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Thermophysical Properties of Helium-4 from 0.8 to 1500 K with Pressures to 2000 MPa

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CONTENTS

REVISION NOTES

This publication is a second printing of Technical Note 1334, 1989. There have been several minor revisions in this document. An error in the computer code for the viscosity led to some erroneous values in the tables at temperatures above 300 K especially at high pressures; these have been corrected. In addition, we present revised correlations for the dielectric constant, which slightly changes some tabulated values, and for the surface tension. Finally, we have included additional short discussions of correlations for the index of refraction, superfluid properties, and the solid-fluid transition. V.D. Arp and R.D. McCarty have retired from NIST and are currently affiliated with Cryodata, Inc. of Boulder, Colorado.

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Tabular summary data of the thermophysical properties of fluid helium are given for temperatures from 0.8 to 1500 K, with pressures to 2000 MPa between 75 and 300 K, or to 100 MPa outside of this temperature band. Properties include density, specific heats, enthalpy, entropy, internal energy, sound velocity, expansivity, compressibility, thermal conductivity, and viscosity. The data are calculated from a computer program which is available from the National Institute of Standards and Technology. The computer program is based on carefully fitted state equations for both normal and superfluid helium.

Key words: conductivity; density; helium; sound velocity; specific heat; state equation; superfluid; thermodynamic properties; viscosity

1. INTRODUCTION

The thermophysical properties of helium-4 have previously been tabulated in NBS Technical Note 631 [McCarty, 1972], and, for HeII (the superfluid phase), in NBS Technical Note 1029 for temperatures from 0 to (almost) the lambda line [McCarty, 1980]. These two publications were based on two different computer codes, neither of which was valid within about ±0.1 K of the lambda line which separates HeI (the normal fluid phase) from HeII.

The HeI computer code has been revised [McCarty and Arp, 1989] to remove some thermodynamic inconsistencies, particularly for the dense liquid. It is valid from about 2.5 to 1500 K with pressures to 100 MPa; between 75 and 300 K it is valid to 2000 MPa, but at reduced accuracy. A new code [Arp, 1989] includes HeII, the lambda line, and compressed liquid HeI from 0.8 to 2.5 K. These two codes have been joined smoothly to produce a single code valid from 0.8 to 1500 K, from which the data of this publication have been calculated.

2. TEMPERATURE SCALE, FIXED POINTS, AND UNITS

The data tabulated in this publication are consistent with the ITS-90 temperature scale [Preston-Thomas, 1990] to within appropriate uncertainties. In the liquid helium range, primary data were adjusted to the EPT-76 provisional temperature scale [Durieux and Rusby, 1983]. Differences between the ITS-90 and EPT-76 temperature scales are negligible in this range. Fixed point pressures and temperatures on the EPT-76 scale are included in table 1. The molar mass of helium-4, M, was approximated as 4.0026 g/mol.

Table 1. Fixed points on the EPT-76 temperature scale.

Critical point	Normal boiling point	Lower lambda point
P_c = 227 460 Pa	P = 101 325 Pa	P_λ = 5041.8 Pa
T_c = 5.1953K	T = 4.2221 K	T_λ = 2.1768 K
ρ_c = 69.64 kg/m^3		$\rho_{\lambda liquid}$ = 146.15 kg/m^3

2.1 Conversion from the T58 to the EPT-76 Temperature Scale

Much of the available literature on liquid helium properties is based on the older T58 temperature scale, whereas this document and its related computer program are based on the newer EPT-76 temperature scale in the liquid range. We have developed a computer subroutine to convert from the T58 to the EPT-76 temperature scale. The FORTRAN code for the subroutine is:

```
DOUBLE PRECISION FUNCTION T7658 (T58)

* T76 as a function of T58; valid from 0.8 to T_c
* RMS fitting error = 66 microdegrees
* constrained for 0 error at T58 = 2.172 and 5.190

DIMENSION A(4), B(3), C(3)

DATA A /-0.1891260993E-02, 0.8508937840E-02, 0.4836428596E-02, 0.1076075419E-02/
DATA B / 0.7530201452E-02, -0.2681259464E-02, 0.9784628670E-03/
DATA C / 0.6115602751E-02, 0.1146742367E-02, -0.2767840460E-03/

IF (T58 .LE. 2.1720) THEN
  T7658 = T58 + A(1) + T58*(A(2) + T58*(A(3) + T58*A(4)))
ELSE IF (T58 .LE. 4.082) THEN
  X = 1./(T58 - 1.70)
  T7658 = T58 + B(1) + X*X*(B(2) + X*B(3))
ELSE IF (T58 .LE. 4.619) THEN
  T7658 = T58 + 0.00713
ELSE IF (T58 .LE. 5.190) THEN
  X = 1./(5.4 - T58)
  T7658 = T58 + C(1) + X*(C(2) + X*C(3))
ELSE
  T7658 = -1.
ENDIF
END
```

3. STATE PROPERTIES

3.1 The Overlap Region for the HeI and HeII Equations

The equations used to generate the state properties are detailed in other publications [Arp, 1990; McCarty and Arp, 1990] and will not be repeated here. It is important to note, however, that the tabulated values, being derived from a state equation, are thermodynamically consistent at a given state point, with a mild exception in the overlap region, where weighted averages between the two state equations are used. The boundaries of the overlap region are defined by two lines in the density-temperature plane of the compressed liquid. When the density, ρ, is <140 or >190 kg/m^3, the HeI equation is always used. Between these densities, the HeII equation is used for temperatures less than

$$T_A = 2.53 - 0.0056\,(\rho - 140) - 0.035\ \mathrm{Max}\,(0, \rho - 180)$$

and the HeI equation is used for temperatures greater than

$$T_M = 2.98 - 0.0056(\rho - 140) - 0.035 \text{ Max } (0, \rho - 180).$$

In these expressions, the temperature is expressed in Kelvins and the density is expressed in kilograms per cubic meter. For temperatures between T_A and T_M, the calculated state property is a linearly temperature-dependent weighted average of the state properties calculated from the HeI and HeII equations. Thus, in the overlap region, the various calculated thermodynamic properties are not exactly consistent with one another; e.g. the Maxwell relations are only approximate, the numerical integral of C_P along an isobar is not exactly the tabulated enthalpy difference, etc. In practice, the errors are on the order of 3 percent or less in the compressed liquid for pressures up to about 0.2 MPa, but rise to 20 percent or more as the melting line is approached. The problem of obtaining thermodynamic consistency in this overlap region is compounded by the general lack of experimental data in this region, especially at higher pressures.

3.2 Density

Estimated uncertainties in the tabulated densities are given in table 2.

Table 2. Uncertainties in the PVT data.

Temperature range (K)	Pressure range (MPa)	Uncertainty in density	
		Average (%)	Maximum (%)
0.8-20	0-0.2	0.1	0.5*
0.8-20	0.2-100	0.15	1.5*
Critical Region	$T_c \pm 5\%$, $\rho_c \pm 20\%$	3.0	8.0
20-70	0-2	0.25	0.75
20-70	2-100	0.1	1.0
70-50	0-10	0.1	0.5
70-150	10-100	0.5	2.0 **
75-300	100-2000	1.0	5.0
150-400	0-10	0.1	0.25
150-400	10-100	0.1	0.5
400-1500	0-10	0.1	0.5
400-1500	10-100	0.2	2.0

* Except in critical region
** No reliable data

3.3 Derived Properties

Derived properties are those which can be obtained by differentiation and/or integration of the PVT surface. They include the internal energy, enthalpy, entropy, sound velocity, Gruneisen parameter, thermal expansivity, and isothermal compressibility. In general, the derived properties will be less accurate, typically by an order of magnitude, than the densities as listed in table 2. The derived properties include:

the (dimensionless) Gruneisen parameter, which is defined as

$$\phi = \left[\frac{V}{c_v}\right]\left[\frac{\partial P}{\partial T}\right]_v ,$$

the thermal expansivity, which is given in dimensionless form as

$$\alpha = \left[\frac{T}{V}\right]\left[\frac{\alpha V}{\alpha T}\right]_p ,$$

and the isothermal compressibility, which is given in dimensionless form as

$$K_T = \left[\frac{P}{\rho}\right]\left[\frac{\partial \rho}{\partial P}\right]_T .$$

4. TRANSPORT PROPERTIES

4.1 Thermal Conductivity

The calculated thermal conductivities are taken from the correlation of Hands and Arp [1981]. These were fitted to the 1972 helium properties code, and have not been refitted to the present thermodynamic surface. However, the differences are expected to be small compared to the uncertainty in the basic experimental data. The validity is unknown below 3.5 K or above 100 MPa, so no values are listed in these ranges.

4.2 Viscosity

No new viscosity data for HeI have been considered since the 1972 correlation. Since the 1972 publication is out of print, and the equations are unpublished elsewhere, we summarize the equations as follows. The viscosity of the normal component of superfluid helium is discussed in Section 5.3.

4.2.1 Viscosity Between 100 K and 3.5 K

For temperatures of 100 K and below, the equation

$$\ell n\eta = \eta'_o(T) + \eta'_E(\rho,T) \qquad (1)$$

was used to calculate the viscosity for helium. If $x = \ell n(T)$, then

$$\eta'_o(T) = -0.135\,311\,743/x + 1.003\,478\,41 + 1.206\,546\,49x - 0.149\,564\,551x^2 + 0.012\,520\,841\,6x^3 \qquad (2)$$

and

$$\eta'_E(\rho,T) = \rho B(T) + \rho^2 C(T) + \rho^3 D(T), \qquad (3)$$

where ρ is in g/cm^3, and

$$B(T) = -47.529\,525\,9/x + 87.679\,930\,9 - 42.074\,158\,9x + 8.331\,282\,89x^2 - 0.589\,252\,385x^3, \qquad (4)$$

$$C(T) = 547.309\,267/x - 904.870\,586 + 431.404\,928x - 81.450\,485\,4x^2 + 5.370\,084\,33x^3, \quad (5)$$

$$D(T) = -1684.393\,24/x + 3331.086\,30 - 1632.191\,72x + 308.804\,413x^2 - 20.293\,636\,7x^3. \quad (6)$$

The resulting viscosities are in μg/(cm· s). Equations (1–6) are from Steward and Wallace (1971). Steward's work included measurements from 4 to 20 K at pressures from the dilute gas region to 10 MPa. Steward reports a standard deviation of 0.032 in the natural log of the viscosity in the units of μg/(cm·s). In addition, Steward proposes the possibility of an uncertainty of ±8 percent.

4.2.2 Viscosity Between 100 and 300 K

Steward included a few points calculated from the Enskog theory (Hanley, McCarty, and Cohn, 1972) when the eqs (1–6) were derived. He found this necessary to enable the use of these equations up to 300 K. However, from 100 to 300 K, the dilute-gas values of Steward differ by 2.5 percent from a correlation by Maitland and Smith (1971). Since Steward reports using calculated dilute-gas values and the correlation of Maitland and Smith is based on experimental data, the dilute-gas values of Maitland and Smith were used for all T > 110 K. Between 100 and 110 K, a linear average of the dilute gas values of Steward and those of Maitland and Smith was used. In the 100 to 110 K temperature range, the dense gas contribution for viscosity was calculated from Steward's equations. The equations for viscosity between 100 and 300 K are:

$$\eta(\rho,T) = \eta_o(T) + \eta_e(\rho,T), \quad (7)$$

where

$$\eta_o(T) = 196T^{0.71938}e^{(12.451/T - 295.67/T^2 - 4.1249)}, \quad (8)$$

and

$$\eta_e = e^{[\eta_o'(T) + \eta_E'(\rho,T)]} - e^{[\eta_o'(T) + \eta_E'(O,T)]}, \quad (9)$$

where ρ is in g/cm^3, T in K, and η is in μg/(cm·s).

4.2.3 Viscosity Above 300 K

Since Steward's analysis did not include any dense-gas data for temperatures above 300 K, either calculated or experimental, the temperature-dependent excess function given by eq (9) was evaluated at 300 K. The resulting equation for η_e is a function of density alone and gives results similar to the excess function of Tsederberg et al. (1969). The uncertainty of the viscosity for T > 100 K is estimated to be maximum of ±10 percent.

4.3 Thermal Diffusivity

The thermal diffusivity of a fluid is defined as

$$\alpha = \lambda/(\rho C_P), \quad (10)$$

where α is the thermal diffusivity, λ is the thermal conductivity, and C_p is the specific heat at constant pressure. The tabulations of thermal diffusivity in appendices A and B have been calculated using eq (10), and ρ, λ, and C_p in the tables. The uncertainty of α is estimated to be 20 percent, except in the critical region.

4.4 Prandtl Number

The Prandtl number is frequently used in engineering calculations and is defined as

$$Pr = C_p\eta/\lambda, \tag{11}$$

where C_p is the specific heat at constant pressure, η is the viscosity, and λ is the thermal conductivity. The tabulations of the Prandtl number in appendices A and B have been calculated from eq (11) using values of η, ρ, and C_p from adjacent entries in the tables. Since Pr is a function of both η and λ, the uncertainty in Pr could be as much as 25 percent.

5. SUPERFLUID PROPERTIES

5.1 Superfluid Density Fraction

For a given pressure P and temperature T, define

$$x = 1 - T/T_\lambda(P), \tag{12}$$

where $T_\lambda(P)$ was discussed by Arp (1990).

Then, for $0 < x < 0.45$, the superfluid density fraction data of Maynard (1976) are fitted to better than 1 percent by the equation

$$\rho_s/\rho = C_1 x \log(x) + C_2x^2 + C_3x^3, \tag{13}$$

where

$$C_1 = -2.084\,035\,690,\ C_2 = 1.760\,235\,312,\ C_3 = -1.469\,764\,627. \tag{14}$$

For larger values of x (lower temperature), data are not available. In this range, a reasonable approximation is

$$\rho/\rho = 1 - 0.028\,63\,((1 - x)/0.55)^6 \tag{15}$$

which joins smoothly to the fitted equation at $x = 0.45$ and provides order-of-magnitude accuracy at low temperature (below about 1.2 K).

5.2 Second and Fourth Sound

Second and fourth sound velocities are calculated from the superfluid density fraction and the "classical" thermodynamic parameters (entropy, specific heat, first sound velocity, etc.) using well known equations from the two-fluid model. This theory is conveniently summarized by Maynard (1976).

5.3 Mutual Friction, Conductivity, and Viscosity in Superfluid

The mutual friction data of Srinivasan and Hofmann (1985) can be conveniently represented by

$$A = 383.7 + 10.649\,\rho_n, \tag{16}$$

where A is the Gorter-Mellink mutual friction constant in m·s/kg and ρ_n is the normal component density in kg/m^3. This simple fit, however, is not valid close to the lambda line. When the calculated A exceeds the limiting value

$$A_{lim} = 1413 + 12.4\ (\rho - 160), \tag{17}$$

it is replaced with

$$A = 558.9\ \rho/\rho_s. \tag{18}$$

The non-linear thermal conductivity k for turbulent counterflow in the two-fluid model may be defined (following Srinivasan and Hofmann) by

$$Q^3 = k\ dT/dx. \tag{19}$$

Then, from the two-fluid model,

$$k = S\ (\rho_s ST)^3/(A\rho_n), \tag{20}$$

where S is the entropy. The viscosity of the normal component is then estimated from the mutual friction constant. Srinivasan and Hofmann evaluate a parameter K_{gm}, which they find is a weak and ill-defined function of pressure and temperature. We assume $K_{gm} = 11$, independent of P and T. Then the normal viscosity η_n is given by

$$\eta_n = \rho / (K_{gm}^3\ \rho_s A). \tag{21}$$

The values of mutual friction, conductivity function, and normal viscosity calculated from these equations represent the cited data to within about 10 percent. The user is cautioned that other available data for these quantities may differ by larger factors.

6. DIELECTRIC AND OPTICAL PROPERTIES

6.1 Dielectric Constant

The dielectric constant of a fluid may be calculated from the Clausius-Mossotti equation:

$$\left[\frac{3M}{4\pi}\right]\left[\frac{\epsilon-1}{\epsilon+2}\right]\left[\frac{1}{\rho}\right] = p, \tag{22}$$

where M is the molar mass, ϵ is the dielectric constant, ρ is the density, and p is the specific polarizability, a property of the substance having dimensions of specific volume. Measurements of the dielectric constant by Gugan and Michel (1980) indicate that the specific polarizability of helium-4 is a weak function of density and, possibly, an extremely weak function of temperature. We have selected the value of the specific polarizability at zero density from the re-analysis of the data by Gugan (1984). For the density correction, we have chosen the temperature-independent value from the earlier (1980) work. In both cases, we have made slight adjustments to conform to the most recent CODATA values of the fundamental physical constants (Cohen and Taylor, 1986), and we write

$$p = 0.123\ 493 - 0.005\ 86\ \rho, \tag{23}$$

where p is the specific polarizability in cm^3/g and ρ is the density in g/cm^3. The constants in eq (23) differ from those selected in the earlier technical note (McCarty, 1972) which were obtained from the measurements of Kerr and Sherman (1970). The resulting calculated dielectric constants differ only slightly from the earlier technical note, and we estimate the uncertainty of the values of the dielectric constant to be 0.01 percent. The tabulated quantity in this publication is $\epsilon - 1$.

6.2 Index of Refraction

Our correlation for the index of refraction of helium-4 has also been modified since the earlier technical note (McCarty, 1972), although it is not tabulated in this publication. At standard temperature and pressure (STP), we use the Sellmeier equation from Peck (1983),

$$n_{STP}(\lambda) = 1 + 7.3123\times10^{-6} + \frac{9279.7\times10^{-6}}{339.82 - \left(\frac{1}{\lambda}\right)^2}, \tag{24}$$

where λ is the wavelength of the radiation in μm. This correlation has a range between 0.09 and 2 μm. For larger wavelengths, we use an interpolation scheme, linear in λ^{-2}, between the value at 2 μm from eq (24) and the value at infinite wavelength from the square root of the dielectric constant evaluated from eq (22) at STP.

We assume that the same dispersion relationship holds at other state points, so that at arbitrary densities and wavelengths we can write

$$n(\lambda,\rho) = \epsilon^{1/2}(\rho) + n_{STP}(\lambda) - n_{STP}(\infty) , \tag{25}$$

where $\epsilon^{1/2}$ is from eq (22), $n_{STP}(\lambda)$ is from eq (24), and $n_{STP}(\infty) = 1.000\ 031\ 704$ is from the dielectric constant at STP. Our approach yields good agreement with much of the experimental data for the index of refraction, and the estimated uncertainty in n is better than 0.1 percent. However, there are data along the saturated vapor boundary (Edwards, 1957) which seem to disagree with the correlation. It is not clear whether the dispersion relationship at 298.15 K is not applicable near 4 K, or whether there is some other problem with the correlation or data. Although the value of $n - 1$ may be uncertain by up to about 10 percent in the low temperature vapor, the uncertainty in the index of refraction remains as specified above.

7. SURFACE TENSION

The surface tension is not tabulated in this Technical Note, however we include a new correlation which differs considerably from that included in the earlier publication (McCarty, 1972). We have fit the tabulated data of Iino et al. (1985) as a simple polynomial in the reduced temperature, $t = 1 - T/T_C$:

$$\sigma(T) = 389.057t + 521.410t^2 - 579.737t^3, \tag{26}$$

where $T_c = 5.1953$ K and σ is expressed in μN/m. Equation (26) correctly calculates the vanishing surface tension at the critical point, but does not reflect the best estimate of the scaling exponent (near 1.3) nor any anomaly near the lower lambda point. Our present correlation agrees reasonably well with the earlier correlation from McCarty (1972) except below about 2 K, where differences up to about 25 percent are noted. The older correlation was based on a least squares fit to the data of van Urk, Keesom, and Onnes (1925), which were limited to temperatures above 2 K. Equation (26) has an associated uncertainty estimated as about 1 percent, except in the critical region where it may be considerably larger.

8. SOLID-FLUID BOUNDARY

Fluid properties at the melting line are marked with an "M" in the far left-hand margin of the data row in the table of Appendix B. These are determined by evaluating the fluid state equation at the melting pressure $P_m(T)$, given as follows.

Above 2.0044 K, the equations of McCarty (1972) are used. Converting to the EPT-76 temperature scale below 5.1953 K, these equations are:

$$\text{for } T > 5.1953 \text{ K}$$
$$P_m = 98\,066.5\,(-17.80 + 17.314\,57\,T^{1.555\,414}), \tag{27}$$

$$\text{for } 2.0044 < T < 5.1953 \text{ K}$$
$$P_m = 980\,66.5\,(34.2097 - 45.312\,31\,T + 32.269\,26\,T^2 - 4.912\,82\,T^3 + 0.310\,795\,T^4\,. \tag{28}$$

From 1.4676 to 2.0044 K, the equations of Grilly and Mills (1962), converted to the EPT-76 scale, are used. These equations are:

$$\text{for } 1.7660 < T < 2.0044 \text{ K}$$
$$P_m = 101\,325\,(17.8537 - 15.494\,44\,T + 12.575\,62\,T^2), \tag{29}$$

$$\text{for } 1.4676 < T < 1.7660 \text{ K}$$
$$P_m = 101\,325\,(99.3328 - 101.449\,70\,T + 35.1175\,T^2). \tag{30}$$

For 0.8 < T 1.4676 K, an equation consistent with Grilly and Mills' data is

$$P_m = 101\,325\,(24.997 + 3.369\,30\,(T - 0.725)^4)\,. \tag{31}$$

9. CONCLUSIONS

The helium properties tabulated in this Technical Note are derived from thermodynamically consistent state and transport functions. The user who needs the results on a finer grid or in a different format may wish to obtain the equations in computerized form from NIST.

In general, it is anticipated that future experimental measurements will not disclose large errors in the state properties, but possibly could disclose errors of 5 to 10 percent in the tabulated transport properties. Certainly the transport properties are incomplete at the lowest temperatures and highest pressures.

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APPENDIX A. Properties of Coexisting Liquid and Vapor Along the Saturation Line

TEMP [K]	DENSITY [kg/m^3]	PRESSURE [MPa]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
0.8000	145.2	0.1475E-05	0.1866E-02	0.1877E-02	0.4713E-02	0.2241E-01	0.2242E-01	237.8
0.8000	0.8882E-03	0.1475E-05	17.76	19.42	23.94	3.125	5.210	52.61
0.8500	145.2	0.2914E-05	0.3255E-02	0.3275E-02	0.6392E-02	0.3376E-01	0.3377E-01	238.0
0.8500	0.1652E-02	0.2914E-05	17.92	19.68	22.84	3.129	5.218	54.21
0.9000	145.2	0.5379E-05	0.5319E-02	0.5356E-02	0.8748E-02	0.4965E-01	0.4966E-01	238.1
0.9000	0.2881E-02	0.5379E-05	18.07	19.94	21.86	3.135	5.230	55.77
0.9500	145.2	0.9379E-05	0.8317E-02	0.8381E-02	0.1198E-01	0.7133E-01	0.7133E-01	238.2
0.9500	0.4762E-02	0.9379E-05	18.22	20.19	20.98	3.143	5.244	57.27
1.000	145.2	0.1557E-04	0.1257E-01	0.1268E-01	0.1634E-01	0.1002	0.1002	238.2
1.000	0.7516E-02	0.1557E-04	18.37	20.44	20.19	3.152	5.262	58.73
1.050	145.2	0.2478E-04	0.1848E-01	0.1865E-01	0.2210E-01	0.1376	0.1376	238.2
1.050	0.1140E-01	0.2478E-04	18.52	20.70	19.47	3.162	5.282	60.14
1.100	145.2	0.3800E-04	0.2650E-01	0.2676E-01	0.2956E-01	0.1852	0.1852	238.1
1.100	0.1671E-01	0.3800E-04	18.67	20.95	18.82	3.174	5.305	61.52
1.150	145.2	0.5645E-04	0.3720E-01	0.3759E-01	0.3905E-01	0.2447	0.2447	237.9
1.150	0.2377E-01	0.5645E-04	18.82	21.19	18.22	3.187	5.331	62.85
1.200	145.2	0.8148E-04	0.5120E-01	0.5176E-01	0.5096E-01	0.3176	0.3176	237.7
1.200	0.3292E-01	0.8148E-04	18.96	21.44	17.67	3.202	5.360	64.14
1.250	145.2	0.1147E-03	0.6922E-01	0.7001E-01	0.6566E-01	0.4058	0.4058	237.4
1.250	0.4456E-01	0.1147E-03	19.11	21.68	17.17	3.217	5.391	65.39
1.300	145.2	0.1579E-03	0.9206E-01	0.9315E-01	0.8357E-01	0.5110	0.5111	237.1
1.300	0.5906E-01	0.1579E-03	19.25	21.92	16.70	3.234	5.424	66.61
1.350	145.2	0.2129E-03	0.1206	0.1221	0.1051	0.6349	0.6351	236.7
1.350	0.7686E-01	0.2129E-03	19.39	22.16	16.26	3.251	5.460	67.79
1.400	145.2	0.2820E-03	0.1559	0.1579	0.1308	0.7795	0.7797	236.3
1.400	0.9836E-01	0.2820E-03	19.53	22.40	15.86	3.268	5.496	68.94
1.450	145.2	0.3674E-03	0.1990	0.2015	0.1610	0.9465	0.9469	235.9
1.450	0.1240	0.3674E-03	19.67	22.63	15.48	3.286	5.535	70.05
1.500	145.2	0.4715E-03	0.2510	0.2543	0.1962	1.138	1.138	235.4
1.500	0.1542	0.4715E-03	19.81	22.87	15.13	3.304	5.574	71.14
1.550	145.3	0.5970E-03	0.3133	0.3174	0.2370	1.356	1.356	234.9
1.550	0.1894	0.5970E-03	19.94	23.09	14.80	3.322	5.614	72.19
1.600	145.3	0.7464E-03	0.3871	0.3923	0.2839	1.602	1.603	234.4
1.600	0.2301	0.7464E-03	20.08	23.32	14.49	3.340	5.654	73.21
1.650	145.3	0.9224E-03	0.4741	0.4804	0.3374	1.879	1.881	233.8
1.650	0.2765	0.9224E-03	20.21	23.54	14.20	3.357	5.695	74.20
1.700	145.3	0.1128E-02	0.5758	0.5836	0.3981	2.191	2.193	233.1
1.700	0.3292	0.1128E-02	20.34	23.77	13.93	3.374	5.736	75.16
1.750	145.4	0.1366E-02	0.6940	0.7034	0.4666	2.541	2.543	232.4
1.750	0.3885	0.1366E-02	20.47	23.98	13.67	3.390	5.777	76.09
1.800	145.4	0.1638E-02	0.8309	0.8422	0.5437	2.935	2.938	231.5
1.800	0.4547	0.1638E-02	20.60	24.20	13.43	3.406	5.818	77.00
1.850	145.5	0.1949E-02	0.9887	1.002	0.6302	3.380	3.384	230.6
1.850	0.5281	0.1949E-02	20.72	24.41	13.20	3.420	5.858	77.88
1.900	145.5	0.2299E-02	1.170	1.186	0.7270	3.888	3.893	229.4
1.900	0.6090	0.2299E-02	20.85	24.63	12.98	3.433	5.898	78.73
1.950	145.6	0.2692E-02	1.379	1.398	0.8356	4.477	4.484	228.1
1.950	0.6974	0.2692E-02	20.97	24.83	12.78	3.445	5.937	79.57
2.000	145.7	0.3129E-02	1.621	1.642	0.9578	5.177	5.187	226.5
2.000	0.7936	0.3129E-02	21.10	25.04	12.58	3.456	5.975	80.37
2.050	145.7	0.3612E-02	1.901	1.926	1.096	6.046	6.062	224.6
2.050	0.8974	0.3612E-02	21.22	25.25	12.40	3.466	6.011	81.16
2.100	145.9	0.4141E-02	2.232	2.261	1.256	7.216	7.244	222.4
2.100	1.008	0.4141E-02	21.34	25.45	12.23	3.474	6.046	81.93
2.150	146.0	0.4715E-02	2.639	2.671	1.447	9.205	9.269	219.9
2.150	1.127	0.4715E-02	21.46	25.65	12.07	3.481	6.079	82.68

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_p$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_v$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
0.8000	0.3396E-03	1.071	0.1798E-06	0.5696E-01				
0.8000	1.003	0.6657	1.001	0.3444E-06				
0.8500	0.3572E-03	0.7049	0.3545E-06	0.5696E-01				
0.8500	1.004	0.6651	1.001	0.6404E-06				
0.9000	0.3400E-03	0.4314	0.6537E-06	0.5695E-01				
0.9000	1.006	0.6644	1.001	0.1117E-05				
0.9500	0.2838E-03	0.2376	0.1139E-05	0.5695E-01				
0.9500	1.008	0.6635	1.002	0.1846E-05				
1.000	0.1848E-03	0.1047	0.1890E-05	0.5695E-01				
1.000	1.011	0.6625	1.003	0.2914E-05				
1.050	0.3989E-04	0.1566E-01	0.3009E-05	0.5695E-01				
1.050	1.014	0.6613	1.004	0.4420E-05				
1.100	-0.1536E-03	-0.4273E-01	0.4619E-05	0.5695E-01				
1.100	1.018	0.6599	1.005	0.6478E-05				
1.150	-0.3980E-03	-0.8006E-01	0.6870E-05	0.5695E-01				
1.150	1.022	0.6583	1.006	0.9214E-05				
1.200	-0.6949E-03	-0.1030	0.9935E-05	0.5695E-01				
1.200	1.027	0.6566	1.007	0.1276E-04				
1.250	-0.1046E-02	-0.1162	0.1402E-04	0.5696E-01				
1.250	1.032	0.6548	1.009	0.1728E-04				
1.300	-0.1452E-02	-0.1229	0.1934E-04	0.5696E-01				
1.300	1.038	0.6529	1.010	0.2290E-04				
1.350	-0.1914E-02	-0.1251	0.2617E-04	0.5696E-01				
1.350	1.044	0.6509	1.012	0.2980E-04				
1.400	-0.2433E-02	-0.1245	0.3478E-04	0.5697E-01				
1.400	1.051	0.6489	1.014	0.3814E-04				
1.450	-0.3011E-02	-0.1220	0.4549E-04	0.5698E-01				
1.450	1.058	0.6468	1.017	0.4808E-04				
1.500	-0.3650E-02	-0.1185	0.5861E-04	0.5698E-01				
1.500	1.065	0.6447	1.019	0.5979E-04				
1.550	-0.4356E-02	-0.1143	0.7452E-04	0.5699E-01				
1.550	1.073	0.6427	1.022	0.7345E-04				
1.600	-0.5138E-02	-0.1100	0.9360E-04	0.5700E-01				
1.600	1.082	0.6407	1.025	0.8920E-04				
1.650	-0.6013E-02	-0.1059	0.1162E-03	0.5701E-01				
1.650	1.090	0.6387	1.028	0.1072E-03				
1.700	-0.7003E-02	-0.1021	0.1429E-03	0.5702E-01				
1.700	1.099	0.6368	1.031	0.1276E-03				
1.750	-0.8149E-02	-0.9887E-01	0.1741E-03	0.5704E-01				
1.750	1.109	0.6350	1.035	0.1506E-03				
1.800	-0.9509E-02	-0.9641E-01	0.2103E-03	0.5706E-01				
1.800	1.119	0.6333	1.038	0.1763E-03				
1.850	-0.1118E-01	-0.9492E-01	0.2522E-03	0.5707E-01				
1.850	1.129	0.6317	1.042	0.2048E-03				
1.900	-0.1329E-01	-0.9459E-01	0.3005E-03	0.5710E-01				
1.900	1.139	0.6302	1.046	0.2361E-03				
1.950	-0.1608E-01	-0.9567E-01	0.3560E-03	0.5712E-01				
1.950	1.150	0.6288	1.051	0.2704E-03				
2.000	-0.1992E-01	-0.9851E-01	0.4196E-03	0.5715E-01				
2.000	1.161	0.6276	1.055	0.3077E-03				
2.050	-0.2553E-01	-0.1036	0.4925E-03	0.5719E-01				
2.050	1.172	0.6266	1.060	0.3479E-03				
2.100	-0.3453E-01	-0.1123	0.5760E-03	0.5723E-01				
2.100	1.183	0.6257	1.065	0.3910E-03				
2.150	-0.5346E-01	-0.1297	0.6724E-03	0.5729E-01				
2.150	1.195	0.6249	1.069	0.4368E-03				

TEMP [K]	DENSITY [kg/m^3]	PRESSURE [MPa]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
2.200	146.1	0.5335E-02	3.054	3.090	1.638	4.211	4.222	219.5
2.200	1.251	0.5335E-02	21.58	25.85	11.92	3.486	6.111	83.42
2.250	146.0	0.6005E-02	3.229	3.270	1.717	3.033	3.078	220.6
2.250	1.383	0.6005E-02	21.71	26.05	11.78	3.489	6.141	84.14
2.300	145.9	0.6730E-02	3.372	3.418	1.780	2.613	2.685	221.3
2.300	1.523	0.6730E-02	21.82	26.24	11.65	3.492	6.170	84.85
2.350	145.7	0.7512E-02	3.500	3.552	1.835	2.389	2.487	221.8
2.350	1.671	0.7512E-02	21.94	26.44	11.52	3.494	6.199	85.53
2.400	145.5	0.8354E-02	3.621	3.678	1.886	2.252	2.375	222.1
2.400	1.828	0.8354E-02	22.06	26.63	11.40	3.495	6.228	86.20
2.450	145.3	0.9258E-02	3.737	3.801	1.934	2.164	2.314	222.2
2.450	1.994	0.9258E-02	22.18	26.82	11.28	3.495	6.256	86.85
2.500	145.0	0.1023E-01	3.851	3.922	1.980	2.106	2.284	222.1
2.500	2.170	0.1023E-01	22.29	27.00	11.17	3.494	6.285	87.49
2.550	144.7	0.1126E-01	3.962	4.040	2.024	2.098	2.304	221.2
2.550	2.354	0.1126E-01	22.40	27.19	11.06	3.493	6.315	88.10
2.600	144.4	0.1237E-01	4.075	4.161	2.068	2.083	2.320	220.3
2.600	2.549	0.1237E-01	22.51	27.37	10.96	3.491	6.344	88.70
2.650	144.1	0.1355E-01	4.190	4.284	2.112	2.065	2.334	219.4
2.650	2.754	0.1355E-01	22.62	27.54	10.85	3.488	6.375	89.28
2.700	143.8	0.1481E-01	4.305	4.408	2.155	2.049	2.351	218.6
2.700	2.970	0.1481E-01	22.73	27.72	10.76	3.485	6.406	89.85
2.750	143.4	0.1614E-01	4.422	4.534	2.198	2.036	2.374	217.8
2.750	3.196	0.1614E-01	22.84	27.89	10.66	3.482	6.438	90.40
2.800	143.0	0.1755E-01	4.539	4.662	2.240	2.030	2.403	217.1
2.800	3.433	0.1755E-01	22.94	28.06	10.57	3.477	6.470	90.93
2.850	142.6	0.1905E-01	4.658	4.791	2.282	2.030	2.441	216.5
2.850	3.682	0.1905E-01	23.05	28.22	10.48	3.473	6.505	91.44
2.900	142.2	0.2063E-01	4.778	4.923	2.324	2.035	2.486	215.9
2.900	3.942	0.2063E-01	23.15	28.38	10.39	3.467	6.540	91.95
2.950	141.8	0.2229E-01	4.900	5.058	2.366	2.044	2.537	215.2
2.950	4.214	0.2229E-01	23.25	28.54	10.30	3.462	6.577	92.43
3.000	141.4	0.2405E-01	5.025	5.195	2.408	2.061	2.597	214.4
3.000	4.499	0.2405E-01	23.34	28.69	10.22	3.456	6.616	92.90
3.050	140.9	0.2589E-01	5.153	5.337	2.451	2.086	2.667	213.5
3.050	4.796	0.2589E-01	23.44	28.84	10.13	3.450	6.657	93.36
3.100	140.4	0.2784E-01	5.285	5.483	2.494	2.113	2.740	212.5
3.100	5.106	0.2784E-01	23.53	28.98	10.05	3.443	6.700	93.80
3.150	139.9	0.2987E-01	5.419	5.633	2.537	2.141	2.817	211.5
3.150	5.430	0.2987E-01	23.62	29.12	9.975	3.436	6.745	94.22
3.200	139.4	0.3201E-01	5.557	5.787	2.581	2.170	2.896	210.4
3.200	5.767	0.3201E-01	23.71	29.26	9.898	3.428	6.792	94.63
3.250	138.9	0.3425E-01	5.699	5.945	2.625	2.199	2.978	209.2
3.250	6.119	0.3425E-01	23.79	29.39	9.821	3.421	6.843	95.03
3.300	138.4	0.3659E-01	5.844	6.108	2.670	2.228	3.061	208.0
3.300	6.486	0.3659E-01	23.88	29.52	9.747	3.413	6.897	95.41
3.350	137.8	0.3904E-01	5.993	6.276	2.715	2.255	3.146	206.6
3.350	6.869	0.3904E-01	23.95	29.64	9.673	3.405	6.954	95.78
3.400	137.3	0.4159E-01	6.145	6.448	2.760	2.282	3.233	205.3
3.400	7.267	0.4159E-01	24.03	29.76	9.600	3.397	7.015	96.13
3.450	136.7	0.4426E-01	6.301	6.625	2.806	2.307	3.322	203.9
3.450	7.682	0.4426E-01	24.10	29.87	9.529	3.388	7.080	96.47
3.500	136.1	0.4704E-01	6.461	6.806	2.852	2.331	3.413	202.5
3.500	8.114	0.4704E-01	24.17	29.97	9.458	3.379	7.150	96.79

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
2.200	0.2258E-01	0.1172	0.7595E-03	0.5735E-01				
2.200	1.206	0.6244	1.074	0.4850E-03				
2.250	0.4592E-01	0.3227	0.8576E-03	0.5731E-01				
2.250	1.218	0.6240	1.079	0.5362E-03				
2.300	0.5911E-01	0.4686	0.9682E-03	0.5724E-01				
2.300	1.229	0.6237	1.085	0.5905E-03				
2.350	0.6983E-01	0.5877	0.1091E-02	0.5717E-01				
2.350	1.242	0.6236	1.090	0.6480E-03				
2.400	0.7965E-01	0.6890	0.1228E-02	0.5709E-01				
2.400	1.254	0.6235	1.096	0.7089E-03				
2.450	0.8917E-01	0.7765	0.1381E-02	0.5699E-01				
2.450	1.267	0.6236	1.102	0.7733E-03				
2.500	0.9870E-01	0.8526	0.1550E-02	0.5689E-01				
2.500	1.281	0.6237	1.108	0.8413E-03				
2.550	0.1087	0.9051	0.1747E-02	0.5678E-01				
2.550	1.295	0.6240	1.114	0.9130E-03				
2.600	0.1189	0.9570	0.1966E-02	0.5666E-01				
2.600	1.309	0.6244	1.121	0.9886E-03				
2.650	0.1294	1.007	0.2208E-02	0.5654E-01				
2.650	1.324	0.6248	1.128	0.1068E-02				
2.700	0.1401	1.055	0.2474E-02	0.5640E-01				
2.700	1.340	0.6254	1.135	0.1152E-02				
2.750	0.1510	1.098	0.2765E-02	0.5626E-01				
2.750	1.356	0.6260	1.143	0.1239E-02				
2.800	0.1621	1.135	0.3081E-02	0.5611E-01				
2.800	1.373	0.6267	1.151	0.1331E-02				
2.850	0.1734	1.168	0.3425E-02	0.5595E-01				
2.850	1.391	0.6276	1.159	0.1428E-02				
2.900	0.1851	1.197	0.3801E-02	0.5579E-01				
2.900	1.410	0.6285	1.167	0.1529E-02				
2.950	0.1975	1.222	0.4214E-02	0.5562E-01				
2.950	1.430	0.6295	1.176	0.1634E-02				
3.000	0.2101	1.239	0.4666E-02	0.5544E-01				
3.000	1.450	0.6306	1.186	0.1745E-02				
3.050	0.2229	1.250	0.5155E-02	0.5526E-01				
3.050	1.472	0.6318	1.196	0.1860E-02				
3.100	0.2362	1.256	0.5690E-02	0.5508E-01				
3.100	1.494	0.6330	1.206	0.1980E-02				
3.150	0.2501	1.261	0.6277E-02	0.5488E-01				
3.150	1.518	0.6344	1.217	0.2106E-02				
3.200	0.2646	1.264	0.6920E-02	0.5468E-01				
3.200	1.543	0.6358	1.228	0.2237E-02				
3.250	0.2797	1.265	0.7626E-02	0.5448E-01				
3.250	1.570	0.6373	1.240	0.2374E-02				
3.300	0.2956	1.265	0.8401E-02	0.5427E-01				
3.300	1.598	0.6389	1.252	0.2516E-02				
3.350	0.3122	1.265	0.9251E-02	0.5405E-01				
3.350	1.627	0.6406	1.265	0.2665E-02				
3.400	0.3297	1.264	0.1019E-01	0.5382E-01				
3.400	1.658	0.6424	1.279	0.2819E-02				
3.450	0.3481	1.263	0.1121E-01	0.5359E-01				
3.450	1.691	0.6443	1.294	0.2980E-02				
3.500	0.3676	1.262	0.1235E-01	0.5335E-01				
3.500	1.726	0.6463	1.309	0.3148E-02				

TEMP [K]	DENSITY [kg/m^3]	PRESSURE [MPa]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
3.550	135.5	0.4994E-01	6.624	6.992	2.899	2.354	3.506	201.0
3.550	8.564	0.4994E-01	24.24	30.07	9.388	3.370	7.224	97.10
3.600	134.8	0.5296E-01	6.791	7.184	2.946	2.376	3.601	199.5
3.600	9.033	0.5296E-01	24.31	30.17	9.318	3.361	7.305	97.40
3.650	134.2	0.5609E-01	6.961	7.380	2.994	2.396	3.700	197.9
3.650	9.521	0.5609E-01	24.37	30.26	9.250	3.352	7.391	97.68
3.700	133.5	0.5935E-01	7.136	7.581	3.042	2.415	3.801	196.3
3.700	10.03	0.5935E-01	24.42	30.34	9.181	3.343	7.484	97.95
3.750	132.8	0.6274E-01	7.314	7.787	3.091	2.432	3.907	194.7
3.750	10.56	0.6274E-01	24.47	30.41	9.113	3.333	7.585	98.20
3.800	132.0	0.6625E-01	7.496	7.998	3.140	2.449	4.017	193.0
3.800	11.11	0.6625E-01	24.52	30.48	9.046	3.324	7.694	98.44
3.850	131.3	0.6989E-01	7.683	8.215	3.189	2.464	4.133	191.2
3.850	11.69	0.6989E-01	24.56	30.55	8.978	3.314	7.813	98.67
3.900	130.5	0.7366E-01	7.873	8.437	3.239	2.478	4.254	189.5
3.900	12.29	0.7366E-01	24.60	30.60	8.911	3.304	7.942	98.88
3.950	129.7	0.7757E-01	8.068	8.665	3.290	2.492	4.382	187.7
3.950	12.91	0.7757E-01	24.64	30.65	8.844	3.294	8.083	99.08
4.000	128.9	0.8162E-01	8.266	8.899	3.341	2.504	4.519	185.8
4.000	13.56	0.8162E-01	24.67	30.68	8.776	3.284	8.238	99.27
4.050	128.1	0.8581E-01	8.470	9.140	3.392	2.516	4.664	183.9
4.050	14.25	0.8581E-01	24.69	30.71	8.709	3.274	8.408	99.44
4.100	127.2	0.9014E-01	8.678	9.387	3.444	2.527	4.820	182.0
4.100	14.96	0.9014E-01	24.71	30.73	8.641	3.263	8.595	99.60
4.150	126.3	0.9461E-01	8.891	9.640	3.497	2.538	4.988	180.0
4.150	15.70	0.9461E-01	24.72	30.74	8.573	3.253	8.802	99.74
4.200	125.4	0.9923E-01	9.109	9.901	3.551	2.548	5.170	177.9
4.200	16.49	0.9923E-01	24.72	30.74	8.504	3.243	9.033	99.88
4.250	124.4	0.1040	9.333	10.17	3.605	2.557	5.369	175.8
4.250	17.31	0.1040	24.72	30.73	8.434	3.232	9.291	100.0
4.300	123.4	0.1089	9.563	10.45	3.661	2.566	5.587	173.7
4.300	18.17	0.1089	24.71	30.71	8.363	3.221	9.582	100.1
4.350	122.3	0.1140	9.799	10.73	3.717	2.575	5.828	171.4
4.350	19.08	0.1140	24.69	30.67	8.292	3.210	9.910	100.2
4.400	121.3	0.1193	10.04	11.02	3.775	2.584	6.097	169.1
4.400	20.03	0.1193	24.66	30.62	8.218	3.200	10.29	100.3
4.450	120.1	0.1247	10.29	11.33	3.833	2.592	6.400	166.8
4.450	21.05	0.1247	24.63	30.55	8.144	3.189	10.72	100.3
4.500	118.9	0.1303	10.55	11.64	3.893	2.601	6.742	164.3
4.500	22.12	0.1303	24.58	30.47	8.067	3.177	11.22	100.4
4.550	117.7	0.1360	10.82	11.97	3.955	2.609	7.135	161.8
4.550	23.27	0.1360	24.52	30.36	7.988	3.166	11.80	100.5
4.600	116.3	0.1419	11.09	12.31	4.018	2.618	7.590	159.2
4.600	24.49	0.1419	24.44	30.24	7.906	3.154	12.50	100.5
4.650	114.9	0.1480	11.38	12.67	4.084	2.626	8.125	156.5
4.650	25.80	0.1480	24.35	30.09	7.821	3.143	13.34	100.5
4.700	113.5	0.1543	11.68	13.04	4.151	2.635	8.763	153.7
4.700	27.22	0.1543	24.24	29.91	7.732	3.130	14.37	100.6
4.750	111.9	0.1608	11.99	13.43	4.222	2.645	9.540	150.8
4.750	28.76	0.1608	24.11	29.70	7.639	3.118	15.66	100.6
4.800	110.2	0.1674	12.33	13.85	4.296	2.655	10.51	147.8
4.800	30.44	0.1674	23.95	29.45	7.539	3.105	17.32	100.6
4.850	108.3	0.1743	12.68	14.29	4.375	2.666	11.74	144.6
4.850	32.32	0.1743	23.76	29.15	7.433	3.091	19.54	100.7
4.900	106.3	0.1813	13.05	14.76	4.458	2.677	13.38	141.3
4.900	34.42	0.1813	23.53	28.80	7.317	3.077	22.64	100.8

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
3.550	0.3882	1.260	0.1359E-01	0.5310E-01	0.1785E-01	3.490	0.3758E-07	0.6855
3.550	1.764	0.6484	1.326	0.3323E-02	0.7187E-02	0.9825	0.1162E-06	0.9876
3.600	0.4100	1.258	0.1497E-01	0.5285E-01	0.1794E-01	3.468	0.3695E-07	0.6963
3.600	1.803	0.6505	1.343	0.3505E-02	0.7310E-02	1.000	0.1108E-06	0.9997
3.650	0.4332	1.256	0.1649E-01	0.5259E-01	0.1802E-01	3.446	0.3631E-07	0.7074
3.650	1.846	0.6528	1.362	0.3694E-02	0.7435E-02	1.019	0.1057E-06	1.013
3.700	0.4579	1.254	0.1817E-01	0.5232E-01	0.1810E-01	3.423	0.3568E-07	0.7189
3.700	1.891	0.6552	1.381	0.3892E-02	0.7561E-02	1.037	0.1007E-06	1.026
3.750	0.4843	1.252	0.2003E-01	0.5204E-01	0.1818E-01	3.400	0.3504E-07	0.7308
3.750	1.940	0.6576	1.402	0.4097E-02	0.7690E-02	1.055	0.9601E-07	1.041
3.800	0.5125	1.250	0.2211E-01	0.5175E-01	0.1825E-01	3.377	0.3440E-07	0.7434
3.800	1.992	0.6602	1.424	0.4312E-02	0.7820E-02	1.074	0.9147E-07	1.057
3.850	0.5428	1.248	0.2441E-01	0.5146E-01	0.1831E-01	3.353	0.3375E-07	0.7567
3.850	2.048	0.6629	1.448	0.4535E-02	0.7952E-02	1.093	0.8710E-07	1.074
3.900	0.5755	1.245	0.2698E-01	0.5116E-01	0.1837E-01	3.329	0.3308E-07	0.7708
3.900	2.109	0.6657	1.474	0.4768E-02	0.8087E-02	1.113	0.8288E-07	1.093
3.950	0.6107	1.243	0.2985E-01	0.5084E-01	0.1843E-01	3.305	0.3241E-07	0.7858
3.950	2.175	0.6686	1.502	0.5011E-02	0.8224E-02	1.132	0.7880E-07	1.113
4.000	0.6489	1.240	0.3308E-01	0.5052E-01	0.1848E-01	3.280	0.3172E-07	0.8020
4.000	2.246	0.6717	1.532	0.5265E-02	0.8365E-02	1.152	0.7486E-07	1.135
4.050	0.6904	1.237	0.3671E-01	0.5018E-01	0.1853E-01	3.255	0.3102E-07	0.8194
4.050	2.324	0.6748	1.564	0.5530E-02	0.8509E-02	1.173	0.7104E-07	1.159
4.100	0.7357	1.233	0.4080E-01	0.4984E-01	0.1857E-01	3.230	0.3029E-07	0.8383
4.100	2.409	0.6782	1.600	0.5807E-02	0.8656E-02	1.193	0.6733E-07	1.185
4.150	0.7854	1.229	0.4545E-01	0.4948E-01	0.1861E-01	3.205	0.2954E-07	0.8589
4.150	2.503	0.6816	1.638	0.6097E-02	0.8809E-02	1.214	0.6372E-07	1.214
4.200	0.8402	1.225	0.5073E-01	0.4911E-01	0.1864E-01	3.179	0.2877E-07	0.8814
4.200	2.606	0.6852	1.681	0.6401E-02	0.8966E-02	1.236	0.6020E-07	1.245
4.250	0.9008	1.221	0.5678E-01	0.4873E-01	0.1868E-01	3.152	0.2796E-07	0.9062
4.250	2.721	0.6890	1.728	0.6720E-02	0.9129E-02	1.258	0.5677E-07	1.280
4.300	0.9683	1.216	0.6373E-01	0.4833E-01	0.1870E-01	3.126	0.2713E-07	0.9336
4.300	2.849	0.6930	1.780	0.7055E-02	0.9299E-02	1.280	0.5342E-07	1.319
4.350	1.044	1.210	0.7177E-01	0.4791E-01	0.1873E-01	3.099	0.2627E-07	0.9642
4.350	2.994	0.6971	1.838	0.7408E-02	0.9477E-02	1.303	0.5013E-07	1.363
4.400	1.129	1.204	0.8114E-01	0.4748E-01	0.1875E-01	3.071	0.2537E-07	0.9984
4.400	3.157	0.7015	1.903	0.7780E-02	0.9664E-02	1.327	0.4690E-07	1.412
4.450	1.226	1.198	0.9213E-01	0.4703E-01	0.1878E-01	3.043	0.2443E-07	1.037
4.450	3.344	0.7060	1.977	0.8175E-02	0.9861E-02	1.351	0.4372E-07	1.468
4.500	1.338	1.191	0.1051	0.4656E-01	0.1880E-01	3.014	0.2344E-07	1.081
4.500	3.559	0.7109	2.062	0.8593E-02	0.1007E-01	1.376	0.4059E-07	1.532
4.550	1.466	1.183	0.1207	0.4606E-01	0.1882E-01	2.984	0.2242E-07	1.131
4.550	3.810	0.7159	2.159	0.9038E-02	0.1029E-01	1.401	0.3749E-07	1.606
4.600	1.617	1.175	0.1395	0.4554E-01	0.1884E-01	2.954	0.2134E-07	1.190
4.600	4.106	0.7213	2.274	0.9514E-02	0.1054E-01	1.428	0.3443E-07	1.694
4.650	1.797	1.165	0.1626	0.4499E-01	0.1887E-01	2.922	0.2020E-07	1.258
4.650	4.461	0.7271	2.409	0.1002E-01	0.1080E-01	1.456	0.3138E-07	1.798
4.700	2.013	1.155	0.1914	0.4440E-01	0.1890E-01	2.890	0.1901E-07	1.340
4.700	4.895	0.7332	2.573	0.1058E-01	0.1109E-01	1.484	0.2835E-07	1.924
4.750	2.279	1.144	0.2279	0.4377E-01	0.1893E-01	2.855	0.1774E-07	1.439
4.750	5.436	0.7397	2.774	0.1118E-01	0.1140E-01	1.515	0.2533E-07	2.079
4.800	2.613	1.132	0.2753	0.4310E-01	0.1897E-01	2.820	0.1639E-07	1.561
4.800	6.130	0.7468	3.029	0.1183E-01	0.1176E-01	1.547	0.2230E-07	2.278
4.850	3.067	1.118	0.3416	0.4234E-01	0.1902E-01	2.780	0.1489E-07	1.725
4.850	7.038	0.7544	3.357	0.1256E-01	0.1217E-01	1.581	0.1931E-07	2.534
4.900	3.697	1.102	0.4368	0.4149E-01	0.1908E-01	2.736	0.1324E-07	1.949
4.900	8.278	0.7628	3.797	0.1336E-01	0.1263E-01	1.617	0.1633E-07	2.881

TEMP [K]	DENSITY [kg/m^3]	PRESSURE [MPa]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
4.950	104.0	0.1886	13.46	15.28	4.549	2.690	15.65	137.8
4.950	36.84	0.1886	23.25	28.37	7.188	3.061	27.27	100.9
5.000	101.4	0.1960	13.91	15.85	4.649	2.706	19.02	134.1
5.000	39.71	0.1960	22.89	27.83	7.041	3.044	34.93	101.2
5.050	98.40	0.2037	14.42	16.49	4.763	2.723	24.47	130.2
5.050	43.30	0.2037	22.42	27.12	6.863	3.023	50.05	101.6
5.100	94.71	0.2116	15.03	17.26	4.898	2.745	34.60	125.9
5.100	48.38	0.2116	21.70	26.08	6.624	2.996	95.84	102.3

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_V}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
4.950	4.614	1.084	0.5809	0.4053E-01	0.1917E-01	2.688	0.1144E-07	2.266
4.950	10.05	0.7720	4.413	0.1427E-01	0.1319E-01	1.657	0.1340E-07	3.369
5.000	6.036	1.064	0.8140	0.3944E-01	0.1930E-01	2.636	0.9516E-08	2.745
5.000	12.69	0.7821	5.307	0.1530E-01	0.1386E-01	1.700	0.1059E-07	4.082
5.050	8.403	1.041	1.222	0.3818E-01	0.1951E-01	2.577	0.7509E-08	3.513
5.050	16.68	0.7932	6.620	0.1645E-01	0.1467E-01	1.747	0.8050E-08	5.133
5.100	12.91	1.015	2.044	0.3668E-01	0.1986E-01	2.510	0.5456E-08	4.902
5.100	23.85	0.8062	8.886	0.1786E-01	0.1577E-01	1.803	0.5645E-08	6.959

APPENDIX B. Properties of Fluid Helium

B.1 Table Format

All tabulated values are in SI units.

