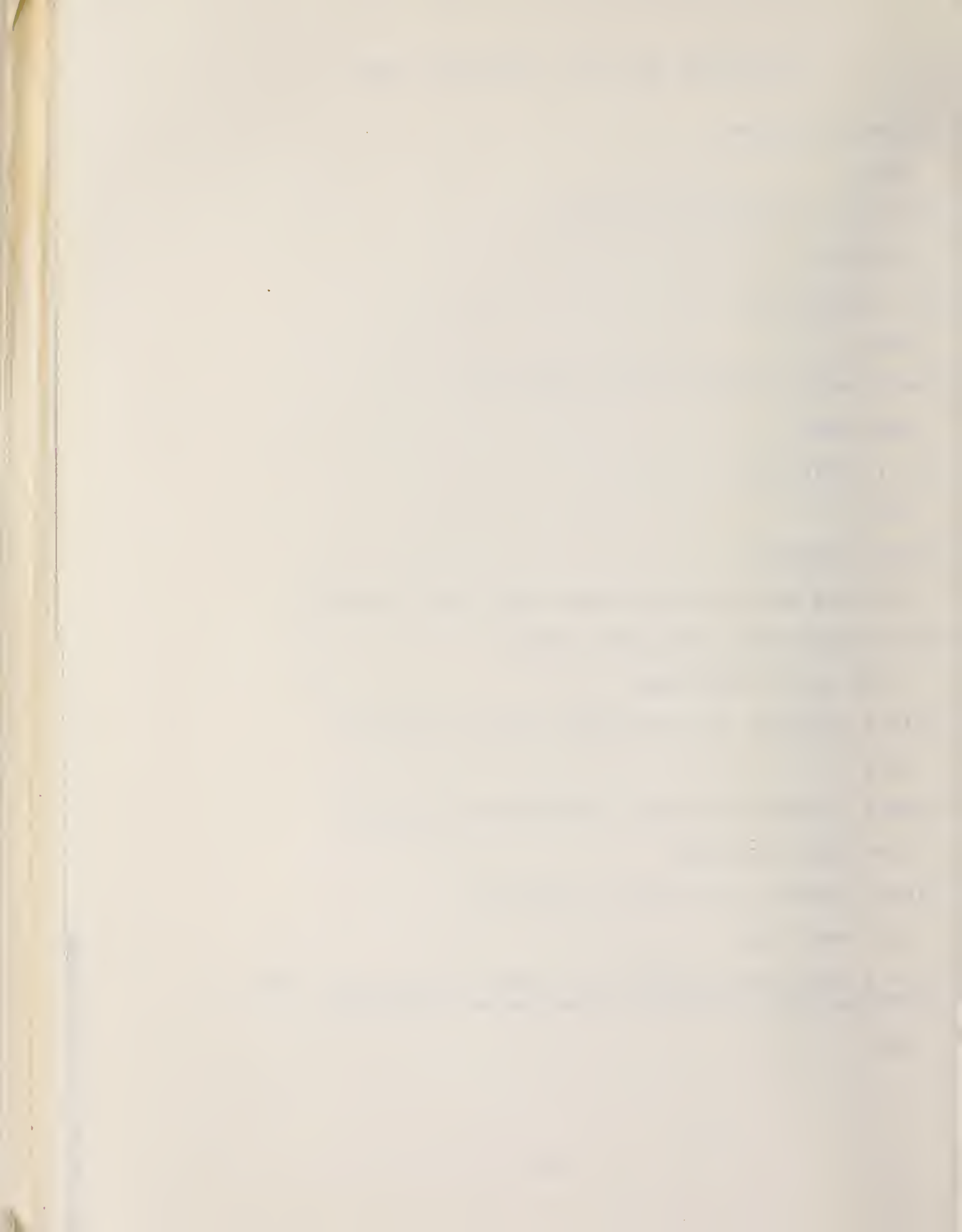
5749 5920 6320 8023

STABLE ISOTOPES IN STACK GAS TRACING

1036 5967 6848

STABLE LANTHANIDE ISOTOPE AS A SUBSTITUTE FOR THE STUDY OF  
PLUTONIUM AND URANIUM DISTRIBUTION AND EXCRETION

6860



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