The user will note the single characters M, L, V, 1, 2, or 3 at the far left-hand margin of some tables. The meanings are as follows:

M denotes a point on the melting line
L denotes saturated liquid
V denotes saturated vapor
1 denotes temperature = $T_\lambda \pm 10^{-1}$ K
2 denotes temperature = $T_\lambda \pm 10^{-2}$ K
3 denotes temperature = $T_\lambda \pm 10^{-3}$ K

where T_λ is the lambda line temperature at the given pressure, and is equal to the average of the two temperatures denoted "3."

When labeled with "1," "2," or "3," the tabulated properties have been calculated at precisely the temperatures defined above, to an accuracy of 10^{-5} K or better; these precise temperatures could differ by up to 0.0005 K from the tabulated temperatures, which are rounded off to the nearest 0.001 K.

PRESSURE = 0.010 [MPa]

	TEMP [K]	DENSITY [kg/m³]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	145.3	0.4140E-01	0.1884E-02	0.7069E-01	0.4682E-02	0.2240E-01	0.2241E-01	238.4
	1.000	145.3	0.3312E-01	0.1260E-01	0.8141E-01	0.1633E-01	0.1003	0.1003	238.7
	1.200	145.3	0.2760E-01	0.5129E-01	0.1201	0.5100E-01	0.3180	0.3181	238.4
	1.400	145.4	0.2364E-01	0.1561	0.2249	0.1309	0.7801	0.7804	237.3
	1.600	145.4	0.2068E-01	0.3875	0.4562	0.2841	1.603	1.604	235.4
	1.800	145.6	0.1837E-01	0.8315	0.9002	0.5440	2.936	2.939	232.4
	2.000	145.8	0.1651E-01	1.622	1.690	0.9582	5.181	5.191	227.0
1	2.076	145.9	0.1589E-01	2.070	2.138	1.178	6.616	6.638	223.9
2	2.166	146.2	0.1520E-01	2.803	2.872	1.523	10.67	10.78	219.3
3	2.175	146.2	0.1513E-01	2.909	2.978	1.572	13.54	13.79	218.6
3	2.177	146.3	0.1512E-01	2.934	3.003	1.583	8.276	8.304	218.8
2	2.186	146.3	0.1505E-01	2.990	3.058	1.609	5.217	5.218	219.5
1	2.276	146.0	0.1448E-01	3.305	3.374	1.751	2.769	2.828	221.3
	2.400	145.5	0.1378E-01	3.620	3.689	1.885	2.250	2.374	222.2
L	2.489	145.1	0.1334E-01	3.825	3.894	1.970	2.117	2.288	222.1
V	2.489	2.129	0.9088	22.26	26.96	11.20	3.495	6.279	87.34
	2.700	1.924	0.9269	23.06	28.25	11.70	3.371	5.971	92.22
	3.000	1.699	0.9444	24.12	30.00	12.31	3.267	5.709	98.45
	3.300	1.526	0.9561	25.14	31.69	12.85	3.208	5.557	104.1
	3.600	1.386	0.9645	26.13	33.34	13.33	3.173	5.462	109.4
	3.900	1.272	0.9707	27.11	34.97	13.76	3.152	5.400	114.3
	4.200	1.175	0.9754	28.07	36.58	14.16	3.139	5.358	119.0
	4.500	1.093	0.9791	29.03	38.19	14.53	3.131	5.328	123.5
	4.800	1.021	0.9821	29.99	39.78	14.87	3.126	5.305	127.8
	5.000	0.9787	0.9837	30.62	40.84	15.09	3.123	5.294	130.5
	5.100	0.9588	0.9845	30.94	41.37	15.19	3.122	5.289	131.9
	5.300	0.9214	0.9859	31.57	42.43	15.39	3.120	5.280	134.5
	5.500	0.8868	0.9871	32.21	43.48	15.59	3.119	5.272	137.2
	6.000	0.8109	0.9895	33.78	46.12	16.05	3.117	5.257	143.5
	6.500	0.7471	0.9914	35.36	48.74	16.47	3.116	5.247	149.5
	7.000	0.6927	0.9928	36.93	51.36	16.86	3.116	5.239	155.2
	8.000	0.6048	0.9949	40.06	56.60	17.56	3.116	5.228	166.1
	9.000	0.5369	0.9963	43.19	61.82	18.17	3.116	5.220	176.3
	10.00	0.4827	0.9973	46.32	67.04	18.72	3.116	5.215	186.0
	12.00	0.4018	0.9985	52.57	77.46	19.67	3.116	5.209	203.8
	15.00	0.3211	0.9994	61.94	93.08	20.83	3.116	5.203	227.9
	20.00	0.2407	0.9999	77.54	119.1	22.33	3.116	5.199	263.2
	25.00	0.1925	1.000	93.13	145.1	23.49	3.116	5.197	294.3
	30.00	0.1604	1.000	108.7	171.0	24.44	3.116	5.196	322.4
	40.00	0.1203	1.000	139.9	223.0	25.93	3.116	5.194	372.3
	50.00	0.9626E-01	1.000	171.1	274.9	27.09	3.116	5.194	416.2
	60.00	0.8022E-01	1.000	202.2	326.9	28.04	3.116	5.194	455.9
	80.00	0.6017E-01	1.000	264.5	430.7	29.53	3.116	5.193	526.4
	100.0	0.4813E-01	1.000	326.9	534.6	30.69	3.116	5.193	588.5
	120.0	0.4011E-01	1.000	389.2	638.5	31.64	3.116	5.193	644.6
	140.0	0.3438E-01	1.000	451.5	742.3	32.44	3.116	5.193	696.3
	160.0	0.3009E-01	1.000	513.8	846.2	33.13	3.116	5.193	744.3
	180.0	0.2674E-01	1.000	576.1	950.1	33.74	3.116	5.193	789.5
	200.0	0.2407E-01	1.000	638.4	1054.	34.29	3.116	5.193	832.2
	220.0	0.2188E-01	1.000	700.8	1158.	34.78	3.116	5.193	872.8
	240.0	0.2006E-01	1.000	763.1	1262.	35.24	3.116	5.193	911.6
	260.0	0.1851E-01	1.000	825.4	1366.	35.65	3.116	5.193	948.8
	280.0	0.1719E-01	1.000	887.7	1469.	36.04	3.116	5.193	984.6
	300.0	0.1605E-01	1.000	950.0	1573.	36.39	3.116	5.193	1019.
	350.0	0.1375E-01	1.000	1106.	1833.	37.20	3.116	5.193	1101.
	400.0	0.1203E-01	1.000	1262.	2093.	37.89	3.116	5.193	1177.
	500.0	0.9628E-02	1.000	1573.	2612.	39.05	3.116	5.193	1316.
	600.0	0.8023E-02	1.000	1885.	3131.	39.99	3.116	5.193	1441.
	700.0	0.6877E-02	1.000	2196.	3650.	40.79	3.116	5.193	1557.
	800.0	0.6018E-02	1.000	2508.	4170.	41.49	3.116	5.193	1664.
	900.0	0.5349E-02	1.000	2820.	4689.	42.10	3.116	5.193	1765.
	1000.	0.4814E-02	1.000	3131.	5208.	42.65	3.116	5.193	1861.
	1100.	0.4376E-02	1.000	3443.	5728.	43.14	3.116	5.193	1951.
	1200.	0.4012E-02	1.000	3754.	6247.	43.59	3.116	5.193	2038.
	1300.	0.3703E-02	1.000	4066.	6766.	44.01	3.116	5.193	2121.
	1400.	0.3439E-02	1.000	4377.	7286.	44.39	3.116	5.193	2202.
	1500.	0.3209E-02	1.000	4689.	7805.	44.75	3.116	5.193	2279.

PRESSURE = 0.010 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
0.8000	0.3703E-03	1.174	0.1211E-02	0.5703E-01				
1.000	0.1862E-03	0.1057	0.1207E-02	0.5702E-01				
1.200	-0.7472E-03	-0.1113	0.1211E-02	0.5702E-01				
1.400	-0.2546E-02	-0.1312	0.1222E-02	0.5704E-01				
1.600	-0.5318E-02	-0.1149	0.1241E-02	0.5707E-01				
1.800	-0.9819E-02	-0.1003	0.1273E-02	0.5712E-01				
2.000	-0.2050E-01	-0.1017	0.1334E-02	0.5720E-01				
2.076	-0.3037E-01	-0.1105	0.1371E-02	0.5726E-01				
2.166	-0.7095E-01	-0.1461	0.1437E-02	0.5736E-01				
2.175	-0.1083	-0.1725	0.1458E-02	0.5738E-01				
2.177	-0.3563E-01	-0.9430E-01	0.1434E-02	0.5739E-01				
2.186	0.6706E-02	0.2832E-01	0.1419E-02	0.5739E-01				
2.276	0.5317E-01	0.4045	0.1428E-02	0.5730E-01				
2.400	0.7949E-01	0.6890	0.1468E-02	0.5710E-01				
2.489	0.9651E-01	0.8361	0.1510E-02	0.5692E-01				
2.489	1.277	0.6237	1.107	0.8254E-03				
2.700	1.209	0.6378	1.083	0.7459E-03				
3.000	1.150	0.6505	1.061	0.6589E-03				
3.300	1.113	0.6580	1.047	0.5916E-03				
3.600	1.089	0.6625	1.038	0.5376E-03	0.6961E-02	0.9363	0.9192E-06	0.7347
3.900	1.072	0.6652	1.031	0.4931E-03	0.7546E-02	1.010	0.1099E-05	0.7229
4.200	1.060	0.6669	1.026	0.4556E-03	0.8121E-02	1.081	0.1290E-05	0.7135
4.500	1.050	0.6679	1.022	0.4236E-03	0.8683E-02	1.151	0.1492E-05	0.7060
4.800	1.043	0.6685	1.018	0.3960E-03	0.9232E-02	1.218	0.1704E-05	0.7000
5.000	1.039	0.6688	1.017	0.3795E-03	0.9589E-02	1.262	0.1851E-05	0.6968
5.100	1.037	0.6689	1.016	0.3718E-03	0.9765E-02	1.284	0.1926E-05	0.6953
5.300	1.034	0.6691	1.014	0.3572E-03	0.1011E-01	1.327	0.2079E-05	0.6927
5.500	1.031	0.6692	1.013	0.3438E-03	0.1045E-01	1.369	0.2235E-05	0.6905
6.000	1.026	0.6693	1.011	0.3144E-03	0.1127E-01	1.472	0.2644E-05	0.6865
6.500	1.022	0.6692	1.009	0.2897E-03	0.1205E-01	1.571	0.3074E-05	0.6840
7.000	1.018	0.6691	1.007	0.2686E-03	0.1279E-01	1.667	0.3525E-05	0.6827
8.000	1.013	0.6689	1.005	0.2345E-03	0.1418E-01	1.851	0.4484E-05	0.6823
9.000	1.010	0.6686	1.004	0.2082E-03	0.1546E-01	2.024	0.5515E-05	0.6836
10.00	1.008	0.6684	1.003	0.1872E-03	0.1665E-01	2.189	0.6612E-05	0.6859
12.00	1.005	0.6680	1.002	0.1558E-03	0.1883E-01	2.499	0.8996E-05	0.6913
15.00	1.003	0.6677	1.001	0.1245E-03	0.2175E-01	2.921	0.1302E-04	0.6987
20.00	1.001	0.6674	1.000	0.9333E-04	0.2608E-01	3.546	0.2084E-04	0.7068
25.00	1.001	0.6672	0.9998	0.7465E-04	0.2999E-01	4.101	0.2997E-04	0.7108
30.00	1.000	0.6671	0.9998	0.6220E-04	0.3362E-01	4.608	0.4034E-04	0.7121
40.00	1.000	0.6669	0.9997	0.4665E-04	0.4036E-01	5.522	0.6458E-04	0.7106
50.00	0.9999	0.6669	0.9998	0.3732E-04	0.4660E-01	6.343	0.9321E-04	0.7069
60.00	0.9999	0.6668	0.9998	0.3110E-04	0.5248E-01	7.101	0.1260E-03	0.7028
80.00	0.9999	0.6668	0.9998	0.2333E-04	0.6344E-01	8.490	0.2030E-03	0.6950
100.0	0.9999	0.6667	0.9999	0.1866E-04	0.7364E-01	9.766	0.2946E-03	0.6887
120.0	0.9999	0.6667	0.9999	0.1555E-04	0.8326E-01	10.78	0.3997E-03	0.6726
140.0	0.9999	0.6667	0.9999	0.1333E-04	0.9243E-01	11.94	0.5176E-03	0.6706
160.0	0.9999	0.6667	0.9999	0.1166E-04	0.1012	13.04	0.6479E-03	0.6690
180.0	0.9999	0.6667	0.9999	0.1037E-04	0.1097	14.10	0.7899E-03	0.6677
200.0	0.9999	0.6667	0.9999	0.9332E-05	0.1179	15.14	0.9433E-03	0.6666
220.0	0.9999	0.6667	0.9999	0.8484E-05	0.1259	16.14	0.1108E-02	0.6658
240.0	0.9999	0.6667	0.9999	0.7777E-05	0.1337	17.12	0.1283E-02	0.6651
260.0	0.9999	0.6667	0.9999	0.7178E-05	0.1412	18.07	0.1469E-02	0.6645
280.0	0.9999	0.6667	1.000	0.6666E-05	0.1486	19.01	0.1665E-02	0.6641
300.0	0.9999	0.6667	1.000	0.6221E-05	0.1559	19.93	0.1871E-02	0.6637
350.0	1.000	0.6667	1.000	0.5333E-05	0.1735	22.15	0.2429E-02	0.6632
400.0	1.000	0.6667	1.000	0.4666E-05	0.1903	24.29	0.3045E-02	0.6628
500.0	1.000	0.6667	1.000	0.3733E-05	0.2222	28.36	0.4445E-02	0.6627
600.0	1.000	0.6667	1.000	0.3111E-05	0.2523	32.21	0.6056E-02	0.6630
700.0	1.000	0.6667	1.000	0.2666E-05	0.2810	35.89	0.7868E-02	0.6633
800.0	1.000	0.6667	1.000	0.2333E-05	0.3085	39.43	0.9871E-02	0.6638
900.0	1.000	0.6667	1.000	0.2074E-05	0.3349	42.85	0.1206E-01	0.6643
1000.	1.000	0.6667	1.000	0.1866E-05	0.3605	46.16	0.1442E-01	0.6648
1100.	1.000	0.6667	1.000	0.1697E-05	0.3854	49.38	0.1696E-01	0.6654
1200.	1.000	0.6667	1.000	0.1555E-05	0.4096	52.52	0.1966E-01	0.6659
1300.	1.000	0.6667	1.000	0.1436E-05	0.4332	55.59	0.2253E-01	0.6664
1400.	1.000	0.6667	1.000	0.1333E-05	0.4563	58.60	0.2556E-01	0.6669
1500.	1.000	0.6667	1.000	0.1244E-05	0.4789	61.55	0.2874E-01	0.6673

PRESSURE = 0.020 [MPa]

	TEMP [K]	DENSITY [kg/m³]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	145.5	0.8271E-01	0.1982E-02	0.1394	0.4649E-02	0.2239E-01	0.2240E-01	239.0
	1.000	145.5	0.6617E-01	0.1271E-01	0.1502	0.1632E-01	0.1005	0.1006	239.3
	1.200	145.5	0.5514E-01	0.5146E-01	0.1889	0.5104E-01	0.3185	0.3185	239.1
	1.400	145.5	0.4724E-01	0.1564	0.2938	0.1310	0.7807	0.7810	238.2
	1.600	145.6	0.4132E-01	0.3880	0.5253	0.2844	1.604	1.605	236.5
	1.800	145.8	0.3669E-01	0.8323	0.9695	0.5444	2.938	2.941	233.4
	2.000	146.0	0.3298E-01	1.623	1.760	0.9589	5.185	5.197	227.7
1	2.075	146.1	0.3175E-01	2.066	2.203	1.176	6.605	6.628	224.7
2	2.165	146.4	0.3037E-01	2.799	2.935	1.521	10.65	10.77	220.2
3	2.174	146.5	0.3023E-01	2.905	3.041	1.570	13.50	13.77	219.4
3	2.176	146.5	0.3020E-01	2.929	3.066	1.581	8.255	8.284	219.7
2	2.185	146.5	0.3008E-01	2.985	3.121	1.607	5.204	5.205	220.4
1	2.275	146.3	0.2893E-01	3.299	3.436	1.748	2.761	2.819	222.2
	2.400	145.7	0.2753E-01	3.615	3.752	1.883	2.241	2.363	223.1
	2.700	143.9	0.2478E-01	4.300	4.439	2.153	2.045	2.345	219.2
L	2.881	142.4	0.2347E-01	4.731	4.872	2.308	2.032	2.467	216.1
V	2.881	3.839	0.8706	23.11	28.32	10.42	3.470	6.526	91.75
	3.000	3.631	0.8840	23.58	29.09	10.68	3.405	6.325	94.61
	3.300	3.208	0.9094	24.69	30.93	11.27	3.293	5.978	101.1
	3.600	2.884	0.9272	25.75	32.69	11.78	3.227	5.767	107.0
	3.900	2.626	0.9402	26.78	34.39	12.23	3.187	5.631	112.3
	4.200	2.413	0.9501	27.78	36.07	12.65	3.161	5.538	117.4
	4.500	2.234	0.9577	28.77	37.72	13.03	3.145	5.473	122.1
	4.800	2.081	0.9638	29.74	39.35	13.38	3.135	5.426	126.6
	5.000	1.991	0.9672	30.39	40.44	13.60	3.130	5.401	129.4
	5.100	1.949	0.9687	30.71	40.98	13.71	3.128	5.391	130.9
	5.300	1.870	0.9715	31.36	42.05	13.91	3.125	5.372	133.6
	5.500	1.797	0.9739	32.00	43.13	14.11	3.122	5.356	136.3
	6.000	1.639	0.9789	33.59	45.79	14.58	3.118	5.324	142.8
	6.500	1.507	0.9827	35.18	48.45	15.00	3.117	5.302	148.9
	7.000	1.396	0.9856	36.77	51.10	15.39	3.116	5.286	154.8
	8.000	1.216	0.9898	39.92	56.37	16.10	3.115	5.263	165.8
	9.000	1.078	0.9926	43.07	61.63	16.72	3.115	5.248	176.2
	10.00	0.9681	0.9946	46.21	66.87	17.27	3.116	5.238	185.8
	12.00	0.8048	0.9969	52.48	77.33	18.22	3.116	5.224	203.8
	15.00	0.6427	0.9987	61.87	92.98	19.39	3.117	5.213	228.0
	20.00	0.4815	0.9999	77.49	119.0	20.89	3.117	5.205	263.4
	25.00	0.3850	1.000	93.09	145.0	22.05	3.117	5.200	294.4
	30.00	0.3208	1.000	108.7	171.0	23.00	3.117	5.198	322.5
	40.00	0.2406	1.001	139.9	223.0	24.49	3.116	5.196	372.4
	50.00	0.1925	1.000	171.0	275.0	25.65	3.116	5.195	416.3
	60.00	0.1604	1.000	202.2	326.9	26.60	3.116	5.194	456.0
	80.00	0.1203	1.000	264.5	430.8	28.09	3.116	5.194	526.5
	100.0	0.9625E-01	1.000	326.9	534.6	29.25	3.116	5.193	588.6
	120.0	0.8022E-01	1.000	389.2	638.5	30.20	3.116	5.193	644.7
	140.0	0.6876E-01	1.000	451.5	742.4	31.00	3.116	5.193	696.3
	160.0	0.6017E-01	1.000	513.8	846.2	31.69	3.116	5.193	744.4
	180.0	0.5348E-01	1.000	576.1	950.1	32.30	3.116	5.193	789.5
	200.0	0.4813E-01	1.000	638.4	1054.	32.85	3.116	5.193	832.2
	220.0	0.4376E-01	1.000	700.8	1158.	33.34	3.116	5.193	872.8
	240.0	0.4011E-01	1.000	763.1	1262.	33.80	3.116	5.193	911.6
	260.0	0.3703E-01	1.000	825.4	1366.	34.21	3.116	5.193	948.8
	280.0	0.3438E-01	1.000	887.7	1469.	34.60	3.116	5.193	984.7
	300.0	0.3209E-01	1.000	950.0	1573.	34.95	3.116	5.193	1019.
	350.0	0.2751E-01	1.000	1106.	1833.	35.76	3.116	5.193	1101.
	400.0	0.2407E-01	1.000	1262.	2093.	36.45	3.116	5.193	1177.
	500.0	0.1926E-01	1.000	1573.	2612.	37.61	3.116	5.193	1316.
	600.0	0.1605E-01	1.000	1885.	3131.	38.55	3.116	5.193	1441.
	700.0	0.1375E-01	1.000	2196.	3650.	39.36	3.116	5.193	1557.
	800.0	0.1203E-01	1.000	2508.	4170.	40.05	3.116	5.193	1664.
	900.0	0.1070E-01	1.000	2820.	4689.	40.66	3.116	5.193	1765.
	1000.	0.9628E-02	1.000	3131.	5208.	41.21	3.116	5.193	1861.
	1100.	0.8753E-02	1.000	3443.	5728.	41.70	3.116	5.193	1952.
	1200.	0.8023E-02	1.000	3754.	6247.	42.15	3.116	5.193	2038.
	1300.	0.7406E-02	1.000	4066.	6766.	42.57	3.116	5.193	2122.
	1400.	0.6877E-02	1.000	4377.	7286.	42.95	3.116	5.193	2202.
	1500.	0.6419E-02	1.000	4689.	7805.	43.31	3.116	5.193	2279.

PRESSURE = 0.020 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_V}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	0.3960E-03	1.262	0.2408E-02	0.5710E-01				
1.000	0.1912E-03	0.1089	0.2400E-02	0.5709E-01				
1.200	-0.7852E-03	-0.1175	0.2404E-02	0.5709E-01				
1.400	-0.2643E-02	-0.1372	0.2421E-02	0.5711E-01				
1.600	-0.5506E-02	-0.1199	0.2456E-02	0.5714E-01				
1.800	-0.1021E-01	-0.1050	0.2521E-02	0.5719E-01				
2.000	-0.2136E-01	-0.1066	0.2647E-02	0.5728E-01				
2.075	-0.3137E-01	-0.1151	0.2721E-02	0.5734E-01				
2.165	-0.7223E-01	-0.1502	0.2849E-02	0.5745E-01				
2.174	-0.1098	-0.1766	0.2891E-02	0.5747E-01				
2.176	-0.3651E-01	-0.9772E-01	0.2839E-02	0.5747E-01				
2.185	0.6018E-02	0.2571E-01	0.2810E-02	0.5747E-01				
2.275	0.5241E-01	0.4035	0.2828E-02	0.5739E-01				
2.400	0.7852E-01	0.6894	0.2906E-02	0.5718E-01				
2.700	0.1390	1.055	0.3317E-02	0.5645E-01				
2.881	0.1805	1.186	0.3650E-02	0.5585E-01				
2.881	1.403	0.6281	1.164	0.1489E-02				
3.000	1.348	0.6360	1.143	0.1408E-02				
3.300	1.254	0.6500	1.106	0.1244E-02				
3.600	1.195	0.6586	1.083	0.1119E-02	0.7027E-02	0.9489	0.4225E-06	0.7787
3.900	1.155	0.6639	1.066	0.1018E-02	0.7605E-02	1.023	0.5144E-06	0.7572
4.200	1.127	0.6672	1.054	0.9357E-03	0.8175E-02	1.094	0.6118E-06	0.7412
4.500	1.106	0.6692	1.045	0.8663E-03	0.8734E-02	1.163	0.7142E-06	0.7290
4.800	1.090	0.6705	1.038	0.8071E-03	0.9278E-02	1.230	0.8216E-06	0.7195
5.000	1.082	0.6710	1.035	0.7721E-03	0.9633E-02	1.274	0.8958E-06	0.7144
5.100	1.078	0.6712	1.033	0.7557E-03	0.9808E-02	1.296	0.9336E-06	0.7121
5.300	1.071	0.6715	1.030	0.7251E-03	0.1015E-01	1.338	0.1011E-05	0.7081
5.500	1.065	0.6717	1.027	0.6970E-03	0.1049E-01	1.380	0.1090E-05	0.7047
6.000	1.053	0.6719	1.022	0.6357E-03	0.1131E-01	1.483	0.1295E-05	0.6983
6.500	1.044	0.6718	1.018	0.5845E-03	0.1208E-01	1.581	0.1512E-05	0.6941
7.000	1.037	0.6716	1.015	0.5411E-03	0.1282E-01	1.677	0.1738E-05	0.6914
8.000	1.027	0.6711	1.010	0.4715E-03	0.1420E-01	1.860	0.2219E-05	0.6891
9.000	1.021	0.6706	1.007	0.4179E-03	0.1548E-01	2.032	0.2736E-05	0.6892
10.00	1.016	0.6701	1.005	0.3754E-03	0.1666E-01	2.197	0.3287E-05	0.6905
12.00	1.010	0.6694	1.003	0.3121E-03	0.1884E-01	2.505	0.4481E-05	0.6946
15.00	1.006	0.6687	1.001	0.2492E-03	0.2177E-01	2.926	0.6496E-05	0.7009
20.00	1.003	0.6680	1.000	0.1867E-03	0.2609E-01	3.550	0.1041E-04	0.7082
25.00	1.001	0.6677	0.9997	0.1493E-03	0.2999E-01	4.105	0.1498E-04	0.7117
30.00	1.001	0.6675	0.9995	0.1244E-03	0.3363E-01	4.611	0.2017E-04	0.7127
40.00	1.000	0.6672	0.9995	0.9328E-04	0.4037E-01	5.524	0.3230E-04	0.7109
50.00	0.9998	0.6671	0.9995	0.7462E-04	0.4661E-01	6.345	0.4662E-04	0.7072
60.00	0.9997	0.6670	0.9996	0.6219E-04	0.5249E-01	7.103	0.6300E-04	0.7029
80.00	0.9997	0.6669	0.9996	0.4665E-04	0.6345E-01	8.492	0.1016E-03	0.6950
100.0	0.9997	0.6668	0.9997	0.3732E-04	0.7365E-01	9.768	0.1473E-03	0.6888
120.0	0.9998	0.6668	0.9998	0.3110E-04	0.8327E-01	10.78	0.1999E-03	0.6726
140.0	0.9998	0.6668	0.9998	0.2666E-04	0.9243E-01	11.94	0.2589E-03	0.6706
160.0	0.9998	0.6668	0.9998	0.2333E-04	0.1012	13.04	0.3240E-03	0.6690
180.0	0.9998	0.6667	0.9998	0.2074E-04	0.1097	14.10	0.3950E-03	0.6677
200.0	0.9998	0.6667	0.9999	0.1866E-04	0.1179	15.14	0.4717E-03	0.6666
220.0	0.9999	0.6667	0.9999	0.1697E-04	0.1259	16.14	0.5540E-03	0.6657
240.0	0.9999	0.6667	0.9999	0.1555E-04	0.1337	17.12	0.6416E-03	0.6651
260.0	0.9999	0.6667	0.9999	0.1436E-04	0.1412	18.07	0.7345E-03	0.6645
280.0	0.9999	0.6667	0.9999	0.1333E-04	0.1487	19.01	0.8325E-03	0.6641
300.0	0.9999	0.6667	0.9999	0.1244E-04	0.1559	19.93	0.9356E-03	0.6637
350.0	0.9999	0.6667	0.9999	0.1066E-04	0.1735	22.15	0.1214E-02	0.6631
400.0	0.9999	0.6667	0.9999	0.9332E-05	0.1903	24.29	0.1523E-02	0.6628
500.0	0.9999	0.6667	0.9999	0.7466E-05	0.2222	28.36	0.2223E-02	0.6627
600.0	1.000	0.6667	1.000	0.6221E-05	0.2523	32.21	0.3028E-02	0.6629
700.0	1.000	0.6667	1.000	0.5333E-05	0.2810	35.89	0.3934E-02	0.6633
800.0	1.000	0.6667	1.000	0.4666E-05	0.3085	39.43	0.4936E-02	0.6638
900.0	1.000	0.6667	1.000	0.4148E-05	0.3349	42.85	0.6029E-02	0.6643
1000.	1.000	0.6667	1.000	0.3733E-05	0.3606	46.16	0.7211E-02	0.6648
1100.	1.000	0.6667	1.000	0.3394E-05	0.3854	49.38	0.8479E-02	0.6654
1200.	1.000	0.6667	1.000	0.3111E-05	0.4096	52.52	0.9831E-02	0.6659
1300.	1.000	0.6667	1.000	0.2871E-05	0.4333	55.59	0.1126E-01	0.6664
1400.	1.000	0.6667	1.000	0.2666E-05	0.4563	58.60	0.1278E-01	0.6668
1500.	1.000	0.6667	1.000	0.2489E-05	0.4790	61.55	0.1437E-01	0.6673

PRESSURE = 0.040 [MPa]

	TEMP [K]	DENSITY [kg/m³]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	145.9	0.1650	0.2417E-02	0.2766	0.4578E-02	0.2239E-01	0.2240E-01	240.3
	1.000	145.9	0.1320	0.1317E-01	0.2874	0.1629E-01	0.1010	0.1010	240.5
	1.200	145.9	0.1100	0.5207E-01	0.3263	0.5114E-01	0.3194	0.3194	240.6
	1.400	145.9	0.9427E-01	0.1573	0.4314	0.1313	0.7821	0.7824	240.1
	1.600	146.0	0.8244E-01	0.3893	0.6633	0.2848	1.605	1.607	238.6
	1.800	146.1	0.7321E-01	0.8343	1.108	0.5452	2.941	2.945	235.3
	2.000	146.4	0.6578E-01	1.627	1.900	0.9605	5.195	5.209	229.2
1	2.074	146.5	0.6338E-01	2.059	2.332	1.172	6.582	6.609	226.2
2	2.164	146.8	0.6062E-01	2.790	3.062	1.517	10.61	10.73	221.9
3	2.173	146.9	0.6035E-01	2.895	3.168	1.565	13.44	13.72	221.2
3	2.175	146.9	0.6029E-01	2.920	3.192	1.577	8.214	8.247	221.6
2	2.184	146.9	0.6004E-01	2.975	3.248	1.602	5.179	5.179	222.3
1	2.274	146.7	0.5774E-01	3.288	3.561	1.743	2.745	2.801	224.0
	2.400	146.2	0.5489E-01	3.605	3.878	1.879	2.223	2.341	225.0
	2.700	144.4	0.4940E-01	4.282	4.559	2.146	2.033	2.322	221.4
	3.000	141.8	0.4527E-01	5.002	5.285	2.401	2.051	2.574	216.4
	3.300	138.5	0.4213E-01	5.837	6.126	2.667	2.226	3.054	208.4
L	3.369	137.6	0.4153E-01	6.050	6.341	2.732	2.266	3.179	206.1
V	3.369	7.019	0.8144	23.98	29.68	9.645	3.402	6.977	95.91
	3.600	6.329	0.8452	24.92	31.24	10.09	3.319	6.551	101.6
	3.900	5.645	0.8747	26.06	33.15	10.60	3.246	6.196	108.0
	4.200	5.115	0.8963	27.15	34.97	11.05	3.200	5.967	113.8
	4.500	4.688	0.9128	28.20	36.74	11.46	3.170	5.811	119.1
	4.800	4.333	0.9258	29.23	38.46	11.83	3.151	5.699	124.1
	5.000	4.128	0.9329	29.91	39.60	12.06	3.142	5.642	127.2
	5.100	4.033	0.9361	30.24	40.16	12.17	3.138	5.617	128.7
	5.300	3.857	0.9419	30.91	41.28	12.39	3.132	5.574	131.7
	5.500	3.697	0.9470	31.57	42.39	12.59	3.127	5.538	134.6
	6.000	3.353	0.9573	33.21	45.14	13.07	3.120	5.469	141.4
	6.500	3.070	0.9651	34.83	47.86	13.51	3.117	5.420	147.8
	7.000	2.833	0.9711	36.44	50.56	13.91	3.115	5.384	153.9
	8.000	2.457	0.9796	39.64	55.92	14.62	3.114	5.336	165.3
	9.000	2.172	0.9852	42.82	61.24	15.25	3.115	5.305	175.8
	10.00	1.947	0.9891	45.99	66.53	15.81	3.116	5.283	185.6
	12.00	1.615	0.9939	52.30	77.07	16.77	3.117	5.256	203.8
	15.00	1.287	0.9975	61.72	92.80	17.94	3.118	5.234	228.1
	20.00	0.9630	0.9998	77.38	118.9	19.44	3.118	5.216	263.6
	25.00	0.7698	1.001	93.01	145.0	20.60	3.118	5.208	294.7
	30.00	0.6413	1.001	108.6	171.0	21.55	3.117	5.203	322.8
	40.00	0.4809	1.001	139.8	223.0	23.05	3.117	5.198	372.6
	50.00	0.3848	1.001	171.0	275.0	24.21	3.117	5.196	416.5
	60.00	0.3207	1.001	202.2	326.9	25.16	3.117	5.195	456.2
	80.00	0.2405	1.001	264.5	430.8	26.65	3.116	5.194	526.7
	100.0	0.1925	1.001	326.9	534.7	27.81	3.116	5.194	588.7
	120.0	0.1604	1.000	389.2	638.6	28.76	3.116	5.193	644.9
	140.0	0.1375	1.000	451.5	742.4	29.56	3.116	5.193	696.5
	160.0	0.1203	1.000	513.8	846.3	30.25	3.116	5.193	744.5
	180.0	0.1069	1.000	576.1	950.2	30.86	3.116	5.193	789.6
	200.0	0.9625E-01	1.000	638.5	1054.	31.41	3.116	5.193	832.3
	220.0	0.8751E-01	1.000	700.8	1158.	31.90	3.116	5.193	872.9
	240.0	0.8022E-01	1.000	763.1	1262.	32.36	3.116	5.193	911.7
	260.0	0.7405E-01	1.000	825.4	1366.	32.77	3.116	5.193	948.9
	280.0	0.6876E-01	1.000	887.7	1469.	33.16	3.116	5.193	984.7
	300.0	0.6418E-01	1.000	950.0	1573.	33.52	3.116	5.193	1019.
	350.0	0.5501E-01	1.000	1106.	1833.	34.32	3.116	5.193	1101.
	400.0	0.4813E-01	1.000	1262.	2093.	35.01	3.116	5.193	1177.
	500.0	0.3851E-01	1.000	1573.	2612.	36.17	3.116	5.193	1316.
	600.0	0.3209E-01	1.000	1885.	3131.	37.11	3.116	5.193	1441.
	700.0	0.2751E-01	1.000	2196.	3651.	37.92	3.116	5.193	1557.
	800.0	0.2407E-01	1.000	2508.	4170.	38.61	3.116	5.193	1664.
	900.0	0.2139E-01	1.000	2820.	4689.	39.22	3.116	5.193	1765.
	1000.	0.1926E-01	1.000	3131.	5208.	39.77	3.116	5.193	1861.
	1100.	0.1751E-01	1.000	3443.	5728.	40.26	3.116	5.193	1952.
	1200.	0.1605E-01	1.000	3754.	6247.	40.71	3.116	5.193	2038.
	1300.	0.1481E-01	1.000	4066.	6766.	41.13	3.116	5.193	2122.
	1400.	0.1375E-01	1.000	4377.	7286.	41.51	3.116	5.193	2202.
	1500.	0.1284E-01	1.000	4689.	7805.	41.87	3.116	5.193	2279.

PRESSURE = 0.040 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_V}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	0.4337E-03	1.397	0.4753E-02	0.5723E-01				
1.000	0.2098E-03	0.1202	0.4741E-02	0.5723E-01				
1.200	-0.8255E-03	-0.1247	0.4738E-02	0.5723E-01				
1.400	-0.2793E-02	-0.1470	0.4758E-02	0.5725E-01				
1.600	-0.5866E-02	-0.1299	0.4817E-02	0.5728E-01				
1.800	-0.1103E-01	-0.1152	0.4949E-02	0.5734E-01				
2.000	-0.2311E-01	-0.1166	0.5214E-02	0.5743E-01				
2.074	-0.3329E-01	-0.1243	0.5358E-02	0.5749E-01				
2.164	-0.7457E-01	-0.1580	0.5601E-02	0.5761E-01				
2.173	-0.1125	-0.1846	0.5684E-02	0.5763E-01				
2.175	-0.3830E-01	-0.1048	0.5571E-02	0.5763E-01				
2.184	0.4623E-02	0.2020E-01	0.5512E-02	0.5764E-01				
2.274	0.5094E-01	0.4015	0.5544E-02	0.5755E-01				
2.400	0.7668E-01	0.6907	0.5693E-02	0.5735E-01				
2.700	0.1349	1.055	0.6456E-02	0.5664E-01				
3.000	0.2051	1.244	0.7558E-02	0.5561E-01				
3.300	0.2937	1.266	0.9119E-02	0.5431E-01				
3.369	0.3188	1.265	0.9597E-02	0.5396E-01				
3.369	1.639	0.6413	1.271	0.2723E-02				
3.600	1.492	0.6526	1.209	0.2455E-02	0.7183E-02	0.9778	0.1733E-06	0.8917
3.900	1.372	0.6625	1.159	0.2190E-02	0.7746E-02	1.051	0.2215E-06	0.8407
4.200	1.293	0.6686	1.125	0.1984E-02	0.8304E-02	1.122	0.2721E-06	0.8059
4.500	1.239	0.6724	1.102	0.1818E-02	0.8852E-02	1.190	0.3250E-06	0.7810
4.800	1.199	0.6748	1.084	0.1681E-02	0.9389E-02	1.256	0.3801E-06	0.7626
5.000	1.178	0.6758	1.075	0.1601E-02	0.9738E-02	1.299	0.4181E-06	0.7529
5.100	1.169	0.6761	1.071	0.1564E-02	0.9911E-02	1.321	0.4374E-06	0.7486
5.300	1.152	0.6767	1.064	0.1496E-02	0.1025E-01	1.363	0.4767E-06	0.7411
5.500	1.139	0.6770	1.058	0.1434E-02	0.1058E-01	1.404	0.5169E-06	0.7348
6.000	1.111	0.6773	1.046	0.1300E-02	0.1139E-01	1.505	0.6212E-06	0.7229
6.500	1.091	0.6771	1.037	0.1190E-02	0.1215E-01	1.603	0.7305E-06	0.7147
7.000	1.077	0.6767	1.030	0.1099E-02	0.1289E-01	1.697	0.8449E-06	0.7091
8.000	1.056	0.6756	1.021	0.9529E-03	0.1426E-01	1.878	0.1088E-05	0.7027
9.000	1.042	0.6745	1.015	0.8421E-03	0.1553E-01	2.049	0.1348E-05	0.7001\
10.00	1.033	0.6736	1.011	0.7549E-03	0.1671E-01	2.212	0.1624E-05	0.6995
12.00	1.021	0.6722	1.006	0.6261E-03	0.1888E-01	2.518	0.2225E-05	0.7011
15.00	1.012	0.6708	1.003	0.4991E-03	0.2179E-01	2.937	0.3235E-05	0.7052
20.00	1.005	0.6694	1.000	0.3734E-03	0.2611E-01	3.558	0.5198E-05	0.7107
25.00	1.002	0.6687	0.9994	0.2985E-03	0.3001E-01	4.111	0.7487E-05	0.7133
30.00	1.001	0.6683	0.9991	0.2486E-03	0.3365E-01	4.617	0.1009E-04	0.7138
40.00	0.9999	0.6678	0.9990	0.1865E-03	0.4039E-01	5.528	0.1616E-04	0.7116
50.00	0.9996	0.6675	0.9990	0.1492E-03	0.4662E-01	6.349	0.2332E-04	0.7076
60.00	0.9994	0.6673	0.9991	0.1243E-03	0.5250E-01	7.106	0.3152E-04	0.7032
80.00	0.9994	0.6671	0.9993	0.9326E-04	0.6347E-01	8.494	0.5080E-04	0.6952
100.0	0.9995	0.6670	0.9994	0.7462E-04	0.7366E-01	9.770	0.7370E-04	0.6888
120.0	0.9995	0.6669	0.9995	0.6219E-04	0.8328E-01	10.79	0.9998E-04	0.6726
140.0	0.9996	0.6669	0.9996	0.5331E-04	0.9245E-01	11.94	0.1295E-03	0.6706
160.0	0.9996	0.6669	0.9996	0.4665E-04	0.1012	13.04	0.1620E-03	0.6690
180.0	0.9997	0.6668	0.9997	0.4146E-04	0.1097	14.11	0.1976E-03	0.6676
200.0	0.9997	0.6668	0.9997	0.3732E-04	0.1179	15.14	0.2359E-03	0.6666
220.0	0.9997	0.6668	0.9997	0.3393E-04	0.1259	16.14	0.2771E-03	0.6657
240.0	0.9997	0.6668	0.9998	0.3110E-04	0.1337	17.12	0.3209E-03	0.6650
260.0	0.9998	0.6668	0.9998	0.2871E-04	0.1413	18.07	0.3673E-03	0.6645
280.0	0.9998	0.6668	0.9998	0.2666E-04	0.1487	19.01	0.4164E-03	0.6640
300.0	0.9998	0.6668	0.9998	0.2488E-04	0.1559	19.93	0.4679E-03	0.6637
350.0	0.9998	0.6667	0.9998	0.2133E-04	0.1735	22.15	0.6073E-03	0.6631
400.0	0.9998	0.6667	0.9999	0.1866E-04	0.1903	24.29	0.7614E-03	0.6628
500.0	0.9999	0.6667	0.9999	0.1493E-04	0.2223	28.36	0.1111E-02	0.6627
600.0	0.9999	0.6667	0.9999	0.1244E-04	0.2524	32.21	0.1514E-02	0.6629
700.0	0.9999	0.6667	0.9999	0.1066E-04	0.2810	35.89	0.1967E-02	0.6633
800.0	0.9999	0.6667	0.9999	0.9332E-05	0.3085	39.43	0.2468E-02	0.6638
900.0	0.9999	0.6667	0.9999	0.8295E-05	0.3349	42.85	0.3015E-02	0.6643
1000.	0.9999	0.6667	1.000	0.7466E-05	0.3606	46.16	0.3606E-02	0.6648
1100.	1.000	0.6667	1.000	0.6787E-05	0.3854	49.38	0.4240E-02	0.6653
1200.	1.000	0.6667	1.000	0.6221E-05	0.4096	52.52	0.4916E-02	0.6658
1300.	1.000	0.6667	1.000	0.5743E-05	0.4333	55.59	0.5633E-02	0.6663
1400.	1.000	0.6667	1.000	0.5333E-05	0.4564	58.60	0.6389E-02	0.6668
1500.	1.000	0.6667	1.000	0.4977E-05	0.4790	61.55	0.7185E-02	0.6673

PRESSURE = 0.060 [MPa]

	TEMP [K]	DENSITY [kg/m³]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	146.2	0.2469	0.3164E-02	0.4135	0.4501E-02	0.2239E-01	0.2240E-01	241.7
	1.000	146.2	0.1976	0.1395E-01	0.4244	0.1626E-01	0.1014	0.1014	241.9
	1.200	146.2	0.1646	0.5298E-01	0.4634	0.5123E-01	0.3203	0.3203	242.1
	1.400	146.2	0.1411	0.1585	0.5688	0.1316	0.7835	0.7839	241.9
	1.600	146.3	0.1234	0.3909	0.8010	0.2854	1.607	1.609	240.5
	1.800	146.5	0.1095	0.8367	1.246	0.5461	2.945	2.949	237.1
	2.000	146.7	0.9842E-01	1.631	2.040	0.9621	5.205	5.222	230.8
1	2.072	146.9	0.9491E-01	2.052	2.461	1.169	6.559	6.589	227.8
2	2.162	147.2	0.9077E-01	2.781	3.189	1.512	10.57	10.70	223.6
3	2.171	147.3	0.9036E-01	2.887	3.294	1.561	13.38	13.68	222.9
3	2.173	147.3	0.9027E-01	2.911	3.319	1.572	8.176	8.213	223.4
2	2.182	147.3	0.8989E-01	2.966	3.374	1.597	5.154	5.154	224.1
1	2.272	147.1	0.8645E-01	3.277	3.685	1.737	2.729	2.783	225.9
	2.400	146.6	0.8211E-01	3.595	4.005	1.874	2.206	2.321	226.8
	2.700	144.8	0.7387E-01	4.265	4.679	2.139	2.021	2.300	223.6
	3.000	142.3	0.6765E-01	4.975	5.397	2.391	2.040	2.547	219.0
	3.300	139.1	0.6292E-01	5.797	6.228	2.655	2.216	3.014	211.3
	3.600	135.1	0.5940E-01	6.770	7.215	2.941	2.372	3.579	200.6
L	3.710	133.3	0.5839E-01	7.170	7.620	3.052	2.418	3.822	196.0
V	3.710	10.13	0.7686	24.43	30.35	9.168	3.341	7.503	98.00
	3.900	9.258	0.8000	25.25	31.73	9.531	3.289	7.024	103.0
	4.200	8.215	0.8371	26.46	33.76	10.03	3.230	6.541	109.9
	4.500	7.425	0.8645	27.59	35.68	10.47	3.190	6.237	116.0
	4.800	6.796	0.8855	28.69	37.51	10.87	3.163	6.031	121.5
	5.000	6.441	0.8969	29.39	38.71	11.11	3.151	5.928	124.9
	5.100	6.279	0.9020	29.74	39.30	11.23	3.146	5.885	126.5
	5.300	5.982	0.9111	30.44	40.47	11.45	3.137	5.809	129.7
	5.500	5.714	0.9191	31.12	41.62	11.67	3.131	5.746	132.8
	6.000	5.148	0.9351	32.81	44.47	12.16	3.121	5.628	140.0
	6.500	4.692	0.9471	34.47	47.26	12.61	3.116	5.548	146.7
	7.000	4.315	0.9563	36.11	50.02	13.02	3.114	5.489	153.0
	8.000	3.725	0.9693	39.36	55.46	13.75	3.113	5.412	164.7
	9.000	3.282	0.9778	42.57	60.85	14.38	3.114	5.363	175.4
	10.00	2.936	0.9837	45.76	66.20	14.94	3.116	5.330	185.4
	12.00	2.429	0.9909	52.11	76.81	15.91	3.117	5.288	203.8
	15.00	1.933	0.9962	61.58	92.62	17.09	3.119	5.254	228.3
	20.00	1.445	0.9997	77.28	118.8	18.59	3.119	5.227	263.8
	25.00	1.154	1.001	92.93	144.9	19.76	3.119	5.215	295.0
	30.00	0.9615	1.001	108.6	171.0	20.71	3.118	5.208	323.1
	40.00	0.7210	1.002	139.8	223.0	22.21	3.118	5.201	372.9
	50.00	0.5768	1.001	171.0	275.0	23.37	3.117	5.198	416.8
	60.00	0.4808	1.001	202.2	327.0	24.31	3.117	5.196	456.4
	80.00	0.3607	1.001	264.5	430.9	25.81	3.117	5.195	526.8
	100.0	0.2886	1.001	326.8	534.8	26.97	3.116	5.194	588.9
	120.0	0.2405	1.001	389.2	638.6	27.91	3.116	5.194	645.0
	140.0	0.2062	1.001	451.5	742.5	28.72	3.116	5.193	696.6
	160.0	0.1804	1.001	513.8	846.4	29.41	3.116	5.193	744.6
	180.0	0.1604	1.000	576.1	950.2	30.02	3.116	5.193	789.8
	200.0	0.1444	1.000	638.5	1054.	30.57	3.116	5.193	832.4
	220.0	0.1312	1.000	700.8	1158.	31.06	3.116	5.193	873.0
	240.0	0.1203	1.000	763.1	1262.	31.51	3.116	5.193	911.8
	260.0	0.1111	1.000	825.4	1366.	31.93	3.116	5.193	949.0
	280.0	0.1031	1.000	887.7	1470.	32.31	3.116	5.193	984.8
	300.0	0.9626E-01	1.000	950.1	1573.	32.67	3.116	5.193	1019.
	350.0	0.8251E-01	1.000	1106.	1833.	33.47	3.116	5.193	1101.
	400.0	0.7220E-01	1.000	1262.	2093.	34.17	3.116	5.193	1177.
	500.0	0.5776E-01	1.000	1573.	2612.	35.33	3.116	5.193	1316.
	600.0	0.4814E-01	1.000	1885.	3131.	36.27	3.116	5.193	1441.
	700.0	0.4126E-01	1.000	2196.	3651.	37.07	3.116	5.193	1557.
	800.0	0.3610E-01	1.000	2508.	4170.	37.77	3.116	5.193	1664.
	900.0	0.3209E-01	1.000	2820.	4689.	38.38	3.116	5.193	1765.
	1000.	0.2888E-01	1.000	3131.	5209.	38.93	3.116	5.193	1861.
	1100.	0.2626E-01	1.000	3443.	5728.	39.42	3.116	5.193	1952.
	1200.	0.2407E-01	1.000	3754.	6247.	39.87	3.116	5.193	2038.
	1300.	0.2222E-01	1.000	4066.	6766.	40.29	3.116	5.193	2122.
	1400.	0.2063E-01	1.000	4377.	7286.	40.67	3.116	5.193	2202.
	1500.	0.1926E-01	1.000	4689.	7805.	41.03	3.116	5.193	2279.

PRESSURE = 0.060 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	0.4560E-03	1.486	0.7030E-02	0.5737E-01				
1.000	0.2357E-03	0.1359	0.7015E-02	0.5737E-01				
1.200	-0.8302E-03	-0.1266	0.7003E-02	0.5737E-01				
1.400	-0.2898E-02	-0.1545	0.7016E-02	0.5738E-01				
1.600	-0.6212E-02	-0.1396	0.7094E-02	0.5742E-01				
1.800	-0.1188E-01	-0.1259	0.7296E-02	0.5748E-01				
2.000	-0.2488E-01	-0.1268	0.7702E-02	0.5758E-01				
2.072	-0.3514E-01	-0.1335	0.7908E-02	0.5764E-01				
2.162	-0.7670E-01	-0.1657	0.8258E-02	0.5776E-01				
2.171	-0.1151	-0.1925	0.8383E-02	0.5779E-01				
2.173	-0.4014E-01	-0.1122	0.8201E-02	0.5779E-01				
2.182	0.3217E-02	0.1437E-01	0.8109E-02	0.5780E-01				
2.272	0.4950E-01	0.3994	0.8154E-02	0.5772E-01				
2.400	0.7496E-01	0.6924	0.8368E-02	0.5752E-01				
2.700	0.1311	1.056	0.9430E-02	0.5682E-01				
3.000	0.1991	1.250	0.1098E-01	0.5582E-01				
3.300	0.2834	1.272	0.1314E-01	0.5456E-01				
3.600	0.4035	1.261	0.1665E-01	0.5295E-01	0.1798E-01	3.484	0.3719E-07	0.6935
3.710	0.4629	1.254	0.1852E-01	0.5226E-01	0.1812E-01	3.418	0.3555E-07	0.7211
3.710	1.900	0.6556	1.385	0.3931E-02	0.7586E-02	1.040	0.9980E-07	1.029
3.900	1.712	0.6631	1.304	0.3592E-02	0.7926E-02	1.085	0.1219E-06	0.9612
4.200	1.527	0.6713	1.225	0.3187E-02	0.8465E-02	1.153	0.1575E-06	0.8910
4.500	1.412	0.6765	1.175	0.2881E-02	0.8999E-02	1.220	0.1943E-06	0.8452
4.800	1.334	0.6797	1.141	0.2636E-02	0.9524E-02	1.284	0.2324E-06	0.8133
5.000	1.295	0.6810	1.124	0.2499E-02	0.9867E-02	1.327	0.2584E-06	0.7971
5.100	1.278	0.6815	1.117	0.2436E-02	0.1004E-01	1.348	0.2716E-06	0.7901
5.300	1.248	0.6823	1.104	0.2320E-02	0.1037E-01	1.389	0.2984E-06	0.7780
5.500	1.223	0.6827	1.093	0.2216E-02	0.1070E-01	1.430	0.3258E-06	0.7680
6.000	1.176	0.6830	1.072	0.1997E-02	0.1149E-01	1.529	0.3965E-06	0.7491
6.500	1.143	0.6826	1.057	0.1820E-02	0.1224E-01	1.625	0.4704E-06	0.7363
7.000	1.119	0.6819	1.047	0.1673E-02	0.1297E-01	1.718	0.5474E-06	0.7273
8.000	1.085	0.6802	1.032	0.1445E-02	0.1433E-01	1.896	0.7107E-06	0.7163
9.000	1.064	0.6786	1.023	0.1273E-02	0.1559E-01	2.066	0.8854E-06	0.7108
10.00	1.050	0.6771	1.017	0.1139E-02	0.1676E-01	2.227	0.1071E-05	0.7083
12.00	1.032	0.6750	1.009	0.9420E-03	0.1892E-01	2.531	0.1473E-05	0.7073
15.00	1.018	0.6728	1.004	0.7496E-03	0.2183E-01	2.947	0.2149E-05	0.7094
20.00	1.008	0.6708	1.000	0.5602E-03	0.2614E-01	3.566	0.3461E-05	0.7132
25.00	1.004	0.6697	0.9991	0.4476E-03	0.3003E-01	4.118	0.4990E-05	0.7149
30.00	1.002	0.6691	0.9986	0.3728E-03	0.3367E-01	4.622	0.6724E-05	0.7150
40.00	0.9999	0.6683	0.9984	0.2796E-03	0.4040E-01	5.533	0.1078E-04	0.7122
50.00	0.9993	0.6679	0.9985	0.2237E-03	0.4664E-01	6.353	0.1556E-04	0.7079
60.00	0.9991	0.6676	0.9987	0.1864E-03	0.5252E-01	7.110	0.2102E-04	0.7034
80.00	0.9991	0.6673	0.9989	0.1398E-03	0.6348E-01	8.497	0.3389E-04	0.6953
100.0	0.9992	0.6672	0.9991	0.1119E-03	0.7368E-01	9.773	0.4916E-04	0.6889
120.0	0.9993	0.6671	0.9993	0.9326E-04	0.8330E-01	10.79	0.6668E-04	0.6727
140.0	0.9994	0.6670	0.9994	0.7994E-04	0.9247E-01	11.94	0.8635E-04	0.6706
160.0	0.9994	0.6669	0.9995	0.6996E-04	0.1013	13.04	0.1081E-03	0.6690
180.0	0.9995	0.6669	0.9995	0.6219E-04	0.1097	14.11	0.1317E-03	0.6676
200.0	0.9995	0.6669	0.9996	0.5597E-04	0.1180	15.14	0.1573E-03	0.6666
220.0	0.9996	0.6669	0.9996	0.5089E-04	0.1259	16.14	0.1848E-03	0.6657
240.0	0.9996	0.6668	0.9996	0.4665E-04	0.1337	17.12	0.2140E-03	0.6650
260.0	0.9996	0.6668	0.9997	0.4306E-04	0.1413	18.08	0.2450E-03	0.6644
280.0	0.9997	0.6668	0.9997	0.3998E-04	0.1487	19.01	0.2776E-03	0.6640
300.0	0.9997	0.6668	0.9997	0.3732E-04	0.1559	19.93	0.3120E-03	0.6636
350.0	0.9997	0.6668	0.9998	0.3199E-04	0.1735	22.15	0.4049E-03	0.6630
400.0	0.9998	0.6668	0.9998	0.2799E-04	0.1903	24.29	0.5077E-03	0.6627
500.0	0.9998	0.6667	0.9998	0.2239E-04	0.2223	28.36	0.7410E-03	0.6626
600.0	0.9999	0.6667	0.9999	0.1866E-04	0.2524	32.21	0.1010E-02	0.6629
700.0	0.9999	0.6667	0.9999	0.1600E-04	0.2810	35.89	0.1312E-02	0.6633
800.0	0.9999	0.6667	0.9999	0.1400E-04	0.3085	39.43	0.1645E-02	0.6638
900.0	0.9999	0.6667	0.9999	0.1244E-04	0.3350	42.85	0.2010E-02	0.6643
1000.	0.9999	0.6667	0.9999	0.1120E-04	0.3606	46.16	0.2404E-02	0.6648
1100.	0.9999	0.6667	0.9999	0.1018E-04	0.3854	49.38	0.2827E-02	0.6653
1200.	0.9999	0.6667	0.9999	0.9332E-05	0.4097	52.52	0.3277E-02	0.6658
1300.	0.9999	0.6667	0.9999	0.8614E-05	0.4333	55.59	0.3755E-02	0.6663
1400.	0.9999	0.6667	1.000	0.7999E-05	0.4564	58.60	0.4260E-02	0.6668
1500.	1.000	0.6667	1.000	0.7466E-05	0.4790	61.55	0.4790E-02	0.6673

PRESSURE = 0.080 [MPa]

	TEMP [K]	DENSITY [kg/m³]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	146.6	0.3285	0.4213E-02	0.5501	0.4423E-02	0.2238E-01	0.2239E-01	243.2
	1.000	146.5	0.2628	0.1503E-01	0.5610	0.1622E-01	0.1019	0.1019	243.3
	1.200	146.5	0.2190	0.5420E-01	0.6001	0.5132E-01	0.3213	0.3213	243.6
	1.400	146.6	0.1877	0.1600	0.7058	0.1318	0.7850	0.7854	243.6
	1.600	146.7	0.1641	0.3929	0.9384	0.2859	1.610	1.611	242.3
	1.800	146.8	0.1457	0.8395	1.384	0.5470	2.949	2.954	238.8
	2.000	147.1	0.1309	1.636	2.180	0.9639	5.216	5.235	232.3
1	2.070	147.3	0.1263	2.046	2.589	1.165	6.535	6.570	229.4
2	2.160	147.6	0.1208	2.773	3.315	1.508	10.52	10.66	225.3
3	2.169	147.7	0.1203	2.878	3.420	1.556	13.32	13.63	224.6
3	2.171	147.7	0.1201	2.903	3.445	1.568	8.139	8.180	225.2
2	2.180	147.7	0.1196	2.958	3.499	1.593	5.130	5.130	226.0
1	2.270	147.5	0.1150	3.266	3.809	1.732	2.714	2.766	227.7
	2.400	147.0	0.1092	3.587	4.131	1.870	2.189	2.301	228.7
	2.700	145.3	0.9819E-01	4.248	4.799	2.133	2.008	2.279	225.9
	3.000	142.8	0.8988E-01	4.950	5.510	2.382	2.028	2.521	221.5
	3.300	139.7	0.8353E-01	5.759	6.332	2.643	2.205	2.977	214.1
	3.600	135.8	0.7877E-01	6.715	7.304	2.924	2.362	3.518	203.8
	3.900	130.8	0.7548E-01	7.847	8.458	3.232	2.475	4.219	190.7
L	3.980	129.3	0.7486E-01	8.187	8.806	3.320	2.499	4.464	186.6
V	3.980	13.30	0.7274	24.66	30.67	8.803	3.288	8.175	99.19
	4.200	11.92	0.7694	25.66	32.38	9.220	3.246	7.417	105.3
	4.500	10.55	0.8113	26.92	34.50	9.710	3.202	6.819	112.4
	4.800	9.528	0.8421	28.09	36.49	10.14	3.171	6.453	118.6
	5.000	8.971	0.8586	28.85	37.76	10.40	3.157	6.281	122.4
	5.100	8.722	0.8658	29.21	38.39	10.52	3.150	6.209	124.2
	5.300	8.269	0.8788	29.94	39.62	10.76	3.140	6.087	127.6
	5.500	7.867	0.8900	30.65	40.82	10.98	3.133	5.988	130.9
	6.000	7.036	0.9123	32.40	43.77	11.49	3.121	5.808	138.6
	6.500	6.379	0.9288	34.10	46.64	11.95	3.115	5.687	145.6
	7.000	5.845	0.9414	35.77	49.46	12.37	3.113	5.602	152.2
	8.000	5.020	0.9590	39.07	55.00	13.11	3.112	5.491	164.2
	9.000	4.410	0.9704	42.32	60.46	13.75	3.114	5.423	175.1
	10.00	3.937	0.9782	45.54	65.86	14.32	3.115	5.377	185.2
	12.00	3.249	0.9878	51.93	76.55	15.30	3.118	5.320	203.7
	15.00	2.581	0.9950	61.43	92.43	16.48	3.119	5.274	228.4
	20.00	1.926	0.9996	77.17	118.7	17.99	3.120	5.239	264.0
	25.00	1.539	1.001	92.85	144.8	19.16	3.119	5.222	295.2
	30.00	1.281	1.002	108.5	170.9	20.11	3.119	5.213	323.3
	40.00	0.9608	1.002	139.7	223.0	21.61	3.118	5.203	373.1
	50.00	0.7687	1.002	171.0	275.0	22.77	3.118	5.199	417.0
	60.00	0.6407	1.002	202.1	327.0	23.72	3.117	5.197	456.6
	80.00	0.4807	1.001	264.5	430.9	25.21	3.117	5.195	527.0
	100.0	0.3847	1.001	326.8	534.8	26.37	3.117	5.194	589.1
	120.0	0.3206	1.001	389.2	638.7	27.32	3.116	5.194	645.2
	140.0	0.2749	1.001	451.5	742.6	28.12	3.116	5.193	696.8
	160.0	0.2405	1.001	513.8	846.4	28.81	3.116	5.193	744.8
	180.0	0.2138	1.001	576.1	950.3	29.42	3.116	5.193	789.9
	200.0	0.1925	1.001	638.5	1054.	29.97	3.116	5.193	832.6
	220.0	0.1750	1.001	700.8	1158.	30.46	3.116	5.193	873.1
	240.0	0.1604	1.000	763.1	1262.	30.92	3.116	5.193	911.9
	260.0	0.1481	1.000	825.4	1366.	31.33	3.116	5.193	949.1
	280.0	0.1375	1.000	887.7	1470.	31.72	3.116	5.193	984.9
	300.0	0.1283	1.000	950.1	1573.	32.08	3.116	5.193	1019.
	350.0	0.1100	1.000	1106.	1833.	32.88	3.116	5.193	1101.
	400.0	0.9626E-01	1.000	1262.	2093.	33.57	3.116	5.193	1177.
	500.0	0.7701E-01	1.000	1573.	2612.	34.73	3.116	5.193	1316.
	600.0	0.6418E-01	1.000	1885.	3131.	35.67	3.116	5.193	1441.
	700.0	0.5501E-01	1.000	2196.	3651.	36.48	3.116	5.193	1557.
	800.0	0.4814E-01	1.000	2508.	4170.	37.17	3.116	5.193	1664.
	900.0	0.4279E-01	1.000	2820.	4689.	37.78	3.116	5.193	1765.
	1000.	0.3851E-01	1.000	3131.	5209.	38.33	3.116	5.193	1861.
	1100.	0.3501E-01	1.000	3443.	5728.	38.82	3.116	5.193	1952.
	1200.	0.3209E-01	1.000	3754.	6247.	39.27	3.116	5.193	2038.
	1300.	0.2962E-01	1.000	4066.	6766.	39.69	3.116	5.193	2122.
	1400.	0.2751E-01	1.000	4377.	7286.	40.07	3.116	5.193	2202.
	1500.	0.2567E-01	1.000	4689.	7805.	40.43	3.116	5.193	2279.

PRESSURE = 0.080 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_v$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	0.4657E-03	1.537	0.9237E-02	0.5751E-01				
1.000	0.2647E-03	0.1539	0.9222E-02	0.5750E-01				
1.200	-0.8117E-03	-0.1250	0.9197E-02	0.5750E-01				
1.400	-0.2973E-02	-0.1605	0.9202E-02	0.5752E-01				
1.600	-0.6548E-02	-0.1492	0.9297E-02	0.5755E-01				
1.800	-0.1277E-01	-0.1370	0.9569E-02	0.5762E-01				
2.000	-0.2663E-01	-0.1373	0.1011E-01	0.5773E-01				
2.070	-0.3689E-01	-0.1428	0.1037E-01	0.5779E-01				
2.160	-0.7866E-01	-0.1733	0.1082E-01	0.5792E-01				
2.169	-0.1174	-0.2003	0.1099E-01	0.5794E-01				
2.171	-0.4199E-01	-0.1199	0.1074E-01	0.5795E-01				
2.180	0.1814E-02	0.8282E-02	0.1061E-01	0.5795E-01				
2.270	0.4812E-01	0.3973	0.1066E-01	0.5788E-01				
2.400	0.7335E-01	0.6947	0.1094E-01	0.5768E-01				
2.700	0.1276	1.058	0.1225E-01	0.5700E-01				
3.000	0.1935	1.255	0.1420E-01	0.5603E-01				
3.300	0.2739	1.278	0.1687E-01	0.5479E-01				
3.600	0.3862	1.267	0.2111E-01	0.5325E-01	0.1809E-01	3.530	0.3786E-07	0.6864
3.900	0.5645	1.248	0.2865E-01	0.5127E-01	0.1842E-01	3.345	0.3337E-07	0.7660
3.980	0.6334	1.241	0.3176E-01	0.5065E-01	0.1846E-01	3.290	0.3200E-07	0.7954
3.980	2.217	0.6704	1.520	0.5163E-02	0.8309E-02	1.144	0.7641E-07	1.126
4.200	1.899	0.6763	1.383	0.4625E-02	0.8675E-02	1.190	0.9815E-07	1.018
4.500	1.656	0.6820	1.278	0.4094E-02	0.9184E-02	1.253	0.1277E-06	0.9303
4.800	1.510	0.6855	1.215	0.3697E-02	0.9691E-02	1.315	0.1576E-06	0.8759
5.000	1.441	0.6870	1.185	0.3481E-02	0.1002E-01	1.356	0.1779E-06	0.8498
5.100	1.412	0.6876	1.172	0.3384E-02	0.1019E-01	1.377	0.1881E-06	0.8389
5.300	1.363	0.6884	1.151	0.3208E-02	0.1051E-01	1.417	0.2089E-06	0.8204
5.500	1.323	0.6888	1.134	0.3052E-02	0.1083E-01	1.456	0.2299E-06	0.8052
6.000	1.250	0.6889	1.102	0.2729E-02	0.1160E-01	1.554	0.2840E-06	0.7776
6.500	1.200	0.6882	1.080	0.2475E-02	0.1234E-01	1.648	0.3403E-06	0.7592
7.000	1.164	0.6872	1.064	0.2267E-02	0.1306E-01	1.739	0.3988E-06	0.7463
8.000	1.116	0.6848	1.043	0.1947E-02	0.1440E-01	1.915	0.5225E-06	0.7302
9.000	1.087	0.6826	1.031	0.1710E-02	0.1565E-01	2.083	0.6546E-06	0.7215
10.00	1.067	0.6807	1.022	0.1527E-02	0.1682E-01	2.243	0.7946E-06	0.7169
12.00	1.042	0.6778	1.012	0.1260E-02	0.1897E-01	2.544	0.1098E-05	0.7134
15.00	1.024	0.6749	1.005	0.1001E-02	0.2187E-01	2.958	0.1607E-05	0.7134
20.00	1.010	0.6722	1.000	0.7470E-03	0.2617E-01	3.574	0.2593E-05	0.7155
25.00	1.005	0.6708	0.9987	0.5966E-03	0.3006E-01	4.124	0.3741E-05	0.7164
30.00	1.002	0.6699	0.9981	0.4969E-03	0.3369E-01	4.628	0.5044E-05	0.7160
40.00	0.9998	0.6689	0.9979	0.3725E-03	0.4042E-01	5.537	0.8085E-05	0.7128
50.00	0.9991	0.6683	0.9980	0.2981E-03	0.4666E-01	6.356	0.1167E-04	0.7083
60.00	0.9989	0.6680	0.9982	0.2484E-03	0.5253E-01	7.113	0.1578E-04	0.7037
80.00	0.9988	0.6676	0.9986	0.1864E-03	0.6350E-01	8.500	0.2543E-04	0.6954
100.0	0.9989	0.6673	0.9988	0.1491E-03	0.7370E-01	9.775	0.3688E-04	0.6890
120.0	0.9990	0.6672	0.9990	0.1243E-03	0.8332E-01	10.79	0.5003E-04	0.6727
140.0	0.9991	0.6671	0.9992	0.1066E-03	0.9248E-01	11.94	0.6479E-04	0.6706
160.0	0.9992	0.6670	0.9993	0.9326E-04	0.1013	13.05	0.8108E-04	0.6690
180.0	0.9993	0.6670	0.9994	0.8290E-04	0.1098	14.11	0.9884E-04	0.6676
200.0	0.9994	0.6670	0.9994	0.7462E-04	0.1180	15.14	0.1180E-03	0.6665
220.0	0.9994	0.6669	0.9995	0.6784E-04	0.1259	16.14	0.1386E-03	0.6657
240.0	0.9995	0.6669	0.9995	0.6219E-04	0.1337	17.12	0.1605E-03	0.6650
260.0	0.9995	0.6669	0.9996	0.5741E-04	0.1413	18.08	0.1838E-03	0.6644
280.0	0.9996	0.6669	0.9996	0.5331E-04	0.1487	19.01	0.2083E-03	0.6639
300.0	0.9996	0.6668	0.9996	0.4976E-04	0.1560	19.93	0.2340E-03	0.6636
350.0	0.9996	0.6668	0.9997	0.4265E-04	0.1735	22.15	0.3037E-03	0.6630
400.0	0.9997	0.6668	0.9997	0.3732E-04	0.1904	24.29	0.3808E-03	0.6627
500.0	0.9998	0.6668	0.9998	0.2986E-04	0.2223	28.36	0.5558E-03	0.6626
600.0	0.9998	0.6667	0.9998	0.2488E-04	0.2524	32.21	0.7573E-03	0.6628
700.0	0.9998	0.6667	0.9999	0.2133E-04	0.2810	35.89	0.9838E-03	0.6632
800.0	0.9999	0.6667	0.9999	0.1866E-04	0.3085	39.43	0.1234E-02	0.6637
900.0	0.9999	0.6667	0.9999	0.1659E-04	0.3350	42.85	0.1508E-02	0.6642
1000.	0.9999	0.6667	0.9999	0.1493E-04	0.3606	46.16	0.1803E-02	0.6648
1100.	0.9999	0.6667	0.9999	0.1357E-04	0.3855	49.38	0.2120E-02	0.6653
1200.	0.9999	0.6667	0.9999	0.1244E-04	0.4097	52.52	0.2458E-02	0.6658
1300.	0.9999	0.6667	0.9999	0.1149E-04	0.4333	55.59	0.2817E-02	0.6663
1400.	0.9999	0.6667	0.9999	0.1067E-04	0.4564	58.60	0.3195E-02	0.6668
1500.	0.9999	0.6667	0.9999	0.9954E-05	0.4790	61.55	0.3593E-02	0.6673

PRESSURE = 0.101325 [MPa]

	TEMP [K]	DENSITY [kg/m³]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	146.9	0.4150	0.5653E-02	0.6954	0.4338E-02	0.2235E-01	0.2237E-01	244.9
	1.000	146.9	0.3321	0.1649E-01	0.7063	0.1618E-01	0.1023	0.1023	244.9
	1.200	146.9	0.2767	0.5582E-01	0.7456	0.5142E-01	0.3224	0.3224	245.3
	1.400	146.9	0.2371	0.1619	0.8515	0.1322	0.7868	0.7872	245.4
	1.600	147.0	0.2073	0.3954	1.085	0.2865	1.612	1.614	244.2
	1.800	147.2	0.1841	0.8430	1.531	0.5481	2.953	2.959	240.6
	2.000	147.5	0.1653	1.641	2.328	0.9658	5.228	5.250	234.0
1	2.068	147.7	0.1597	2.040	2.726	1.161	6.510	6.548	231.2
2	2.158	148.0	0.1527	2.765	3.450	1.503	10.47	10.63	227.2
3	2.167	148.1	0.1520	2.870	3.554	1.552	13.25	13.58	226.5
3	2.169	148.1	0.1519	2.894	3.579	1.563	8.102	8.148	227.1
2	2.178	148.1	0.1512	2.949	3.633	1.588	5.105	5.105	227.9
1	2.268	147.9	0.1454	3.256	3.941	1.727	2.699	2.749	229.6
	2.400	147.4	0.1379	3.578	4.265	1.866	2.172	2.281	230.7
	2.700	145.7	0.1240	4.232	4.927	2.126	1.995	2.258	228.2
	3.000	143.4	0.1134	4.923	5.630	2.372	2.016	2.494	224.0
	3.300	140.3	0.1053	5.721	6.443	2.630	2.195	2.940	216.9
	3.600	136.6	0.9922E-01	6.659	7.401	2.908	2.352	3.460	207.1
	3.900	131.8	0.9489E-01	7.763	8.532	3.209	2.465	4.109	194.7
	4.200	125.5	0.9254E-01	9.096	9.904	3.548	2.546	5.145	178.4
L	4.222	124.9	0.9246E-01	9.208	10.02	3.575	2.552	5.255	177.0
V	4.222	16.84	0.6859	24.72	30.74	8.473	3.238	9.144	99.93
	4.500	14.52	0.7463	26.09	33.07	9.007	3.205	7.788	108.1
	4.800	12.84	0.7913	27.39	35.28	9.485	3.175	7.073	115.3
	5.000	11.98	0.8145	28.21	36.67	9.767	3.159	6.770	119.5
	5.100	11.60	0.8245	28.60	37.34	9.900	3.152	6.650	121.5
	5.300	10.93	0.8423	29.37	38.65	10.15	3.141	6.452	125.3
	5.500	10.34	0.8575	30.12	39.92	10.39	3.133	6.297	128.9
	6.000	9.164	0.8872	31.94	43.00	10.92	3.119	6.025	137.0
	6.500	8.257	0.9088	33.69	45.96	11.40	3.113	5.852	144.4
	7.000	7.532	0.9251	35.40	48.86	11.83	3.111	5.732	151.2
	8.000	6.433	0.9478	38.76	54.51	12.58	3.111	5.581	163.6
	9.000	5.631	0.9625	42.04	60.04	13.23	3.113	5.489	174.7
	10.00	5.016	0.9724	45.30	65.50	13.81	3.115	5.429	185.0
	12.00	4.128	0.9846	51.73	76.27	14.79	3.118	5.355	203.7
	15.00	3.273	0.9937	61.28	92.24	15.98	3.120	5.296	228.5
	20.00	2.440	0.9995	77.06	118.6	17.50	3.121	5.251	264.3
	25.00	1.948	1.002	92.77	144.8	18.66	3.120	5.229	295.5
	30.00	1.622	1.002	108.4	170.9	19.62	3.120	5.218	323.6
	40.00	1.216	1.003	139.7	223.0	21.12	3.119	5.206	373.4
	50.00	0.9732	1.002	170.9	275.0	22.28	3.118	5.201	417.3
	60.00	0.8112	1.002	202.1	327.0	23.22	3.118	5.198	456.9
	80.00	0.6086	1.002	264.5	431.0	24.72	3.117	5.196	527.2
	100.0	0.4871	1.001	326.8	534.9	25.88	3.117	5.194	589.3
	120.0	0.4060	1.001	389.2	638.8	26.83	3.117	5.194	645.3
	140.0	0.3481	1.001	451.5	742.6	27.63	3.116	5.193	696.9
	160.0	0.3046	1.001	513.8	846.5	28.32	3.116	5.193	744.9
	180.0	0.2708	1.001	576.2	950.4	28.93	3.116	5.193	790.0
	200.0	0.2437	1.001	638.5	1054.	29.48	3.116	5.193	832.7
	220.0	0.2216	1.001	700.8	1158.	29.97	3.116	5.193	873.3
	240.0	0.2031	1.001	763.1	1262.	30.43	3.116	5.193	912.0
	260.0	0.1875	1.001	825.4	1366.	30.84	3.116	5.193	949.2
	280.0	0.1741	1.000	887.7	1470.	31.23	3.116	5.193	985.0
	300.0	0.1625	1.000	950.1	1574.	31.58	3.116	5.193	1020.
	350.0	0.1393	1.000	1106.	1833.	32.39	3.116	5.193	1101.
	400.0	0.1219	1.000	1262.	2093.	33.08	3.116	5.193	1177.
	500.0	0.9753E-01	1.000	1573.	2612.	34.24	3.116	5.193	1316.
	600.0	0.8128E-01	1.000	1885.	3131.	35.18	3.116	5.193	1442.
	700.0	0.6967E-01	1.000	2196.	3651.	35.98	3.116	5.193	1557.
	800.0	0.6096E-01	1.000	2508.	4170.	36.68	3.116	5.193	1664.
	900.0	0.5419E-01	1.000	2820.	4689.	37.29	3.116	5.193	1765.
	1000.	0.4877E-01	1.000	3131.	5209.	37.84	3.116	5.193	1861.
	1100.	0.4434E-01	1.000	3443.	5728.	38.33	3.116	5.193	1952.
	1200.	0.4065E-01	1.000	3754.	6247.	38.78	3.116	5.193	2038.
	1300.	0.3752E-01	1.000	4066.	6767.	39.20	3.116	5.193	2122.
	1400.	0.3484E-01	1.000	4378.	7286.	39.58	3.116	5.193	2202.
	1500.	0.3252E-01	1.000	4689.	7805.	39.94	3.116	5.193	2279.

PRESSURE = 0.101325 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_v$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	0.4650E-03	1.558	0.1151E-01	0.5765E-01				
1.000	0.2956E-03	0.1733	0.1150E-01	0.5764E-01				
1.200	-0.7773E-03	-0.1209	0.1146E-01	0.5764E-01				
1.400	-0.3034E-02	-0.1658	0.1146E-01	0.5766E-01				
1.600	-0.6901E-02	-0.1593	0.1157E-01	0.5770E-01				
1.800	-0.1372E-01	-0.1490	0.1192E-01	0.5777E-01				
2.000	-0.2846E-01	-0.1484	0.1260E-01	0.5789E-01				
2.068	-0.3867E-01	-0.1527	0.1291E-01	0.5795E-01				
2.158	-0.8061E-01	-0.1814	0.1346E-01	0.5808E-01				
2.167	-0.1197	-0.2087	0.1367E-01	0.5811E-01				
2.169	-0.4396E-01	-0.1283	0.1334E-01	0.5811E-01				
2.178	0.3340E-03	0.1560E-02	0.1318E-01	0.5812E-01				
2.268	0.4671E-01	0.3950	0.1323E-01	0.5804E-01				
2.400	0.7175E-01	0.6977	0.1356E-01	0.5784E-01				
2.700	0.1241	1.060	0.1510E-01	0.5719E-01				
3.000	0.1880	1.261	0.1742E-01	0.5624E-01				
3.300	0.2647	1.283	0.2056E-01	0.5504E-01				
3.600	0.3697	1.274	0.2544E-01	0.5354E-01	0.1821E-01	3.577	0.3854E-07	0.6797
3.900	0.5310	1.257	0.3380E-01	0.5166E-01	0.1857E-01	3.396	0.3429E-07	0.7516
4.200	0.8323	1.226	0.5123E-01	0.4916E-01	0.1866E-01	3.185	0.2890E-07	0.8780
4.222	0.8662	1.223	0.5330E-01	0.4894E-01	0.1866E-01	3.167	0.2841E-07	0.8920
4.222	2.655	0.6869	1.701	0.6540E-02	0.9037E-02	1.245	0.5868E-07	1.260
4.500	2.072	0.6903	1.451	0.5638E-02	0.9449E-02	1.295	0.8353E-07	1.068
4.800	1.771	0.6933	1.323	0.4984E-02	0.9917E-02	1.353	0.1092E-06	0.9647
5.000	1.646	0.6946	1.269	0.4649E-02	0.1023E-01	1.391	0.1261E-06	0.9206
5.100	1.596	0.6950	1.248	0.4502E-02	0.1039E-01	1.410	0.1346E-06	0.9030
5.300	1.515	0.6957	1.213	0.4240E-02	0.1070E-01	1.449	0.1517E-06	0.8740
5.500	1.451	0.6959	1.186	0.4014E-02	0.1100E-01	1.487	0.1689E-06	0.8512
6.000	1.339	0.6957	1.137	0.3556E-02	0.1175E-01	1.581	0.2127E-06	0.8111
6.500	1.267	0.6945	1.106	0.3204E-02	0.1247E-01	1.673	0.2580E-06	0.7853
7.000	1.216	0.6931	1.084	0.2922E-02	0.1317E-01	1.763	0.3050E-06	0.7674
8.000	1.151	0.6899	1.056	0.2495E-02	0.1450E-01	1.936	0.4038E-06	0.7452
9.000	1.112	0.6870	1.039	0.2184E-02	0.1573E-01	2.101	0.5090E-06	0.7330
10.00	1.085	0.6845	1.028	0.1946E-02	0.1689E-01	2.259	0.6203E-06	0.7260
12.00	1.054	0.6807	1.015	0.1601E-02	0.1903E-01	2.558	0.8608E-06	0.7197
15.00	1.030	0.6771	1.006	0.1269E-02	0.2191E-01	2.969	0.1264E-05	0.7175
20.00	1.013	0.6737	1.000	0.9462E-03	0.2620E-01	3.582	0.2045E-05	0.7179
25.00	1.006	0.6719	0.9984	0.7554E-03	0.3009E-01	4.131	0.2954E-05	0.7180
30.00	1.003	0.6707	0.9976	0.6290E-03	0.3372E-01	4.634	0.3984E-05	0.7171
40.00	0.9998	0.6694	0.9974	0.4716E-03	0.4045E-01	5.542	0.6387E-05	0.7134
50.00	0.9989	0.6687	0.9975	0.3773E-03	0.4668E-01	6.360	0.9223E-05	0.7087
60.00	0.9985	0.6683	0.9978	0.3145E-03	0.5255E-01	7.117	0.1246E-04	0.7039
80.00	0.9985	0.6678	0.9982	0.2360E-03	0.6352E-01	8.503	0.2009E-04	0.6955
100.0	0.9986	0.6675	0.9985	0.1888E-03	0.7371E-01	9.778	0.2914E-04	0.6890
120.0	0.9988	0.6673	0.9988	0.1574E-03	0.8333E-01	10.79	0.3952E-04	0.6727
140.0	0.9989	0.6672	0.9989	0.1349E-03	0.9250E-01	11.94	0.5117E-04	0.6706
160.0	0.9990	0.6671	0.9991	0.1181E-03	0.1013	13.05	0.6404E-04	0.6690
180.0	0.9991	0.6671	0.9992	0.1050E-03	0.1098	14.11	0.7806E-04	0.6676
200.0	0.9992	0.6670	0.9993	0.9449E-04	0.1180	15.14	0.9322E-04	0.6665
220.0	0.9993	0.6670	0.9993	0.8591E-04	0.1260	16.14	0.1095E-03	0.6656
240.0	0.9993	0.6670	0.9994	0.7876E-04	0.1337	17.12	0.1268E-03	0.6649
260.0	0.9994	0.6669	0.9995	0.7270E-04	0.1413	18.08	0.1451E-03	0.6644
280.0	0.9994	0.6669	0.9995	0.6751E-04	0.1487	19.01	0.1645E-03	0.6639
300.0	0.9995	0.6669	0.9995	0.6301E-04	0.1560	19.93	0.1848E-03	0.6635
350.0	0.9996	0.6669	0.9996	0.5401E-04	0.1735	22.15	0.2399E-03	0.6630
400.0	0.9996	0.6668	0.9997	0.4727E-04	0.1904	24.29	0.3007E-03	0.6627
500.0	0.9997	0.6668	0.9997	0.3782E-04	0.2223	28.36	0.4389E-03	0.6626
600.0	0.9998	0.6668	0.9998	0.3151E-04	0.2524	32.22	0.5980E-03	0.6628
700.0	0.9998	0.6667	0.9998	0.2701E-04	0.2811	35.89	0.7768E-03	0.6632
800.0	0.9998	0.6667	0.9999	0.2364E-04	0.3085	39.43	0.9745E-03	0.6637
900.0	0.9998	0.6667	0.9999	0.2101E-04	0.3350	42.85	0.1190E-02	0.6642
1000.	0.9999	0.6667	0.9999	0.1891E-04	0.3606	46.16	0.1424E-02	0.6647
1100.	0.9999	0.6667	0.9999	0.1719E-04	0.3855	49.38	0.1674E-02	0.6653
1200.	0.9999	0.6667	0.9999	0.1576E-04	0.4097	52.52	0.1941E-02	0.6658
1300.	0.9999	0.6667	0.9999	0.1455E-04	0.4333	55.59	0.2224E-02	0.6663
1400.	0.9999	0.6667	0.9999	0.1351E-04	0.4564	58.60	0.2523E-02	0.6668
1500.	0.9999	0.6667	0.9999	0.1261E-04	0.4790	61.55	0.2837E-02	0.6673

PRESSURE = 0.120 [MPa]

	TEMP [K]	DENSITY [kg/m³]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	147.2	0.4905	0.7179E-02	0.8223	0.4265E-02	0.2231E-01	0.2233E-01	246.4
	1.000	147.2	0.3924	0.1804E-01	0.8332	0.1614E-01	0.1027	0.1027	246.4
	1.200	147.2	0.3270	0.5750E-01	0.8726	0.5150E-01	0.3233	0.3233	246.8
	1.400	147.2	0.2802	0.1639	0.9789	0.1324	0.7884	0.7888	246.9
	1.600	147.3	0.2450	0.3979	1.212	0.2871	1.615	1.617	245.7
	1.800	147.5	0.2175	0.8464	1.660	0.5491	2.957	2.964	242.0
	2.000	147.9	0.1954	1.647	2.458	0.9677	5.238	5.263	235.4
1	2.066	148.0	0.1889	2.035	2.846	1.158	6.487	6.529	232.8
2	2.156	148.4	0.1806	2.758	3.567	1.499	10.43	10.59	228.8
3	2.165	148.4	0.1798	2.863	3.671	1.548	13.19	13.54	228.1
3	2.167	148.4	0.1796	2.887	3.696	1.559	8.070	8.120	228.8
2	2.176	148.4	0.1788	2.942	3.750	1.584	5.083	5.083	229.5
1	2.266	148.3	0.1719	3.247	4.056	1.722	2.686	2.734	231.3
	2.400	147.8	0.1629	3.571	4.383	1.862	2.157	2.264	232.5
	2.700	146.1	0.1464	4.218	5.039	2.120	1.984	2.240	230.3
	3.000	143.8	0.1339	4.902	5.736	2.364	2.006	2.472	226.2
	3.300	140.9	0.1243	5.689	6.541	2.620	2.186	2.910	219.3
	3.600	137.2	0.1170	6.614	7.488	2.894	2.344	3.413	209.9
	3.900	132.6	0.1117	7.695	8.600	3.190	2.456	4.025	198.1
	4.200	126.6	0.1086	8.986	9.933	3.519	2.536	4.950	182.8
L	4.407	121.1	0.1083	10.08	11.07	3.782	2.585	6.137	168.8
V	4.407	20.17	0.6499	24.66	30.61	8.208	3.198	10.34	100.3
	4.500	18.96	0.6772	25.20	31.53	8.414	3.193	9.407	103.5
	4.800	16.24	0.7412	26.70	34.09	8.965	3.171	7.887	112.0
	5.000	14.97	0.7721	27.59	35.61	9.276	3.157	7.361	116.8
	5.100	14.43	0.7852	28.01	36.33	9.420	3.150	7.165	119.0
	5.300	13.49	0.8081	28.84	37.73	9.689	3.140	6.858	123.1
	5.500	12.70	0.8273	29.63	39.08	9.939	3.131	6.628	127.0
	6.000	11.14	0.8644	31.52	42.29	10.50	3.117	6.245	135.7
	6.500	9.976	0.8909	33.32	45.35	10.99	3.111	6.012	143.4
	7.000	9.062	0.9107	35.07	48.32	11.43	3.108	5.856	150.4
	8.000	7.699	0.9380	38.48	54.07	12.19	3.109	5.663	163.1
	9.000	6.718	0.9555	41.80	59.67	12.85	3.112	5.549	174.4
	10.00	5.972	0.9674	45.08	65.18	13.44	3.114	5.475	184.9
	12.00	4.903	0.9819	51.55	76.03	14.42	3.118	5.385	203.7
	15.00	3.880	0.9925	61.14	92.07	15.62	3.121	5.315	228.7
	20.00	2.890	0.9995	76.97	118.5	17.14	3.122	5.261	264.5
	25.00	2.306	1.002	92.70	144.7	18.31	3.121	5.236	295.7
	30.00	1.920	1.003	108.4	170.9	19.26	3.121	5.222	323.8
	40.00	1.440	1.003	139.7	223.0	20.76	3.119	5.209	373.7
	50.00	1.152	1.003	170.9	275.1	21.92	3.119	5.202	417.5
	60.00	0.9603	1.003	202.1	327.1	22.87	3.118	5.199	457.1
	80.00	0.7206	1.002	264.5	431.0	24.37	3.117	5.196	527.4
	100.0	0.5767	1.002	326.8	534.9	25.53	3.117	5.195	589.4
	120.0	0.4807	1.001	389.2	638.8	26.47	3.117	5.194	645.5
	140.0	0.4121	1.001	451.5	742.7	27.28	3.117	5.194	697.0
	160.0	0.3607	1.001	513.8	846.6	27.97	3.116	5.193	745.0
	180.0	0.3206	1.001	576.2	950.4	28.58	3.116	5.193	790.1
	200.0	0.2886	1.001	638.5	1054.	29.13	3.116	5.193	832.8
	220.0	0.2624	1.001	700.8	1158.	29.62	3.116	5.193	873.4
	240.0	0.2405	1.001	763.1	1262.	30.07	3.116	5.193	912.1
	260.0	0.2220	1.001	825.4	1366.	30.49	3.116	5.193	949.3
	280.0	0.2062	1.001	887.8	1470.	30.87	3.116	5.193	985.1
	300.0	0.1925	1.001	950.1	1574.	31.23	3.116	5.193	1020.
	350.0	0.1650	1.000	1106.	1833.	32.03	3.116	5.193	1101.
	400.0	0.1444	1.000	1262.	2093.	32.73	3.116	5.193	1177.
	500.0	0.1155	1.000	1573.	2612.	33.89	3.116	5.193	1316.
	600.0	0.9626E-01	1.000	1885.	3131.	34.83	3.116	5.193	1442.
	700.0	0.8251E-01	1.000	2196.	3651.	35.63	3.116	5.193	1557.
	800.0	0.7220E-01	1.000	2508.	4170.	36.33	3.116	5.193	1664.
	900.0	0.6418E-01	1.000	2820.	4689.	36.94	3.116	5.193	1765.
	1000.	0.5776E-01	1.000	3131.	5209.	37.49	3.116	5.193	1861.
	1100.	0.5251E-01	1.000	3443.	5728.	37.98	3.116	5.193	1952.
	1200.	0.4814E-01	1.000	3754.	6247.	38.43	3.116	5.193	2038.
	1300.	0.4443E-01	1.000	4066.	6767.	38.85	3.116	5.193	2122.
	1400.	0.4126E-01	1.000	4378.	7286.	39.23	3.116	5.193	2202.
	1500.	0.3851E-01	1.000	4689.	7805.	39.59	3.116	5.193	2279.

PRESSURE = 0.120 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_v$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	0.4570E-03	1.554	0.1343E-01	0.5777E-01				
1.000	0.3204E-03	0.1894	0.1343E-01	0.5777E-01				
1.200	-0.7420E-03	-0.1165	0.1339E-01	0.5777E-01				
1.400	-0.3080E-02	-0.1700	0.1338E-01	0.5778E-01				
1.600	-0.7208E-02	-0.1681	0.1351E-01	0.5782E-01				
1.800	-0.1455E-01	-0.1597	0.1392E-01	0.5789E-01				
2.000	-0.3003E-01	-0.1581	0.1471E-01	0.5802E-01				
2.066	-0.4015E-01	-0.1613	0.1506E-01	0.5809E-01				
2.156	-0.8224E-01	-0.1885	0.1569E-01	0.5823E-01				
2.165	-0.1217	-0.2160	0.1595E-01	0.5825E-01				
2.167	-0.4568E-01	-0.1358	0.1554E-01	0.5825E-01				
2.176	-0.9403E-03	-0.4478E-02	0.1534E-01	0.5826E-01				
2.266	0.4551E-01	0.3930	0.1540E-01	0.5819E-01				
2.400	0.7044E-01	0.7006	0.1577E-01	0.5799E-01				
2.700	0.1213	1.063	0.1748E-01	0.5735E-01				
3.000	0.1835	1.266	0.2009E-01	0.5642E-01				
3.300	0.2572	1.288	0.2357E-01	0.5525E-01				
3.600	0.3567	1.279	0.2891E-01	0.5379E-01	0.1831E-01	3.618	0.3911E-07	0.6744
3.900	0.5056	1.264	0.3780E-01	0.5197E-01	0.1870E-01	3.440	0.3503E-07	0.7406
4.200	0.7695	1.237	0.5534E-01	0.4961E-01	0.1883E-01	3.236	0.3004E-07	0.8506
4.407	1.142	1.203	0.8254E-01	0.4742E-01	0.1876E-01	3.067	0.2524E-07	1.003
4.407	3.181	0.7021	1.913	0.7833E-02	0.9690E-02	1.330	0.4646E-07	1.419
4.500	2.774	0.7016	1.742	0.7362E-02	0.9789E-02	1.342	0.5489E-07	1.290
4.800	2.119	0.7020	1.465	0.6304E-02	0.1018E-01	1.390	0.7948E-07	1.077
5.000	1.896	0.7025	1.371	0.5809E-02	0.1046E-01	1.425	0.9496E-07	1.003
5.100	1.814	0.7027	1.336	0.5600E-02	0.1060E-01	1.443	0.1026E-06	0.9753
5.300	1.685	0.7029	1.282	0.5235E-02	0.1089E-01	1.479	0.1177E-06	0.9316
5.500	1.589	0.7029	1.241	0.4927E-02	0.1118E-01	1.516	0.1328E-06	0.8988
6.000	1.429	0.7020	1.173	0.4323E-02	0.1189E-01	1.607	0.1709E-06	0.8440
6.500	1.331	0.7003	1.131	0.3871E-02	0.1259E-01	1.696	0.2099E-06	0.8100
7.000	1.266	0.6984	1.103	0.3516E-02	0.1327E-01	1.784	0.2501E-06	0.7870
8.000	1.183	0.6944	1.068	0.2987E-02	0.1459E-01	1.954	0.3346E-06	0.7586
9.000	1.134	0.6909	1.047	0.2606E-02	0.1581E-01	2.117	0.4242E-06	0.7430
10.00	1.102	0.6879	1.034	0.2316E-02	0.1696E-01	2.274	0.5188E-06	0.7339
12.00	1.064	0.6834	1.018	0.1902E-02	0.1909E-01	2.570	0.7228E-06	0.7251
15.00	1.035	0.6790	1.007	0.1505E-02	0.2196E-01	2.979	0.1065E-05	0.7210
20.00	1.015	0.6750	1.000	0.1121E-02	0.2623E-01	3.590	0.1725E-05	0.7199
25.00	1.007	0.6728	0.9981	0.8944E-03	0.3012E-01	4.137	0.2494E-05	0.7193
30.00	1.003	0.6715	0.9972	0.7446E-03	0.3374E-01	4.639	0.3365E-05	0.7180
40.00	0.9998	0.6699	0.9969	0.5583E-03	0.4047E-01	5.546	0.5396E-05	0.7139
50.00	0.9987	0.6691	0.9971	0.4467E-03	0.4670E-01	6.364	0.7792E-05	0.7090
60.00	0.9983	0.6686	0.9973	0.3723E-03	0.5257E-01	7.120	0.1053E-04	0.7041
80.00	0.9982	0.6680	0.9979	0.2794E-03	0.6354E-01	8.506	0.1697E-04	0.6956
100.0	0.9984	0.6677	0.9982	0.2236E-03	0.7373E-01	9.780	0.2461E-04	0.6891
120.0	0.9985	0.6675	0.9985	0.1864E-03	0.8335E-01	10.80	0.3338E-04	0.6727
140.0	0.9987	0.6673	0.9987	0.1598E-03	0.9251E-01	11.95	0.4322E-04	0.6707
160.0	0.9988	0.6672	0.9989	0.1398E-03	0.1013	13.05	0.5409E-04	0.6689
180.0	0.9990	0.6672	0.9990	0.1243E-03	0.1098	14.11	0.6593E-04	0.6676
200.0	0.9991	0.6671	0.9991	0.1119E-03	0.1180	15.14	0.7873E-04	0.6665
220.0	0.9991	0.6671	0.9992	0.1017E-03	0.1260	16.15	0.9245E-04	0.6656
240.0	0.9992	0.6670	0.9993	0.9326E-04	0.1337	17.12	0.1071E-03	0.6649
260.0	0.9993	0.6670	0.9994	0.8609E-04	0.1413	18.08	0.1226E-03	0.6643
280.0	0.9993	0.6670	0.9994	0.7995E-04	0.1487	19.01	0.1389E-03	0.6639
300.0	0.9994	0.6669	0.9995	0.7462E-04	0.1560	19.93	0.1561E-03	0.6635
350.0	0.9995	0.6669	0.9995	0.6397E-04	0.1735	22.15	0.2026E-03	0.6629
400.0	0.9995	0.6669	0.9996	0.5597E-04	0.1904	24.29	0.2539E-03	0.6626
500.0	0.9996	0.6668	0.9997	0.4478E-04	0.2223	28.36	0.3706E-03	0.6625
600.0	0.9997	0.6668	0.9998	0.3732E-04	0.2524	32.22	0.5050E-03	0.6628
700.0	0.9998	0.6668	0.9998	0.3199E-04	0.2811	35.89	0.6560E-03	0.6632
800.0	0.9998	0.6668	0.9998	0.2799E-04	0.3085	39.43	0.8229E-03	0.6637
900.0	0.9998	0.6667	0.9998	0.2488E-04	0.3350	42.85	0.1005E-02	0.6642
1000.	0.9998	0.6667	0.9999	0.2239E-04	0.3606	46.16	0.1202E-02	0.6647
1100.	0.9999	0.6667	0.9999	0.2036E-04	0.3855	49.38	0.1414E-02	0.6653
1200.	0.9999	0.6667	0.9999	0.1866E-04	0.4097	52.52	0.1639E-02	0.6658
1300.	0.9999	0.6667	0.9999	0.1723E-04	0.4333	55.59	0.1878E-02	0.6663
1400.	0.9999	0.6667	0.9999	0.1600E-04	0.4564	58.60	0.2130E-02	0.6668
1500.	0.9999	0.6667	0.9999	0.1493E-04	0.4790	61.55	0.2395E-02	0.6672

PRESSURE = 0.140 [MPa]

	TEMP [K]	DENSITY [kg/m³]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	147.5	0.5710	0.9077E-02	0.9579	0.4188E-02	0.2224E-01	0.2226E-01	248.1
	1.000	147.5	0.4568	0.1995E-01	0.9689	0.1610E-01	0.1031	0.1031	248.0
	1.200	147.5	0.3807	0.5955E-01	1.008	0.5158E-01	0.3243	0.3244	248.4
	1.400	147.6	0.3262	0.1663	1.115	0.1327	0.7903	0.7907	248.4
	1.600	147.7	0.2852	0.4009	1.349	0.2877	1.618	1.620	247.2
	1.800	147.9	0.2532	0.8505	1.797	0.5502	2.962	2.970	243.5
	2.000	148.2	0.2274	1.653	2.598	0.9698	5.249	5.277	237.0
1	2.064	148.4	0.2200	2.030	2.974	1.155	6.462	6.508	234.5
2	2.154	148.7	0.2103	2.751	3.693	1.495	10.38	10.55	230.5
3	2.163	148.8	0.2094	2.856	3.796	1.543	13.12	13.49	229.8
3	2.165	148.8	0.2092	2.880	3.821	1.555	8.037	8.092	230.5
2	2.174	148.8	0.2083	2.934	3.875	1.579	5.060	5.060	231.3
1	2.264	148.7	0.2002	3.238	4.180	1.717	2.672	2.718	233.1
	2.400	148.2	0.1895	3.564	4.508	1.858	2.142	2.246	234.3
	2.700	146.6	0.1703	4.204	5.160	2.114	1.972	2.221	232.4
	3.000	144.3	0.1557	4.880	5.850	2.356	1.996	2.450	228.5
	3.300	141.4	0.1444	5.657	6.647	2.609	2.177	2.879	221.9
	3.600	137.8	0.1358	6.567	7.583	2.880	2.335	3.367	212.8
	3.900	133.4	0.1295	7.627	8.676	3.171	2.447	3.945	201.5
	4.200	127.8	0.1256	8.878	9.974	3.492	2.526	4.777	187.2
	4.500	119.8	0.1250	10.45	11.62	3.870	2.594	6.468	167.4
L	4.584	116.8	0.1259	11.00	12.20	3.997	2.615	7.436	160.1
V	4.584	24.09	0.6105	24.47	30.28	7.933	3.158	12.26	100.5
	4.800	20.71	0.6779	25.80	32.56	8.420	3.157	9.406	108.0
	5.000	18.70	0.7210	26.83	34.32	8.779	3.148	8.309	113.5
	5.100	17.89	0.7386	27.31	35.13	8.940	3.144	7.952	116.0
	5.300	16.55	0.7685	28.21	36.67	9.235	3.134	7.434	120.7
	5.500	15.45	0.7929	29.06	38.12	9.504	3.127	7.074	124.9
	6.000	13.39	0.8389	31.05	41.50	10.09	3.114	6.519	134.1
	6.500	11.90	0.8712	32.91	44.68	10.60	3.108	6.203	142.2
	7.000	10.76	0.8950	34.71	47.72	11.05	3.106	5.999	149.5
	8.000	9.084	0.9274	38.18	53.59	11.84	3.107	5.755	162.5
	9.000	7.899	0.9480	41.54	59.27	12.51	3.110	5.615	174.1
	10.00	7.006	0.9619	44.85	64.83	13.09	3.114	5.526	184.7
	12.00	5.738	0.9789	51.37	75.77	14.09	3.119	5.419	203.8
	15.00	4.533	0.9913	61.00	91.88	15.29	3.122	5.336	228.8
	20.00	3.372	0.9994	76.86	118.4	16.81	3.123	5.273	264.7
	25.00	2.690	1.002	92.62	144.7	17.99	3.122	5.243	296.0
	30.00	2.239	1.003	108.3	170.8	18.94	3.121	5.227	324.1
	40.00	1.679	1.004	139.6	223.0	20.44	3.120	5.211	373.9
	50.00	1.343	1.003	170.9	275.1	21.60	3.119	5.204	417.7
	60.00	1.120	1.003	202.1	327.1	22.55	3.118	5.200	457.3
	80.00	0.8404	1.002	264.5	431.1	24.05	3.118	5.196	527.6
	100.0	0.6726	1.002	326.8	535.0	25.21	3.117	5.195	589.6
	120.0	0.5607	1.002	389.2	638.9	26.15	3.117	5.194	645.6
	140.0	0.4807	1.001	451.5	742.7	26.96	3.117	5.194	697.2
	160.0	0.4207	1.001	513.8	846.6	27.65	3.116	5.193	745.2
	180.0	0.3740	1.001	576.2	950.5	28.26	3.116	5.193	790.2
	200.0	0.3366	1.001	638.5	1054.	28.81	3.116	5.193	832.9
	220.0	0.3061	1.001	700.8	1158.	29.30	3.116	5.193	873.5
	240.0	0.2806	1.001	763.1	1262.	29.75	3.116	5.193	912.2
	260.0	0.2590	1.001	825.4	1366.	30.17	3.116	5.193	949.4
	280.0	0.2405	1.001	887.8	1470.	30.55	3.116	5.193	985.2
	300.0	0.2245	1.001	950.1	1574.	30.91	3.116	5.193	1020.
	350.0	0.1925	1.001	1106.	1833.	31.71	3.116	5.193	1101.
	400.0	0.1684	1.000	1262.	2093.	32.41	3.116	5.193	1177.
	500.0	0.1347	1.000	1573.	2612.	33.57	3.116	5.193	1316.
	600.0	0.1123	1.000	1885.	3132.	34.51	3.116	5.193	1442.
	700.0	0.9626E-01	1.000	2196.	3651.	35.31	3.116	5.193	1557.
	800.0	0.8423E-01	1.000	2508.	4170.	36.01	3.116	5.193	1665.
	900.0	0.7487E-01	1.000	2820.	4689.	36.62	3.116	5.193	1765.
	1000.	0.6739E-01	1.000	3131.	5209.	37.17	3.116	5.193	1861.
	1100.	0.6126E-01	1.000	3443.	5728.	37.66	3.116	5.193	1952.
	1200.	0.5616E-01	1.000	3754.	6247.	38.11	3.116	5.193	2038.
	1300.	0.5184E-01	1.000	4066.	6767.	38.53	3.116	5.193	2122.
	1400.	0.4814E-01	1.000	4378.	7286.	38.91	3.116	5.193	2202.
	1500.	0.4493E-01	1.000	4689.	7805.	39.27	3.116	5.193	2279.

PRESSURE = 0.140 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
0.8000	0.4428E-03	1.530	0.1543E-01	0.5790E-01				
1.000	0.3426E-03	0.2044	0.1543E-01	0.5790E-01				
1.200	-0.7048E-03	-0.1117	0.1539E-01	0.5790E-01				
1.400	-0.3127E-02	-0.1744	0.1538E-01	0.5791E-01				
1.600	-0.7535E-02	-0.1777	0.1553E-01	0.5795E-01				
1.800	-0.1542E-01	-0.1711	0.1600E-01	0.5803E-01				
2.000	-0.3165E-01	-0.1684	0.1691E-01	0.5817E-01				
2.064	-0.4165E-01	-0.1704	0.1729E-01	0.5823E-01				
2.154	-0.8392E-01	-0.1961	0.1801E-01	0.5837E-01				
2.163	-0.1237	-0.2239	0.1831E-01	0.5840E-01				
2.165	-0.4749E-01	-0.1440	0.1783E-01	0.5840E-01				
2.174	-0.2276E-02	-0.1107E-01	0.1759E-01	0.5841E-01				
2.264	0.4429E-01	0.3909	0.1764E-01	0.5834E-01				
2.400	0.6913E-01	0.7043	0.1805E-01	0.5814E-01				
2.700	0.1184	1.067	0.1992E-01	0.5751E-01				
3.000	0.1789	1.271	0.2281E-01	0.5661E-01				
3.300	0.2497	1.293	0.2661E-01	0.5546E-01				
3.600	0.3439	1.285	0.3234E-01	0.5405E-01	0.1841E-01	3.661	0.3968E-07	0.6693
3.900	0.4816	1.271	0.4166E-01	0.5230E-01	0.1883E-01	3.486	0.3577E-07	0.7304
4.200	0.7142	1.247	0.5914E-01	0.5006E-01	0.1900E-01	3.288	0.3113E-07	0.8266
4.500	1.246	1.199	0.1040	0.4691E-01	0.1891E-01	3.047	0.2440E-07	1.042
4.584	1.566	1.177	0.1330	0.4571E-01	0.1884E-01	2.964	0.2169E-07	1.170
4.584	4.005	0.7196	2.235	0.9357E-02	0.1046E-01	1.419	0.3541E-07	1.664
4.800	2.769	0.7148	1.728	0.8045E-02	0.1058E-01	1.440	0.5430E-07	1.280
5.000	2.298	0.7132	1.533	0.7260E-02	0.1079E-01	1.468	0.6945E-07	1.131
5.100	2.146	0.7127	1.470	0.6947E-02	0.1090E-01	1.483	0.7665E-07	1.082
5.300	1.927	0.7119	1.378	0.6425E-02	0.1115E-01	1.516	0.9065E-07	1.011
5.500	1.775	0.7112	1.315	0.5999E-02	0.1141E-01	1.549	0.1043E-06	0.9609
6.000	1.542	0.7092	1.217	0.5197E-02	0.1206E-01	1.635	0.1382E-06	0.8838
6.500	1.409	0.7068	1.161	0.4619E-02	0.1273E-01	1.722	0.1724E-06	0.8389
7.000	1.323	0.7043	1.124	0.4175E-02	0.1340E-01	1.807	0.2076E-06	0.8092
8.000	1.219	0.6994	1.080	0.3525E-02	0.1469E-01	1.974	0.2810E-06	0.7734
9.000	1.159	0.6951	1.055	0.3065E-02	0.1590E-01	2.135	0.3585E-06	0.7539
10.00	1.120	0.6916	1.039	0.2718E-02	0.1704E-01	2.289	0.4402E-06	0.7424
12.00	1.075	0.6862	1.021	0.2226E-02	0.1915E-01	2.583	0.6160E-06	0.7308
15.00	1.041	0.6811	1.008	0.1758E-02	0.2201E-01	2.989	0.9101E-06	0.7246
20.00	1.018	0.6764	1.000	0.1308E-02	0.2627E-01	3.598	0.1478E-05	0.7220
25.00	1.008	0.6738	0.9977	0.1043E-02	0.3015E-01	4.144	0.2138E-05	0.7206
30.00	1.004	0.6723	0.9967	0.8684E-03	0.3377E-01	4.645	0.2885E-05	0.7190
40.00	0.9997	0.6705	0.9963	0.6510E-03	0.4049E-01	5.551	0.4628E-05	0.7144
50.00	0.9984	0.6695	0.9966	0.5209E-03	0.4672E-01	6.368	0.6683E-05	0.7093
60.00	0.9980	0.6689	0.9969	0.4342E-03	0.5259E-01	7.123	0.9031E-05	0.7044
80.00	0.9979	0.6682	0.9975	0.3258E-03	0.6355E-01	8.509	0.1455E-04	0.6957
100.0	0.9981	0.6679	0.9980	0.2608E-03	0.7375E-01	9.783	0.2111E-04	0.6891
120.0	0.9983	0.6676	0.9983	0.2174E-03	0.8337E-01	10.80	0.2863E-04	0.6728
140.0	0.9985	0.6674	0.9985	0.1864E-03	0.9253E-01	11.95	0.3706E-04	0.6707
160.0	0.9986	0.6673	0.9987	0.1631E-03	0.1013	13.05	0.4638E-04	0.6689
180.0	0.9988	0.6672	0.9989	0.1450E-03	0.1098	14.11	0.5653E-04	0.6676
200.0	0.9989	0.6672	0.9990	0.1305E-03	0.1180	15.15	0.6750E-04	0.6665
220.0	0.9990	0.6671	0.9991	0.1187E-03	0.1260	16.15	0.7926E-04	0.6656
240.0	0.9991	0.6671	0.9992	0.1088E-03	0.1338	17.12	0.9179E-04	0.6649
260.0	0.9992	0.6670	0.9992	0.1004E-03	0.1413	18.08	0.1051E-03	0.6643
280.0	0.9992	0.6670	0.9993	0.9326E-04	0.1487	19.01	0.1191E-03	0.6638
300.0	0.9993	0.6670	0.9994	0.8705E-04	0.1560	19.93	0.1338E-03	0.6635
350.0	0.9994	0.6669	0.9995	0.7462E-04	0.1736	22.15	0.1737E-03	0.6629
400.0	0.9995	0.6669	0.9995	0.6530E-04	0.1904	24.29	0.2177E-03	0.6626
500.0	0.9996	0.6668	0.9996	0.5224E-04	0.2223	28.36	0.3177E-03	0.6625
600.0	0.9997	0.6668	0.9997	0.4354E-04	0.2524	32.22	0.4329E-03	0.6628
700.0	0.9997	0.6668	0.9998	0.3732E-04	0.2811	35.89	0.5623E-03	0.6632
800.0	0.9998	0.6668	0.9998	0.3266E-04	0.3085	39.43	0.7054E-03	0.6637
900.0	0.9998	0.6668	0.9998	0.2903E-04	0.3350	42.85	0.8616E-03	0.6642
1000.	0.9998	0.6667	0.9998	0.2613E-04	0.3606	46.16	0.1031E-02	0.6647
1100.	0.9998	0.6667	0.9999	0.2375E-04	0.3855	49.38	0.1212E-02	0.6652
1200.	0.9999	0.6667	0.9999	0.2177E-04	0.4097	52.52	0.1405E-02	0.6658
1300.	0.9999	0.6667	0.9999	0.2010E-04	0.4333	55.59	0.1610E-02	0.6663
1400.	0.9999	0.6667	0.9999	0.1866E-04	0.4564	58.60	0.1826E-02	0.6668
1500.	0.9999	0.6667	0.9999	0.1742E-04	0.4790	61.55	0.2053E-02	0.6672

PRESSURE = 0.160 [MPa]

	TEMP [K]	DENSITY [kg/m³]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	147.9	0.6511	0.1124E-01	1.093	0.4115E-02	0.2216E-01	0.2217E-01	249.8
	1.000	147.9	0.5210	0.2212E-01	1.104	0.1605E-01	0.1035	0.1035	249.7
	1.200	147.9	0.4341	0.6186E-01	1.144	0.5166E-01	0.3254	0.3254	249.9
	1.400	147.9	0.3720	0.1689	1.251	0.1330	0.7922	0.7927	250.0
	1.600	148.0	0.3253	0.4041	1.485	0.2884	1.621	1.623	248.7
	1.800	148.2	0.2887	0.8549	1.935	0.5514	2.967	2.976	245.0
	2.000	148.6	0.2592	1.660	2.737	0.9720	5.261	5.292	238.6
1	2.062	148.7	0.2511	2.026	3.102	1.151	6.437	6.487	236.1
2	2.152	149.1	0.2400	2.745	3.818	1.491	10.33	10.51	232.2
3	2.161	149.2	0.2389	2.849	3.921	1.539	13.06	13.44	231.5
3	2.163	149.2	0.2387	2.873	3.946	1.550	8.004	8.064	232.2
2	2.172	149.2	0.2377	2.927	4.000	1.575	5.037	5.038	233.0
1	2.262	149.0	0.2285	3.229	4.303	1.712	2.658	2.703	234.8
	2.400	148.5	0.2161	3.557	4.634	1.854	2.126	2.229	236.2
	2.700	147.0	0.1941	4.191	5.280	2.108	1.960	2.203	234.5
	3.000	144.8	0.1774	4.858	5.964	2.348	1.986	2.428	230.7
	3.300	141.9	0.1645	5.626	6.754	2.598	2.168	2.850	224.3
	3.600	138.5	0.1545	6.523	7.679	2.866	2.326	3.324	215.6
	3.900	134.2	0.1472	7.563	8.755	3.153	2.438	3.872	204.8
	4.200	128.8	0.1424	8.780	10.02	3.466	2.517	4.630	191.3
	4.500	121.5	0.1409	10.28	11.59	3.827	2.581	6.027	173.2
L	4.744	112.1	0.1449	11.96	13.38	4.213	2.644	9.439	151.2
V	4.744	28.57	0.5683	24.12	29.72	7.650	3.119	15.49	100.6
	4.800	26.99	0.5946	24.59	30.52	7.817	3.126	13.27	103.0
	5.000	23.32	0.6606	25.92	32.78	8.280	3.132	9.987	109.9
	5.100	22.05	0.6851	26.48	33.74	8.469	3.130	9.219	112.8
	5.300	20.06	0.7246	27.50	35.48	8.804	3.125	8.255	118.0
	5.500	18.53	0.7558	28.43	37.07	9.098	3.120	7.665	122.6
	6.000	15.80	0.8123	30.55	40.67	9.725	3.109	6.846	132.6
	6.500	13.93	0.8509	32.49	43.98	10.25	3.104	6.419	141.1
	7.000	12.52	0.8789	34.34	47.11	10.72	3.103	6.156	148.7
	8.000	10.50	0.9167	37.87	53.10	11.52	3.105	5.853	162.0
	9.000	9.100	0.9405	41.28	58.86	12.20	3.109	5.684	173.8
	10.00	8.053	0.9565	44.62	64.49	12.79	3.113	5.578	184.5
	12.00	6.577	0.9759	51.18	75.51	13.80	3.119	5.452	203.8
	15.00	5.186	0.9901	60.85	91.70	15.00	3.123	5.356	228.9
	20.00	3.854	0.9993	76.76	118.3	16.53	3.124	5.284	264.9
	25.00	3.073	1.003	92.54	144.6	17.71	3.123	5.250	296.2
	30.00	2.558	1.004	108.3	170.8	18.66	3.122	5.232	324.4
	40.00	1.918	1.004	139.6	223.0	20.16	3.121	5.214	374.2
	50.00	1.534	1.004	170.8	275.1	21.33	3.119	5.206	417.9
	60.00	1.279	1.004	202.1	327.1	22.27	3.119	5.201	457.5
	80.00	0.9601	1.003	264.5	431.1	23.77	3.118	5.197	527.8
	100.0	0.7685	1.002	326.8	535.0	24.93	3.117	5.195	589.8
	120.0	0.6406	1.002	389.2	638.9	25.88	3.117	5.194	645.8
	140.0	0.5493	1.002	451.5	742.8	26.68	3.117	5.194	697.3
	160.0	0.4807	1.001	513.8	846.7	27.37	3.117	5.193	745.3
	180.0	0.4274	1.001	576.2	950.5	27.98	3.116	5.193	790.4
	200.0	0.3847	1.001	638.5	1054.	28.53	3.116	5.193	833.0
	220.0	0.3498	1.001	700.8	1158.	29.03	3.116	5.193	873.6
	240.0	0.3206	1.001	763.1	1262.	29.48	3.116	5.193	912.3
	260.0	0.2960	1.001	825.5	1366.	29.89	3.116	5.193	949.5
	280.0	0.2749	1.001	887.8	1470.	30.28	3.116	5.193	985.3
	300.0	0.2566	1.001	950.1	1574.	30.64	3.116	5.193	1020.
	350.0	0.2199	1.001	1106.	1833.	31.44	3.116	5.193	1101.
	400.0	0.1925	1.001	1262.	2093.	32.13	3.116	5.193	1177.
	500.0	0.1540	1.000	1573.	2612.	33.29	3.116	5.193	1316.
	600.0	0.1283	1.000	1885.	3132.	34.24	3.116	5.193	1442.
	700.0	0.1100	1.000	2196.	3651.	35.04	3.116	5.193	1557.
	800.0	0.9626E-01	1.000	2508.	4170.	35.73	3.116	5.193	1665.
	900.0	0.8557E-01	1.000	2820.	4689.	36.34	3.116	5.193	1766.
	1000.	0.7701E-01	1.000	3131.	5209.	36.89	3.116	5.193	1861.
	1100.	0.7001E-01	1.000	3443.	5728.	37.38	3.116	5.193	1952.
	1200.	0.6418E-01	1.000	3754.	6247.	37.83	3.116	5.193	2039.
	1300.	0.5924E-01	1.000	4066.	6767.	38.25	3.116	5.193	2122.
	1400.	0.5501E-01	1.000	4378.	7286.	38.64	3.116	5.193	2202.
	1500.	0.5134E-01	1.000	4689.	7805.	38.99	3.116	5.193	2279.

PRESSURE = 0.160 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_v$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
0.8000	0.4240E-03	1.492	0.1735E-01	0.5803E-01				
1.000	0.3593E-03	0.2164	0.1736E-01	0.5802E-01				
1.200	-0.6726E-03	-0.1076	0.1732E-01	0.5802E-01				
1.400	-0.3179E-02	-0.1790	0.1732E-01	0.5804E-01				
1.600	-0.7864E-02	-0.1873	0.1750E-01	0.5808E-01				
1.800	-0.1629E-01	-0.1825	0.1804E-01	0.5816E-01				
2.000	-0.3321E-01	-0.1786	0.1903E-01	0.5831E-01				
2.062	-0.4308E-01	-0.1796	0.1944E-01	0.5838E-01				
2.152	-0.8555E-01	-0.2039	0.2025E-01	0.5852E-01				
2.161	-0.1257	-0.2320	0.2060E-01	0.5854E-01				
2.163	-0.4925E-01	-0.1522	0.2004E-01	0.5855E-01				
2.172	-0.3579E-02	-0.1775E-01	0.1976E-01	0.5856E-01				
2.262	0.4311E-01	0.3888	0.1980E-01	0.5849E-01				
2.400	0.6791E-01	0.7082	0.2024E-01	0.5829E-01				
2.700	0.1158	1.071	0.2224E-01	0.5768E-01				
3.000	0.1745	1.276	0.2538E-01	0.5679E-01				
3.300	0.2427	1.298	0.2946E-01	0.5567E-01				
3.600	0.3322	1.290	0.3553E-01	0.5430E-01	0.1852E-01	3.703	0.4024E-07	0.6647
3.900	0.4602	1.278	0.4516E-01	0.5260E-01	0.1895E-01	3.531	0.3647E-07	0.7214
4.200	0.6681	1.257	0.6247E-01	0.5047E-01	0.1916E-01	3.338	0.3213E-07	0.8066
4.500	1.099	1.215	0.1026	0.4757E-01	0.1912E-01	3.111	0.2611E-07	0.9807
4.744	2.244	1.145	0.2230	0.4385E-01	0.1893E-01	2.860	0.1789E-07	1.426
4.744	5.365	0.7389	2.748	0.1110E-01	0.1136E-01	1.511	0.2569E-07	2.059
4.800	4.415	0.7349	2.374	0.1049E-01	0.1128E-01	1.509	0.3149E-07	1.775
5.000	3.009	0.7274	1.813	0.9058E-02	0.1126E-01	1.520	0.4836E-07	1.348
5.100	2.681	0.7254	1.680	0.8563E-02	0.1132E-01	1.531	0.5570E-07	1.247
5.300	2.271	0.7227	1.513	0.7789E-02	0.1149E-01	1.557	0.6937E-07	1.119
5.500	2.021	0.7208	1.411	0.7195E-02	0.1169E-01	1.586	0.8230E-07	1.040
6.000	1.676	0.7171	1.268	0.6135E-02	0.1226E-01	1.666	0.1133E-06	0.9300
6.500	1.496	0.7137	1.194	0.5406E-02	0.1289E-01	1.748	0.1442E-06	0.8707
7.000	1.385	0.7104	1.147	0.4859E-02	0.1353E-01	1.831	0.1756E-06	0.8330
8.000	1.256	0.7044	1.094	0.4076E-02	0.1480E-01	1.994	0.2407E-06	0.7887
9.000	1.184	0.6994	1.064	0.3531E-02	0.1600E-01	2.152	0.3093E-06	0.7648
10.00	1.139	0.6953	1.045	0.3124E-02	0.1713E-01	2.305	0.3813E-06	0.7508
12.00	1.086	0.6891	1.024	0.2551E-02	0.1922E-01	2.596	0.5360E-06	0.7364
15.00	1.047	0.6832	1.010	0.2012E-02	0.2206E-01	3.000	0.7943E-06	0.7282
20.00	1.020	0.6778	1.000	0.1495E-02	0.2631E-01	3.605	0.1292E-05	0.7240
25.00	1.009	0.6749	0.9974	0.1192E-02	0.3018E-01	4.150	0.1871E-05	0.7219
30.00	1.004	0.6731	0.9962	0.9920E-03	0.3380E-01	4.650	0.2525E-05	0.7199
40.00	0.9997	0.6710	0.9958	0.7436E-03	0.4051E-01	5.555	0.4052E-05	0.7149
50.00	0.9982	0.6699	0.9961	0.5950E-03	0.4674E-01	6.372	0.5851E-05	0.7097
60.00	0.9977	0.6693	0.9965	0.4960E-03	0.5261E-01	7.127	0.7907E-05	0.7046
80.00	0.9976	0.6685	0.9972	0.3723E-03	0.6357E-01	8.512	0.1274E-04	0.6958
100.0	0.9978	0.6680	0.9977	0.2980E-03	0.7376E-01	9.786	0.1848E-04	0.6892
120.0	0.9981	0.6677	0.9980	0.2484E-03	0.8338E-01	10.80	0.2506E-04	0.6728
140.0	0.9983	0.6676	0.9983	0.2130E-03	0.9255E-01	11.95	0.3244E-04	0.6707
160.0	0.9985	0.6674	0.9985	0.1864E-03	0.1013	13.05	0.4059E-04	0.6689
180.0	0.9986	0.6673	0.9987	0.1657E-03	0.1098	14.12	0.4948E-04	0.6675
200.0	0.9987	0.6672	0.9989	0.1492E-03	0.1180	15.15	0.5908E-04	0.6664
220.0	0.9989	0.6672	0.9990	0.1356E-03	0.1260	16.15	0.6937E-04	0.6655
240.0	0.9990	0.6671	0.9991	0.1243E-03	0.1338	17.13	0.8034E-04	0.6648
260.0	0.9990	0.6671	0.9991	0.1148E-03	0.1414	18.08	0.9196E-04	0.6642
280.0	0.9991	0.6671	0.9992	0.1066E-03	0.1488	19.02	0.1042E-03	0.6638
300.0	0.9992	0.6670	0.9993	0.9948E-04	0.1560	19.93	0.1171E-03	0.6634
350.0	0.9993	0.6670	0.9994	0.8527E-04	0.1736	22.16	0.1520E-03	0.6628
400.0	0.9994	0.6669	0.9995	0.7462E-04	0.1904	24.29	0.1905E-03	0.6625
500.0	0.9995	0.6669	0.9996	0.5970E-04	0.2223	28.36	0.2780E-03	0.6625
600.0	0.9996	0.6668	0.9997	0.4976E-04	0.2524	32.22	0.3788E-03	0.6627
700.0	0.9997	0.6668	0.9997	0.4265E-04	0.2811	35.89	0.4921E-03	0.6631
800.0	0.9997	0.6668	0.9998	0.3732E-04	0.3086	39.43	0.6173E-03	0.6636
900.0	0.9998	0.6668	0.9998	0.3318E-04	0.3350	42.85	0.7540E-03	0.6641
1000.	0.9998	0.6668	0.9998	0.2986E-04	0.3606	46.16	0.9018E-03	0.6647
1100.	0.9998	0.6667	0.9998	0.2714E-04	0.3855	49.38	0.1060E-02	0.6652
1200.	0.9998	0.6667	0.9999	0.2488E-04	0.4097	52.52	0.1229E-02	0.6657
1300.	0.9998	0.6667	0.9999	0.2297E-04	0.4333	55.60	0.1409E-02	0.6662
1400.	0.9999	0.6667	0.9999	0.2133E-04	0.4564	58.60	0.1598E-02	0.6667
1500.	0.9999	0.6667	0.9999	0.1991E-04	0.4790	61.55	0.1797E-02	0.6672

PRESSURE = 0.180 [MPa]

	TEMP [K]	DENSITY [kg/m³]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	148.2	0.7309	0.1365E-01	1.228	0.4045E-02	0.2205E-01	0.2206E-01	251.5
	1.000	148.2	0.5848	0.2455E-01	1.239	0.1600E-01	0.1038	0.1039	251.3
	1.200	148.2	0.4873	0.6441E-01	1.279	0.5174E-01	0.3265	0.3265	251.5
	1.400	148.2	0.4176	0.1718	1.386	0.1333	0.7943	0.7947	251.5
	1.600	148.3	0.3651	0.4077	1.621	0.2890	1.624	1.627	250.1
	1.800	148.5	0.3241	0.8597	2.072	0.5526	2.973	2.983	246.4
	2.000	148.9	0.2909	1.667	2.876	0.9743	5.273	5.307	240.1
1	2.060	149.1	0.2821	2.022	3.229	1.148	6.412	6.466	237.8
2	2.150	149.5	0.2696	2.739	3.943	1.487	10.28	10.47	233.9
3	2.159	149.5	0.2684	2.842	4.046	1.534	12.99	13.39	233.2
3	2.161	149.5	0.2681	2.867	4.071	1.546	7.971	8.037	233.9
2	2.170	149.6	0.2670	2.921	4.124	1.571	5.015	5.015	234.7
1	2.260	149.4	0.2566	3.221	4.426	1.707	2.645	2.688	236.6
	2.400	148.9	0.2425	3.551	4.760	1.851	2.111	2.212	238.0
	2.700	147.4	0.2178	4.179	5.400	2.102	1.949	2.186	236.6
	3.000	145.2	0.1989	4.838	6.078	2.340	1.975	2.407	232.9
	3.300	142.4	0.1843	5.597	6.861	2.588	2.159	2.823	226.7
	3.600	139.1	0.1731	6.481	7.776	2.853	2.318	3.283	218.2
	3.900	134.9	0.1647	7.503	8.837	3.136	2.430	3.807	207.9
	4.200	129.8	0.1590	8.690	10.08	3.442	2.508	4.504	195.1
	4.500	122.9	0.1566	10.12	11.59	3.789	2.570	5.696	178.4
	4.800	112.2	0.1609	12.09	13.69	4.240	2.641	9.190	153.5
L	4.891	106.7	0.1661	12.98	14.67	4.442	2.675	13.04	142.0
V	4.891	34.01	0.5209	23.57	28.87	7.339	3.080	21.98	100.8
	5.000	29.78	0.5819	24.69	30.73	7.717	3.100	14.14	105.5
	5.100	27.42	0.6197	25.45	32.01	7.970	3.107	11.72	109.1
	5.300	24.23	0.6747	26.68	34.11	8.374	3.111	9.548	115.1
	5.500	22.04	0.7150	27.73	35.90	8.706	3.110	8.490	120.3
	6.000	18.41	0.7843	30.01	39.79	9.383	3.103	7.243	131.0
	6.500	16.06	0.8299	32.04	43.25	9.937	3.100	6.665	139.9
	7.000	14.35	0.8625	33.95	46.49	10.42	3.099	6.328	147.8
	8.000	11.96	0.9059	37.56	52.61	11.24	3.103	5.955	161.5
	9.000	10.32	0.9330	41.01	58.46	11.92	3.108	5.755	173.5
	10.00	9.111	0.9511	44.39	64.15	12.52	3.112	5.631	184.4
	12.00	7.422	0.9730	50.99	75.25	13.54	3.119	5.486	203.8
	15.00	5.842	0.9889	60.71	91.52	14.75	3.123	5.377	229.1
	20.00	4.336	0.9993	76.66	118.2	16.28	3.125	5.295	265.2
	25.00	3.456	1.003	92.46	144.5	17.46	3.124	5.257	296.5
	30.00	2.876	1.004	108.2	170.8	18.41	3.123	5.237	324.6
	40.00	2.156	1.005	139.5	223.0	19.92	3.121	5.216	374.4
	50.00	1.725	1.004	170.8	275.1	21.08	3.120	5.207	418.2
	60.00	1.438	1.004	202.0	327.2	22.03	3.119	5.202	457.7
	80.00	1.080	1.003	264.5	431.2	23.53	3.118	5.197	528.0
	100.0	0.8643	1.003	326.8	535.1	24.69	3.117	5.195	589.9
	120.0	0.7205	1.002	389.2	639.0	25.63	3.117	5.194	645.9
	140.0	0.6178	1.002	451.5	742.9	26.43	3.117	5.194	697.4
	160.0	0.5407	1.002	513.8	846.7	27.13	3.117	5.193	745.4
	180.0	0.4807	1.001	576.2	950.6	27.74	3.117	5.193	790.5
	200.0	0.4327	1.001	638.5	1054.	28.29	3.116	5.193	833.1
	220.0	0.3934	1.001	700.8	1158.	28.78	3.116	5.193	873.7
	240.0	0.3607	1.001	763.1	1262.	29.23	3.116	5.193	912.4
	260.0	0.3330	1.001	825.5	1366.	29.65	3.116	5.193	949.6
	280.0	0.3092	1.001	887.8	1470.	30.03	3.116	5.193	985.4
	300.0	0.2886	1.001	950.1	1574.	30.39	3.116	5.193	1020.
	350.0	0.2474	1.001	1106.	1833.	31.19	3.116	5.193	1101.
	400.0	0.2165	1.001	1262.	2093.	31.88	3.116	5.193	1177.
	500.0	0.1732	1.000	1573.	2612.	33.04	3.116	5.193	1316.
	600.0	0.1444	1.000	1885.	3132.	33.99	3.116	5.193	1442.
	700.0	0.1238	1.000	2196.	3651.	34.79	3.116	5.193	1557.
	800.0	0.1083	1.000	2508.	4170.	35.48	3.116	5.193	1665.
	900.0	0.9626E-01	1.000	2820.	4690.	36.10	3.116	5.193	1766.
	1000.	0.8664E-01	1.000	3131.	5209.	36.64	3.116	5.193	1861.
	1100.	0.7876E-01	1.000	3443.	5728.	37.14	3.116	5.193	1952.
	1200.	0.7220E-01	1.000	3754.	6247.	37.59	3.116	5.193	2039.
	1300.	0.6665E-01	1.000	4066.	6767.	38.01	3.116	5.193	2122.
	1400.	0.6189E-01	1.000	4378.	7286.	38.39	3.116	5.193	2202.
	1500.	0.5776E-01	1.000	4689.	7805.	38.75	3.116	5.193	2279.

PRESSURE = 0.180 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
0.8000	0.4020E-03	1.441	0.1921E-01	0.5816E-01				
1.000	0.3694E-03	0.2247	0.1923E-01	0.5815E-01				
1.200	-0.6488E-03	-0.1048	0.1920E-01	0.5815E-01				
1.400	-0.3238E-02	-0.1840	0.1922E-01	0.5817E-01				
1.600	-0.8194E-02	-0.1969	0.1943E-01	0.5821E-01				
1.800	-0.1713E-01	-0.1938	0.2002E-01	0.5829E-01				
2.000	-0.3471E-01	-0.1885	0.2110E-01	0.5845E-01				
2.060	-0.4442E-01	-0.1886	0.2152E-01	0.5852E-01				
2.150	-0.8716E-01	-0.2117	0.2242E-01	0.5866E-01				
2.159	-0.1276	-0.2401	0.2282E-01	0.5869E-01				
2.161	-0.5097E-01	-0.1605	0.2218E-01	0.5870E-01				
2.170	-0.4843E-02	-0.2451E-01	0.2185E-01	0.5870E-01				
2.260	0.4199E-01	0.3867	0.2188E-01	0.5864E-01				
2.400	0.6677E-01	0.7126	0.2235E-01	0.5844E-01				
2.700	0.1133	1.075	0.2447E-01	0.5784E-01				
3.000	0.1705	1.281	0.2783E-01	0.5697E-01				
3.300	0.2361	1.303	0.3215E-01	0.5588E-01				
3.600	0.3215	1.295	0.3849E-01	0.5454E-01	0.1861E-01	3.745	0.4077E-07	0.6606
3.900	0.4411	1.284	0.4835E-01	0.5290E-01	0.1907E-01	3.574	0.3713E-07	0.7134
4.200	0.6290	1.266	0.6544E-01	0.5085E-01	0.1931E-01	3.386	0.3304E-07	0.7897
4.500	0.9898	1.229	0.1020	0.4815E-01	0.1932E-01	3.170	0.2758E-07	0.9346
4.800	2.155	1.151	0.2369	0.4391E-01	0.1912E-01	2.881	0.1854E-07	1.385
4.891	3.563	1.105	0.4164	0.4165E-01	0.1907E-01	2.745	0.1355E-07	1.902
4.891	8.017	0.7612	3.705	0.1321E-01	0.1254E-01	1.610	0.1688E-07	2.808
5.000	4.753	0.7489	2.475	0.1158E-01	0.1208E-01	1.593	0.2870E-07	1.864
5.100	3.732	0.7429	2.081	0.1065E-01	0.1196E-01	1.592	0.3721E-07	1.561
5.300	2.811	0.7361	1.720	0.9415E-02	0.1194E-01	1.606	0.5161E-07	1.284
5.500	2.364	0.7320	1.542	0.8559E-02	0.1205E-01	1.628	0.6439E-07	1.148
6.000	1.838	0.7257	1.330	0.7150E-02	0.1250E-01	1.699	0.9370E-07	0.9846
6.500	1.595	0.7209	1.231	0.6236E-02	0.1306E-01	1.776	0.1220E-06	0.9062
7.000	1.454	0.7168	1.173	0.5571E-02	0.1368E-01	1.856	0.1506E-06	0.8587
8.000	1.296	0.7096	1.108	0.4640E-02	0.1492E-01	2.015	0.2095E-06	0.8045
9.000	1.210	0.7037	1.073	0.4004E-02	0.1610E-01	2.170	0.2710E-06	0.7759
10.00	1.158	0.6990	1.051	0.3535E-02	0.1721E-01	2.321	0.3356E-06	0.7592
12.00	1.097	0.6919	1.027	0.2879E-02	0.1929E-01	2.609	0.4738E-06	0.7419
15.00	1.053	0.6853	1.011	0.2266E-02	0.2212E-01	3.010	0.7043E-06	0.7316
20.00	1.023	0.6792	1.001	0.1682E-02	0.2636E-01	3.613	0.1148E-05	0.7259
25.00	1.011	0.6759	0.9970	0.1340E-02	0.3022E-01	4.157	0.1663E-05	0.7232
30.00	1.005	0.6739	0.9958	0.1115E-02	0.3383E-01	4.656	0.2246E-05	0.7207
40.00	0.9996	0.6716	0.9953	0.8361E-03	0.4054E-01	5.560	0.3604E-05	0.7154
50.00	0.9980	0.6703	0.9956	0.6691E-03	0.4676E-01	6.376	0.5205E-05	0.7100
60.00	0.9974	0.6696	0.9960	0.5578E-03	0.5263E-01	7.130	0.7033E-05	0.7048
80.00	0.9973	0.6687	0.9968	0.4187E-03	0.6359E-01	8.515	0.1133E-04	0.6960
100.0	0.9975	0.6682	0.9974	0.3351E-03	0.7378E-01	9.788	0.1643E-04	0.6892
120.0	0.9978	0.6679	0.9978	0.2794E-03	0.8340E-01	10.80	0.2228E-04	0.6728
140.0	0.9981	0.6677	0.9981	0.2395E-03	0.9256E-01	11.95	0.2885E-04	0.6707
160.0	0.9983	0.6675	0.9984	0.2096E-03	0.1014	13.05	0.3609E-04	0.6689
180.0	0.9984	0.6674	0.9986	0.1864E-03	0.1098	14.12	0.4400E-04	0.6675
200.0	0.9986	0.6673	0.9987	0.1678E-03	0.1180	15.15	0.5253E-04	0.6664
220.0	0.9987	0.6672	0.9988	0.1525E-03	0.1260	16.15	0.6168E-04	0.6655
240.0	0.9988	0.6672	0.9989	0.1398E-03	0.1338	17.13	0.7143E-04	0.6648
260.0	0.9989	0.6671	0.9990	0.1291E-03	0.1414	18.08	0.8176E-04	0.6642
280.0	0.9990	0.6671	0.9991	0.1199E-03	0.1488	19.02	0.9266E-04	0.6637
300.0	0.9991	0.6671	0.9992	0.1119E-03	0.1560	19.93	0.1041E-03	0.6634
350.0	0.9992	0.6670	0.9993	0.9593E-04	0.1736	22.16	0.1351E-03	0.6628
400.0	0.9993	0.6670	0.9994	0.8394E-04	0.1904	24.29	0.1694E-03	0.6625
500.0	0.9995	0.6669	0.9995	0.6716E-04	0.2224	28.36	0.2472E-03	0.6624
600.0	0.9996	0.6668	0.9996	0.5597E-04	0.2525	32.22	0.3367E-03	0.6627
700.0	0.9996	0.6668	0.9997	0.4798E-04	0.2811	35.90	0.4374E-03	0.6631
800.0	0.9997	0.6668	0.9997	0.4199E-04	0.3086	39.43	0.5487E-03	0.6636
900.0	0.9997	0.6668	0.9998	0.3732E-04	0.3350	42.85	0.6702E-03	0.6641
1000.	0.9998	0.6668	0.9998	0.3359E-04	0.3607	46.16	0.8016E-03	0.6647
1100.	0.9998	0.6668	0.9998	0.3054E-04	0.3855	49.38	0.9426E-03	0.6652
1200.	0.9998	0.6667	0.9998	0.2799E-04	0.4097	52.53	0.1093E-02	0.6657
1300.	0.9998	0.6667	0.9998	0.2584E-04	0.4333	55.60	0.1252E-02	0.6662
1400.	0.9998	0.6667	0.9999	0.2399E-04	0.4564	58.60	0.1420E-02	0.6667
1500.	0.9999	0.6667	0.9999	0.2240E-04	0.4790	61.55	0.1597E-02	0.6672

PRESSURE = 0.200 [MPa]

	TEMP [K]	DENSITY [kg/m³]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	148.5	0.8104	0.1631E-01	1.363	0.3979E-02	0.2192E-01	0.2193E-01	253.2
	1.000	148.5	0.6484	0.2721E-01	1.374	0.1595E-01	0.1042	0.1042	253.0
	1.200	148.5	0.5403	0.6721E-01	1.414	0.5181E-01	0.3276	0.3276	253.1
	1.400	148.5	0.4630	0.1750	1.522	0.1337	0.7964	0.7969	252.9
	1.600	148.6	0.4048	0.4116	1.757	0.2897	1.628	1.631	251.5
	1.800	148.9	0.3593	0.8649	2.208	0.5540	2.979	2.990	247.8
	2.000	149.3	0.3225	1.675	3.015	0.9766	5.285	5.323	241.7
1	2.058	149.4	0.3130	2.018	3.356	1.145	6.386	6.444	239.5
2	2.148	149.8	0.2991	2.733	4.067	1.482	10.23	10.43	235.6
3	2.157	149.9	0.2978	2.836	4.170	1.530	12.92	13.34	234.8
3	2.159	149.9	0.2974	2.861	4.195	1.542	7.939	8.010	235.6
2	2.168	149.9	0.2962	2.915	4.249	1.567	4.992	4.993	236.4
1	2.258	149.8	0.2847	3.213	4.549	1.702	2.632	2.673	238.3
	2.400	149.3	0.2688	3.545	4.885	1.847	2.097	2.195	239.8
	2.700	147.8	0.2413	4.167	5.520	2.096	1.937	2.169	238.7
	3.000	145.7	0.2203	4.819	6.192	2.332	1.966	2.387	235.1
	3.300	143.0	0.2041	5.569	6.968	2.578	2.150	2.797	229.0
	3.600	139.7	0.1915	6.442	7.874	2.841	2.310	3.246	220.9
	3.900	135.6	0.1820	7.446	8.921	3.120	2.422	3.747	210.9
	4.200	130.7	0.1754	8.606	10.14	3.420	2.499	4.395	198.8
	4.500	124.3	0.1722	9.986	11.59	3.755	2.559	5.434	183.2
	4.800	114.8	0.1747	11.79	13.53	4.170	2.623	7.942	161.2
	5.000	102.8	0.1872	13.74	15.68	4.609	2.696	16.58	137.1
L	5.026	99.90	0.1917	14.17	16.17	4.707	2.714	21.51	132.1
V	5.026	41.47	0.4619	22.66	27.48	6.953	3.034	41.36	101.3
	5.100	35.82	0.5271	23.89	29.47	7.346	3.064	20.02	104.8
	5.300	29.54	0.6150	25.66	32.43	7.916	3.089	11.94	112.0
	5.500	26.16	0.6691	26.93	34.57	8.312	3.095	9.739	117.8
	6.000	21.26	0.7547	29.44	38.84	9.057	3.096	7.737	129.4
	6.500	18.33	0.8083	31.58	42.49	9.642	3.094	6.947	138.8
	7.000	16.26	0.8458	33.55	45.85	10.14	3.095	6.519	146.9
	8.000	13.45	0.8950	37.24	52.11	10.98	3.100	6.064	161.0
	9.000	11.56	0.9255	40.75	58.05	11.68	3.106	5.828	173.3
	10.00	10.18	0.9457	44.15	63.80	12.28	3.112	5.685	184.3
	12.00	8.271	0.9700	50.81	74.99	13.30	3.119	5.520	203.8
	15.00	6.498	0.9877	60.56	91.34	14.52	3.124	5.398	229.2
	20.00	4.818	0.9992	76.55	118.1	16.06	3.125	5.306	265.4
	25.00	3.839	1.003	92.38	144.5	17.24	3.125	5.264	296.8
	30.00	3.194	1.005	108.1	170.7	18.19	3.124	5.242	324.9
	40.00	2.395	1.005	139.5	223.0	19.70	3.122	5.219	374.7
	50.00	1.916	1.005	170.8	275.2	20.86	3.120	5.209	418.4
	60.00	1.598	1.004	202.0	327.2	21.81	3.119	5.203	458.0
	80.00	1.199	1.004	264.4	431.2	23.31	3.118	5.198	528.2
	100.0	0.9600	1.003	326.8	535.1	24.47	3.118	5.196	590.1
	120.0	0.8004	1.002	389.2	639.1	25.41	3.117	5.195	646.1
	140.0	0.6863	1.002	451.5	742.9	26.21	3.117	5.194	697.6
	160.0	0.6007	1.002	513.8	846.8	26.91	3.117	5.194	745.5
	180.0	0.5340	1.002	576.2	950.7	27.52	3.117	5.193	790.6
	200.0	0.4807	1.001	638.5	1055.	28.07	3.117	5.193	833.2
	220.0	0.4371	1.001	700.8	1158.	28.56	3.116	5.193	873.8
	240.0	0.4007	1.001	763.1	1262.	29.01	3.116	5.193	912.5
	260.0	0.3699	1.001	825.5	1366.	29.43	3.116	5.193	949.7
	280.0	0.3435	1.001	887.8	1470.	29.81	3.116	5.193	985.5
	300.0	0.3206	1.001	950.1	1574.	30.17	3.116	5.193	1020.
	350.0	0.2749	1.001	1106.	1833.	30.97	3.116	5.193	1102.
	400.0	0.2405	1.001	1262.	2093.	31.67	3.116	5.193	1177.
	500.0	0.1925	1.001	1573.	2612.	32.82	3.116	5.193	1316.
	600.0	0.1604	1.000	1885.	3132.	33.77	3.116	5.193	1442.
	700.0	0.1375	1.000	2196.	3651.	34.57	3.116	5.193	1557.
	800.0	0.1203	1.000	2508.	4170.	35.27	3.116	5.193	1665.
	900.0	0.1070	1.000	2820.	4690.	35.88	3.116	5.193	1766.
	1000.	0.9626E-01	1.000	3131.	5209.	36.42	3.116	5.193	1861.
	1100.	0.8751E-01	1.000	3443.	5728.	36.92	3.116	5.193	1952.
	1200.	0.8022E-01	1.000	3754.	6247.	37.37	3.116	5.193	2039.
	1300.	0.7405E-01	1.000	4066.	6767.	37.79	3.116	5.193	2122.
	1400.	0.6876E-01	1.000	4378.	7286.	38.17	3.116	5.193	2202.
	1500.	0.6418E-01	1.000	4689.	7805.	38.53	3.116	5.193	2279.

PRESSURE = 0.200 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_v$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	0.3779E-03	1.381	0.2101E-01	0.5828E-01				
1.000	0.3726E-03	0.2289	0.2104E-01	0.5828E-01				
1.200	-0.6359E-03	-0.1036	0.2103E-01	0.5828E-01				
1.400	-0.3307E-02	-0.1896	0.2106E-01	0.5829E-01				
1.600	-0.8526E-02	-0.2067	0.2131E-01	0.5834E-01				
1.800	-0.1795E-01	-0.2049	0.2195E-01	0.5842E-01				
2.000	-0.3615E-01	-0.1983	0.2311E-01	0.5859E-01				
2.058	-0.4570E-01	-0.1976	0.2354E-01	0.5865E-01				
2.148	-0.8874E-01	-0.2197	0.2452E-01	0.5881E-01				
2.157	-0.1296	-0.2484	0.2497E-01	0.5883E-01				
2.159	-0.5265E-01	-0.1689	0.2426E-01	0.5884E-01				
2.168	-0.6069E-02	-0.3131E-01	0.2389E-01	0.5884E-01				
2.258	0.4091E-01	0.3847	0.2389E-01	0.5878E-01				
2.400	0.6570E-01	0.7173	0.2439E-01	0.5859E-01				
2.700	0.1110	1.079	0.2661E-01	0.5800E-01				
3.000	0.1666	1.286	0.3017E-01	0.5715E-01				
3.300	0.2300	1.308	0.3469E-01	0.5608E-01				
3.600	0.3115	1.300	0.4126E-01	0.5477E-01	0.1871E-01	3.786	0.4128E-07	0.6568
3.900	0.4239	1.290	0.5128E-01	0.5318E-01	0.1919E-01	3.617	0.3775E-07	0.7062
4.200	0.5952	1.274	0.6811E-01	0.5122E-01	0.1946E-01	3.432	0.3388E-07	0.7752
4.500	0.9047	1.242	0.1018	0.4868E-01	0.1950E-01	3.225	0.2888E-07	0.8986
4.800	1.725	1.176	0.2030	0.4494E-01	0.1935E-01	2.964	0.2122E-07	1.216
5.000	4.766	1.080	0.6364	0.4021E-01	0.1929E-01	2.683	0.1132E-07	2.305
5.026	7.117	1.052	0.9974	0.3880E-01	0.1940E-01	2.606	0.8468E-08	3.100
5.026	14.57	0.7878	5.934	0.1589E-01	0.1426E-01	1.724	0.9213E-08	4.583
5.100	7.173	0.7717	3.321	0.1393E-01	0.1324E-01	1.687	0.1846E-07	2.552
5.300	3.801	0.7538	2.085	0.1148E-01	0.1261E-01	1.667	0.3575E-07	1.579
5.500	2.879	0.7457	1.733	0.1017E-01	0.1252E-01	1.677	0.4913E-07	1.305
6.000	2.039	0.7352	1.405	0.8258E-02	0.1277E-01	1.734	0.7762E-07	1.051
6.500	1.709	0.7287	1.272	0.7116E-02	0.1326E-01	1.806	0.1041E-06	0.9464
7.000	1.529	0.7235	1.200	0.6313E-02	0.1383E-01	1.882	0.1305E-06	0.8866
8.000	1.338	0.7149	1.122	0.5219E-02	0.1504E-01	2.036	0.1844E-06	0.8209
9.000	1.237	0.7082	1.082	0.4486E-02	0.1620E-01	2.188	0.2405E-06	0.7872
10.00	1.177	0.7028	1.057	0.3951E-02	0.1731E-01	2.337	0.2991E-06	0.7676
12.00	1.108	0.6948	1.030	0.3209E-02	0.1937E-01	2.622	0.4242E-06	0.7473
15.00	1.059	0.6873	1.012	0.2521E-02	0.2218E-01	3.020	0.6324E-06	0.7350
20.00	1.025	0.6806	1.001	0.1869E-02	0.2640E-01	3.621	0.1033E-05	0.7278
25.00	1.012	0.6769	0.9967	0.1489E-02	0.3025E-01	4.163	0.1497E-05	0.7244
30.00	1.005	0.6747	0.9953	0.1239E-02	0.3386E-01	4.661	0.2022E-05	0.7216
40.00	0.9996	0.6721	0.9948	0.9286E-03	0.4056E-01	5.564	0.3246E-05	0.7159
50.00	0.9978	0.6708	0.9951	0.7431E-03	0.4678E-01	6.379	0.4687E-05	0.7103
60.00	0.9971	0.6699	0.9956	0.6195E-03	0.5265E-01	7.134	0.6334E-05	0.7050
80.00	0.9970	0.6689	0.9964	0.4650E-03	0.6361E-01	8.518	0.1020E-04	0.6960
100.0	0.9973	0.6684	0.9971	0.3722E-03	0.7380E-01	9.791	0.1480E-04	0.6893
120.0	0.9976	0.6680	0.9976	0.3103E-03	0.8342E-01	10.81	0.2006E-04	0.6729
140.0	0.9978	0.6678	0.9979	0.2661E-03	0.9258E-01	11.95	0.2597E-04	0.6707
160.0	0.9981	0.6676	0.9982	0.2329E-03	0.1014	13.06	0.3250E-04	0.6689
180.0	0.9983	0.6675	0.9984	0.2071E-03	0.1099	14.12	0.3961E-04	0.6675
200.0	0.9984	0.6674	0.9986	0.1864E-03	0.1181	15.15	0.4729E-04	0.6664
220.0	0.9986	0.6673	0.9987	0.1695E-03	0.1260	16.15	0.5553E-04	0.6655
240.0	0.9987	0.6672	0.9988	0.1554E-03	0.1338	17.13	0.6430E-04	0.6648
260.0	0.9988	0.6672	0.9989	0.1434E-03	0.1414	18.08	0.7360E-04	0.6642
280.0	0.9989	0.6672	0.9990	0.1332E-03	0.1488	19.02	0.8341E-04	0.6637
300.0	0.9990	0.6671	0.9991	0.1243E-03	0.1561	19.93	0.9372E-04	0.6633
350.0	0.9991	0.6670	0.9992	0.1066E-03	0.1736	22.16	0.1216E-03	0.6628
400.0	0.9992	0.6670	0.9993	0.9327E-04	0.1904	24.29	0.1525E-03	0.6625
500.0	0.9994	0.6669	0.9995	0.7462E-04	0.2224	28.37	0.2225E-03	0.6624
600.0	0.9995	0.6669	0.9996	0.6219E-04	0.2525	32.22	0.3031E-03	0.6627
700.0	0.9996	0.6668	0.9997	0.5331E-04	0.2811	35.90	0.3937E-03	0.6631
800.0	0.9997	0.6668	0.9997	0.4665E-04	0.3086	39.43	0.4939E-03	0.6636
900.0	0.9997	0.6668	0.9997	0.4147E-04	0.3351	42.85	0.6033E-03	0.6641
1000.	0.9997	0.6668	0.9998	0.3732E-04	0.3607	46.16	0.7215E-03	0.6646
1100.	0.9998	0.6668	0.9998	0.3393E-04	0.3855	49.38	0.8484E-03	0.6652
1200.	0.9998	0.6668	0.9998	0.3110E-04	0.4097	52.53	0.9836E-03	0.6657
1300.	0.9998	0.6667	0.9998	0.2871E-04	0.4334	55.60	0.1127E-02	0.6662
1400.	0.9998	0.6667	0.9998	0.2666E-04	0.4564	58.60	0.1278E-02	0.6667
1500.	0.9998	0.6667	0.9999	0.2488E-04	0.4791	61.55	0.1437E-02	0.6672

PRESSURE = 0.210 [MPa]

	TEMP [K]	DENSITY [kg/m³]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	148.7	0.8501	0.1773E-01	1.430	0.3948E-02	0.2185E-01	0.2186E-01	254.1
	1.000	148.6	0.6801	0.2863E-01	1.441	0.1593E-01	0.1043	0.1043	253.9
	1.200	148.6	0.5668	0.6870E-01	1.481	0.5184E-01	0.3281	0.3281	253.9
	1.400	148.7	0.4857	0.1767	1.589	0.1338	0.7975	0.7980	253.6
	1.600	148.8	0.4246	0.4136	1.825	0.2901	1.630	1.633	252.2
	1.800	149.0	0.3769	0.8676	2.277	0.5546	2.982	2.993	248.5
	2.000	149.4	0.3382	1.679	3.084	0.9778	5.291	5.331	242.4
1	2.057	149.6	0.3284	2.016	3.420	1.143	6.374	6.433	240.3
2	2.147	150.0	0.3139	2.730	4.130	1.480	10.21	10.41	236.4
3	2.156	150.1	0.3124	2.833	4.232	1.528	12.89	13.31	235.7
3	2.158	150.1	0.3121	2.858	4.258	1.540	7.923	7.996	236.4
2	2.167	150.1	0.3108	2.912	4.311	1.565	4.981	4.982	237.2
1	2.257	149.9	0.2987	3.210	4.610	1.700	2.625	2.666	239.1
	2.400	149.5	0.2818	3.542	4.947	1.845	2.089	2.187	240.7
	2.700	148.0	0.2530	4.161	5.581	2.094	1.932	2.161	239.7
	3.000	145.9	0.2310	4.810	6.250	2.328	1.961	2.377	236.1
	3.300	143.2	0.2139	5.555	7.022	2.574	2.146	2.784	230.2
	3.600	139.9	0.2007	6.422	7.923	2.835	2.306	3.228	222.1
	3.900	136.0	0.1906	7.419	8.963	3.112	2.418	3.719	212.4
	4.200	131.1	0.1836	8.566	10.17	3.409	2.495	4.345	200.5
	4.500	124.9	0.1799	9.923	11.60	3.739	2.554	5.323	185.5
	4.800	115.9	0.1817	11.66	13.47	4.140	2.615	7.516	164.6
	5.000	105.6	0.1914	13.40	15.39	4.530	2.678	13.15	143.2
L	5.090	95.51	0.2080	14.90	17.10	4.869	2.740	31.97	126.8
V	5.090	47.17	0.4210	21.88	26.33	6.680	3.003	80.45	102.1
	5.100	44.93	0.4411	22.29	26.96	6.803	3.015	52.68	102.5
	5.300	32.94	0.5791	25.03	31.40	7.661	3.073	14.14	110.4
	5.500	28.56	0.6436	26.47	33.82	8.109	3.086	10.64	116.5
	6.000	22.79	0.7392	29.13	38.35	8.898	3.091	8.031	128.6
	6.500	19.51	0.7972	31.34	42.10	9.500	3.091	7.105	138.2
	7.000	17.25	0.8373	33.35	45.52	10.01	3.093	6.621	146.5
	8.000	14.21	0.8896	37.08	51.86	10.85	3.099	6.121	160.8
	9.000	12.19	0.9217	40.61	57.84	11.56	3.105	5.866	173.1
	10.00	10.72	0.9430	44.04	63.63	12.17	3.111	5.712	184.2
	12.00	8.698	0.9686	50.71	74.85	13.19	3.119	5.537	203.8
	15.00	6.827	0.9872	60.49	91.25	14.41	3.124	5.408	229.3
	20.00	5.059	0.9992	76.50	118.0	15.95	3.126	5.312	265.5
	25.00	4.030	1.003	92.35	144.5	17.13	3.125	5.268	296.9
	30.00	3.353	1.005	108.1	170.7	18.09	3.124	5.244	325.0
	40.00	2.514	1.006	139.5	223.0	19.60	3.122	5.220	374.8
	50.00	2.012	1.005	170.8	275.2	20.76	3.121	5.209	418.5
	60.00	1.677	1.005	202.0	327.2	21.71	3.120	5.204	458.1
	80.00	1.259	1.004	264.4	431.2	23.21	3.118	5.198	528.3
	100.0	1.008	1.003	326.8	535.2	24.36	3.118	5.196	590.2
	120.0	0.8403	1.003	389.2	639.1	25.31	3.117	5.195	646.2
	140.0	0.7205	1.002	451.5	743.0	26.11	3.117	5.194	697.7
	160.0	0.6306	1.002	513.8	846.8	26.81	3.117	5.194	745.6
	180.0	0.5607	1.002	576.2	950.7	27.42	3.117	5.193	790.7
	200.0	0.5047	1.002	638.5	1055.	27.97	3.117	5.193	833.3
	220.0	0.4589	1.001	700.8	1158.	28.46	3.116	5.193	873.8
	240.0	0.4207	1.001	763.1	1262.	28.91	3.116	5.193	912.6
	260.0	0.3884	1.001	825.5	1366.	29.33	3.116	5.193	949.7
	280.0	0.3607	1.001	887.8	1470.	29.71	3.116	5.193	985.5
	300.0	0.3367	1.001	950.1	1574.	30.07	3.116	5.193	1020.
	350.0	0.2886	1.001	1106.	1834.	30.87	3.116	5.193	1102.
	400.0	0.2526	1.001	1262.	2093.	31.56	3.116	5.193	1178.
	500.0	0.2021	1.001	1573.	2612.	32.72	3.116	5.193	1316.
	600.0	0.1684	1.000	1885.	3132.	33.67	3.116	5.193	1442.
	700.0	0.1444	1.000	2196.	3651.	34.47	3.116	5.193	1557.
	800.0	0.1263	1.000	2508.	4170.	35.16	3.116	5.193	1665.
	900.0	0.1123	1.000	2820.	4690.	35.78	3.116	5.193	1766.
	1000.	0.1011	1.000	3131.	5209.	36.32	3.116	5.193	1861.
	1100.	0.9189E-01	1.000	3443.	5728.	36.82	3.116	5.193	1952.
	1200.	0.8423E-01	1.000	3754.	6248.	37.27	3.116	5.193	2039.
	1300.	0.7775E-01	1.000	4066.	6767.	37.69	3.116	5.193	2122.
	1400.	0.7220E-01	1.000	4378.	7286.	38.07	3.116	5.193	2202.
	1500.	0.6739E-01	1.000	4689.	7805.	38.43	3.116	5.193	2279.

PRESSURE = 0.210 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
0.8000	0.3653E-03	1.348	0.2189E-01	0.5834E-01				
1.000	0.3714E-03	0.2294	0.2193E-01	0.5834E-01				
1.200	-0.6340E-03	-0.1038	0.2192E-01	0.5834E-01				
1.400	-0.3347E-02	-0.1927	0.2197E-01	0.5835E-01				
1.600	-0.8693E-02	-0.2116	0.2223E-01	0.5840E-01				
1.800	-0.1835E-01	-0.2103	0.2290E-01	0.5849E-01				
2.000	-0.3684E-01	-0.2031	0.2409E-01	0.5865E-01				
2.057	-0.4631E-01	-0.2021	0.2453E-01	0.5872E-01				
2.147	-0.8953E-01	-0.2238	0.2555E-01	0.5888E-01				
2.156	-0.1305	-0.2526	0.2603E-01	0.5890E-01				
2.158	-0.5347E-01	-0.1731	0.2528E-01	0.5891E-01				
2.167	-0.6666E-02	-0.3473E-01	0.2488E-01	0.5891E-01				
2.257	0.4039E-01	0.3837	0.2487E-01	0.5885E-01				
2.400	0.6519E-01	0.7197	0.2538E-01	0.5866E-01				
2.700	0.1098	1.081	0.2764E-01	0.5807E-01				
3.000	0.1647	1.288	0.3130E-01	0.5724E-01				
3.300	0.2271	1.310	0.3591E-01	0.5617E-01				
3.600	0.3068	1.303	0.4257E-01	0.5488E-01	0.1876E-01	3.806	0.4152E-07	0.6550
3.900	0.4160	1.293	0.5266E-01	0.5332E-01	0.1925E-01	3.638	0.3805E-07	0.7029
4.200	0.5800	1.278	0.6935E-01	0.5139E-01	0.1953E-01	3.455	0.3428E-07	0.7686
4.500	0.8688	1.247	0.1019	0.4892E-01	0.1959E-01	3.251	0.2947E-07	0.8833
4.800	1.580	1.186	0.1921	0.4538E-01	0.1946E-01	3.001	0.2233E-07	1.159
5.000	3.540	1.104	0.4758	0.4131E-01	0.1936E-01	2.754	0.1394E-07	1.871
5.090	11.70	1.020	1.819	0.3701E-01	0.1977E-01	2.525	0.5876E-08	4.537
5.090	21.74	0.8032	8.229	0.1752E-01	0.1549E-01	1.790	0.6181E-08	6.430
5.100	20.52	0.8030	7.766	0.1749E-01	0.1542E-01	1.791	0.6516E-08	6.118
5.300	4.706	0.7654	2.406	0.1281E-01	0.1310E-01	1.707	0.2811E-07	1.843
5.500	3.248	0.7537	1.867	0.1110E-01	0.1282E-01	1.706	0.4217E-07	1.416
6.000	2.159	0.7404	1.448	0.8854E-02	0.1292E-01	1.753	0.7058E-07	1.090
6.500	1.772	0.7328	1.295	0.7576E-02	0.1336E-01	1.821	0.9637E-07	0.9685
7.000	1.570	0.7269	1.214	0.6697E-02	0.1392E-01	1.895	0.1219E-06	0.9015
8.000	1.359	0.7176	1.129	0.5514E-02	0.1510E-01	2.046	0.1737E-06	0.8293
9.000	1.251	0.7104	1.086	0.4730E-02	0.1626E-01	2.197	0.2274E-06	0.7929
10.00	1.186	0.7047	1.060	0.4160E-02	0.1736E-01	2.345	0.2834E-06	0.7718
12.00	1.113	0.6963	1.032	0.3375E-02	0.1941E-01	2.629	0.4030E-06	0.7500
15.00	1.062	0.6884	1.012	0.2649E-02	0.2221E-01	3.026	0.6016E-06	0.7366
20.00	1.027	0.6813	1.001	0.1962E-02	0.2643E-01	3.625	0.9834E-06	0.7287
25.00	1.012	0.6774	0.9965	0.1563E-02	0.3027E-01	4.166	0.1426E-05	0.7250
30.00	1.005	0.6751	0.9950	0.1301E-02	0.3388E-01	4.664	0.1926E-05	0.7220
40.00	0.9995	0.6724	0.9945	0.9747E-03	0.4058E-01	5.566	0.3092E-05	0.7161
50.00	0.9976	0.6710	0.9949	0.7800E-03	0.4679E-01	6.381	0.4466E-05	0.7104
60.00	0.9970	0.6701	0.9954	0.6503E-03	0.5266E-01	7.135	0.6034E-05	0.7051
80.00	0.9969	0.6690	0.9963	0.4882E-03	0.6362E-01	8.519	0.9721E-05	0.6961
100.0	0.9971	0.6684	0.9969	0.3908E-03	0.7381E-01	9.792	0.1409E-04	0.6893
120.0	0.9974	0.6681	0.9974	0.3258E-03	0.8342E-01	10.81	0.1911E-04	0.6729
140.0	0.9977	0.6678	0.9978	0.2794E-03	0.9259E-01	11.96	0.2474E-04	0.6707
160.0	0.9980	0.6677	0.9981	0.2445E-03	0.1014	13.06	0.3095E-04	0.6689
180.0	0.9982	0.6675	0.9983	0.2174E-03	0.1099	14.12	0.3773E-04	0.6675
200.0	0.9984	0.6674	0.9985	0.1957E-03	0.1181	15.15	0.4505E-04	0.6664
220.0	0.9985	0.6673	0.9986	0.1779E-03	0.1260	16.15	0.5289E-04	0.6655
240.0	0.9986	0.6673	0.9988	0.1631E-03	0.1338	17.13	0.6125E-04	0.6647
260.0	0.9987	0.6672	0.9989	0.1506E-03	0.1414	18.08	0.7010E-04	0.6642
280.0	0.9988	0.6672	0.9990	0.1398E-03	0.1488	19.02	0.7944E-04	0.6637
300.0	0.9989	0.6671	0.9990	0.1305E-03	0.1561	19.93	0.8926E-04	0.6633
350.0	0.9991	0.6671	0.9992	0.1119E-03	0.1736	22.16	0.1158E-03	0.6627
400.0	0.9992	0.6670	0.9993	0.9793E-04	0.1904	24.30	0.1452E-03	0.6624
500.0	0.9994	0.6669	0.9995	0.7835E-04	0.2224	28.37	0.2119E-03	0.6624
600.0	0.9995	0.6669	0.9996	0.6530E-04	0.2525	32.22	0.2887E-03	0.6626
700.0	0.9996	0.6668	0.9996	0.5598E-04	0.2811	35.90	0.3750E-03	0.6631
800.0	0.9996	0.6668	0.9997	0.4898E-04	0.3086	39.43	0.4704E-03	0.6636
900.0	0.9997	0.6668	0.9997	0.4354E-04	0.3351	42.85	0.5745E-03	0.6641
1000.	0.9997	0.6668	0.9998	0.3919E-04	0.3607	46.16	0.6872E-03	0.6646
1100.	0.9998	0.6668	0.9998	0.3563E-04	0.3855	49.38	0.8080E-03	0.6652
1200.	0.9998	0.6668	0.9998	0.3266E-04	0.4097	52.53	0.9368E-03	0.6657
1300.	0.9998	0.6668	0.9998	0.3015E-04	0.4334	55.60	0.1073E-02	0.6662
1400.	0.9998	0.6667	0.9998	0.2799E-04	0.4565	58.60	0.1217E-02	0.6667
1500.	0.9998	0.6667	0.9999	0.2613E-04	0.4791	61.55	0.1369E-02	0.6672

PRESSURE = 0.230 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
	0.8000	149.0	0.9291	0.2074E-01	1.565	0.3889E-02	0.2170E-01	0.2171E-01	255.8
	1.000	149.0	0.7434	0.3165E-01	1.576	0.1588E-01	0.1046	0.1046	255.5
	1.200	149.0	0.6195	0.7185E-01	1.616	0.5191E-01	0.3292	0.3292	255.4
	1.400	149.0	0.5308	0.1802	1.724	0.1341	0.7998	0.8003	255.1
	1.600	149.1	0.4641	0.4179	1.960	0.2908	1.634	1.637	253.5
	1.800	149.3	0.4119	0.8733	2.413	0.5560	2.988	3.001	249.9
	2.000	149.8	0.3696	1.687	3.223	0.9804	5.303	5.346	244.0
1	2.055	150.0	0.3593	2.013	3.547	1.140	6.348	6.412	242.0
2	2.145	150.4	0.3433	2.724	4.254	1.476	10.16	10.37	238.0
3	2.154	150.4	0.3417	2.827	4.356	1.524	12.82	13.26	237.3
3	2.156	150.4	0.3413	2.853	4.382	1.536	7.891	7.969	238.0
2	2.165	150.4	0.3399	2.906	4.435	1.560	4.959	4.960	238.8
1	2.255	150.3	0.3266	3.203	4.733	1.695	2.612	2.651	240.8
	2.400	149.8	0.3080	3.537	5.072	1.841	2.075	2.171	242.5
	2.700	148.4	0.2764	4.151	5.701	2.088	1.921	2.145	241.7
	3.000	146.3	0.2523	4.792	6.364	2.321	1.951	2.358	238.2
	3.300	143.7	0.2335	5.529	7.130	2.564	2.137	2.760	232.4
	3.600	140.5	0.2189	6.386	8.023	2.823	2.298	3.194	224.6
	3.900	136.7	0.2077	7.367	9.050	3.096	2.411	3.667	215.2
	4.200	132.0	0.1998	8.491	10.23	3.389	2.487	4.253	203.9
	4.500	126.1	0.1952	9.805	11.63	3.709	2.545	5.129	189.8
	4.800	117.9	0.1957	11.44	13.39	4.088	2.602	6.879	170.8
	5.000	109.5	0.2022	12.93	15.03	4.422	2.653	10.10	152.9
	5.100	102.8	0.2111	14.01	16.24	4.662	2.694	15.12	140.4
	5.300	43.45	0.4808	23.15	28.44	7.001	3.022	27.33	107.5
	5.500	34.41	0.5850	25.37	32.06	7.672	3.061	13.57	114.1
	6.000	26.12	0.7065	28.48	37.29	8.585	3.081	8.749	127.0
	6.500	22.00	0.7743	30.84	41.29	9.227	3.085	7.461	137.1
	7.000	19.29	0.8201	32.93	44.85	9.755	3.088	6.844	145.7
	8.000	15.75	0.8785	36.75	51.35	10.62	3.096	6.240	160.3
	9.000	13.46	0.9141	40.34	57.43	11.34	3.104	5.943	172.9
	10.00	11.81	0.9376	43.80	63.28	11.96	3.110	5.768	184.1
	12.00	9.555	0.9657	50.52	74.59	12.99	3.119	5.572	203.9
	15.00	7.486	0.9860	60.35	91.07	14.21	3.125	5.429	229.5
	20.00	5.541	0.9991	76.40	117.9	15.76	3.127	5.323	265.8
	25.00	4.413	1.004	92.27	144.4	16.94	3.126	5.275	297.1
	30.00	3.671	1.005	108.0	170.7	17.90	3.125	5.249	325.3
	40.00	2.752	1.006	139.4	223.0	19.41	3.123	5.223	375.0
	50.00	2.202	1.006	170.7	275.2	20.57	3.121	5.211	418.8
	60.00	1.836	1.005	202.0	327.3	21.52	3.120	5.205	458.3
	80.00	1.378	1.004	264.4	431.3	23.02	3.119	5.199	528.5
	100.0	1.104	1.003	326.8	535.2	24.18	3.118	5.196	590.3
	120.0	0.9201	1.003	389.2	639.1	25.12	3.117	5.195	646.3
	140.0	0.7890	1.002	451.5	743.0	25.92	3.117	5.194	697.8
	160.0	0.6906	1.002	513.9	846.9	26.62	3.117	5.194	745.7
	180.0	0.6140	1.002	576.2	950.8	27.23	3.117	5.193	790.8
	200.0	0.5527	1.002	638.5	1055.	27.78	3.117	5.193	833.4
	220.0	0.5025	1.001	700.8	1159.	28.27	3.117	5.193	873.9
	240.0	0.4607	1.001	763.2	1262.	28.72	3.116	5.193	912.7
	260.0	0.4253	1.001	825.5	1366.	29.14	3.116	5.193	949.8
	280.0	0.3950	1.001	887.8	1470.	29.52	3.116	5.193	985.6
	300.0	0.3687	1.001	950.1	1574.	29.88	3.116	5.193	1020.
	350.0	0.3161	1.001	1106.	1834.	30.68	3.116	5.193	1102.
	400.0	0.2766	1.001	1262.	2093.	31.38	3.116	5.193	1178.
	500.0	0.2213	1.001	1573.	2613.	32.53	3.116	5.193	1316.
	600.0	0.1845	1.000	1885.	3132.	33.48	3.116	5.193	1442.
	700.0	0.1581	1.000	2196.	3651.	34.28	3.116	5.193	1557.
	800.0	0.1384	1.000	2508.	4170.	34.98	3.116	5.193	1665.
	900.0	0.1230	1.000	2820.	4690.	35.59	3.116	5.193	1766.
	1000.	0.1107	1.000	3131.	5209.	36.13	3.116	5.193	1861.
	1100.	0.1006	1.000	3443.	5728.	36.63	3.116	5.193	1952.
	1200.	0.9225E-01	1.000	3754.	6248.	37.08	3.116	5.193	2039.
	1300.	0.8516E-01	1.000	4066.	6767.	37.50	3.116	5.193	2122.
	1400.	0.7908E-01	1.000	4378.	7286.	37.88	3.116	5.193	2202.
	1500.	0.7380E-01	1.000	4689.	7805.	38.24	3.116	5.193	2279.

PRESSURE = 0.230 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_v$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	0.3393E-03	1.278	0.2360E-01	0.5847E-01				
1.000	0.3636E-03	0.2269	0.2365E-01	0.5846E-01				
1.200	-0.6401E-03	-0.1057	0.2367E-01	0.5846E-01				
1.400	-0.3436E-02	-0.1995	0.2375E-01	0.5848E-01				
1.600	-0.9028E-02	-0.2215	0.2405E-01	0.5852E-01				
1.800	-0.1913E-01	-0.2211	0.2477E-01	0.5862E-01				
2.000	-0.3819E-01	-0.2126	0.2601E-01	0.5879E-01				
2.055	-0.4748E-01	-0.2110	0.2646E-01	0.5886E-01				
2.145	-0.9109E-01	-0.2320	0.2757E-01	0.5902E-01				
2.154	-0.1324	-0.2611	0.2810E-01	0.5904E-01				
2.156	-0.5507E-01	-0.1815	0.2727E-01	0.5905E-01				
2.165	-0.7831E-02	-0.4157E-01	0.2682E-01	0.5905E-01				
2.255	0.3937E-01	0.3818	0.2679E-01	0.5900E-01				
2.400	0.6423E-01	0.7249	0.2732E-01	0.5880E-01				
2.700	0.1077	1.086	0.2965E-01	0.5823E-01				
3.000	0.1612	1.293	0.3348E-01	0.5741E-01				
3.300	0.2215	1.314	0.3826E-01	0.5637E-01				
3.600	0.2980	1.308	0.4509E-01	0.5510E-01	0.1885E-01	3.846	0.4201E-07	0.6517
3.900	0.4011	1.299	0.5526E-01	0.5358E-01	0.1936E-01	3.679	0.3863E-07	0.6968
4.200	0.5523	1.286	0.7168E-01	0.5173E-01	0.1967E-01	3.499	0.3503E-07	0.7568
4.500	0.8067	1.258	0.1021	0.4938E-01	0.1976E-01	3.302	0.3057E-07	0.8569
4.800	1.364	1.205	0.1768	0.4615E-01	0.1967E-01	3.068	0.2426E-07	1.073
5.000	2.463	1.140	0.3420	0.4285E-01	0.1956E-01	2.862	0.1768E-07	1.478
5.100	4.249	1.086	0.6369	0.4021E-01	0.1954E-01	2.713	0.1257E-07	2.099
5.300	10.04	0.8011	4.144	0.1691E-01	0.1490E-01	1.828	0.1254E-07	3.355
5.500	4.439	0.7736	2.278	0.1338E-01	0.1361E-01	1.774	0.2914E-07	1.769
6.000	2.448	0.7517	1.551	0.1015E-01	0.1327E-01	1.794	0.5807E-07	1.183
6.500	1.913	0.7414	1.346	0.8545E-02	0.1359E-01	1.853	0.8278E-07	1.018
7.000	1.657	0.7341	1.245	0.7490E-02	0.1409E-01	1.922	0.1067E-06	0.9334
8.000	1.404	0.7232	1.145	0.6116E-02	0.1524E-01	2.068	0.1550E-06	0.8468
9.000	1.280	0.7149	1.095	0.5224E-02	0.1637E-01	2.216	0.2047E-06	0.8044
10.00	1.206	0.7085	1.066	0.4583E-02	0.1746E-01	2.361	0.2563E-06	0.7803
12.00	1.125	0.6992	1.034	0.3707E-02	0.1949E-01	2.642	0.3661E-06	0.7553
15.00	1.068	0.6905	1.013	0.2904E-02	0.2228E-01	3.036	0.5482E-06	0.7399
20.00	1.029	0.6827	1.001	0.2149E-02	0.2647E-01	3.633	0.8976E-06	0.7305
25.00	1.013	0.6785	0.9961	0.1711E-02	0.3031E-01	4.173	0.1302E-05	0.7262
30.00	1.006	0.6759	0.9946	0.1424E-02	0.3391E-01	4.670	0.1760E-05	0.7228
40.00	0.9995	0.6730	0.9940	0.1067E-02	0.4060E-01	5.571	0.2825E-05	0.7166
50.00	0.9974	0.6714	0.9944	0.8539E-03	0.4682E-01	6.385	0.4080E-05	0.7107
60.00	0.9967	0.6704	0.9949	0.7120E-03	0.5268E-01	7.139	0.5513E-05	0.7053
80.00	0.9966	0.6692	0.9959	0.5345E-03	0.6364E-01	8.522	0.8881E-05	0.6962
100.0	0.9969	0.6686	0.9966	0.4279E-03	0.7383E-01	9.794	0.1288E-04	0.6894
120.0	0.9972	0.6682	0.9972	0.3568E-03	0.8344E-01	10.81	0.1746E-04	0.6729
140.0	0.9975	0.6680	0.9976	0.3059E-03	0.9261E-01	11.96	0.2260E-04	0.6707
160.0	0.9978	0.6678	0.9979	0.2678E-03	0.1014	13.06	0.2827E-04	0.6689
180.0	0.9980	0.6676	0.9982	0.2381E-03	0.1099	14.12	0.3446E-04	0.6675
200.0	0.9982	0.6675	0.9984	0.2143E-03	0.1181	15.15	0.4114E-04	0.6664
220.0	0.9984	0.6674	0.9985	0.1949E-03	0.1261	16.15	0.4830E-04	0.6654
240.0	0.9985	0.6673	0.9987	0.1786E-03	0.1338	17.13	0.5593E-04	0.6647
260.0	0.9986	0.6673	0.9988	0.1649E-03	0.1414	18.08	0.6402E-04	0.6641
280.0	0.9987	0.6672	0.9989	0.1532E-03	0.1488	19.02	0.7255E-04	0.6636
300.0	0.9988	0.6672	0.9990	0.1430E-03	0.1561	19.93	0.8152E-04	0.6633
350.0	0.9990	0.6671	0.9991	0.1226E-03	0.1736	22.16	0.1058E-03	0.6627
400.0	0.9991	0.6670	0.9992	0.1072E-03	0.1905	24.30	0.1326E-03	0.6624
500.0	0.9993	0.6669	0.9994	0.8581E-04	0.2224	28.37	0.1935E-03	0.6623
600.0	0.9995	0.6669	0.9995	0.7152E-04	0.2525	32.22	0.2636E-03	0.6626
700.0	0.9995	0.6669	0.9996	0.6130E-04	0.2811	35.90	0.3424E-03	0.6630
800.0	0.9996	0.6668	0.9997	0.5364E-04	0.3086	39.43	0.4295E-03	0.6635
900.0	0.9997	0.6668	0.9997	0.4769E-04	0.3351	42.85	0.5246E-03	0.6641
1000.	0.9997	0.6668	0.9997	0.4292E-04	0.3607	46.16	0.6274E-03	0.6646
1100.	0.9997	0.6668	0.9998	0.3902E-04	0.3856	49.38	0.7378E-03	0.6651
1200.	0.9998	0.6668	0.9998	0.3577E-04	0.4098	52.53	0.8553E-03	0.6657
1300.	0.9998	0.6668	0.9998	0.3302E-04	0.4334	55.60	0.9800E-03	0.6662
1400.	0.9998	0.6668	0.9998	0.3066E-04	0.4565	58.60	0.1112E-02	0.6667
1500.	0.9998	0.6667	0.9998	0.2862E-04	0.4791	61.55	0.1250E-02	0.6672

PRESSURE = 0.240 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
	0.8000	149.1	0.9685	0.2233E-01	1.632	0.3861E-02	0.2162E-01	0.2163E-01	256.7
	1.000	149.1	0.7749	0.3324E-01	1.643	0.1585E-01	0.1048	0.1048	256.4
	1.200	149.1	0.6457	0.7351E-01	1.683	0.5195E-01	0.3298	0.3298	256.2
	1.400	149.1	0.5533	0.1820	1.791	0.1343	0.8009	0.8015	255.8
	1.600	149.3	0.4838	0.4202	2.028	0.2912	1.636	1.639	254.2
	1.800	149.5	0.4293	0.8763	2.482	0.5567	2.991	3.004	250.5
	2.000	149.9	0.3853	1.692	3.292	0.9816	5.310	5.355	244.7
1	2.054	150.1	0.3746	2.011	3.610	1.138	6.335	6.401	242.8
2	2.144	150.5	0.3580	2.722	4.316	1.474	10.13	10.35	238.8
3	2.153	150.6	0.3563	2.824	4.418	1.522	12.78	13.23	238.1
3	2.155	150.6	0.3559	2.850	4.444	1.534	7.874	7.956	238.8
2	2.164	150.6	0.3544	2.904	4.497	1.558	4.948	4.949	239.6
1	2.254	150.5	0.3406	3.199	4.794	1.693	2.606	2.644	241.6
	2.400	150.0	0.3210	3.535	5.135	1.840	2.068	2.164	243.4
	2.700	148.6	0.2881	4.145	5.761	2.086	1.915	2.138	242.6
	3.000	146.5	0.2629	4.783	6.421	2.317	1.947	2.349	239.2
	3.300	143.9	0.2433	5.517	7.184	2.559	2.133	2.748	233.5
	3.600	140.8	0.2280	6.368	8.073	2.817	2.295	3.177	225.8
	3.900	137.0	0.2163	7.342	9.094	3.089	2.407	3.642	216.6
	4.200	132.4	0.2078	8.455	10.27	3.379	2.483	4.211	205.5
	4.500	126.6	0.2028	9.751	11.65	3.695	2.541	5.044	191.8
	4.800	118.8	0.2027	11.34	13.37	4.065	2.596	6.632	173.6
	5.000	111.1	0.2081	12.75	14.91	4.380	2.643	9.257	157.0
	5.100	105.3	0.2151	13.70	15.98	4.591	2.677	12.60	145.9
	5.300	55.47	0.3930	21.14	25.47	6.402	2.961	67.50	107.7
	5.500	38.17	0.5504	24.69	30.98	7.425	3.044	16.15	113.0
	6.000	27.94	0.6893	28.13	36.72	8.429	3.075	9.189	126.2
	6.500	23.31	0.7626	30.57	40.87	9.094	3.081	7.661	136.5
	7.000	20.35	0.8113	32.71	44.51	9.634	3.085	6.964	145.3
	8.000	16.54	0.8730	36.59	51.09	10.51	3.094	6.301	160.1
	9.000	14.10	0.9104	40.20	57.22	11.24	3.103	5.983	172.7
	10.00	12.36	0.9349	43.68	63.10	11.86	3.110	5.797	184.0
	12.00	9.985	0.9642	50.43	74.46	12.89	3.119	5.589	203.9
	15.00	7.816	0.9854	60.27	90.98	14.12	3.125	5.439	229.6
	20.00	5.782	0.9991	76.35	117.9	15.67	3.127	5.329	265.9
	25.00	4.604	1.004	92.23	144.4	16.85	3.126	5.279	297.3
	30.00	3.830	1.006	108.0	170.7	17.81	3.125	5.251	325.4
	40.00	2.870	1.006	139.4	223.0	19.32	3.123	5.224	375.2
	50.00	2.297	1.006	170.7	275.2	20.48	3.121	5.212	418.9
	60.00	1.915	1.005	202.0	327.3	21.43	3.120	5.205	458.4
	80.00	1.438	1.004	264.4	431.3	22.93	3.119	5.199	528.6
	100.0	1.151	1.004	326.8	535.3	24.09	3.118	5.196	590.4
	120.0	0.9600	1.003	389.2	639.2	25.03	3.117	5.195	646.4
	140.0	0.8232	1.003	451.5	743.1	25.84	3.117	5.194	697.9
	160.0	0.7205	1.002	513.9	846.9	26.53	3.117	5.194	745.8
	180.0	0.6406	1.002	576.2	950.8	27.14	3.117	5.193	790.8
	200.0	0.5767	1.002	638.5	1055.	27.69	3.117	5.193	833.4
	220.0	0.5244	1.002	700.8	1159.	28.18	3.117	5.193	874.0
	240.0	0.4807	1.001	763.2	1262.	28.63	3.116	5.193	912.7
	260.0	0.4438	1.001	825.5	1366.	29.05	3.116	5.193	949.9
	280.0	0.4122	1.001	887.8	1470.	29.44	3.116	5.193	985.6
	300.0	0.3847	1.001	950.1	1574.	29.79	3.116	5.193	1020.
	350.0	0.3298	1.001	1106.	1834.	30.59	3.116	5.193	1102.
	400.0	0.2886	1.001	1262.	2093.	31.29	3.116	5.193	1178.
	500.0	0.2309	1.001	1573.	2613.	32.45	3.116	5.193	1316.
	600.0	0.1925	1.000	1885.	3132.	33.39	3.116	5.193	1442.
	700.0	0.1650	1.000	2196.	3651.	34.19	3.116	5.193	1557.
	800.0	0.1444	1.000	2508.	4170.	34.89	3.116	5.193	1665.
	900.0	0.1283	1.000	2820.	4690.	35.50	3.116	5.193	1766.
	1000.	0.1155	1.000	3131.	5209.	36.05	3.116	5.193	1861.
	1100.	0.1050	1.000	3443.	5728.	36.54	3.116	5.193	1952.
	1200.	0.9626E-01	1.000	3754.	6248.	36.99	3.116	5.193	2039.
	1300.	0.8886E-01	1.000	4066.	6767.	37.41	3.116	5.193	2122.
	1400.	0.8251E-01	1.000	4378.	7286.	37.79	3.116	5.193	2202.
	1500.	0.7701E-01	1.000	4689.	7806.	38.15	3.116	5.193	2279.

PRESSURE = 0.240 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_V}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	0.3262E-03	1.242	0.2444E-01	0.5853E-01				
1.000	0.3570E-03	0.2239	0.2449E-01	0.5852E-01				
1.200	-0.6482E-03	-0.1075	0.2452E-01	0.5852E-01				
1.400	-0.3485E-02	-0.2032	0.2462E-01	0.5854E-01				
1.600	-0.9196E-02	-0.2265	0.2494E-01	0.5859E-01				
1.800	-0.1950E-01	-0.2264	0.2569E-01	0.5868E-01				
2.000	-0.3884E-01	-0.2172	0.2695E-01	0.5886E-01				
2.054	-0.4804E-01	-0.2154	0.2740E-01	0.5892E-01				
2.144	-0.9187E-01	-0.2361	0.2856E-01	0.5908E-01				
2.153	-0.1334	-0.2653	0.2911E-01	0.5911E-01				
2.155	-0.5585E-01	-0.1857	0.2824E-01	0.5912E-01				
2.164	-0.8397E-02	-0.4500E-01	0.2777E-01	0.5912E-01				
2.254	0.3888E-01	0.3808	0.2772E-01	0.5907E-01				
2.400	0.6377E-01	0.7275	0.2826E-01	0.5887E-01				
2.700	0.1067	1.088	0.3063E-01	0.5830E-01				
3.000	0.1594	1.295	0.3453E-01	0.5749E-01				
3.300	0.2189	1.316	0.3939E-01	0.5646E-01				
3.600	0.2938	1.310	0.4629E-01	0.5521E-01	0.1890E-01	3.866	0.4224E-07	0.6502
3.900	0.3941	1.302	0.5650E-01	0.5371E-01	0.1941E-01	3.700	0.3891E-07	0.6940
4.200	0.5397	1.289	0.7277E-01	0.5189E-01	0.1973E-01	3.521	0.3540E-07	0.7514
4.500	0.7796	1.264	0.1023	0.4960E-01	0.1985E-01	3.326	0.3108E-07	0.8454
4.800	1.281	1.213	0.1713	0.4650E-01	0.1977E-01	3.100	0.2510E-07	1.040
5.000	2.168	1.154	0.3073	0.4345E-01	0.1967E-01	2.906	0.1913E-07	1.368
5.100	3.344	1.108	0.5036	0.4120E-01	0.1963E-01	2.776	0.1479E-07	1.782
5.300	25.92	0.8408	8.498	0.2160E-01	0.1765E-01	1.972	0.4714E-08	7.544
5.500	5.473	0.7864	2.614	0.1484E-01	0.1416E-01	1.818	0.2298E-07	2.073
6.000	2.624	0.7579	1.612	0.1086E-01	0.1347E-01	1.816	0.5247E-07	1.239
6.500	1.993	0.7459	1.373	0.9054E-02	0.1371E-01	1.870	0.7677E-07	1.045
7.000	1.704	0.7378	1.261	0.7901E-02	0.1418E-01	1.936	0.1001E-06	0.9505
8.000	1.428	0.7260	1.153	0.6423E-02	0.1531E-01	2.079	0.1468E-06	0.8559
9.000	1.294	0.7172	1.100	0.5474E-02	0.1643E-01	2.225	0.1947E-06	0.8103
10.00	1.216	0.7104	1.069	0.4796E-02	0.1751E-01	2.370	0.2444E-06	0.7845
12.00	1.130	0.7006	1.036	0.3875E-02	0.1953E-01	2.649	0.3500E-06	0.7579
15.00	1.071	0.6915	1.014	0.3032E-02	0.2231E-01	3.041	0.5248E-06	0.7415
20.00	1.030	0.6834	1.000	0.2243E-02	0.2650E-01	3.637	0.8600E-06	0.7314
25.00	1.014	0.6790	0.9960	0.1786E-02	0.3033E-01	4.176	0.1248E-05	0.7267
30.00	1.006	0.6763	0.9943	0.1485E-02	0.3393E-01	4.673	0.1687E-05	0.7232
40.00	0.9995	0.6732	0.9937	0.1113E-02	0.4062E-01	5.573	0.2709E-05	0.7168
50.00	0.9973	0.6716	0.9941	0.8908E-03	0.4683E-01	6.387	0.3911E-05	0.7108
60.00	0.9966	0.6705	0.9947	0.7428E-03	0.5269E-01	7.140	0.5285E-05	0.7053
80.00	0.9964	0.6694	0.9957	0.5576E-03	0.6365E-01	8.524	0.8513E-05	0.6962
100.0	0.9967	0.6687	0.9965	0.4464E-03	0.7383E-01	9.796	0.1234E-04	0.6894
120.0	0.9971	0.6683	0.9971	0.3722E-03	0.8345E-01	10.81	0.1673E-04	0.6729
140.0	0.9974	0.6680	0.9975	0.3192E-03	0.9261E-01	11.96	0.2166E-04	0.6707
160.0	0.9977	0.6678	0.9978	0.2794E-03	0.1014	13.06	0.2710E-04	0.6689
180.0	0.9979	0.6677	0.9981	0.2484E-03	0.1099	14.12	0.3303E-04	0.6675
200.0	0.9981	0.6675	0.9983	0.2236E-03	0.1181	15.15	0.3943E-04	0.6663
220.0	0.9983	0.6674	0.9985	0.2033E-03	0.1261	16.15	0.4630E-04	0.6654
240.0	0.9984	0.6674	0.9986	0.1864E-03	0.1338	17.13	0.5361E-04	0.6647
260.0	0.9986	0.6673	0.9987	0.1721E-03	0.1414	18.08	0.6136E-04	0.6641
280.0	0.9987	0.6672	0.9988	0.1598E-03	0.1488	19.02	0.6954E-04	0.6636
300.0	0.9988	0.6672	0.9989	0.1492E-03	0.1561	19.93	0.7813E-04	0.6632
350.0	0.9989	0.6671	0.9991	0.1279E-03	0.1736	22.16	0.1014E-03	0.6627
400.0	0.9991	0.6670	0.9992	0.1119E-03	0.1905	24.30	0.1271E-03	0.6624
500.0	0.9993	0.6670	0.9994	0.8954E-04	0.2224	28.37	0.1855E-03	0.6623
600.0	0.9994	0.6669	0.9995	0.7462E-04	0.2525	32.22	0.2526E-03	0.6626
700.0	0.9995	0.6669	0.9996	0.6397E-04	0.2811	35.90	0.3281E-03	0.6630
800.0	0.9996	0.6668	0.9996	0.5598E-04	0.3086	39.43	0.4116E-03	0.6635
900.0	0.9996	0.6668	0.9997	0.4976E-04	0.3351	42.85	0.5028E-03	0.6641
1000.	0.9997	0.6668	0.9997	0.4478E-04	0.3607	46.16	0.6013E-03	0.6646
1100.	0.9997	0.6668	0.9998	0.4071E-04	0.3856	49.38	0.7070E-03	0.6651
1200.	0.9997	0.6668	0.9998	0.3732E-04	0.4098	52.53	0.8197E-03	0.6657
1300.	0.9998	0.6668	0.9998	0.3445E-04	0.4334	55.60	0.9392E-03	0.6662
1400.	0.9998	0.6668	0.9998	0.3199E-04	0.4565	58.60	0.1065E-02	0.6667
1500.	0.9998	0.6668	0.9998	0.2986E-04	0.4791	61.55	0.1198E-02	0.6672

PRESSURE = 0.260 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	149.4	1.047	0.2567E-01	1.766	0.3809E-02	0.2146E-01	0.2147E-01	258.4
	1.000	149.4	0.8378	0.3658E-01	1.777	0.1581E-01	0.1051	0.1051	258.0
	1.200	149.4	0.6981	0.7700E-01	1.817	0.5202E-01	0.3309	0.3309	257.7
	1.400	149.5	0.5982	0.1859	1.926	0.1347	0.8033	0.8039	257.1
	1.600	149.6	0.5230	0.4249	2.163	0.2920	1.640	1.644	255.4
	1.800	149.8	0.4641	0.8825	2.618	0.5582	2.998	3.012	251.9
	2.000	150.3	0.4164	1.701	3.431	0.9843	5.323	5.371	246.2
1	2.052	150.5	0.4054	2.009	3.737	1.135	6.309	6.379	244.4
2	2.142	150.9	0.3873	2.717	4.440	1.470	10.08	10.31	240.4
3	2.151	150.9	0.3855	2.819	4.541	1.517	12.71	13.18	239.7
3	2.153	151.0	0.3851	2.846	4.568	1.530	7.842	7.929	240.4
2	2.162	151.0	0.3834	2.898	4.621	1.554	4.925	4.928	241.2
1	2.252	150.8	0.3684	3.192	4.916	1.688	2.593	2.630	243.3
	2.400	150.3	0.3469	3.530	5.260	1.836	2.054	2.148	245.2
	2.700	148.9	0.3113	4.135	5.881	2.080	1.905	2.123	244.6
	3.000	146.9	0.2840	4.767	6.536	2.310	1.937	2.330	241.3
	3.300	144.4	0.2627	5.492	7.293	2.550	2.125	2.725	235.7
	3.600	141.3	0.2461	6.333	8.173	2.805	2.287	3.146	228.2
	3.900	137.6	0.2332	7.294	9.183	3.075	2.400	3.595	219.3
	4.200	133.2	0.2238	8.387	10.34	3.360	2.476	4.134	208.7
	4.500	127.7	0.2179	9.648	11.68	3.669	2.532	4.892	195.7
	4.800	120.4	0.2166	11.17	13.33	4.022	2.585	6.232	178.9
	5.000	113.6	0.2204	12.45	14.74	4.310	2.626	8.123	164.1
	5.100	109.0	0.2251	13.25	15.64	4.488	2.654	10.02	154.9
	5.300	92.04	0.2566	15.92	18.75	5.083	2.757	28.53	128.6
	5.500	49.10	0.4635	22.78	28.08	6.814	2.993	27.30	111.9
	6.000	31.96	0.6527	27.36	35.49	8.113	3.060	10.30	124.7
	6.500	26.08	0.7384	30.03	40.00	8.835	3.073	8.114	135.5
	7.000	22.54	0.7934	32.27	43.81	9.400	3.080	7.225	144.5
	8.000	18.15	0.8619	36.25	50.57	10.30	3.091	6.431	159.7
	9.000	15.41	0.9028	39.92	56.80	11.04	3.101	6.064	172.5
	10.00	13.47	0.9296	43.44	62.75	11.67	3.109	5.854	183.9
	12.00	10.85	0.9614	50.24	74.20	12.71	3.119	5.624	204.0
	15.00	8.478	0.9843	60.13	90.80	13.95	3.126	5.460	229.7
	20.00	6.264	0.9991	76.25	117.8	15.50	3.128	5.340	266.1
	25.00	4.986	1.004	92.15	144.3	16.68	3.127	5.286	297.5
	30.00	4.147	1.006	108.0	170.6	17.64	3.126	5.256	325.7
	40.00	3.108	1.007	139.4	223.0	19.15	3.123	5.227	375.4
	50.00	2.487	1.006	170.7	275.2	20.32	3.122	5.213	419.1
	60.00	2.074	1.006	202.0	327.3	21.26	3.120	5.206	458.6
	80.00	1.557	1.005	264.4	431.4	22.76	3.119	5.199	528.8
	100.0	1.247	1.004	326.8	535.3	23.92	3.118	5.196	590.6
	120.0	1.040	1.003	389.2	639.2	24.87	3.118	5.195	646.5
	140.0	0.8916	1.003	451.5	743.1	25.67	3.117	5.194	698.0
	160.0	0.7804	1.002	513.9	847.0	26.36	3.117	5.194	745.9
	180.0	0.6939	1.002	576.2	950.9	26.97	3.117	5.193	791.0
	200.0	0.6247	1.002	638.5	1055.	27.52	3.117	5.193	833.6
	220.0	0.5680	1.002	700.8	1159.	28.02	3.117	5.193	874.1
	240.0	0.5207	1.002	763.2	1262.	28.47	3.117	5.193	912.8
	260.0	0.4807	1.001	825.5	1366.	28.88	3.116	5.193	950.0
	280.0	0.4465	1.001	887.8	1470.	29.27	3.116	5.193	985.7
	300.0	0.4167	1.001	950.1	1574.	29.63	3.116	5.193	1020.
	350.0	0.3573	1.001	1106.	1834.	30.43	3.116	5.193	1102.
	400.0	0.3127	1.001	1262.	2093.	31.12	3.116	5.193	1178.
	500.0	0.2502	1.001	1573.	2613.	32.28	3.116	5.193	1316.
	600.0	0.2085	1.001	1885.	3132.	33.23	3.116	5.193	1442.
	700.0	0.1787	1.000	2196.	3651.	34.03	3.116	5.193	1557.
	800.0	0.1564	1.000	2508.	4170.	34.72	3.116	5.193	1665.
	900.0	0.1390	1.000	2820.	4690.	35.33	3.116	5.193	1766.
	1000.	0.1251	1.000	3131.	5209.	35.88	3.116	5.193	1861.
	1100.	0.1138	1.000	3443.	5728.	36.37	3.116	5.193	1952.
	1200.	0.1043	1.000	3754.	6248.	36.83	3.116	5.193	2039.
	1300.	0.9626E-01	1.000	4066.	6767.	37.24	3.116	5.193	2122.
	1400.	0.8939E-01	1.000	4378.	7286.	37.63	3.116	5.193	2202.
	1500.	0.8343E-01	1.000	4689.	7806.	37.98	3.116	5.193	2279.

PRESSURE = 0.260 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
0.8000	0.2997E-03	1.165	0.2607E-01	0.5865E-01				
1.000	0.3385E-03	0.2144	0.2614E-01	0.5864E-01				
1.200	-0.6750E-03	-0.1129	0.2620E-01	0.5864E-01				
1.400	-0.3595E-02	-0.2112	0.2633E-01	0.5866E-01				
1.600	-0.9535E-02	-0.2366	0.2670E-01	0.5871E-01				
1.800	-0.2024E-01	-0.2368	0.2749E-01	0.5881E-01				
2.000	-0.4010E-01	-0.2263	0.2879E-01	0.5899E-01				
2.052	-0.4913E-01	-0.2242	0.2925E-01	0.5906E-01				
2.142	-0.9342E-01	-0.2445	0.3049E-01	0.5922E-01				
2.151	-0.1353	-0.2740	0.3110E-01	0.5925E-01				
2.153	-0.5737E-01	-0.1941	0.3015E-01	0.5925E-01				
2.162	-0.9500E-02	-0.5186E-01	0.2962E-01	0.5926E-01				
2.252	0.3793E-01	0.3790	0.2955E-01	0.5921E-01				
2.400	0.6288E-01	0.7330	0.3010E-01	0.5901E-01				
2.700	0.1047	1.093	0.3253E-01	0.5845E-01				
3.000	0.1561	1.300	0.3657E-01	0.5766E-01				
3.300	0.2137	1.321	0.4156E-01	0.5665E-01				
3.600	0.2858	1.314	0.4859E-01	0.5542E-01	0.1898E-01	3.906	0.4270E-07	0.6473
3.900	0.3810	1.307	0.5884E-01	0.5396E-01	0.1952E-01	3.740	0.3946E-07	0.6888
4.200	0.5165	1.296	0.7482E-01	0.5220E-01	0.1986E-01	3.564	0.3609E-07	0.7416
4.500	0.7319	1.273	0.1027	0.5001E-01	0.2001E-01	3.374	0.3203E-07	0.8250
4.800	1.148	1.229	0.1627	0.4713E-01	0.1997E-01	3.158	0.2662E-07	0.9859
5.000	1.777	1.178	0.2628	0.4446E-01	0.1987E-01	2.984	0.2154E-07	1.220
5.100	2.431	1.142	0.3752	0.4266E-01	0.1982E-01	2.877	0.1814E-07	1.454
5.300	9.242	1.011	1.766	0.3596E-01	0.1985E-01	2.532	0.7561E-08	3.638
5.500	9.867	0.8231	3.857	0.1911E-01	0.1589E-01	1.948	0.1185E-07	3.348
6.000	3.063	0.7717	1.759	0.1242E-01	0.1393E-01	1.866	0.4233E-07	1.379
6.500	2.171	0.7556	1.434	0.1013E-01	0.1397E-01	1.905	0.6603E-07	1.106
7.000	1.805	0.7456	1.296	0.8754E-02	0.1438E-01	1.965	0.8829E-07	0.9873
8.000	1.477	0.7318	1.169	0.7049E-02	0.1545E-01	2.101	0.1324E-06	0.8746
9.000	1.324	0.7219	1.109	0.5980E-02	0.1655E-01	2.244	0.1772E-06	0.8222
10.00	1.236	0.7143	1.075	0.5226E-02	0.1761E-01	2.386	0.2234E-06	0.7930
12.00	1.142	0.7036	1.039	0.4210E-02	0.1962E-01	2.662	0.3215E-06	0.7632
15.00	1.076	0.6936	1.015	0.3289E-02	0.2238E-01	3.052	0.4835E-06	0.7446
20.00	1.033	0.6847	1.000	0.2430E-02	0.2655E-01	3.645	0.7937E-06	0.7332
25.00	1.015	0.6800	0.9956	0.1934E-02	0.3037E-01	4.183	0.1153E-05	0.7278
30.00	1.006	0.6771	0.9938	0.1608E-02	0.3396E-01	4.678	0.1558E-05	0.7240
40.00	0.9994	0.6738	0.9932	0.1205E-02	0.4064E-01	5.578	0.2502E-05	0.7172
50.00	0.9971	0.6720	0.9936	0.9646E-03	0.4685E-01	6.391	0.3613E-05	0.7111
60.00	0.9963	0.6709	0.9943	0.8043E-03	0.5271E-01	7.144	0.4882E-05	0.7055
80.00	0.9961	0.6696	0.9954	0.6039E-03	0.6367E-01	8.527	0.7863E-05	0.6963
100.0	0.9965	0.6689	0.9962	0.4835E-03	0.7385E-01	9.798	0.1140E-04	0.6894
120.0	0.9968	0.6684	0.9968	0.4032E-03	0.8347E-01	10.81	0.1545E-04	0.6729
140.0	0.9972	0.6681	0.9973	0.3457E-03	0.9263E-01	11.96	0.2000E-04	0.6707
160.0	0.9975	0.6679	0.9976	0.3026E-03	0.1014	13.06	0.2502E-04	0.6689
180.0	0.9977	0.6677	0.9979	0.2691E-03	0.1099	14.12	0.3050E-04	0.6675
200.0	0.9980	0.6676	0.9981	0.2422E-03	0.1181	15.15	0.3641E-04	0.6663
220.0	0.9981	0.6675	0.9983	0.2202E-03	0.1261	16.16	0.4275E-04	0.6654
240.0	0.9983	0.6674	0.9985	0.2019E-03	0.1338	17.13	0.4950E-04	0.6647
260.0	0.9984	0.6674	0.9986	0.1864E-03	0.1414	18.09	0.5665E-04	0.6641
280.0	0.9986	0.6673	0.9987	0.1731E-03	0.1488	19.02	0.6420E-04	0.6636
300.0	0.9987	0.6672	0.9988	0.1616E-03	0.1561	19.94	0.7213E-04	0.6632
350.0	0.9989	0.6672	0.9990	0.1385E-03	0.1737	22.16	0.9360E-04	0.6626
400.0	0.9990	0.6671	0.9991	0.1212E-03	0.1905	24.30	0.1173E-03	0.6624
500.0	0.9992	0.6670	0.9993	0.9700E-04	0.2224	28.37	0.1712E-03	0.6623
600.0	0.9994	0.6669	0.9995	0.8084E-04	0.2525	32.22	0.2332E-03	0.6626
700.0	0.9995	0.6669	0.9996	0.6930E-04	0.2812	35.90	0.3029E-03	0.6630
800.0	0.9996	0.6669	0.9996	0.6064E-04	0.3086	39.43	0.3800E-03	0.6635
900.0	0.9996	0.6668	0.9997	0.5390E-04	0.3351	42.85	0.4641E-03	0.6640
1000.	0.9997	0.6668	0.9997	0.4852E-04	0.3607	46.16	0.5551E-03	0.6646
1100.	0.9997	0.6668	0.9997	0.4411E-04	0.3856	49.38	0.6527E-03	0.6651
1200.	0.9997	0.6668	0.9998	0.4043E-04	0.4098	52.53	0.7567E-03	0.6656
1300.	0.9997	0.6668	0.9998	0.3732E-04	0.4334	55.60	0.8670E-03	0.6662
1400.	0.9998	0.6668	0.9998	0.3466E-04	0.4565	58.60	0.9834E-03	0.6667
1500.	0.9998	0.6668	0.9998	0.3235E-04	0.4791	61.55	0.1106E-02	0.6671

PRESSURE = 0.280 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	149.7	1.125	0.2923E-01	1.899	0.3761E-02	0.2129E-01	0.2130E-01	260.1
	1.000	149.7	0.9004	0.4014E-01	1.910	0.1576E-01	0.1054	0.1054	259.7
	1.200	149.7	0.7503	0.8071E-01	1.951	0.5210E-01	0.3320	0.3321	259.2
	1.400	149.8	0.6429	0.1900	2.060	0.1350	0.8058	0.8064	258.5
	1.600	149.9	0.5621	0.4299	2.298	0.2928	1.644	1.648	256.7
	1.800	150.1	0.4988	0.8891	2.754	0.5598	3.005	3.020	253.2
	2.000	150.6	0.4475	1.710	3.569	0.9870	5.336	5.388	247.7
1	2.050	150.8	0.4360	2.006	3.863	1.132	6.284	6.357	246.0
2	2.140	151.2	0.4165	2.712	4.564	1.466	10.03	10.27	242.0
3	2.149	151.3	0.4146	2.814	4.665	1.513	12.64	13.13	241.2
3	2.151	151.3	0.4142	2.841	4.692	1.526	7.809	7.902	241.9
2	2.160	151.3	0.4124	2.894	4.744	1.550	4.903	4.906	242.7
1	2.250	151.2	0.3962	3.186	5.038	1.684	2.580	2.616	244.9
	2.400	150.7	0.3727	3.526	5.384	1.833	2.040	2.133	246.9
	2.700	149.3	0.3344	4.126	6.001	2.075	1.894	2.108	246.5
	3.000	147.3	0.3050	4.751	6.651	2.303	1.928	2.313	243.2
	3.300	144.8	0.2820	5.469	7.402	2.541	2.117	2.703	237.8
	3.600	141.8	0.2640	6.301	8.275	2.794	2.280	3.116	230.6
	3.900	138.2	0.2500	7.248	9.274	3.061	2.393	3.551	221.9
	4.200	133.9	0.2397	8.322	10.41	3.342	2.469	4.063	211.8
	4.500	128.6	0.2329	9.553	11.73	3.644	2.525	4.761	199.4
	4.800	121.8	0.2306	11.02	13.31	3.985	2.574	5.920	183.8
	5.000	115.7	0.2330	12.21	14.63	4.253	2.612	7.383	170.4
	5.100	111.8	0.2363	12.92	15.43	4.411	2.635	8.659	162.3
	5.300	100.2	0.2538	14.88	17.67	4.842	2.705	15.46	141.7
	5.500	68.51	0.3578	19.73	23.82	5.976	2.894	43.49	116.4
	6.000	36.65	0.6130	26.49	34.13	7.787	3.042	11.81	123.6
	6.500	29.07	0.7133	29.44	39.07	8.581	3.064	8.650	134.5
	7.000	24.84	0.7752	31.81	43.08	9.175	3.074	7.517	143.8
	8.000	19.81	0.8506	35.91	50.04	10.11	3.088	6.568	159.3
	9.000	16.73	0.8952	39.64	56.38	10.85	3.099	6.149	172.3
	10.00	14.59	0.9242	43.20	62.40	11.49	3.108	5.913	183.8
	12.00	11.72	0.9585	50.05	73.94	12.54	3.119	5.659	204.0
	15.00	9.140	0.9832	59.98	90.62	13.78	3.127	5.481	229.9
	20.00	6.746	0.9991	76.14	117.6	15.34	3.129	5.351	266.4
	25.00	5.367	1.005	92.07	144.2	16.53	3.128	5.293	297.8
	30.00	4.464	1.007	107.9	170.6	17.49	3.127	5.261	326.0
	40.00	3.345	1.007	139.3	223.0	19.00	3.124	5.229	375.7
	50.00	2.677	1.007	170.7	275.3	20.16	3.122	5.215	419.4
	60.00	2.233	1.006	202.0	327.4	21.11	3.121	5.207	458.8
	80.00	1.677	1.005	264.4	431.4	22.61	3.119	5.200	529.0
	100.0	1.342	1.004	326.8	535.4	23.77	3.118	5.197	590.8
	120.0	1.119	1.003	389.2	639.3	24.71	3.118	5.195	646.7
	140.0	0.9600	1.003	451.5	743.2	25.52	3.117	5.194	698.1
	160.0	0.8403	1.003	513.9	847.1	26.21	3.117	5.194	746.1
	180.0	0.7472	1.002	576.2	950.9	26.82	3.117	5.193	791.1
	200.0	0.6726	1.002	638.5	1055.	27.37	3.117	5.193	833.7
	220.0	0.6116	1.002	700.8	1159.	27.86	3.117	5.193	874.2
	240.0	0.5607	1.002	763.2	1263.	28.31	3.117	5.193	912.9
	260.0	0.5177	1.002	825.5	1366.	28.73	3.116	5.193	950.1
	280.0	0.4807	1.001	887.8	1470.	29.12	3.116	5.193	985.8
	300.0	0.4487	1.001	950.1	1574.	29.47	3.116	5.193	1020.
	350.0	0.3847	1.001	1106.	1834.	30.27	3.116	5.193	1102.
	400.0	0.3367	1.001	1262.	2093.	30.97	3.116	5.193	1178.
	500.0	0.2694	1.001	1573.	2613.	32.13	3.116	5.193	1317.
	600.0	0.2245	1.001	1885.	3132.	33.07	3.116	5.193	1442.
	700.0	0.1925	1.000	2196.	3651.	33.87	3.116	5.193	1557.
	800.0	0.1684	1.000	2508.	4171.	34.57	3.116	5.193	1665.
	900.0	0.1497	1.000	2820.	4690.	35.18	3.116	5.193	1766.
	1000.	0.1348	1.000	3131.	5209.	35.73	3.116	5.193	1861.
	1100.	0.1225	1.000	3443.	5728.	36.22	3.116	5.193	1952.
	1200.	0.1123	1.000	3754.	6248.	36.67	3.116	5.193	2039.
	1300.	0.1037	1.000	4066.	6767.	37.09	3.116	5.193	2122.
	1400.	0.9626E-01	1.000	4378.	7286.	37.47	3.116	5.193	2202.
	1500.	0.8985E-01	1.000	4689.	7806.	37.83	3.116	5.193	2279.

PRESSURE = 0.280 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_V}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
0.8000	0.2735E-03	1.086	0.2766E-01	0.5876E-01				
1.000	0.3130E-03	0.2003	0.2774E-01	0.5876E-01				
1.200	-0.7158E-03	-0.1207	0.2783E-01	0.5876E-01				
1.400	-0.3720E-02	-0.2202	0.2801E-01	0.5878E-01				
1.600	-0.9874E-02	-0.2467	0.2842E-01	0.5883E-01				
1.800	-0.2094E-01	-0.2469	0.2925E-01	0.5893E-01				
2.000	-0.4131E-01	-0.2353	0.3059E-01	0.5912E-01				
2.050	-0.5016E-01	-0.2329	0.3104E-01	0.5919E-01				
2.140	-0.9497E-01	-0.2530	0.3238E-01	0.5936E-01				
2.149	-0.1371	-0.2828	0.3304E-01	0.5938E-01				
2.151	-0.5883E-01	-0.2025	0.3201E-01	0.5939E-01				
2.160	-0.1056E-01	-0.5872E-01	0.3143E-01	0.5940E-01				
2.250	0.3703E-01	0.3771	0.3132E-01	0.5934E-01				
2.400	0.6206E-01	0.7388	0.3188E-01	0.5915E-01				
2.700	0.1029	1.098	0.3436E-01	0.5860E-01				
3.000	0.1530	1.304	0.3853E-01	0.5782E-01				
3.300	0.2089	1.325	0.4364E-01	0.5683E-01				
3.300	0.2089	1.325	0.4364E-01	0.5683E-01				
3.600	0.2783	1.319	0.5077E-01	0.5563E-01	0.1907E-01	3.945	0.4315E-07	0.6446
4.200	0.4957	1.303	0.7673E-01	0.5249E-01	0.1999E-01	3.605	0.3674E-07	0.7328
4.500	0.6909	1.282	0.1032	0.5040E-01	0.2016E-01	3.419	0.3291E-07	0.8076
4.800	1.046	1.243	0.1566	0.4770E-01	0.2015E-01	3.213	0.2795E-07	0.9440
5.000	1.524	1.198	0.2356	0.4529E-01	0.2007E-01	3.052	0.2350E-07	1.123
5.100	1.957	1.168	0.3121	0.4376E-01	0.2003E-01	2.958	0.2068E-07	1.279
5.300	4.387	1.075	0.7953	0.3917E-01	0.1991E-01	2.708	0.1285E-07	2.102
5.500	15.74	0.8912	4.536	0.2671E-01	0.1879E-01	2.199	0.6307E-08	5.089
6.000	3.656	0.7879	1.942	0.1425E-01	0.1448E-01	1.923	0.3347E-07	1.567
6.500	2.380	0.7661	1.503	0.1130E-01	0.1426E-01	1.943	0.5672E-07	1.178
7.000	1.918	0.7537	1.333	0.9651E-02	0.1458E-01	1.995	0.7811E-07	1.028
8.000	1.528	0.7377	1.185	0.7692E-02	0.1560E-01	2.124	0.1199E-06	0.8942
9.000	1.354	0.7266	1.119	0.6496E-02	0.1668E-01	2.263	0.1621E-06	0.8343
10.00	1.257	0.7183	1.081	0.5662E-02	0.1772E-01	2.402	0.2055E-06	0.8016
12.00	1.153	0.7065	1.042	0.4548E-02	0.1970E-01	2.675	0.2971E-06	0.7684
15.00	1.082	0.6958	1.016	0.3546E-02	0.2245E-01	3.062	0.4481E-06	0.7477
20.00	1.035	0.6861	1.000	0.2617E-02	0.2660E-01	3.653	0.7369E-06	0.7348
25.00	1.016	0.6810	0.9952	0.2082E-02	0.3042E-01	4.189	0.1071E-05	0.7289
30.00	1.007	0.6779	0.9933	0.1731E-02	0.3400E-01	4.684	0.1448E-05	0.7247
40.00	0.9994	0.6743	0.9927	0.1297E-02	0.4067E-01	5.582	0.2325E-05	0.7176
50.00	0.9968	0.6724	0.9932	0.1038E-02	0.4688E-01	6.395	0.3358E-05	0.7113
60.00	0.9960	0.6712	0.9938	0.8658E-03	0.5274E-01	7.147	0.4536E-05	0.7057
80.00	0.9958	0.6698	0.9950	0.6501E-03	0.6369E-01	8.529	0.7305E-05	0.6964
100.0	0.9962	0.6690	0.9959	0.5205E-03	0.7387E-01	9.801	0.1059E-04	0.6895
120.0	0.9966	0.6686	0.9966	0.4341E-03	0.8349E-01	10.81	0.1436E-04	0.6729
140.0	0.9970	0.6682	0.9971	0.3722E-03	0.9265E-01	11.96	0.1858E-04	0.6707
160.0	0.9973	0.6680	0.9974	0.3258E-03	0.1014	13.06	0.2324E-04	0.6689
180.0	0.9976	0.6678	0.9978	0.2897E-03	0.1099	14.13	0.2833E-04	0.6674
200.0	0.9978	0.6677	0.9980	0.2608E-03	0.1181	15.16	0.3382E-04	0.6663
220.0	0.9980	0.6676	0.9982	0.2371E-03	0.1261	16.16	0.3970E-04	0.6654
240.0	0.9982	0.6675	0.9984	0.2174E-03	0.1339	17.13	0.4597E-04	0.6646
260.0	0.9983	0.6674	0.9985	0.2007E-03	0.1414	18.09	0.5262E-04	0.6640
280.0	0.9984	0.6673	0.9986	0.1864E-03	0.1489	19.02	0.5963E-04	0.6635
300.0	0.9986	0.6673	0.9987	0.1740E-03	0.1561	19.94	0.6699E-04	0.6631
350.0	0.9988	0.6672	0.9989	0.1492E-03	0.1737	22.16	0.8693E-04	0.6626
400.0	0.9989	0.6671	0.9991	0.1305E-03	0.1905	24.30	0.1090E-03	0.6623
500.0	0.9992	0.6670	0.9993	0.1045E-03	0.2224	28.37	0.1590E-03	0.6623
600.0	0.9993	0.6669	0.9994	0.8705E-04	0.2525	32.22	0.2166E-03	0.6625
700.0	0.9994	0.6669	0.9995	0.7463E-04	0.2812	35.90	0.2813E-03	0.6630
800.0	0.9995	0.6669	0.9996	0.6530E-04	0.3086	39.43	0.3529E-03	0.6635
900.0	0.9996	0.6668	0.9996	0.5805E-04	0.3351	42.85	0.4310E-03	0.6640
1000.	0.9996	0.6668	0.9997	0.5225E-04	0.3607	46.16	0.5155E-03	0.6646
1100.	0.9997	0.6668	0.9997	0.4750E-04	0.3856	49.38	0.6061E-03	0.6651
1200.	0.9997	0.6668	0.9997	0.4354E-04	0.4098	52.53	0.7027E-03	0.6656
1300.	0.9997	0.6668	0.9998	0.4019E-04	0.4334	55.60	0.8051E-03	0.6661
1400.	0.9998	0.6668	0.9998	0.3732E-04	0.4565	58.60	0.9132E-03	0.6666
1500.	0.9998	0.6668	0.9998	0.3483E-04	0.4791	61.55	0.1027E-02	0.6671

PRESSURE = 0.300 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	150.0	1.203	0.3299E-01	2.033	0.3717E-02	0.2112E-01	0.2113E-01	261.7
	1.000	150.0	0.9628	0.4391E-01	2.044	0.1572E-01	0.1056	0.1057	261.3
	1.200	150.0	0.8023	0.8463E-01	2.085	0.5218E-01	0.3332	0.3332	260.7
	1.400	150.1	0.6875	0.1944	2.194	0.1354	0.8083	0.8090	259.8
	1.600	150.2	0.6010	0.4351	2.433	0.2937	1.649	1.653	257.9
	1.800	150.5	0.5333	0.8959	2.890	0.5613	3.011	3.028	254.5
	2.000	150.9	0.4784	1.720	3.707	0.9898	5.349	5.405	249.2
1	2.048	151.1	0.4666	2.004	3.989	1.129	6.258	6.335	247.6
2	2.138	151.5	0.4457	2.708	4.687	1.462	9.981	10.23	243.6
3	2.147	151.6	0.4437	2.809	4.788	1.509	12.57	13.08	242.8
3	2.149	151.6	0.4432	2.837	4.815	1.522	7.776	7.875	243.4
2	2.158	151.6	0.4413	2.889	4.868	1.546	4.881	4.885	244.3
1	2.248	151.5	0.4240	3.180	5.160	1.679	2.568	2.602	246.5
	2.400	151.0	0.3984	3.522	5.509	1.829	2.026	2.119	248.6
	2.700	149.7	0.3574	4.117	6.121	2.070	1.884	2.094	248.3
	3.000	147.7	0.3258	4.736	6.766	2.296	1.919	2.296	245.2
	3.300	145.3	0.3012	5.447	7.512	2.533	2.109	2.682	239.9
	3.600	142.3	0.2819	6.269	8.377	2.784	2.273	3.088	232.8
	3.900	138.8	0.2668	7.205	9.366	3.047	2.386	3.511	224.5
	4.200	134.6	0.2554	8.262	10.49	3.325	2.462	3.999	214.7
	4.500	129.6	0.2477	9.465	11.78	3.621	2.517	4.647	202.9
	4.800	123.1	0.2444	10.88	13.31	3.951	2.565	5.667	188.2
	5.000	117.5	0.2458	12.00	14.56	4.204	2.600	6.854	176.0
	5.100	114.1	0.2482	12.66	15.28	4.348	2.621	7.796	168.8
	5.300	104.8	0.2600	14.30	17.16	4.709	2.676	11.67	151.3
	5.500	86.22	0.3045	17.24	20.72	5.367	2.790	28.12	128.0
	6.000	42.21	0.5703	25.48	32.59	7.446	3.020	13.83	122.9
	6.500	32.33	0.6872	28.82	38.10	8.330	3.053	9.284	133.7
	7.000	27.27	0.7565	31.33	42.33	8.958	3.067	7.841	143.1
	8.000	21.51	0.8394	35.56	49.51	9.918	3.084	6.712	158.9
	9.000	18.08	0.8876	39.36	55.95	10.68	3.097	6.236	172.1
	10.00	15.72	0.9188	42.96	62.05	11.32	3.106	5.974	183.8
	12.00	12.59	0.9557	49.86	73.68	12.38	3.119	5.695	204.1
	15.00	9.804	0.9821	59.84	90.44	13.63	3.127	5.501	230.1
	20.00	7.228	0.9990	76.04	117.5	15.19	3.130	5.362	266.6
	25.00	5.749	1.005	92.00	144.2	16.38	3.129	5.299	298.1
	30.00	4.780	1.007	107.8	170.6	17.34	3.127	5.265	326.2
	40.00	3.582	1.008	139.3	223.0	18.85	3.125	5.232	375.9
	50.00	2.867	1.007	170.7	275.3	20.02	3.123	5.216	419.6
	60.00	2.391	1.007	201.9	327.4	20.97	3.121	5.208	459.1
	80.00	1.796	1.005	264.4	431.5	22.46	3.119	5.200	529.1
	100.0	1.438	1.004	326.8	535.4	23.62	3.119	5.197	590.9
	120.0	1.199	1.004	389.2	639.4	24.57	3.118	5.195	646.8
	140.0	1.028	1.003	451.5	743.2	25.37	3.117	5.194	698.3
	160.0	0.9002	1.003	513.9	847.1	26.07	3.117	5.194	746.2
	180.0	0.8004	1.002	576.2	951.0	26.68	3.117	5.193	791.2
	200.0	0.7206	1.002	638.5	1055.	27.22	3.117	5.193	833.8
	220.0	0.6552	1.002	700.9	1159.	27.72	3.117	5.193	874.3
	240.0	0.6007	1.002	763.2	1263.	28.17	3.117	5.193	913.0
	260.0	0.5546	1.002	825.5	1366.	28.59	3.117	5.193	950.2
	280.0	0.5150	1.001	887.8	1470.	28.97	3.116	5.193	985.9
	300.0	0.4808	1.001	950.1	1574.	29.33	3.116	5.193	1020.
	350.0	0.4122	1.001	1106.	1834.	30.13	3.116	5.193	1102.
	400.0	0.3607	1.001	1262.	2093.	30.82	3.116	5.193	1178.
	500.0	0.2886	1.001	1573.	2613.	31.98	3.116	5.193	1317.
	600.0	0.2406	1.001	1885.	3132.	32.93	3.116	5.193	1442.
	700.0	0.2062	1.001	2196.	3651.	33.73	3.116	5.193	1557.
	800.0	0.1804	1.000	2508.	4171.	34.42	3.116	5.193	1665.
	900.0	0.1604	1.000	2820.	4690.	35.04	3.116	5.193	1766.
	1000.	0.1444	1.000	3131.	5209.	35.58	3.116	5.193	1861.
	1100.	0.1313	1.000	3443.	5728.	36.08	3.116	5.193	1952.
	1200.	0.1203	1.000	3754.	6248.	36.53	3.116	5.193	2039.
	1300.	0.1111	1.000	4066.	6767.	36.94	3.116	5.193	2122.
	1400.	0.1031	1.000	4378.	7286.	37.33	3.116	5.193	2202.
	1500.	0.9626E-01	1.000	4689.	7806.	37.69	3.116	5.193	2279.

PRESSURE = 0.300 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_V}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
0.8000	0.2477E-03	1.004	0.2920E-01	0.5888E-01				
1.000	0.2809E-03	0.1815	0.2930E-01	0.5888E-01				
1.200	-0.7702E-03	-0.1310	0.2942E-01	0.5888E-01				
1.400	-0.3859E-02	-0.2300	0.2964E-01	0.5890E-01				
1.600	-0.1022E-01	-0.2570	0.3010E-01	0.5895E-01				
1.800	-0.2161E-01	-0.2568	0.3097E-01	0.5906E-01				
2.000	-0.4248E-01	-0.2440	0.3234E-01	0.5925E-01				
2.048	-0.5114E-01	-0.2416	0.3279E-01	0.5932E-01				
2.138	-0.9651E-01	-0.2617	0.3422E-01	0.5949E-01				
2.147	-0.1390	-0.2917	0.3494E-01	0.5952E-01				
2.149	-0.6023E-01	-0.2109	0.3382E-01	0.5952E-01				
2.158	-0.1158E-01	-0.6556E-01	0.3318E-01	0.5953E-01				
2.248	0.3615E-01	0.3754	0.3304E-01	0.5948E-01				
2.400	0.6128E-01	0.7448	0.3361E-01	0.5928E-01				
2.700	0.1011	1.103	0.3613E-01	0.5874E-01				
3.000	0.1500	1.309	0.4041E-01	0.5798E-01				
3.300	0.2043	1.329	0.4562E-01	0.5700E-01				
3.600	0.2713	1.323	0.5284E-01	0.5583E-01	0.1916E-01	3.984	0.4359E-07	0.6421
3.900	0.3579	1.317	0.6310E-01	0.5444E-01	0.1973E-01	3.819	0.4048E-07	0.6796
4.200	0.4769	1.309	0.7851E-01	0.5278E-01	0.2011E-01	3.646	0.3736E-07	0.7249
4.500	0.6554	1.291	0.1038	0.5076E-01	0.2031E-01	3.463	0.3373E-07	0.7925
4.800	0.9635	1.255	0.1519	0.4821E-01	0.2032E-01	3.264	0.2913E-07	0.9103
5.000	1.345	1.216	0.2172	0.4601E-01	0.2027E-01	3.114	0.2516E-07	1.053
5.100	1.660	1.190	0.2745	0.4466E-01	0.2022E-01	3.029	0.2273E-07	1.168
5.300	3.015	1.115	0.5456	0.4099E-01	0.2011E-01	2.821	0.1643E-07	1.637
5.500	9.258	0.9809	2.140	0.3367E-01	0.1968E-01	2.478	0.8117E-08	3.541
6.000	4.438	0.8069	2.157	0.1642E-01	0.1515E-01	1.990	0.2594E-07	1.817
6.500	2.625	0.7775	1.578	0.1257E-01	0.1459E-01	1.984	0.4861E-07	1.262
7.000	2.042	0.7624	1.373	0.1060E-01	0.1481E-01	2.026	0.6924E-07	1.073
8.000	1.582	0.7438	1.202	0.8354E-02	0.1576E-01	2.147	0.1092E-06	0.9147
9.000	1.386	0.7315	1.128	0.7020E-02	0.1681E-01	2.282	0.1491E-06	0.8468
10.00	1.278	0.7223	1.087	0.6102E-02	0.1783E-01	2.419	0.1899E-06	0.8102
12.00	1.164	0.7095	1.044	0.4888E-02	0.1979E-01	2.688	0.2760E-06	0.7735
15.00	1.088	0.6979	1.017	0.3804E-02	0.2252E-01	3.073	0.4175E-06	0.7507
20.00	1.037	0.6875	1.000	0.2804E-02	0.2666E-01	3.661	0.6877E-06	0.7365
25.00	1.017	0.6820	0.9948	0.2230E-02	0.3046E-01	4.196	0.9998E-06	0.7299
30.00	1.007	0.6787	0.9928	0.1854E-02	0.3404E-01	4.689	0.1352E-05	0.7254
40.00	0.9993	0.6749	0.9922	0.1389E-02	0.4070E-01	5.586	0.2172E-05	0.7180
50.00	0.9966	0.6728	0.9927	0.1112E-02	0.4690E-01	6.399	0.3136E-05	0.7116
60.00	0.9957	0.6715	0.9934	0.9273E-03	0.5276E-01	7.151	0.4237E-05	0.7059
80.00	0.9955	0.6700	0.9947	0.6963E-03	0.6370E-01	8.532	0.6822E-05	0.6965
100.0	0.9959	0.6692	0.9956	0.5576E-03	0.7389E-01	9.803	0.9888E-05	0.6895
120.0	0.9964	0.6687	0.9963	0.4650E-03	0.8350E-01	10.82	0.1340E-04	0.6730
140.0	0.9968	0.6683	0.9969	0.3987E-03	0.9266E-01	11.97	0.1735E-04	0.6707
160.0	0.9971	0.6681	0.9973	0.3490E-03	0.1015	13.07	0.2170E-04	0.6689
180.0	0.9974	0.6679	0.9976	0.3104E-03	0.1099	14.13	0.2645E-04	0.6674
200.0	0.9976	0.6678	0.9978	0.2794E-03	0.1181	15.16	0.3157E-04	0.6663
220.0	0.9979	0.6676	0.9981	0.2540E-03	0.1261	16.16	0.3707E-04	0.6653
240.0	0.9980	0.6675	0.9982	0.2329E-03	0.1339	17.13	0.4292E-04	0.6646
260.0	0.9982	0.6675	0.9984	0.2150E-03	0.1415	18.09	0.4912E-04	0.6640
280.0	0.9983	0.6674	0.9985	0.1997E-03	0.1489	19.02	0.5566E-04	0.6635
300.0	0.9984	0.6673	0.9986	0.1864E-03	0.1561	19.94	0.6254E-04	0.6631
350.0	0.9987	0.6672	0.9989	0.1598E-03	0.1737	22.16	0.8115E-04	0.3000
400.0	0.9989	0.6671	0.9990	0.1399E-03	0.1905	24.30	0.1017E-03	0.6623
500.0	0.9991	0.6670	0.9992	0.1119E-03	0.2224	28.37	0.1484E-03	0.6622
600.0	0.9993	0.6670	0.9994	0.9327E-04	0.2525	32.22	0.2022E-03	0.6625
700.0	0.9994	0.6669	0.9995	0.7995E-04	0.2812	35.90	0.2626E-03	0.6629
800.0	0.9995	0.6669	0.9996	0.6996E-04	0.3086	39.43	0.3294E-03	0.6635
900.0	0.9996	0.6669	0.9996	0.6219E-04	0.3351	42.85	0.4023E-03	0.6640
1000.	0.9996	0.6668	0.9997	0.5598E-04	0.3607	46.16	0.4811E-03	0.6645
1100.	0.9996	0.6668	0.9997	0.5089E-04	0.3856	49.38	0.5657E-03	0.6651
1200.	0.9997	0.6668	0.9997	0.4665E-04	0.4098	52.53	0.6559E-03	0.6656
1300.	0.9997	0.6668	0.9997	0.4306E-04	0.4334	55.60	0.7515E-03	0.6661
1400.	0.9997	0.6668	0.9998	0.3999E-04	0.4565	58.60	0.8523E-03	0.6666
1500.	0.9998	0.6668	0.9998	0.3732E-04	0.4791	61.55	0.9584E-03	0.6671

PRESSURE = 0.350 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
	0.8000	150.7	1.397	0.4324E-01	2.365	0.3627E-02	0.2071E-01	0.2072E-01	265.8
	1.000	150.7	1.118	0.5420E-01	2.376	0.1565E-01	0.1064	0.1064	265.2
	1.200	150.7	0.9315	0.9533E-01	2.417	0.5242E-01	0.3362	0.3362	264.4
	1.400	150.8	0.7982	0.2063	2.527	0.1363	0.8149	0.8158	263.1
	1.600	150.9	0.6977	0.4493	2.768	0.2959	1.660	1.665	261.0
	1.800	151.2	0.6190	0.9143	3.229	0.5654	3.030	3.049	257.6
	2.000	151.7	0.5552	1.746	4.052	0.9970	5.385	5.450	252.8
1	2.043	151.9	0.5430	1.999	4.303	1.121	6.195	6.282	251.4
2	2.133	152.4	0.5185	2.698	4.995	1.452	9.858	10.14	247.3
3	2.142	152.4	0.5161	2.799	5.095	1.499	12.40	12.96	246.5
3	2.144	152.4	0.5155	2.827	5.123	1.512	7.693	7.806	247.1
2	2.153	152.5	0.5133	2.880	5.175	1.536	4.826	4.831	248.0
1	2.243	152.4	0.4931	3.167	5.464	1.668	2.536	2.569	250.3
	2.400	151.9	0.4623	3.514	5.819	1.821	1.993	2.083	252.8
	2.700	150.5	0.4145	4.097	6.421	2.058	1.859	2.060	252.8
	3.000	148.7	0.3777	4.701	7.054	2.280	1.898	2.256	249.9
	3.300	146.4	0.3488	5.395	7.786	2.512	2.091	2.633	244.9
	3.600	143.6	0.3260	6.196	8.635	2.758	2.255	3.023	238.3
	3.900	140.2	0.3081	7.105	9.600	3.015	2.369	3.419	230.5
	4.200	136.3	0.2943	8.123	10.69	3.284	2.445	3.859	221.6
	4.500	131.7	0.2844	9.269	11.93	3.569	2.500	4.411	211.1
	4.800	125.9	0.2787	10.58	13.36	3.877	2.545	5.201	198.3
	5.000	121.3	0.2779	11.59	14.48	4.104	2.575	6.000	188.1
	5.100	118.5	0.2787	12.15	15.10	4.228	2.592	6.552	182.3
	5.300	111.9	0.2840	13.44	16.57	4.509	2.631	8.258	168.9
	5.500	102.6	0.2986	15.12	18.53	4.873	2.687	11.90	152.7
	6.000	60.65	0.4630	22.38	28.15	6.542	2.934	19.26	125.6
	6.500	41.87	0.6191	27.05	35.41	7.707	3.019	11.31	132.7
	7.000	33.96	0.7087	30.03	40.34	8.439	3.046	8.808	142.0
	8.000	25.97	0.8109	34.65	48.13	9.482	3.074	7.110	158.2
	9.000	21.55	0.8687	38.64	54.88	10.28	3.091	6.466	171.7
	10.00	18.61	0.9056	42.35	61.16	10.94	3.103	6.130	183.6
	12.00	14.80	0.9487	49.38	73.03	12.02	3.119	5.786	204.3
	15.00	11.47	0.9793	59.48	89.99	13.29	3.129	5.553	230.5
	20.00	8.433	0.9990	75.78	117.3	14.86	3.132	5.390	267.2
	25.00	6.701	1.006	91.80	144.0	16.05	3.131	5.317	298.7
	30.00	5.570	1.008	107.7	170.5	17.02	3.129	5.277	326.9
	40.00	4.174	1.009	139.2	223.1	18.53	3.126	5.238	376.6
	50.00	3.341	1.009	170.6	275.3	19.70	3.124	5.220	420.2
	60.00	2.787	1.008	201.9	327.5	20.65	3.122	5.211	459.6
	80.00	2.093	1.006	264.4	431.6	22.14	3.120	5.201	529.6
	100.0	1.676	1.005	326.8	535.6	23.30	3.119	5.198	591.4
	120.0	1.398	1.004	389.2	639.5	24.25	3.118	5.196	647.2
	140.0	1.199	1.004	451.5	743.4	25.05	3.118	5.195	698.6
	160.0	1.050	1.003	513.9	847.3	25.75	3.117	5.194	746.5
	180.0	0.9334	1.003	576.2	951.2	26.36	3.117	5.193	791.5
	200.0	0.8404	1.003	638.5	1055.	26.90	3.117	5.193	834.1
	220.0	0.7642	1.002	700.9	1159.	27.40	3.117	5.193	874.6
	240.0	0.7006	1.002	763.2	1263.	27.85	3.117	5.193	913.3
	260.0	0.6468	1.002	825.5	1367.	28.27	3.117	5.193	950.4
	280.0	0.6007	1.002	887.8	1470.	28.65	3.117	5.193	986.1
	300.0	0.5608	1.002	950.2	1574.	29.01	3.116	5.193	1021.
	350.0	0.4808	1.001	1106.	1834.	29.81	3.116	5.193	1102.
	400.0	0.4208	1.001	1262.	2094.	30.50	3.116	5.193	1178.
	500.0	0.3367	1.001	1573.	2613.	31.66	3.116	5.193	1317.
	600.0	0.2806	1.001	1885.	3132.	32.61	3.116	5.193	1442.
	700.0	0.2406	1.001	2197.	3651.	33.41	3.116	5.193	1558.
	800.0	0.2105	1.001	2508.	4171.	34.10	3.116	5.193	1665.
	900.0	0.1871	1.000	2820.	4690.	34.71	3.116	5.193	1766.
	1000.	0.1684	1.000	3131.	5209.	35.26	3.116	5.193	1861.
	1100.	0.1531	1.000	3443.	5729.	35.76	3.116	5.193	1952.
	1200.	0.1404	1.000	3754.	6248.	36.21	3.116	5.193	2039.
	1300.	0.1296	1.000	4066.	6767.	36.62	3.116	5.193	2122.
	1400.	0.1203	1.000	4378.	7286.	37.01	3.116	5.193	2202.
	1500.	0.1123	1.000	4689.	7806.	37.37	3.116	5.193	2279.

PRESSURE = 0.350 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
0.8000	0.1866E-03	0.7954	0.3287E-01	0.5917E-01				
1.000	0.1748E-03	0.1156	0.3301E-01	0.5916E-01				
1.200	-0.9630E-03	-0.1668	0.3322E-01	0.5917E-01				
1.400	-0.4267E-02	-0.2586	0.3357E-01	0.5919E-01				
1.600	-0.1107E-01	-0.2829	0.3416E-01	0.5925E-01				
1.800	-0.2317E-01	-0.2802	0.3510E-01	0.5936E-01				
2.000	-0.4523E-01	-0.2652	0.3653E-01	0.5957E-01				
2.043	-0.5339E-01	-0.2629	0.3697E-01	0.5963E-01				
2.133	-0.1003	-0.2838	0.3863E-01	0.5981E-01				
2.142	-0.1436	-0.3144	0.3950E-01	0.5984E-01				
2.144	-0.6351E-01	-0.2317	0.3815E-01	0.5985E-01				
2.153	-0.1397E-01	-0.8260E-01	0.3737E-01	0.5986E-01				
2.243	0.3412E-01	0.3712	0.3712E-01	0.5981E-01				
2.400	0.5951E-01	0.7605	0.3771E-01	0.5961E-01				
2.700	0.9706E-01	1.115	0.4030E-01	0.5909E-01				
3.000	0.1430	1.319	0.4480E-01	0.5837E-01				
3.300	0.1938	1.338	0.5021E-01	0.5743E-01				
3.600	0.2555	1.333	0.5757E-01	0.5632E-01	0.1937E-01	4.079	0.4462E-07	0.6368
3.900	0.3334	1.329	0.6777E-01	0.5500E-01	0.1997E-01	3.915	0.4166E-07	0.6702
4.200	0.4369	1.324	0.8251E-01	0.5345E-01	0.2040E-01	3.745	0.3878E-07	0.7083
4.500	0.5837	1.310	0.1053	0.5160E-01	0.2065E-01	3.568	0.3556E-07	0.7621
4.800	0.8141	1.282	0.1445	0.4933E-01	0.2073E-01	3.383	0.3165E-07	0.8485
5.000	1.062	1.252	0.1902	0.4748E-01	0.2071E-01	3.249	0.2847E-07	0.9412
5.100	1.240	1.232	0.2247	0.4641E-01	0.2069E-01	3.177	0.2664E-07	1.006
5.300	1.811	1.181	0.3439	0.4379E-01	0.2060E-01	3.018	0.2229E-07	1.210
5.500	3.101	1.106	0.6476	0.4011E-01	0.2041E-01	2.821	0.1672E-07	1.645
6.000	6.383	0.8716	2.401	0.2363E-01	0.1720E-01	2.223	0.1473E-07	2.488
6.500	3.386	0.8110	1.779	0.1629E-01	0.1556E-01	2.103	0.3287E-07	1.528
7.000	2.405	0.7862	1.478	0.1320E-01	0.1543E-01	2.112	0.5159E-07	1.205
8.000	1.728	0.7599	1.246	0.1009E-01	0.1618E-01	2.208	0.8761E-07	0.9704
9.000	1.468	0.7439	1.152	0.8370E-02	0.1715E-01	2.331	0.1231E-06	0.8790
10.00	1.332	0.7325	1.102	0.7225E-02	0.1813E-01	2.461	0.1590E-06	0.8321
12.00	1.193	0.7170	1.051	0.5745E-02	0.2003E-01	2.722	0.2339E-06	0.7861
15.00	1.102	0.7032	1.019	0.4451E-02	0.2271E-01	3.099	0.3565E-06	0.7580
20.00	1.043	0.6910	1.000	0.3272E-02	0.2680E-01	3.681	0.5895E-06	0.7403
25.00	1.020	0.6846	0.9939	0.2600E-02	0.3057E-01	4.212	0.8582E-06	0.7324
30.00	1.008	0.6807	0.9916	0.2161E-02	0.3413E-01	4.703	0.1161E-05	0.7271
40.00	0.9991	0.6762	0.9908	0.1619E-02	0.4078E-01	5.598	0.1865E-05	0.7190
50.00	0.9960	0.6738	0.9915	0.1296E-02	0.4697E-01	6.408	0.2693E-05	0.7122
60.00	0.9950	0.6723	0.9923	0.1081E-02	0.5282E-01	7.159	0.3638E-05	0.7063
80.00	0.9948	0.6706	0.9938	0.8117E-03	0.6376E-01	8.540	0.5856E-05	0.6967
100.0	0.9952	0.6696	0.9949	0.6500E-03	0.7394E-01	9.810	0.8486E-05	0.6896
120.0	0.9958	0.6690	0.9957	0.5421E-03	0.8355E-01	10.82	0.1150E-04	0.6730
140.0	0.9962	0.6686	0.9963	0.4650E-03	0.9271E-01	11.97	0.1488E-04	0.6707
160.0	0.9966	0.6683	0.9968	0.4070E-03	0.1015	13.07	0.1862E-04	0.6689
180.0	0.9970	0.6681	0.9972	0.3619E-03	0.1100	14.13	0.2269E-04	0.6674
200.0	0.9973	0.6679	0.9975	0.3258E-03	0.1182	15.16	0.2708E-04	0.6662
220.0	0.9975	0.6678	0.9977	0.2963E-03	0.1262	16.16	0.3179E-04	0.6653
240.0	0.9977	0.6677	0.9979	0.2717E-03	0.1339	17.14	0.3681E-04	0.6645
260.0	0.9979	0.6676	0.9981	0.2508E-03	0.1415	18.09	0.4213E-04	0.6639
280.0	0.9981	0.6675	0.9983	0.2329E-03	0.1489	19.02	0.4773E-04	0.6634
300.0	0.9982	0.6675	0.9984	0.2174E-03	0.1562	19.94	0.5363E-04	0.6630
350.0	0.9985	0.6673	0.9987	0.1864E-03	0.1737	22.16	0.6958E-04	0.6624
400.0	0.9987	0.6672	0.9989	0.1631E-03	0.1905	24.30	0.8721E-04	0.6622
500.0	0.9990	0.6671	0.9991	0.1305E-03	0.2225	28.37	0.1273E-03	0.6621
600.0	0.9992	0.6670	0.9993	0.1088E-03	0.2526	32.22	0.1733E-03	0.6624
700.0	0.9993	0.6670	0.9994	0.9327E-04	0.2812	35.90	0.2251E-03	0.6629
800.0	0.9994	0.6669	0.9995	0.8162E-04	0.3087	39.43	0.2824E-03	0.6634
900.0	0.9995	0.6669	0.9996	0.7255E-04	0.3351	42.85	0.3449E-03	0.6639
1000.	0.9995	0.6669	0.9996	0.6530E-04	0.3608	46.16	0.4125E-03	0.6645
1100.	0.9996	0.6668	0.9996	0.5937E-04	0.3856	49.38	0.4850E-03	0.6650
1200.	0.9996	0.6668	0.9997	0.5442E-04	0.4098	52.53	0.5622E-03	0.6656
1300.	0.9997	0.6668	0.9997	0.5024E-04	0.4334	55.60	0.6442E-03	0.6661
1400.	0.9997	0.6668	0.9997	0.4665E-04	0.4565	58.60	0.7307E-03	0.6666
1500.	0.9997	0.6668	0.9998	0.4354E-04	0.4791	61.55	0.8216E-03	0.6671

PRESSURE = 0.400 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	151.4	1.590	0.5464E-01	2.696	0.3562E-02	0.2037E-01	0.2037E-01	269.7
	1.000	151.4	1.272	0.6567E-01	2.707	0.1561E-01	0.1072	0.1072	269.0
	1.200	151.4	1.060	0.1073	2.749	0.5272E-01	0.3393	0.3394	267.9
	1.400	151.5	0.9079	0.2195	2.860	0.1374	0.8218	0.8229	266.3
	1.600	151.7	0.7936	0.4651	3.103	0.2982	1.672	1.678	263.9
	1.800	152.0	0.7039	0.9344	3.566	0.5698	3.049	3.071	260.7
	2.000	152.5	0.6312	1.774	4.396	1.005	5.423	5.497	256.2
1	2.038	152.7	0.6190	1.996	4.616	1.114	6.133	6.230	255.1
2	2.128	153.1	0.5910	2.690	5.302	1.443	9.739	10.05	250.9
3	2.137	153.2	0.5882	2.790	5.401	1.489	12.23	12.84	250.1
3	2.139	153.2	0.5876	2.820	5.430	1.503	7.608	7.736	250.7
2	2.148	153.3	0.5850	2.872	5.482	1.527	4.771	4.778	251.6
1	2.238	153.2	0.5619	3.155	5.767	1.657	2.506	2.535	254.1
	2.400	152.7	0.5256	3.508	6.128	1.813	1.961	2.049	256.8
	2.700	151.4	0.4711	4.079	6.721	2.046	1.836	2.029	257.1
	3.000	149.6	0.4289	4.670	7.342	2.264	1.877	2.218	254.4
	3.300	147.4	0.3959	5.348	8.062	2.493	2.073	2.588	249.7
	3.600	144.7	0.3697	6.131	8.895	2.734	2.239	2.965	243.4
	3.900	141.5	0.3488	7.015	9.841	2.986	2.354	3.339	236.2
	4.200	137.9	0.3326	8.000	10.90	3.248	2.430	3.743	228.0
	4.500	133.5	0.3205	9.099	12.09	3.522	2.484	4.228	218.4
	4.800	128.4	0.3126	10.34	13.45	3.814	2.527	4.876	207.1
	5.000	124.2	0.3100	11.27	14.49	4.025	2.555	5.477	198.2
	5.100	121.9	0.3097	11.77	15.05	4.137	2.570	5.861	193.3
	5.300	116.6	0.3117	12.89	16.32	4.381	2.602	6.908	182.3
	5.500	109.8	0.3188	14.22	17.86	4.666	2.642	8.634	169.5
	6.000	80.30	0.3997	19.46	24.44	5.805	2.823	17.88	136.5
	6.500	53.54	0.5533	25.02	32.49	7.096	2.969	13.39	134.3
	7.000	41.65	0.6605	28.60	38.20	7.944	3.020	9.944	141.8
	8.000	30.76	0.7824	33.70	46.71	9.083	3.062	7.555	157.7
	9.000	25.17	0.8499	37.89	53.78	9.918	3.084	6.713	171.5
	10.00	21.58	0.8925	41.73	60.27	10.60	3.099	6.293	183.6
	12.00	17.04	0.9418	48.90	72.38	11.71	3.118	5.877	204.6
	15.00	13.14	0.9767	59.11	89.55	12.98	3.130	5.605	231.0
	20.00	9.638	0.9990	75.53	117.0	14.57	3.134	5.418	267.9
	25.00	7.652	1.007	91.61	143.9	15.77	3.133	5.334	299.4
	30.00	6.358	1.009	107.5	170.4	16.73	3.131	5.289	327.6
	40.00	4.764	1.011	139.1	223.1	18.25	3.127	5.244	377.2
	50.00	3.814	1.010	170.5	275.4	19.42	3.125	5.224	420.8
	60.00	3.181	1.009	201.8	327.6	20.37	3.123	5.213	460.2
	80.00	2.390	1.007	264.4	431.7	21.87	3.121	5.203	530.1
	100.0	1.914	1.006	326.8	535.7	23.03	3.119	5.198	591.8
	120.0	1.597	1.005	389.2	639.7	23.97	3.119	5.196	647.6
	140.0	1.370	1.004	451.5	743.6	24.77	3.118	5.195	699.0
	160.0	1.199	1.004	513.9	847.5	25.47	3.118	5.194	746.8
	180.0	1.066	1.003	576.2	951.3	26.08	3.117	5.194	791.8
	200.0	0.9601	1.003	638.6	1055.	26.63	3.117	5.193	834.3
	220.0	0.8730	1.003	700.9	1159.	27.12	3.117	5.193	874.8
	240.0	0.8005	1.002	763.2	1263.	27.57	3.117	5.193	913.5
	260.0	0.7390	1.002	825.5	1367.	27.99	3.117	5.193	950.6
	280.0	0.6864	1.002	887.9	1471.	28.37	3.117	5.193	986.4
	300.0	0.6407	1.002	950.2	1574.	28.73	3.117	5.193	1021.
	350.0	0.5493	1.002	1106.	1834.	29.53	3.116	5.193	1102.
	400.0	0.4808	1.001	1262.	2094.	30.23	3.116	5.193	1178.
	500.0	0.3847	1.001	1573.	2613.	31.39	3.116	5.193	1317.
	600.0	0.3207	1.001	1885.	3132.	32.33	3.116	5.193	1442.
	700.0	0.2749	1.001	2197.	3652.	33.13	3.116	5.193	1558.
	800.0	0.2406	1.001	2508.	4171.	33.83	3.116	5.193	1665.
	900.0	0.2139	1.001	2820.	4690.	34.44	3.116	5.193	1766.
	1000.	0.1925	1.000	3131.	5209.	34.98	3.116	5.193	1861.
	1100.	0.1750	1.000	3443.	5729.	35.48	3.116	5.193	1952.
	1200.	0.1604	1.000	3754.	6248.	35.93	3.116	5.193	2039.
	1300.	0.1481	1.000	4066.	6767.	36.35	3.116	5.193	2122.
	1400.	0.1375	1.000	4378.	7287.	36.73	3.116	5.193	2202.
	1500.	0.1283	1.000	4689.	7806.	37.09	3.116	5.193	2279.

PRESSURE = 0.400 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	0.1314E-03	0.5862	0.3632E-01	0.5944E-01				
1.000	0.3713E-04	0.2507E-01	0.3649E-01	0.5944E-01				
1.200	-0.1227E-02	-0.2162	0.3681E-01	0.5945E-01				
1.400	-0.4748E-02	-0.2922	0.3729E-01	0.5947E-01				
1.600	-0.1192E-01	-0.3092	0.3800E-01	0.5954E-01				
1.800	-0.2456E-01	-0.3021	0.3900E-01	0.5966E-01				
2.000	-0.4782E-01	-0.2856	0.4048E-01	0.5988E-01				
2.038	-0.5540E-01	-0.2839	0.4090E-01	0.5994E-01				
2.128	-0.1041	-0.3066	0.4281E-01	0.6013E-01				
2.137	-0.1481	-0.3376	0.4383E-01	0.6016E-01				
2.139	-0.6647E-01	-0.2524	0.4224E-01	0.6016E-01				
2.148	-0.1613E-01	-0.9947E-01	0.4131E-01	0.6017E-01				
2.238	0.3228E-01	0.3673	0.4094E-01	0.6013E-01				
2.400	0.5797E-01	0.7773	0.4153E-01	0.5993E-01				
2.700	0.9346E-01	1.128	0.4417E-01	0.5943E-01				
3.000	0.1367	1.329	0.4881E-01	0.5874E-01				
3.300	0.1845	1.347	0.5436E-01	0.5784E-01				
3.600	0.2417	1.342	0.6179E-01	0.5677E-01	0.1956E-01	4.172	0.4560E-07	0.6324
3.900	0.3127	1.339	0.7186E-01	0.5552E-01	0.2020E-01	4.008	0.4274E-07	0.6625
4.200	0.4043	1.337	0.8599E-01	0.5406E-01	0.2068E-01	3.839	0.4007E-07	0.6951
4.500	0.5291	1.327	0.1069	0.5234E-01	0.2098E-01	3.667	0.3716E-07	0.7391
4.800	0.7122	1.305	0.1402	0.5029E-01	0.2111E-01	3.490	0.3373E-07	0.8061
5.000	0.8928	1.281	0.1756	0.4866E-01	0.2112E-01	3.367	0.3104E-07	0.8729
5.100	1.012	1.265	0.2003	0.4775E-01	0.2111E-01	3.302	0.2954E-07	0.9168
5.300	1.350	1.226	0.2741	0.4563E-01	0.2105E-01	3.165	0.2614E-07	1.039
5.500	1.936	1.172	0.4141	0.4296E-01	0.2093E-01	3.011	0.2207E-07	1.242
6.000	5.544	0.9622	1.695	0.3134E-01	0.1913E-01	2.511	0.1333E-07	2.346
6.500	4.118	0.8526	1.870	0.2085E-01	0.1673E-01	2.251	0.2332E-07	1.802
7.000	2.817	0.8138	1.573	0.1620E-01	0.1616E-01	2.210	0.3903E-07	1.360
8.000	1.888	0.7773	1.290	0.1196E-01	0.1664E-01	2.272	0.7159E-07	1.032
9.000	1.554	0.7570	1.175	0.9780E-02	0.1751E-01	2.382	0.1036E-06	0.9129
10.00	1.387	0.7431	1.116	0.8380E-02	0.1844E-01	2.504	0.1358E-06	0.8544
12.00	1.221	0.7247	1.057	0.6615E-02	0.2028E-01	2.756	0.2025E-06	0.7986
15.00	1.116	0.7085	1.021	0.5101E-02	0.2290E-01	3.125	0.3109E-06	0.7649
20.00	1.049	0.6946	0.9999	0.3740E-02	0.2694E-01	3.700	0.5160E-06	0.7440
25.00	1.022	0.6872	0.9929	0.2968E-02	0.3069E-01	4.228	0.7521E-06	0.7347
30.00	1.010	0.6827	0.9904	0.2467E-02	0.3423E-01	4.717	0.1018E-05	0.7287
40.00	0.9990	0.6776	0.9895	0.1848E-02	0.4086E-01	5.609	0.1635E-05	0.7199
50.00	0.9955	0.6748	0.9903	0.1479E-02	0.4704E-01	6.418	0.2361E-05	0.7127
60.00	0.9943	0.6731	0.9912	0.1234E-02	0.5288E-01	7.168	0.3189E-05	0.7066
80.00	0.9940	0.6711	0.9929	0.9268E-03	0.6381E-01	8.547	0.5132E-05	0.6969
100.0	0.9946	0.6701	0.9942	0.7424E-03	0.7398E-01	9.816	0.7434E-05	0.6897
120.0	0.9952	0.6694	0.9951	0.6192E-03	0.8359E-01	10.83	0.1007E-04	0.6730
140.0	0.9957	0.6689	0.9958	0.5311E-03	0.9275E-01	11.98	0.1304E-04	0.6707
160.0	0.9961	0.6686	0.9964	0.4650E-03	0.1015	13.08	0.1630E-04	0.6688
180.0	0.9965	0.6683	0.9968	0.4135E-03	0.1100	14.14	0.1986E-04	0.6673
200.0	0.9969	0.6681	0.9971	0.3723E-03	0.1182	15.16	0.2371E-04	0.6661
220.0	0.9971	0.6680	0.9974	0.3385E-03	0.1262	16.16	0.2783E-04	0.6652
240.0	0.9974	0.6678	0.9977	0.3104E-03	0.1340	17.14	0.3223E-04	0.6644
260.0	0.9976	0.6677	0.9979	0.2866E-03	0.1415	18.09	0.3688E-04	0.6638
280.0	0.9978	0.6676	0.9980	0.2661E-03	0.1489	19.03	0.4179E-04	0.6633
300.0	0.9979	0.6676	0.9982	0.2484E-03	0.1562	19.94	0.4695E-04	0.6629
350.0	0.9982	0.6674	0.9985	0.2130E-03	0.1738	22.16	0.6091E-04	0.6623
400.0	0.9985	0.6673	0.9987	0.1864E-03	0.1906	24.30	0.7634E-04	0.6621
500.0	0.9988	0.6672	0.9990	0.1492E-03	0.2225	28.37	0.1114E-03	0.6620
600.0	0.9990	0.6671	0.9992	0.1243E-03	0.2526	32.22	0.1517E-03	0.6624
700.0	0.9992	0.6670	0.9993	0.1066E-03	0.2813	35.90	0.1970E-03	0.6628
800.0	0.9993	0.6670	0.9994	0.9327E-04	0.3087	39.43	0.2471E-03	0.6633
900.0	0.9994	0.6669	0.9995	0.8291E-04	0.3352	42.85	0.3018E-03	0.6639
1000.	0.9995	0.6669	0.9995	0.7463E-04	0.3608	46.16	0.3610E-03	0.6644
1100.	0.9995	0.6669	0.9996	0.6785E-04	0.3857	49.38	0.4244E-03	0.6650
1200.	0.9996	0.6668	0.9996	0.6219E-04	0.4099	52.53	0.4920E-03	0.6655
1300.	0.9996	0.6668	0.9997	0.5741E-04	0.4335	55.60	0.5637E-03	0.6660
1400.	0.9996	0.6668	0.9997	0.5331E-04	0.4566	58.60	0.6394E-03	0.6665
1500.	0.9997	0.6668	0.9997	0.4976E-04	0.4792	61.55	0.7190E-03	0.6670

PRESSURE = 0.500 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
	0.8000	152.8	1.970	0.8059E-01	3.354	0.3493E-02	0.2006E-01	0.2006E-01	276.9
	1.000	152.8	1.576	0.9189E-01	3.365	0.1570E-01	0.1093	0.1093	276.2
	1.200	152.8	1.313	0.1347	3.407	0.5357E-01	0.3461	0.3464	274.6
	1.400	152.9	1.125	0.2497	3.520	0.1399	0.8361	0.8380	272.4
	1.600	153.1	0.9828	0.5007	3.767	0.3035	1.697	1.705	269.8
	1.800	153.4	0.8716	0.9792	4.238	0.5792	3.088	3.117	266.9
	2.000	154.0	0.7813	1.835	5.081	1.021	5.510	5.604	262.8
1	2.027	154.1	0.7705	1.994	5.237	1.099	6.017	6.132	262.0
2	2.117	154.7	0.7353	2.680	5.913	1.424	9.515	9.890	257.7
3	2.126	154.7	0.7318	2.779	6.010	1.470	11.91	12.63	256.8
3	2.128	154.8	0.7310	2.810	6.041	1.484	7.434	7.590	257.4
2	2.137	154.8	0.7278	2.861	6.091	1.508	4.661	4.673	258.3
1	2.227	154.7	0.6988	3.137	6.369	1.636	2.446	2.471	261.1
	2.400	154.2	0.6504	3.500	6.743	1.798	1.900	1.985	264.4
	2.700	153.0	0.5826	4.051	7.318	2.024	1.792	1.973	265.2
	3.000	151.4	0.5299	4.617	7.920	2.235	1.839	2.151	262.9
	3.300	149.3	0.4885	5.269	8.617	2.457	2.039	2.508	258.6
	3.600	146.8	0.4554	6.018	9.424	2.690	2.208	2.864	253.0
	3.900	143.9	0.4288	6.861	10.33	2.933	2.325	3.206	246.6
	4.200	140.6	0.4075	7.793	11.35	3.183	2.402	3.558	239.5
	4.500	136.8	0.3910	8.819	12.47	3.442	2.455	3.955	231.4
	4.800	132.4	0.3789	9.953	13.73	3.712	2.497	4.440	222.1
	5.000	129.0	0.3732	10.78	14.66	3.901	2.523	4.846	215.0
	5.100	127.1	0.3712	11.22	15.15	4.000	2.535	5.084	211.2
	5.300	123.1	0.3691	12.16	16.23	4.206	2.562	5.662	202.9
	5.500	118.3	0.3698	13.21	17.43	4.429	2.591	6.434	193.6
	6.000	102.1	0.3930	16.52	21.42	5.121	2.689	10.04	166.5
	6.500	78.18	0.4737	21.18	27.58	6.104	2.838	13.50	147.1
	7.000	59.44	0.5785	25.52	33.93	7.047	2.946	11.65	146.3
	8.000	41.34	0.7279	31.68	43.78	8.367	3.031	8.505	158.4
	9.000	32.87	0.8136	36.35	51.56	9.285	3.068	7.241	171.8
	10.00	27.76	0.8672	40.46	58.47	10.01	3.090	6.635	184.1
	12.00	21.60	0.9286	47.94	71.09	11.16	3.116	6.065	205.3
	15.00	16.51	0.9717	58.39	88.67	12.47	3.132	5.710	232.1
	20.00	12.05	0.9991	75.02	116.5	14.08	3.138	5.472	269.1
	25.00	9.547	1.008	91.23	143.6	15.29	3.137	5.368	300.7
	30.00	7.929	1.012	107.2	170.3	16.26	3.135	5.312	328.9
	40.00	5.940	1.013	138.9	223.1	17.78	3.130	5.257	378.5
	50.00	4.756	1.012	170.4	275.5	18.95	3.127	5.231	422.0
	60.00	3.968	1.011	201.7	327.8	19.90	3.125	5.218	461.3
	80.00	2.982	1.009	264.3	432.0	21.40	3.122	5.205	531.1
	100.0	2.390	1.007	326.8	536.0	22.56	3.120	5.199	592.6
	120.0	1.994	1.006	389.2	640.0	23.51	3.119	5.197	648.4
	140.0	1.710	1.005	451.5	743.9	24.31	3.119	5.195	699.7
	160.0	1.498	1.005	513.9	847.8	25.00	3.118	5.194	747.5
	180.0	1.332	1.004	576.2	951.7	25.62	3.118	5.194	792.4
	200.0	1.199	1.004	638.6	1056.	26.16	3.117	5.193	834.9
	220.0	1.091	1.003	700.9	1159.	26.66	3.117	5.193	875.3
	240.0	1.000	1.003	763.2	1263.	27.11	3.117	5.193	914.0
	260.0	0.9233	1.003	825.6	1367.	27.53	3.117	5.193	951.1
	280.0	0.8575	1.002	887.9	1471.	27.91	3.117	5.193	986.8
	300.0	0.8005	1.002	950.2	1575.	28.27	3.117	5.193	1021.
	350.0	0.6864	1.002	1106.	1834.	29.07	3.117	5.193	1103.
	400.0	0.6008	1.002	1262.	2094.	29.76	3.116	5.193	1179.
	500.0	0.4808	1.001	1573.	2613.	30.92	3.116	5.193	1317.
	600.0	0.4008	1.001	1885.	3133.	31.87	3.116	5.193	1443.
	700.0	0.3436	1.001	2197.	3652.	32.67	3.116	5.193	1558.
	800.0	0.3007	1.001	2508.	4171.	33.36	3.116	5.193	1665.
	900.0	0.2673	1.001	2820.	4690.	33.97	3.116	5.193	1766.
	1000.	0.2406	1.001	3131.	5210.	34.52	3.116	5.193	1862.
	1100.	0.2187	1.001	3443.	5729.	35.02	3.116	5.193	1952.
	1200.	0.2005	1.000	3754.	6248.	35.47	3.116	5.193	2039.
	1300.	0.1851	1.000	4066.	6768.	35.88	3.116	5.193	2122.
	1400.	0.1719	1.000	4378.	7287.	36.27	3.116	5.193	2202.
	1500.	0.1604	1.000	4689.	7806.	36.63	3.116	5.193	2280.

PRESSURE = 0.500 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_p$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_v$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	0.3897E-04	0.1862	0.4268E-01	0.5998E-01				
1.000	-0.3047E-03	-0.2126	0.4292E-01	0.5998E-01				
1.200	-0.1912E-02	-0.3469	0.4343E-01	0.5999E-01				
1.400	-0.5867E-02	-0.3711	0.4417E-01	0.6002E-01				
1.600	-0.1357E-01	-0.3619	0.4510E-01	0.6010E-01				
1.800	-0.2694E-01	-0.3420	0.4618E-01	0.6024E-01				
2.000	-0.5278E-01	-0.3252	0.4781E-01	0.6048E-01				
2.027	-0.5890E-01	-0.3252	0.4817E-01	0.6052E-01				
2.117	-0.1114	-0.3533	0.5060E-01	0.6073E-01				
2.126	-0.1567	-0.3851	0.5195E-01	0.6076E-01				
2.128	-0.7150E-01	-0.2932	0.4980E-01	0.6077E-01				
2.137	-0.1985E-01	-0.1327	0.4853E-01	0.6078E-01				
2.227	0.2906E-01	0.3602	0.4790E-01	0.6075E-01				
2.400	0.5539E-01	0.8127	0.4847E-01	0.6055E-01				
2.700	0.8726E-01	1.152	0.5112E-01	0.6008E-01				
3.000	0.1259	1.348	0.5590E-01	0.5944E-01				
3.300	0.1687	1.363	0.6160E-01	0.5860E-01				
3.600	0.2188	1.358	0.6904E-01	0.5762E-01	0.1994E-01	4.355	0.4741E-07	0.6257
3.900	0.2793	1.358	0.7879E-01	0.5647E-01	0.2064E-01	4.189	0.4471E-07	0.6508
4.200	0.3542	1.359	0.9185E-01	0.5515E-01	0.2118E-01	4.020	0.4233E-07	0.6754
4.500	0.4504	1.355	0.1099	0.5364E-01	0.2156E-01	3.853	0.3986E-07	0.7066
4.800	0.5798	1.342	0.1361	0.5188E-01	0.2179E-01	3.685	0.3707E-07	0.7509
5.000	0.6946	1.326	0.1610	0.5054E-01	0.2186E-01	3.573	0.3498E-07	0.7919
5.100	0.7645	1.315	0.1768	0.4981E-01	0.2188E-01	3.516	0.3384E-07	0.8171
5.300	0.9394	1.288	0.2182	0.4819E-01	0.2187E-01	3.400	0.3139E-07	0.8801
5.500	1.184	1.253	0.2800	0.4633E-01	0.2181E-01	3.279	0.2865E-07	0.9672
6.000	2.438	1.122	0.6598	0.3991E-01	0.2118E-01	2.942	0.2066E-07	1.395
6.500	3.903	0.9626	1.406	0.3050E-01	0.1919E-01	2.601	0.1818E-07	1.830
7.000	3.354	0.8808	1.553	0.2316E-01	0.1787E-01	2.443	0.2581E-07	1.592
8.000	2.213	0.8161	1.352	0.1608E-01	0.1767E-01	2.412	0.5026E-07	1.161
9.000	1.733	0.7851	1.216	0.1278E-01	0.1831E-01	2.488	0.7691E-07	0.9839
10.00	1.499	0.7652	1.142	0.1079E-01	0.1911E-01	2.592	0.1038E-06	0.8998
12.00	1.278	0.7403	1.069	0.8389E-02	0.2081E-01	2.824	0.1589E-06	0.8229
15.00	1.144	0.7194	1.025	0.6411E-02	0.2332E-01	3.178	0.2473E-06	0.7781
20.00	1.060	0.7016	0.9991	0.4675E-02	0.2726E-01	3.740	0.4135E-06	0.7507
25.00	1.027	0.6923	0.9908	0.3704E-02	0.3095E-01	4.260	0.6039E-06	0.7388
30.00	1.012	0.6867	0.9878	0.3076E-02	0.3445E-01	4.744	0.8180E-06	0.7315
40.00	0.9986	0.6803	0.9869	0.2304E-02	0.4103E-01	5.631	0.1314E-05	0.7214
50.00	0.9943	0.6769	0.9878	0.1845E-02	0.4718E-01	6.437	0.1896E-05	0.7137
60.00	0.9928	0.6747	0.9890	0.1539E-02	0.5300E-01	7.185	0.2560E-05	0.7073
80.00	0.9926	0.6723	0.9912	0.1157E-02	0.6391E-01	8.561	0.4118E-05	0.6972
100.0	0.9932	0.6709	0.9927	0.9267E-03	0.7408E-01	9.829	0.5962E-05	0.6899
120.0	0.9939	0.6700	0.9939	0.7731E-03	0.8368E-01	10.84	0.8077E-05	0.6731
140.0	0.9946	0.6695	0.9948	0.6632E-03	0.9284E-01	11.99	0.1045E-04	0.6707
160.0	0.9952	0.6690	0.9955	0.5807E-03	0.1016	13.08	0.1306E-04	0.6688
180.0	0.9957	0.6687	0.9960	0.5164E-03	0.1101	14.14	0.1592E-04	0.6673
200.0	0.9961	0.6685	0.9964	0.4650E-03	0.1183	15.17	0.1900E-04	0.6660
220.0	0.9964	0.6683	0.9968	0.4229E-03	0.1263	16.17	0.2230E-04	0.6650
240.0	0.9967	0.6681	0.9971	0.3877E-03	0.1340	17.15	0.2581E-04	0.6643
260.0	0.9970	0.6680	0.9973	0.3580E-03	0.1416	18.10	0.2954E-04	0.6636
280.0	0.9972	0.6679	0.9975	0.3325E-03	0.1490	19.03	0.3347E-04	0.6631
300.0	0.9974	0.6678	0.9977	0.3104E-03	0.1563	19.94	0.3759E-04	0.6627
350.0	0.9978	0.6676	0.9981	0.2661E-03	0.1738	22.17	0.4877E-04	0.6621
400.0	0.9981	0.6675	0.9984	0.2329E-03	0.1907	24.30	0.6112E-04	0.6619
500.0	0.9985	0.6673	0.9987	0.1864E-03	0.2226	28.37	0.8915E-04	0.6619
600.0	0.9988	0.6672	0.9990	0.1554E-03	0.2527	32.22	0.1214E-03	0.6622
700.0	0.9990	0.6671	0.9991	0.1332E-03	0.2813	35.90	0.1577E-03	0.6627
800.0	0.9991	0.6670	0.9993	0.1166E-03	0.3088	39.44	0.1978E-03	0.6632
900.0	0.9993	0.6670	0.9994	0.1036E-03	0.3352	42.85	0.2415E-03	0.6638
1000.	0.9993	0.6669	0.9994	0.9327E-04	0.3608	46.16	0.2889E-03	0.6643
1100.	0.9994	0.6669	0.9995	0.8480E-04	0.3857	49.39	0.3396E-03	0.6649
1200.	0.9995	0.6669	0.9995	0.7774E-04	0.4099	52.53	0.3937E-03	0.6654
1300.	0.9995	0.6669	0.9996	0.7176E-04	0.4335	55.60	0.4511E-03	0.6660
1400.	0.9996	0.6669	0.9996	0.6664E-04	0.4566	58.60	0.5116E-03	0.6665
1500.	0.9996	0.6668	0.9996	0.6220E-04	0.4792	61.55	0.5753E-03	0.6670

PRESSURE = 0.600 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
	0.8000	154.0	2.344	0.1103	4.005	0.3492E-02	0.2041E-01	0.2041E-01	283.4
	1.000	154.1	1.875	0.1221	4.017	0.1602E-01	0.1122	0.1123	282.6
	1.200	154.1	1.562	0.1665	4.060	0.5483E-01	0.3537	0.3542	280.8
	1.400	154.2	1.338	0.2848	4.176	0.1429	0.8509	0.8537	278.3
	1.600	154.4	1.169	0.5415	4.427	0.3093	1.722	1.733	275.6
	1.800	154.8	1.037	1.029	4.905	0.5893	3.130	3.164	272.9
	2.000	155.5	0.9289	1.904	5.763	1.039	5.612	5.731	268.8
1	2.015	155.5	0.9214	1.996	5.854	1.084	5.909	6.043	268.3
2	2.105	156.1	0.8789	2.676	6.520	1.407	9.313	9.754	264.0
3	2.114	156.2	0.8746	2.774	6.616	1.452	11.62	12.44	263.1
3	2.116	156.2	0.8737	2.805	6.646	1.467	7.255	7.438	263.6
2	2.125	156.2	0.8698	2.855	6.696	1.490	4.552	4.569	264.6
1	2.215	156.2	0.8349	3.126	6.967	1.615	2.387	2.409	267.7
	2.400	155.7	0.7732	3.498	7.353	1.783	1.843	1.926	271.5
	2.700	154.5	0.6922	4.031	7.913	2.004	1.753	1.922	272.7
	3.000	153.0	0.6291	4.576	8.497	2.209	1.803	2.090	270.8
	3.300	151.1	0.5794	5.204	9.175	2.424	2.008	2.438	266.8
	3.600	148.8	0.5393	5.925	9.959	2.651	2.180	2.779	261.7
	3.900	146.1	0.5069	6.734	10.84	2.886	2.298	3.098	256.0
	4.200	143.1	0.4807	7.623	11.82	3.127	2.376	3.415	249.7
	4.500	139.6	0.4598	8.594	12.89	3.374	2.430	3.757	242.7
	4.800	135.7	0.4436	9.654	14.08	3.629	2.472	4.152	234.8
	5.000	132.7	0.4352	10.42	14.94	3.805	2.496	4.464	228.9
	5.100	131.2	0.4318	10.82	15.39	3.895	2.508	4.639	225.7
	5.300	127.8	0.4266	11.66	16.36	4.081	2.532	5.040	219.0
	5.500	124.0	0.4236	12.57	17.41	4.276	2.557	5.529	211.5
	6.000	112.2	0.4292	15.25	20.60	4.829	2.631	7.386	190.1
	6.500	95.65	0.4646	18.73	25.00	5.533	2.735	10.32	168.2
	7.000	76.99	0.5360	22.78	30.57	6.357	2.854	11.37	157.5
	8.000	52.91	0.6824	29.59	40.93	7.744	2.991	9.249	161.8
	9.000	41.12	0.7805	34.76	49.35	8.738	3.048	7.757	173.4
	10.00	34.24	0.8437	39.16	56.68	9.511	3.079	6.980	185.2
	12.00	26.27	0.9163	46.97	69.81	10.71	3.113	6.253	206.4
	15.00	19.91	0.9672	57.67	87.81	12.05	3.134	5.813	233.3
	20.00	14.45	0.9993	74.52	116.0	13.68	3.142	5.526	270.5
	25.00	11.44	1.010	90.85	143.3	14.89	3.141	5.401	302.1
	30.00	9.491	1.014	106.9	170.1	15.87	3.138	5.335	330.3
	40.00	7.109	1.016	138.7	223.1	17.40	3.133	5.269	379.8
	50.00	5.693	1.015	170.2	275.6	18.57	3.129	5.239	423.2
	60.00	4.751	1.013	201.6	327.9	19.52	3.126	5.223	462.4
	80.00	3.572	1.011	264.3	432.2	21.02	3.123	5.207	532.0
	100.0	2.863	1.009	326.7	536.3	22.18	3.121	5.201	593.5
	120.0	2.389	1.007	389.2	640.3	23.13	3.120	5.197	649.1
	140.0	2.050	1.006	451.5	744.2	23.93	3.119	5.196	700.4
	160.0	1.795	1.005	513.9	848.1	24.63	3.119	5.194	748.1
	180.0	1.597	1.005	576.3	952.0	25.24	3.118	5.194	793.0
	200.0	1.438	1.004	638.6	1056.	25.79	3.118	5.193	835.5
	220.0	1.308	1.004	700.9	1160.	26.28	3.118	5.193	875.9
	240.0	1.199	1.004	763.3	1264.	26.73	3.117	5.193	914.5
	260.0	1.107	1.003	825.6	1367.	27.15	3.117	5.193	951.6
	280.0	1.029	1.003	887.9	1471.	27.53	3.117	5.193	987.3
	300.0	0.9602	1.003	950.3	1575.	27.89	3.117	5.193	1022.
	350.0	0.8234	1.002	1106.	1835.	28.69	3.117	5.193	1103.
	400.0	0.7207	1.002	1262.	2094.	29.38	3.117	5.193	1179.
	500.0	0.5768	1.002	1573.	2614.	30.54	3.116	5.193	1318.
	600.0	0.4808	1.001	1885.	3133.	31.49	3.116	5.193	1443.
	700.0	0.4122	1.001	2197.	3652.	32.29	3.116	5.193	1558.
	800.0	0.3607	1.001	2508.	4171.	32.98	3.116	5.193	1666.
	900.0	0.3207	1.001	2820.	4691.	33.60	3.116	5.193	1766.
	1000.	0.2887	1.001	3131.	5210.	34.14	3.116	5.193	1862.
	1100.	0.2624	1.001	3443.	5729.	34.64	3.116	5.193	1953.
	1200.	0.2406	1.001	3755.	6249.	35.09	3.116	5.193	2039.
	1300.	0.2221	1.001	4066.	6768.	35.50	3.116	5.193	2122.
	1400.	0.2062	1.000	4378.	7287.	35.89	3.116	5.193	2202.
	1500.	0.1925	1.000	4689.	7806.	36.25	3.116	5.193	2280.

PRESSURE = 0.600 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_p$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_v$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	-0.3412E-04	-0.1678	0.4850E-01	0.6048E-01				
1.000	-0.6945E-03	-0.4940	0.4879E-01	0.6049E-01				
1.200	-0.2712E-02	-0.5032	0.4945E-01	0.6050E-01				
1.400	-0.7081E-02	-0.4589	0.5039E-01	0.6055E-01				
1.600	-0.1511E-01	-0.4139	0.5148E-01	0.6063E-01				
1.800	-0.2895E-01	-0.3785	0.5263E-01	0.6079E-01				
2.000	-0.5789E-01	-0.3650	0.5453E-01	0.6105E-01				
2.015	-0.6192E-01	-0.3661	0.5479E-01	0.6108E-01				
2.105	-0.1181	-0.4008	0.5778E-01	0.6130E-01				
2.114	-0.1648	-0.4333	0.5947E-01	0.6134E-01				
2.116	-0.7551E-01	-0.3334	0.5667E-01	0.6135E-01				
2.125	-0.2292E-01	-0.1653	0.5505E-01	0.6136E-01				
2.215	0.2634E-01	0.3537	0.5411E-01	0.6133E-01				
2.400	0.5329E-01	0.8498	0.5465E-01	0.6113E-01				
2.700	0.8203E-01	1.176	0.5724E-01	0.6068E-01				
3.000	0.1168	1.365	0.6200E-01	0.6009E-01				
3.300	0.1556	1.377	0.6775E-01	0.5930E-01				
3.600	0.2005	1.372	0.7510E-01	0.5839E-01	0.2029E-01	4.533	0.4906E-07	0.6211
3.900	0.2534	1.374	0.8450E-01	0.5733E-01	0.2104E-01	4.363	0.4648E-07	0.6425
4.200	0.3171	1.378	0.9667E-01	0.5612E-01	0.2164E-01	4.193	0.4429E-07	0.6617
4.500	0.3958	1.379	0.1128	0.5475E-01	0.2209E-01	4.026	0.4212E-07	0.6847
4.800	0.4958	1.372	0.1348	0.5319E-01	0.2239E-01	3.862	0.3975E-07	0.7163
5.000	0.5795	1.360	0.1543	0.5203E-01	0.2251E-01	3.755	0.3800E-07	0.7444
5.100	0.6281	1.353	0.1660	0.5140E-01	0.2255E-01	3.701	0.3707E-07	0.7613
5.300	0.7429	1.333	0.1950	0.5005E-01	0.2259E-01	3.594	0.3509E-07	0.8017
5.500	0.8889	1.308	0.2339	0.4856E-01	0.2258E-01	3.487	0.3295E-07	0.8537
6.000	1.489	1.214	0.4155	0.4389E-01	0.2227E-01	3.210	0.2688E-07	1.065
6.500	2.563	1.082	0.8359	0.3738E-01	0.2114E-01	2.922	0.2142E-07	1.426
7.000	3.094	0.9645	1.252	0.3004E-01	0.1967E-01	2.700	0.2247E-07	1.561
8.000	2.432	0.8604	1.339	0.2060E-01	0.1882E-01	2.567	0.3846E-07	1.262
9.000	1.894	0.8157	1.235	0.1600E-01	0.1917E-01	2.600	0.6011E-07	1.052
10.00	1.606	0.7888	1.159	0.1331E-01	0.1983E-01	2.683	0.8296E-07	0.9444
12.00	1.333	0.7565	1.077	0.1021E-01	0.2137E-01	2.892	0.1301E-06	0.8463
15.00	1.170	0.7304	1.027	0.7732E-02	0.2376E-01	3.230	0.2053E-06	0.7903
20.00	1.070	0.7087	0.9979	0.5610E-02	0.2759E-01	3.779	0.3455E-06	0.7567
25.00	1.032	0.6975	0.9885	0.4438E-02	0.3122E-01	4.292	0.5055E-06	0.7424
30.00	1.013	0.6907	0.9852	0.3683E-02	0.3468E-01	4.772	0.6850E-06	0.7339
40.00	0.9982	0.6831	0.9843	0.2758E-02	0.4121E-01	5.653	0.1100E-05	0.7227
50.00	0.9931	0.6789	0.9854	0.2208E-02	0.4733E-01	6.456	0.1587E-05	0.7145
60.00	0.9914	0.6764	0.9869	0.1843E-02	0.5314E-01	7.202	0.2142E-05	0.7078
80.00	0.9911	0.6734	0.9894	0.1385E-02	0.6403E-01	8.576	0.3442E-05	0.6975
100.0	0.9919	0.6718	0.9913	0.1110E-02	0.7418E-01	9.842	0.4981E-05	0.6900
120.0	0.9928	0.6707	0.9927	0.9266E-03	0.8378E-01	10.85	0.6746E-05	0.6732
140.0	0.9936	0.6700	0.9937	0.7951E-03	0.9293E-01	12.00	0.8723E-05	0.6707
160.0	0.9942	0.6695	0.9946	0.6962E-03	0.1017	13.09	0.1091E-04	0.6687
180.0	0.9948	0.6691	0.9952	0.6193E-03	0.1102	14.15	0.1328E-04	0.6672
200.0	0.9953	0.6688	0.9957	0.5576E-03	0.1184	15.18	0.1585E-04	0.6659
220.0	0.9957	0.6686	0.9961	0.5071E-03	0.1264	16.18	0.1860E-04	0.6649
240.0	0.9961	0.6684	0.9965	0.4650E-03	0.1341	17.15	0.2153E-04	0.6641
260.0	0.9964	0.6683	0.9968	0.4294E-03	0.1417	18.10	0.2464E-04	0.6634
280.0	0.9967	0.6681	0.9970	0.3988E-03	0.1491	19.03	0.2792E-04	0.6629
300.0	0.9969	0.6680	0.9973	0.3723E-03	0.1564	19.95	0.3136E-04	0.6625
350.0	0.9974	0.6678	0.9977	0.3193E-03	0.1739	22.17	0.4067E-04	0.6619
400.0	0.9977	0.6676	0.9980	0.2794E-03	0.1907	24.31	0.5097E-04	0.6617
500.0	0.9982	0.6674	0.9985	0.2236E-03	0.2227	28.37	0.7434E-04	0.6617
600.0	0.9986	0.6673	0.9988	0.1864E-03	0.2527	32.22	0.1012E-03	0.6621
700.0	0.9988	0.6672	0.9990	0.1598E-03	0.2814	35.90	0.1315E-03	0.6625
800.0	0.9990	0.6671	0.9991	0.1399E-03	0.3088	39.44	0.1649E-03	0.6631
900.0	0.9991	0.6670	0.9992	0.1243E-03	0.3353	42.85	0.2013E-03	0.6637
1000.	0.9992	0.6670	0.9993	0.1119E-03	0.3609	46.16	0.2408E-03	0.6642
1100.	0.9993	0.6670	0.9994	0.1017E-03	0.3858	49.39	0.2831E-03	0.6648
1200.	0.9994	0.6669	0.9994	0.9328E-04	0.4100	52.53	0.3282E-03	0.6653
1300.	0.9994	0.6669	0.9995	0.8610E-04	0.4336	55.60	0.3760E-03	0.6659
1400.	0.9995	0.6669	0.9995	0.7996E-04	0.4567	58.60	0.4264E-03	0.6664
1500.	0.9995	0.6669	0.9996	0.7463E-04	0.4793	61.55	0.4795E-03	0.6669

PRESSURE = 0.800 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
	0.8000	156.4	3.077	0.1798	5.294	0.3644E-02	0.2350E-01	0.2350E-01	294.5
	1.000	156.5	2.462	0.1933	5.306	0.1742E-01	0.1209	0.1211	293.8
	1.200	156.5	2.050	0.2417	5.352	0.5861E-01	0.3711	0.3724	292.1
	1.400	156.7	1.756	0.3674	5.473	0.1505	0.8809	0.8862	289.7
	1.600	157.0	1.533	0.6360	5.733	0.3225	1.771	1.787	287.1
	1.800	157.4	1.359	1.144	6.226	0.6112	3.219	3.266	284.5
1	1.992	158.2	1.222	2.014	7.072	1.056	5.717	5.890	279.9
2	2.082	158.8	1.165	2.684	7.723	1.375	8.965	9.543	275.3
3	2.091	158.9	1.159	2.781	7.816	1.420	11.11	12.16	274.4
3	2.093	158.9	1.158	2.811	7.845	1.433	6.892	7.124	275.1
2	2.102	158.9	1.153	2.859	7.893	1.456	4.338	4.365	276.2
1	2.192	158.9	1.106	3.117	8.151	1.577	2.274	2.291	279.8
	2.200	158.9	1.102	3.135	8.169	1.585	2.224	2.244	280.0
	2.400	158.4	1.013	3.509	8.561	1.756	1.740	1.821	284.5
	2.700	157.4	0.9065	4.011	9.095	1.967	1.683	1.833	286.3
	3.000	156.0	0.8228	4.522	9.650	2.162	1.739	1.987	285.1
	3.300	154.3	0.7565	5.110	10.30	2.366	1.951	2.321	281.7
	3.600	152.2	0.7028	5.785	11.04	2.582	2.128	2.641	277.3
	3.900	149.9	0.6588	6.539	11.88	2.805	2.250	2.929	272.5
	4.200	147.3	0.6227	7.364	12.80	3.032	2.331	3.202	267.5
	4.500	144.3	0.5931	8.254	13.80	3.263	2.386	3.480	262.0
	4.800	141.0	0.5689	9.214	14.89	3.497	2.428	3.781	255.9
	5.000	138.6	0.5556	9.894	15.66	3.655	2.453	4.002	251.4
	5.100	137.4	0.5497	10.25	16.07	3.736	2.464	4.121	249.1
	5.300	134.7	0.5395	10.98	16.92	3.899	2.487	4.379	244.1
	5.500	131.8	0.5312	11.76	17.82	4.067	2.509	4.669	238.7
	6.000	123.6	0.5194	13.90	20.37	4.510	2.570	5.582	223.5
	6.500	113.4	0.5225	16.41	23.47	5.004	2.639	6.863	206.5
	7.000	101.0	0.5446	19.37	27.28	5.569	2.722	8.394	190.3
	8.000	75.55	0.6372	25.87	36.46	6.793	2.891	9.324	176.7
	9.000	58.37	0.7332	31.63	45.34	7.840	2.995	8.396	181.0
	10.00	47.80	0.8057	36.56	53.29	8.679	3.050	7.558	189.9
	12.00	35.85	0.8952	45.02	67.34	9.962	3.105	6.610	209.5
	15.00	26.76	0.9595	56.24	86.14	11.36	3.137	6.013	236.1
	20.00	19.25	1.000	73.52	115.1	13.03	3.149	5.630	273.3
	25.00	15.19	1.014	90.10	142.8	14.27	3.148	5.466	304.9
	30.00	12.59	1.019	106.3	169.9	15.26	3.145	5.379	333.0
	40.00	9.429	1.021	138.3	223.2	16.79	3.138	5.293	382.3
	50.00	7.554	1.020	170.0	275.9	17.97	3.133	5.254	425.5
	60.00	6.307	1.018	201.5	328.3	18.92	3.130	5.232	464.6
	80.00	4.746	1.014	264.2	432.7	20.42	3.125	5.212	533.9
	100.0	3.807	1.012	326.7	536.9	21.59	3.123	5.203	595.2
	120.0	3.178	1.010	389.2	640.9	22.53	3.121	5.199	650.7
	140.0	2.728	1.008	451.6	744.8	23.33	3.120	5.196	701.8
	160.0	2.390	1.007	514.0	848.7	24.03	3.119	5.195	749.4
	180.0	2.126	1.006	576.3	952.6	24.64	3.119	5.194	794.2
	200.0	1.915	1.006	638.7	1056.	25.19	3.118	5.193	836.6
	220.0	1.742	1.005	701.0	1160.	25.68	3.118	5.193	876.9
	240.0	1.597	1.005	763.3	1264.	26.13	3.118	5.193	915.5
	260.0	1.475	1.004	825.7	1368.	26.55	3.118	5.193	952.5
	280.0	1.370	1.004	888.0	1472.	26.94	3.117	5.193	988.2
	300.0	1.279	1.004	950.3	1576.	27.29	3.117	5.192	1023.
	350.0	1.097	1.003	1106.	1835.	28.09	3.117	5.192	1104.
	400.0	0.9603	1.003	1262.	2095.	28.79	3.117	5.192	1180.
	500.0	0.7687	1.002	1574.	2614.	29.95	3.117	5.192	1318.
	600.0	0.6408	1.002	1885.	3134.	30.89	3.116	5.192	1443.
	700.0	0.5494	1.001	2197.	3653.	31.69	3.116	5.193	1559.
	800.0	0.4808	1.001	2508.	4172.	32.39	3.116	5.193	1666.
	900.0	0.4275	1.001	2820.	4691.	33.00	3.116	5.193	1767.
	1000.	0.3848	1.001	3131.	5211.	33.54	3.116	5.193	1862.
	1100.	0.3498	1.001	3443.	5730.	34.04	3.116	5.193	1953.
	1200.	0.3207	1.001	3755.	6249.	34.49	3.116	5.193	2040.
	1300.	0.2961	1.001	4066.	6768.	34.91	3.116	5.193	2123.
	1400.	0.2749	1.001	4378.	7288.	35.29	3.116	5.193	2203.
	1500.	0.2566	1.001	4689.	7807.	35.65	3.116	5.193	2280.

PRESSURE = 0.800 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_p$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_v$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	-0.1523E-03	-0.7022	0.5898E-01	0.6143E-01				
1.000	-0.1475E-02	-1.052	0.5933E-01	0.6144E-01				
1.200	-0.4305E-02	-0.8218	0.6013E-01	0.6147E-01				
1.400	-0.9358E-02	-0.6328	0.6121E-01	0.6154E-01				
1.600	-0.1777E-01	-0.5122	0.6239E-01	0.6165E-01				
1.800	-0.3266E-01	-0.4494	0.6373E-01	0.6183E-01				
1.992	-0.6726E-01	-0.4490	0.6652E-01	0.6212E-01				
2.082	-0.1300	-0.4958	0.7076E-01	0.6237E-01				
2.091	-0.1789	-0.5297	0.7319E-01	0.6241E-01				
2.093	-0.8136E-01	-0.4129	0.6877E-01	0.6242E-01				
2.102	-0.2761E-01	-0.2295	0.6640E-01	0.6243E-01				
2.192	0.2193E-01	0.3417	0.6481E-01	0.6242E-01				
2.200	0.2362E-01	0.3750	0.6479E-01	0.6241E-01				
2.400	0.4992E-01	0.9246	0.6529E-01	0.6220E-01				
2.700	0.7353E-01	1.217	0.6760E-01	0.6180E-01				
3.000	0.1023	1.395	0.7208E-01	0.6127E-01				
3.300	0.1353	1.401	0.7776E-01	0.6057E-01				
3.600	0.1726	1.396	0.8483E-01	0.5976E-01	0.2093E-01	4.880	0.5205E-07	0.6159
3.900	0.2154	1.401	0.9354E-01	0.5883E-01	0.2177E-01	4.699	0.4958E-07	0.6323
4.200	0.2650	1.410	0.1043	0.5779E-01	0.2247E-01	4.522	0.4765E-07	0.6444
4.500	0.3233	1.417	0.1178	0.5662E-01	0.2302E-01	4.350	0.4585E-07	0.6575
4.800	0.3929	1.417	0.1349	0.5531E-01	0.2345E-01	4.186	0.4397E-07	0.6751
5.000	0.4472	1.413	0.1490	0.5436E-01	0.2365E-01	4.081	0.4263E-07	0.6906
5.100	0.4773	1.409	0.1570	0.5386E-01	0.2373E-01	4.029	0.4192E-07	0.6997
5.300	0.5445	1.398	0.1756	0.5281E-01	0.2385E-01	3.929	0.4044E-07	0.7212
5.500	0.6228	1.382	0.1982	0.5167E-01	0.2393E-01	3.830	0.3887E-07	0.7474
6.000	0.8867	1.322	0.2816	0.4840E-01	0.2389E-01	3.594	0.3463E-07	0.8400
6.500	1.294	1.237	0.4304	0.4438E-01	0.2346E-01	3.369	0.3015E-07	0.9854
7.000	1.838	1.134	0.6739	0.3950E-01	0.2263E-01	3.160	0.2669E-07	1.172
8.000	2.306	0.9650	1.094	0.2947E-01	0.2123E-01	2.896	0.3013E-07	1.272
9.000	2.040	0.8841	1.174	0.2274E-01	0.2101E-01	2.838	0.4288E-07	1.134
10.00	1.759	0.8398	1.150	0.1860E-01	0.2134E-01	2.872	0.5908E-07	1.017
12.00	1.428	0.7904	1.082	0.1394E-01	0.2255E-01	3.032	0.9513E-07	0.8889
15.00	1.218	0.7528	1.028	0.1040E-01	0.2468E-01	3.335	0.1534E-06	0.8124
20.00	1.090	0.7229	0.9945	0.7475E-02	0.2830E-01	3.856	0.2612E-06	0.7671
25.00	1.040	0.7078	0.9836	0.5895E-02	0.3180E-01	4.355	0.3831E-06	0.7485
30.00	1.017	0.6987	0.9798	0.4887E-02	0.3518E-01	4.826	0.5194E-06	0.7379
40.00	0.9973	0.6885	0.9790	0.3658E-02	0.4160E-01	5.696	0.8335E-06	0.7248
50.00	0.9908	0.6830	0.9806	0.2931E-02	0.4766E-01	6.493	0.1201E-05	0.7158
60.00	0.9886	0.6796	0.9826	0.2447E-02	0.5342E-01	7.236	0.1619E-05	0.7087
80.00	0.9882	0.6756	0.9860	0.1841E-02	0.6426E-01	8.604	0.2598E-05	0.6979
100.0	0.9892	0.6735	0.9884	0.1476E-02	0.7439E-01	9.867	0.3755E-05	0.6902
120.0	0.9904	0.6721	0.9903	0.1233E-02	0.8396E-01	10.87	0.5082E-05	0.6732
140.0	0.9914	0.6712	0.9917	0.1058E-02	0.9310E-01	12.02	0.6568E-05	0.6707
160.0	0.9923	0.6705	0.9927	0.9267E-03	0.1019	13.11	0.8207E-05	0.6686
180.0	0.9931	0.6700	0.9936	0.8244E-03	0.1103	14.17	0.9993E-05	0.6670
200.0	0.9938	0.6696	0.9943	0.7424E-03	0.1185	15.19	0.1192E-04	0.6657
220.0	0.9943	0.6693	0.9948	0.6753E-03	0.1265	16.19	0.1399E-04	0.6646
240.0	0.9948	0.6690	0.9953	0.6193E-03	0.1343	17.16	0.1619E-04	0.6638
260.0	0.9952	0.6688	0.9957	0.5719E-03	0.1418	18.11	0.1852E-04	0.6631
280.0	0.9956	0.6686	0.9961	0.5312E-03	0.1492	19.04	0.2098E-04	0.6625
300.0	0.9959	0.6685	0.9964	0.4960E-03	0.1565	19.95	0.2356E-04	0.6621
350.0	0.9965	0.6682	0.9969	0.4254E-03	0.1740	22.17	0.3056E-04	0.6615
400.0	0.9970	0.6680	0.9974	0.3723E-03	0.1909	24.31	0.3828E-04	0.6613
500.0	0.9976	0.6677	0.9980	0.2981E-03	0.2228	28.38	0.5582E-04	0.6614
600.0	0.9981	0.6675	0.9984	0.2485E-03	0.2529	32.23	0.7599E-04	0.6618
700.0	0.9984	0.6673	0.9986	0.2130E-03	0.2815	35.90	0.9867E-04	0.6623
800.0	0.9986	0.6672	0.9988	0.1864E-03	0.3090	39.44	0.1237E-03	0.6628
900.0	0.9988	0.6672	0.9990	0.1657E-03	0.3354	42.86	0.1511E-03	0.6634
1000.	0.9989	0.6671	0.9991	0.1492E-03	0.3610	46.17	0.1807E-03	0.6640
1100.	0.9991	0.6671	0.9992	0.1356E-03	0.3859	49.39	0.2124E-03	0.6646
1200.	0.9991	0.6670	0.9993	0.1243E-03	0.4101	52.53	0.2462E-03	0.6652
1300.	0.9992	0.6670	0.9993	0.1148E-03	0.4337	55.60	0.2821E-03	0.6657
1400.	0.9993	0.6670	0.9994	0.1066E-03	0.4568	58.61	0.3200E-03	0.6662
1500.	0.9993	0.6670	0.9994	0.9949E-04	0.4794	61.55	0.3598E-03	0.6668

PRESSURE = 1.000 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
	0.8000	158.7	3.793	0.2610	6.563	0.3977E-02	0.2949E-01	0.2950E-01	303.6
	1.000	158.7	3.033	0.2770	6.578	0.1972E-01	0.1329	0.1333	303.2
	1.200	158.8	2.526	0.3303	6.627	0.6385E-01	0.3908	0.3931	302.0
	1.400	159.0	2.163	0.4638	6.753	0.1598	0.9112	0.9190	300.3
	1.600	159.3	1.888	0.7446	7.021	0.3375	1.820	1.842	298.3
	1.800	159.8	1.673	1.274	7.530	0.6355	3.320	3.384	295.3
1	1.968	160.6	1.524	2.045	8.273	1.028	5.544	5.759	290.4
2	2.058	161.3	1.451	2.710	8.911	1.345	8.658	9.372	285.5
3	2.067	161.4	1.443	2.806	9.003	1.390	10.67	11.95	284.7
3	2.069	161.4	1.442	2.833	9.029	1.402	6.542	6.818	285.5
2	2.078	161.4	1.435	2.879	9.074	1.424	4.132	4.170	286.7
1	2.168	161.4	1.376	3.125	9.321	1.540	2.168	2.181	290.7
	2.200	161.4	1.356	3.191	9.388	1.571	2.003	2.026	291.7
	2.400	160.8	1.247	3.536	9.753	1.730	1.652	1.730	296.2
	2.700	159.9	1.115	4.013	10.27	1.934	1.622	1.757	298.5
	3.000	158.7	1.011	4.496	10.80	2.121	1.683	1.900	298.0
	3.300	157.1	0.9285	5.051	11.42	2.317	1.901	2.225	294.9
	3.600	155.3	0.8612	5.690	12.13	2.524	2.082	2.530	291.0
	3.900	153.2	0.8059	6.402	12.93	2.737	2.207	2.798	286.9
	4.200	150.8	0.7600	7.177	13.81	2.954	2.290	3.045	282.7
	4.500	148.2	0.7217	8.010	14.76	3.172	2.348	3.287	278.2
	4.800	145.4	0.6900	8.901	15.78	3.392	2.391	3.539	273.3
	5.000	143.3	0.6719	9.527	16.51	3.540	2.416	3.718	269.7
	5.100	142.2	0.6638	9.851	16.88	3.615	2.428	3.812	267.8
	5.300	140.0	0.6490	10.52	17.66	3.765	2.451	4.011	263.9
	5.500	137.6	0.6363	11.22	18.49	3.917	2.473	4.225	259.6
	6.000	130.9	0.6130	13.11	20.75	4.311	2.531	4.849	247.8
	6.500	123.1	0.6015	15.24	23.36	4.729	2.592	5.633	234.4
	7.000	114.1	0.6027	17.65	26.41	5.180	2.659	6.584	220.4
	8.000	93.31	0.6449	23.21	33.93	6.181	2.806	8.248	198.8
	9.000	74.62	0.7168	28.93	42.33	7.170	2.932	8.341	193.9
	10.00	61.35	0.7847	34.12	50.42	8.024	3.013	7.819	198.3
	12.00	45.58	0.8802	43.12	65.06	9.361	3.094	6.898	214.3
	15.00	33.64	0.9540	54.84	84.56	10.81	3.138	6.196	239.6
	20.00	24.02	1.002	72.55	114.2	12.52	3.156	5.728	276.4
	25.00	18.90	1.019	89.36	142.3	13.78	3.156	5.528	307.8
	30.00	15.66	1.025	105.8	169.6	14.77	3.152	5.422	335.8
	40.00	11.72	1.027	137.9	223.2	16.32	3.143	5.317	384.9
	50.00	9.397	1.025	169.7	276.1	17.50	3.137	5.268	427.9
	60.00	7.850	1.022	201.3	328.7	18.45	3.133	5.242	466.8
	80.00	5.912	1.018	264.1	433.2	19.96	3.128	5.217	535.8
	100.0	4.745	1.015	326.7	537.4	21.12	3.125	5.206	596.9
	120.0	3.963	1.012	389.2	641.5	22.07	3.123	5.200	652.2
	140.0	3.403	1.010	451.6	745.4	22.87	3.121	5.197	703.2
	160.0	2.982	1.009	514.0	849.4	23.57	3.120	5.195	750.7
	180.0	2.653	1.008	576.4	953.3	24.18	3.120	5.194	795.4
	200.0	2.390	1.007	638.7	1057.	24.72	3.119	5.194	837.7
	220.0	2.174	1.006	701.1	1161.	25.22	3.119	5.193	878.0
	240.0	1.994	1.006	763.4	1265.	25.67	3.118	5.193	916.5
	260.0	1.842	1.005	825.7	1369.	26.09	3.118	5.193	953.5
	280.0	1.711	1.005	888.1	1473.	26.47	3.118	5.192	989.1
	300.0	1.597	1.005	950.4	1576.	26.83	3.118	5.192	1023.
	350.0	1.370	1.004	1106.	1836.	27.63	3.117	5.192	1105.
	400.0	1.200	1.003	1262.	2096.	28.32	3.117	5.192	1180.
	500.0	0.9604	1.003	1574.	2615.	29.48	3.117	5.192	1319.
	600.0	0.8007	1.002	1885.	3134.	30.43	3.116	5.192	1444.
	700.0	0.6866	1.002	2197.	3653.	31.23	3.116	5.192	1559.
	800.0	0.6009	1.001	2508.	4173.	31.92	3.116	5.192	1666.
	900.0	0.5342	1.001	2820.	4692.	32.53	3.116	5.193	1767.
	1000.	0.4809	1.001	3132.	5211.	33.08	3.116	5.193	1863.
	1100.	0.4372	1.001	3443.	5730.	33.58	3.116	5.193	1953.
	1200.	0.4008	1.001	3755.	6250.	34.03	3.116	5.193	2040.
	1300.	0.3700	1.001	4066.	6769.	34.44	3.116	5.193	2123.
	1400.	0.3436	1.001	4378.	7288.	34.83	3.116	5.193	2203.
	1500.	0.3207	1.001	4689.	7807.	35.19	3.116	5.193	2280.

PRESSURE = 1.000 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	-0.2685E-03	-1.049	0.6838E-01	0.6232E-01				
1.000	-0.2119E-02	-1.461	0.6874E-01	0.6234E-01				
1.200	-0.5538E-02	-1.071	0.6943E-01	0.6238E-01				
1.400	-0.1105E-01	-0.7747	0.7032E-01	0.6246E-01				
1.600	-0.1992E-01	-0.6013	0.7138E-01	0.6259E-01				
1.800	-0.3682E-01	-0.5272	0.7312E-01	0.6279E-01				
1.968	-0.7222E-01	-0.5374	0.7672E-01	0.6308E-01				
2.058	-0.1397	-0.5905	0.8233E-01	0.6335E-01				
2.067	-0.1907	-0.6259	0.8560E-01	0.6340E-01				
2.069	-0.8548E-01	-0.4938	0.7925E-01	0.6341E-01				
2.078	-0.3104E-01	-0.2945	0.7605E-01	0.6342E-01				
2.168	0.1842E-01	0.3292	0.7377E-01	0.6342E-01				
2.200	0.2450E-01	0.4677	0.7366E-01	0.6340E-01				
2.400	0.4717E-01	0.9970	0.7418E-01	0.6319E-01				
2.700	0.6671E-01	1.253	0.7607E-01	0.6281E-01				
3.000	0.9114E-01	1.419	0.8016E-01	0.6233E-01				
3.300	0.1200	1.421	0.8569E-01	0.6170E-01				
3.600	0.1522	1.415	0.9243E-01	0.6097E-01	0.2151E-01	5.220	0.5475E-07	0.6141
3.900	0.1885	1.422	0.1006	0.6014E-01	0.2242E-01	5.026	0.5231E-07	0.6272
4.200	0.2296	1.435	0.1103	0.5920E-01	0.2320E-01	4.837	0.5052E-07	0.6347
4.500	0.2766	1.447	0.1221	0.5817E-01	0.2385E-01	4.657	0.4895E-07	0.6419
4.800	0.3305	1.453	0.1364	0.5703E-01	0.2436E-01	4.487	0.4735E-07	0.6519
5.000	0.3712	1.452	0.1477	0.5621E-01	0.2463E-01	4.379	0.4623E-07	0.6611
5.100	0.3931	1.451	0.1539	0.5578E-01	0.2475E-01	4.327	0.4564E-07	0.6666
5.300	0.4408	1.444	0.1679	0.5489E-01	0.2494E-01	4.225	0.4443E-07	0.6796
5.500	0.4941	1.434	0.1842	0.5394E-01	0.2508E-01	4.128	0.4315E-07	0.6955
6.000	0.6589	1.391	0.2384	0.5129E-01	0.2522E-01	3.901	0.3973E-07	0.7501
6.500	0.8840	1.327	0.3212	0.4822E-01	0.2507E-01	3.694	0.3615E-07	0.8298
7.000	1.183	1.247	0.4466	0.4466E-01	0.2464E-01	3.506	0.3280E-07	0.9367
8.000	1.799	1.078	0.7968	0.3646E-01	0.2346E-01	3.215	0.3048E-07	1.130
9.000	1.919	0.9612	1.014	0.2911E-01	0.2286E-01	3.083	0.3673E-07	1.125
10.00	1.781	0.8955	1.076	0.2391E-01	0.2289E-01	3.066	0.4771E-07	1.047
12.00	1.489	0.8260	1.065	0.1774E-01	0.2375E-01	3.172	0.7553E-07	0.9215
15.00	1.256	0.7758	1.022	0.1308E-01	0.2563E-01	3.439	0.1230E-06	0.8313
20.00	1.106	0.7372	0.9893	0.9331E-02	0.2904E-01	3.933	0.2111E-06	0.7758
25.00	1.047	0.7181	0.9780	0.7340E-02	0.3242E-01	4.417	0.3102E-06	0.7534
30.00	1.019	0.7067	0.9742	0.6079E-02	0.3571E-01	4.880	0.4205E-06	0.7410
40.00	0.9961	0.6940	0.9737	0.4550E-02	0.4201E-01	5.740	0.6740E-06	0.7263
50.00	0.9883	0.6871	0.9759	0.3646E-02	0.4800E-01	6.531	0.9697E-06	0.7167
60.00	0.9857	0.6828	0.9783	0.3045E-02	0.5372E-01	7.269	0.1306E-05	0.7093
80.00	0.9853	0.6779	0.9825	0.2293E-02	0.6450E-01	8.633	0.2091E-05	0.6982
100.0	0.9865	0.6752	0.9856	0.1840E-02	0.7460E-01	9.892	0.3020E-05	0.6903
120.0	0.9880	0.6734	0.9879	0.1537E-02	0.8416E-01	10.90	0.4083E-05	0.6733
140.0	0.9893	0.6723	0.9896	0.1320E-02	0.9329E-01	12.04	0.5275E-05	0.6706
160.0	0.9904	0.6714	0.9910	0.1156E-02	0.1021	13.13	0.6588E-05	0.6685
180.0	0.9914	0.6708	0.9920	0.1029E-02	0.1105	14.19	0.8019E-05	0.6668
200.0	0.9922	0.6703	0.9929	0.9268E-03	0.1187	15.21	0.9564E-05	0.6654
220.0	0.9929	0.6699	0.9936	0.8431E-03	0.1267	16.20	0.1122E-04	0.6643
240.0	0.9935	0.6696	0.9942	0.7733E-03	0.1344	17.17	0.1298E-04	0.6634
260.0	0.9940	0.6693	0.9947	0.7142E-03	0.1420	18.12	0.1485E-04	0.6627
280.0	0.9944	0.6691	0.9951	0.6634E-03	0.1494	19.05	0.1682E-04	0.6621
300.0	0.9948	0.6689	0.9954	0.6194E-03	0.1566	19.96	0.1889E-04	0.6616
350.0	0.9956	0.6685	0.9962	0.5313E-03	0.1742	22.18	0.2448E-04	0.6612
400.0	0.9962	0.6683	0.9967	0.4651E-03	0.1910	24.32	0.3067E-04	0.6610
500.0	0.9971	0.6679	0.9975	0.3724E-03	0.2229	28.38	0.4470E-04	0.6611
600.0	0.9976	0.6677	0.9979	0.3105E-03	0.2530	32.23	0.6085E-04	0.6615
700.0	0.9980	0.6675	0.9983	0.2662E-03	0.2816	35.91	0.7900E-04	0.6620
800.0	0.9983	0.6674	0.9985	0.2330E-03	0.3091	39.44	0.9906E-04	0.6626
900.0	0.9985	0.6673	0.9987	0.2071E-03	0.3355	42.86	0.1210E-03	0.6632
1000.	0.9987	0.6672	0.9989	0.1864E-03	0.3611	46.17	0.1446E-03	0.6638
1100.	0.9988	0.6672	0.9990	0.1695E-03	0.3860	49.39	0.1700E-03	0.6644
1200.	0.9989	0.6671	0.9991	0.1554E-03	0.4102	52.53	0.1971E-03	0.6650
1300.	0.9990	0.6671	0.9992	0.1435E-03	0.4338	55.60	0.2258E-03	0.6656
1400.	0.9991	0.6671	0.9992	0.1332E-03	0.4569	58.61	0.2561E-03	0.6661
1500.	0.9992	0.6670	0.9993	0.1243E-03	0.4795	61.55	0.2879E-03	0.6666

PRESSURE = 1.200 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
	0.8000	160.8	4.491	0.3525	7.816	0.4497E-02	0.3748E-01	0.3750E-01	311.5
	1.000	160.8	3.592	0.3713	7.833	0.2267E-01	0.1469	0.1475	311.4
	1.200	161.0	2.991	0.4298	7.885	0.7004E-01	0.4120	0.4151	311.0
	1.400	161.2	2.560	0.5712	8.017	0.1701	0.9426	0.9525	310.3
	1.600	161.5	2.235	0.8645	8.294	0.3537	1.874	1.902	308.8
	1.800	162.1	1.980	1.419	8.821	0.6626	3.440	3.529	305.3
1	1.942	162.8	1.827	2.087	9.458	1.002	5.375	5.638	300.2
2	2.032	163.6	1.738	2.748	10.08	1.317	8.359	9.206	295.1
3	2.041	163.7	1.729	2.843	10.17	1.361	10.25	11.73	294.2
3	2.043	163.7	1.727	2.867	10.20	1.372	6.222	6.543	295.1
2	2.052	163.7	1.719	2.912	10.24	1.393	3.938	3.986	296.4
1	2.142	163.7	1.647	3.148	10.48	1.506	2.069	2.079	300.8
	2.200	163.7	1.605	3.256	10.59	1.557	1.827	1.853	302.7
	2.400	163.1	1.475	3.576	10.93	1.707	1.577	1.652	307.1
	2.700	162.2	1.319	4.033	11.43	1.904	1.567	1.690	309.7
	3.000	161.1	1.195	4.493	11.94	2.085	1.632	1.826	309.7
	3.300	159.7	1.096	5.020	12.54	2.273	1.855	2.143	306.8
	3.600	158.0	1.016	5.628	13.22	2.473	2.039	2.438	303.4
	3.900	156.1	0.9490	6.306	13.99	2.678	2.167	2.692	299.8
	4.200	154.0	0.8934	7.042	14.84	2.886	2.253	2.921	296.2
	4.500	151.6	0.8468	7.830	15.74	3.095	2.312	3.140	292.4
	4.800	149.0	0.8075	8.669	16.72	3.305	2.357	3.363	288.3
	5.000	147.2	0.7849	9.256	17.41	3.445	2.383	3.518	285.3
	5.100	146.2	0.7745	9.559	17.76	3.516	2.396	3.598	283.8
	5.300	144.3	0.7556	10.18	18.50	3.657	2.419	3.764	280.5
	5.500	142.2	0.7389	10.83	19.27	3.800	2.442	3.940	277.1
	6.000	136.4	0.7057	12.56	21.36	4.163	2.500	4.431	267.3
	6.500	129.9	0.6839	14.48	23.72	4.540	2.560	5.008	256.3
	7.000	122.7	0.6729	16.60	26.38	4.935	2.622	5.679	244.5
	8.000	105.8	0.6825	21.45	32.79	5.789	2.753	7.115	222.4
	9.000	88.36	0.7265	26.79	40.37	6.680	2.877	7.854	210.6
	10.00	73.94	0.7813	31.99	48.22	7.507	2.973	7.766	209.6
	12.00	55.18	0.8725	41.32	63.07	8.863	3.079	7.078	220.7
	15.00	40.50	0.9510	53.47	83.10	10.36	3.138	6.354	243.8
	20.00	28.75	1.005	71.59	113.3	12.10	3.162	5.820	279.7
	25.00	22.58	1.023	88.63	141.8	13.37	3.162	5.588	310.9
	30.00	18.69	1.030	105.2	169.4	14.38	3.158	5.463	338.7
	40.00	14.00	1.032	137.6	223.3	15.93	3.149	5.339	387.5
	50.00	11.22	1.030	169.4	276.4	17.11	3.142	5.282	430.3
	60.00	9.379	1.027	201.1	329.0	18.07	3.136	5.251	469.0
	80.00	7.070	1.021	264.0	433.7	19.58	3.130	5.221	537.8
	100.0	5.677	1.018	326.6	538.0	20.74	3.126	5.208	598.6
	120.0	4.744	1.015	389.1	642.1	21.69	3.124	5.202	653.7
	140.0	4.075	1.013	451.6	746.1	22.49	3.122	5.198	704.6
	160.0	3.571	1.011	514.0	850.0	23.19	3.121	5.196	752.0
	180.0	3.179	1.010	576.4	953.9	23.80	3.120	5.195	796.6
	200.0	2.864	1.009	638.8	1058.	24.35	3.120	5.194	838.8
	220.0	2.606	1.008	701.1	1162.	24.84	3.119	5.193	879.0
	240.0	2.390	1.007	763.5	1266.	25.29	3.119	5.193	917.5
	260.0	2.208	1.006	825.8	1369.	25.71	3.119	5.192	954.4
	280.0	2.051	1.006	888.2	1473.	26.09	3.118	5.192	990.0
	300.0	1.915	1.005	950.5	1577.	26.45	3.118	5.192	1024.
	350.0	1.643	1.005	1106.	1837.	27.25	3.118	5.192	1105.
	400.0	1.439	1.004	1262.	2096.	27.95	3.117	5.192	1181.
	500.0	1.152	1.003	1574.	2615.	29.10	3.117	5.192	1319.
	600.0	0.9605	1.002	1885.	3135.	30.05	3.117	5.192	1445.
	700.0	0.8236	1.002	2197.	3654.	30.85	3.116	5.192	1560.
	800.0	0.7208	1.002	2508.	4173.	31.54	3.116	5.192	1667.
	900.0	0.6409	1.002	2820.	4692.	32.16	3.116	5.192	1768.
	1000.	0.5769	1.001	3132.	5212.	32.70	3.116	5.193	1863.
	1100.	0.5245	1.001	3443.	5731.	33.20	3.116	5.193	1954.
	1200.	0.4809	1.001	3755.	6250.	33.65	3.116	5.193	2040.
	1300.	0.4439	1.001	4066.	6769.	34.07	3.116	5.193	2123.
	1400.	0.4123	1.001	4378.	7289.	34.45	3.116	5.193	2203.
	1500.	0.3848	1.001	4689.	7808.	34.81	3.116	5.193	2281.

PRESSURE = 1.200 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	-0.3988E-03	-1.290	0.7695E-01	0.6316E-01				
1.000	-0.2546E-02	-1.674	0.7725E-01	0.6318E-01				
1.200	-0.6246E-02	-1.213	0.7766E-01	0.6323E-01				
1.400	-0.1206E-01	-0.8708	0.7816E-01	0.6332E-01				
1.600	-0.2179E-01	-0.6829	0.7907E-01	0.6346E-01				
1.800	-0.4205E-01	-0.6171	0.8147E-01	0.6369E-01				
1.942	-0.7699E-01	-0.6337	0.8576E-01	0.6397E-01				
2.032	-0.1476	-0.6869	0.9281E-01	0.6427E-01				
2.041	-0.2003	-0.7237	0.9700E-01	0.6432E-01				
2.043	-0.8894E-01	-0.5791	0.8853E-01	0.6433E-01				
2.052	-0.3375E-01	-0.3624	0.8443E-01	0.6434E-01				
2.142	0.1552E-01	0.3151	0.8141E-01	0.6434E-01				
2.200	0.2515E-01	0.5654	0.8117E-01	0.6431E-01				
2.400	0.4477E-01	1.065	0.8174E-01	0.6411E-01				
2.700	0.6104E-01	1.283	0.8315E-01	0.6375E-01				
3.000	0.8226E-01	1.440	0.8687E-01	0.6330E-01				
3.300	0.1079	1.437	0.9221E-01	0.6273E-01				
3.600	0.1364	1.431	0.9864E-01	0.6206E-01	0.2205E-01	5.558	0.5724E-07	0.6145
3.900	0.1682	1.440	0.1062	0.6130E-01	0.2303E-01	5.347	0.5480E-07	0.6251
4.200	0.2037	1.456	0.1152	0.6045E-01	0.2388E-01	5.145	0.5310E-07	0.6293
4.500	0.2433	1.472	0.1257	0.5952E-01	0.2459E-01	4.953	0.5166E-07	0.6325
4.800	0.2878	1.482	0.1382	0.5850E-01	0.2518E-01	4.774	0.5024E-07	0.6376
5.000	0.3207	1.484	0.1478	0.5777E-01	0.2551E-01	4.662	0.4926E-07	0.6429
5.100	0.3381	1.484	0.1530	0.5739E-01	0.2565E-01	4.607	0.4875E-07	0.6463
5.300	0.3754	1.481	0.1645	0.5659E-01	0.2589E-01	4.502	0.4769E-07	0.6545
5.500	0.4161	1.474	0.1774	0.5576E-01	0.2609E-01	4.402	0.4658E-07	0.6648
6.000	0.5359	1.441	0.2181	0.5349E-01	0.2638E-01	4.173	0.4364E-07	0.7008
6.500	0.6882	1.389	0.2749	0.5092E-01	0.2641E-01	3.969	0.4058E-07	0.7526
7.000	0.8804	1.324	0.3544	0.4803E-01	0.2620E-01	3.788	0.3762E-07	0.8210
8.000	1.350	1.173	0.5927	0.4138E-01	0.2536E-01	3.497	0.3369E-07	0.9809
9.000	1.661	1.042	0.8363	0.3451E-01	0.2463E-01	3.322	0.3549E-07	1.059
10.00	1.688	0.9549	0.9651	0.2884E-01	0.2441E-01	3.260	0.4250E-07	1.038
12.00	1.505	0.8631	1.026	0.2149E-01	0.2494E-01	3.314	0.6386E-07	0.9404
15.00	1.282	0.7993	1.010	0.1575E-01	0.2659E-01	3.543	0.1033E-06	0.8468
20.00	1.119	0.7516	0.9824	0.1117E-01	0.2979E-01	4.009	0.1780E-06	0.7834
25.00	1.053	0.7284	0.9718	0.8771E-02	0.3304E-01	4.480	0.2619E-06	0.7575
30.00	1.021	0.7147	0.9682	0.7259E-02	0.3625E-01	4.933	0.3550E-06	0.7434
40.00	0.9948	0.6994	0.9684	0.5432E-02	0.4245E-01	5.783	0.5680E-06	0.7274
50.00	0.9859	0.6911	0.9711	0.4355E-02	0.4837E-01	6.568	0.8159E-06	0.7173
60.00	0.9828	0.6860	0.9741	0.3639E-02	0.5404E-01	7.303	0.1097E-05	0.7097
80.00	0.9824	0.6801	0.9791	0.2743E-02	0.6476E-01	8.661	0.1754E-05	0.6983
100.0	0.9839	0.6769	0.9828	0.2202E-02	0.7482E-01	9.917	0.2530E-05	0.6904
120.0	0.9856	0.6748	0.9855	0.1840E-02	0.8436E-01	10.92	0.3418E-05	0.6733
140.0	0.9872	0.6734	0.9876	0.1580E-02	0.9347E-01	12.06	0.4413E-05	0.6705
160.0	0.9886	0.6724	0.9892	0.1385E-02	0.1022	13.15	0.5509E-05	0.6683
180.0	0.9897	0.6716	0.9904	0.1233E-02	0.1107	14.20	0.6703E-05	0.6666
200.0	0.9907	0.6710	0.9915	0.1111E-02	0.1189	15.22	0.7992E-05	0.6652
220.0	0.9915	0.6706	0.9923	0.1010E-02	0.1268	16.22	0.9372E-05	0.6640
240.0	0.9922	0.6702	0.9930	0.9269E-03	0.1346	17.19	0.1084E-04	0.6631
260.0	0.9928	0.6699	0.9936	0.8561E-03	0.1421	18.13	0.1240E-04	0.6624
280.0	0.9933	0.6696	0.9941	0.7953E-03	0.1495	19.06	0.1404E-04	0.6618
300.0	0.9938	0.6694	0.9945	0.7426E-03	0.1568	19.97	0.1577E-04	0.6612
350.0	0.9948	0.6689	0.9954	0.6371E-03	0.1743	22.19	0.2044E-04	0.6608
400.0	0.9955	0.6686	0.9961	0.5578E-03	0.1911	24.32	0.2559E-04	0.6606
500.0	0.9965	0.6682	0.9970	0.4466E-03	0.2231	28.39	0.3730E-04	0.6608
600.0	0.9971	0.6679	0.9975	0.3724E-03	0.2531	32.23	0.5076E-04	0.6612
700.0	0.9976	0.6677	0.9979	0.3193E-03	0.2818	35.91	0.6589E-04	0.6618
800.0	0.9979	0.6675	0.9982	0.2795E-03	0.3092	39.44	0.8261E-04	0.6624
900.0	0.9982	0.6674	0.9985	0.2485E-03	0.3357	42.86	0.1009E-03	0.6630
1000.	0.9984	0.6673	0.9986	0.2237E-03	0.3613	46.17	0.1206E-03	0.6636
1100.	0.9986	0.6673	0.9988	0.2034E-03	0.3861	49.39	0.1418E-03	0.6642
1200.	0.9987	0.6672	0.9989	0.1865E-03	0.4103	52.53	0.1643E-03	0.6648
1300.	0.9988	0.6672	0.9990	0.1721E-03	0.4339	55.60	0.1882E-03	0.6654
1400.	0.9989	0.6671	0.9991	0.1598E-03	0.4570	58.61	0.2135E-03	0.6660
1500.	0.9990	0.6671	0.9991	0.1492E-03	0.4796	61.55	0.2400E-03	0.6665

PRESSURE = 1.400 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
	0.8000	162.8	5.175	0.4530	9.053	0.5218E-02	0.4636E-01	0.4640E-01	318.7
	1.000	162.9	4.139	0.4749	9.072	0.2596E-01	0.1613	0.1621	318.9
	1.200	163.0	3.446	0.5382	9.128	0.7661E-01	0.4337	0.4372	319.2
	1.400	163.2	2.950	0.6871	9.265	0.1810	0.9768	0.9881	319.4
	1.600	163.6	2.575	0.9940	9.552	0.3712	1.937	1.972	318.5
	1.800	164.2	2.280	1.579	10.10	0.6934	3.586	3.711	314.4
1	1.916	164.9	2.133	2.138	10.63	0.9761	5.206	5.519	309.6
2	2.006	165.7	2.027	2.795	11.24	1.289	8.050	9.027	304.1
3	2.015	165.8	2.017	2.890	11.33	1.333	9.798	11.48	303.1
3	2.017	165.9	2.014	2.912	11.35	1.343	5.938	6.306	304.0
2	2.026	165.9	2.005	2.956	11.39	1.364	3.755	3.814	305.5
1	2.116	165.9	1.919	3.181	11.62	1.472	1.976	1.984	310.2
	2.200	165.8	1.848	3.328	11.77	1.543	1.685	1.713	313.1
	2.400	165.3	1.699	3.624	12.09	1.684	1.533	1.605	317.1
	2.700	164.4	1.518	4.067	12.58	1.878	1.517	1.629	320.2
	3.000	163.4	1.375	4.507	13.08	2.052	1.587	1.760	320.4
	3.300	162.0	1.260	5.010	13.65	2.235	1.813	2.071	317.8
	3.600	160.5	1.167	5.592	14.32	2.427	2.000	2.358	314.7
	3.900	158.7	1.089	6.240	15.06	2.626	2.130	2.602	311.5
	4.200	156.8	1.024	6.944	15.87	2.827	2.218	2.818	308.4
	4.500	154.6	0.9687	7.696	16.75	3.028	2.279	3.022	305.1
	4.800	152.3	0.9221	8.493	17.69	3.230	2.326	3.225	301.6
	5.000	150.6	0.8950	9.050	18.35	3.364	2.353	3.364	299.1
	5.100	149.7	0.8826	9.336	18.69	3.432	2.366	3.435	297.8
	5.300	147.9	0.8596	9.924	19.39	3.566	2.391	3.582	295.1
	5.500	146.1	0.8390	10.53	20.12	3.702	2.415	3.735	292.1
	6.000	141.0	0.7969	12.16	22.09	4.044	2.474	4.150	283.9
	6.500	135.3	0.7664	13.93	24.28	4.395	2.534	4.619	274.6
	7.000	129.0	0.7461	15.87	26.72	4.756	2.596	5.146	264.4
	8.000	114.8	0.7338	20.25	32.44	5.518	2.719	6.307	243.9
	9.000	99.33	0.7539	25.16	39.25	6.320	2.837	7.226	228.8
	10.00	85.04	0.7926	30.21	46.67	7.101	2.937	7.510	223.0
	12.00	64.38	0.8724	39.66	61.41	8.446	3.062	7.147	228.5
	15.00	47.25	0.9509	52.15	81.78	9.964	3.137	6.478	248.6
	20.00	33.43	1.008	70.65	112.5	11.74	3.167	5.904	283.2
	25.00	26.22	1.028	87.92	141.3	13.02	3.169	5.644	314.0
	30.00	21.69	1.036	104.6	169.2	14.04	3.164	5.503	341.6
	40.00	16.24	1.037	137.2	223.4	15.60	3.154	5.362	390.1
	50.00	13.03	1.035	169.2	276.6	16.79	3.146	5.296	432.7
	60.00	10.89	1.031	200.9	329.4	17.75	3.140	5.260	471.2
	80.00	8.220	1.025	263.9	434.2	19.26	3.132	5.226	539.7
	100.0	6.605	1.020	326.6	538.6	20.42	3.128	5.211	600.3
	120.0	5.522	1.017	389.1	642.7	21.37	3.125	5.203	655.3
	140.0	4.744	1.015	451.6	746.7	22.17	3.123	5.199	706.0
	160.0	4.159	1.013	514.1	850.7	22.87	3.122	5.196	753.3
	180.0	3.703	1.011	576.5	954.6	23.48	3.121	5.195	797.8
	200.0	3.336	1.010	638.8	1058.	24.03	3.120	5.194	839.9
	220.0	3.036	1.009	701.2	1162.	24.52	3.120	5.193	880.1
	240.0	2.785	1.008	763.5	1266.	24.97	3.119	5.193	918.5
	260.0	2.573	1.008	825.9	1370.	25.39	3.119	5.192	955.4
	280.0	2.391	1.007	888.2	1474.	25.77	3.119	5.192	990.9
	300.0	2.232	1.006	950.6	1578.	26.13	3.118	5.192	1025.
	350.0	1.915	1.005	1106.	1837.	26.93	3.118	5.192	1106.
	400.0	1.677	1.005	1262.	2097.	27.63	3.117	5.192	1182.
	500.0	1.343	1.004	1574.	2616.	28.78	3.117	5.192	1320.
	600.0	1.120	1.003	1885.	3135.	29.73	3.117	5.192	1445.
	700.0	0.9605	1.002	2197.	3655.	30.53	3.117	5.192	1560.
	800.0	0.8407	1.002	2509.	4174.	31.22	3.116	5.192	1667.
	900.0	0.7475	1.002	2820.	4693.	31.84	3.116	5.192	1768.
	1000.	0.6729	1.002	3132.	5212.	32.38	3.116	5.192	1863.
	1100.	0.6118	1.001	3443.	5731.	32.88	3.116	5.192	1954.
	1200.	0.5609	1.001	3755.	6251.	33.33	3.116	5.193	2041.
	1300.	0.5178	1.001	4066.	6770.	33.75	3.116	5.193	2124.
	1400.	0.4809	1.001	4378.	7289.	34.13	3.116	5.193	2204.
	1500.	0.4489	1.001	4690.	7808.	34.49	3.116	5.193	2281.

PRESSURE = 1.400 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	-0.5348E-03	-1.464	0.8474E-01	0.6397E-01				
1.000	-0.2741E-02	-1.720	0.8492E-01	0.6399E-01				
1.200	-0.6451E-02	-1.253	0.8496E-01	0.6404E-01				
1.400	-0.1254E-01	-0.9249	0.8503E-01	0.6413E-01				
1.600	-0.2366E-01	-0.7606	0.8590E-01	0.6428E-01				
1.800	-0.4861E-01	-0.7192	0.8927E-01	0.6454E-01				
1.916	-0.8145E-01	-0.7382	0.9392E-01	0.6480E-01				
2.006	-0.1542	-0.7875	0.1025	0.6513E-01				
2.015	-0.2078	-0.8254	0.1076	0.6518E-01				
2.017	-0.9234E-01	-0.6710	0.9697E-01	0.6519E-01				
2.026	-0.3600E-01	-0.4347	0.9184E-01	0.6521E-01				
2.116	0.1303E-01	0.2988	0.8801E-01	0.6521E-01				
2.200	0.2558E-01	0.6652	0.8761E-01	0.6516E-01				
2.400	0.4242E-01	1.107	0.8816E-01	0.6496E-01				
2.700	0.5621E-01	1.310	0.8917E-01	0.6461E-01				
3.000	0.7497E-01	1.458	0.9257E-01	0.6420E-01				
3.300	0.9815E-01	1.451	0.9772E-01	0.6366E-01				
3.600	0.1238	1.445	0.1039	0.6305E-01	0.2255E-01	5.894	0.5960E-07	0.6163
3.900	0.1522	1.456	0.1110	0.6235E-01	0.2359E-01	5.666	0.5712E-07	0.6249
4.200	0.1836	1.475	0.1193	0.6157E-01	0.2450E-01	5.448	0.5546E-07	0.6267
4.500	0.2181	1.494	0.1289	0.6071E-01	0.2528E-01	5.244	0.5411E-07	0.6268
4.800	0.2564	1.507	0.1401	0.5978E-01	0.2594E-01	5.054	0.5282E-07	0.6284
5.000	0.2841	1.512	0.1485	0.5912E-01	0.2631E-01	4.935	0.5192E-07	0.6311
5.100	0.2988	1.513	0.1530	0.5877E-01	0.2647E-01	4.878	0.5146E-07	0.6330
5.300	0.3296	1.512	0.1628	0.5806E-01	0.2676E-01	4.768	0.5051E-07	0.6381
5.500	0.3628	1.507	0.1737	0.5731E-01	0.2701E-01	4.663	0.4951E-07	0.6449
6.000	0.4575	1.481	0.2067	0.5529E-01	0.2742E-01	4.426	0.4687E-07	0.6699
6.500	0.5724	1.437	0.2501	0.5304E-01	0.2758E-01	4.218	0.4413E-07	0.7065
7.000	0.7114	1.381	0.3077	0.5056E-01	0.2752E-01	4.036	0.4145E-07	0.7546
8.000	1.058	1.247	0.4756	0.4493E-01	0.2696E-01	3.744	0.3723E-07	0.8758
9.000	1.386	1.116	0.6858	0.3883E-01	0.2626E-01	3.548	0.3659E-07	0.9763
10.00	1.533	1.015	0.8464	0.3320E-01	0.2588E-01	3.452	0.4052E-07	1.002
12.00	1.480	0.9013	0.9717	0.2509E-01	0.2611E-01	3.454	0.5675E-07	0.9454
15.00	1.294	0.8232	0.9902	0.1839E-01	0.2753E-01	3.646	0.8992E-07	0.8582
20.00	1.128	0.7661	0.9736	0.1300E-01	0.3054E-01	4.085	0.1547E-06	0.7898
25.00	1.057	0.7387	0.9648	0.1019E-01	0.3368E-01	4.541	0.2277E-06	0.7609
30.00	1.023	0.7227	0.9620	0.8426E-02	0.3681E-01	4.986	0.3083E-06	0.7454
40.00	0.9933	0.7048	0.9630	0.6306E-02	0.4289E-01	5.826	0.4926E-06	0.7282
50.00	0.9833	0.6952	0.9664	0.5057E-02	0.4874E-01	6.605	0.7063E-06	0.7177
60.00	0.9800	0.6892	0.9699	0.4228E-02	0.5436E-01	7.336	0.9485E-06	0.7099
80.00	0.9795	0.6824	0.9757	0.3189E-02	0.6502E-01	8.690	0.1514E-05	0.6984
100.0	0.9813	0.6786	0.9800	0.2562E-02	0.7505E-01	9.942	0.2181E-05	0.6903
120.0	0.9833	0.6762	0.9831	0.2142E-02	0.8456E-01	10.94	0.2943E-05	0.6732
140.0	0.9851	0.6745	0.9855	0.1840E-02	0.9366E-01	12.08	0.3797E-05	0.6704
160.0	0.9867	0.6734	0.9874	0.1613E-02	0.1024	13.17	0.4738E-05	0.6682
180.0	0.9880	0.6725	0.9889	0.1436E-02	0.1108	14.22	0.5763E-05	0.6664
200.0	0.9891	0.6718	0.9900	0.1294E-02	0.1190	15.24	0.6869E-05	0.6649
220.0	0.9901	0.6712	0.9910	0.1177E-02	0.1270	16.23	0.8054E-05	0.6638
240.0	0.9909	0.6708	0.9918	0.1080E-02	0.1347	17.20	0.9315E-05	0.6628
260.0	0.9916	0.6704	0.9925	0.9977E-03	0.1423	18.14	0.1065E-04	0.6620
280.0	0.9922	0.6701	0.9931	0.9270E-03	0.1497	19.07	0.1206E-04	0.6614
300.0	0.9928	0.6698	0.9936	0.8656E-03	0.1569	19.97	0.1354E-04	0.6609
350.0	0.9939	0.6693	0.9947	0.7427E-03	0.1745	22.19	0.1754E-04	0.6604
400.0	0.9947	0.6689	0.9954	0.6504E-03	0.1913	24.33	0.2197E-04	0.6603
500.0	0.9959	0.6684	0.9964	0.5208E-03	0.2232	28.39	0.3200E-04	0.6605
600.0	0.9967	0.6681	0.9971	0.4343E-03	0.2533	32.24	0.4355E-04	0.6609
700.0	0.9972	0.6679	0.9976	0.3724E-03	0.2819	35.91	0.5652E-04	0.6615
800.0	0.9976	0.6677	0.9979	0.3260E-03	0.3093	39.45	0.7086E-04	0.6622
900.0	0.9979	0.6676	0.9982	0.2898E-03	0.3358	42.86	0.8651E-04	0.6628
1000.	0.9982	0.6675	0.9984	0.2609E-03	0.3614	46.17	0.1034E-03	0.6634
1100.	0.9983	0.6674	0.9986	0.2372E-03	0.3862	49.39	0.1216E-03	0.6641
1200.	0.9985	0.6673	0.9987	0.2175E-03	0.4104	52.54	0.1409E-03	0.6647
1300.	0.9986	0.6673	0.9988	0.2008E-03	0.4340	55.61	0.1614E-03	0.6653
1400.	0.9988	0.6672	0.9989	0.1865E-03	0.4571	58.61	0.1831E-03	0.6658
1500.	0.9989	0.6672	0.9990	0.1740E-03	0.4797	61.56	0.2058E-03	0.6663

PRESSURE = 1.600 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	164.7	5.845	0.5616	10.27	0.6129E-02	0.5513E-01	0.5518E-01	325.6
	1.000	164.8	4.674	0.5862	10.30	0.2931E-01	0.1749	0.1757	326.0
	1.200	164.9	3.892	0.6536	10.36	0.8310E-01	0.4556	0.4591	327.0
	1.400	165.1	3.332	0.8099	10.50	0.1920	1.015	1.028	328.0
	1.600	165.5	2.908	1.132	10.80	0.3899	2.014	2.057	327.2
	1.800	166.3	2.573	1.755	11.38	0.7287	3.761	3.938	322.4
1	1.889	166.9	2.444	2.198	11.79	0.9510	5.034	5.399	318.4
2	1.979	167.7	2.320	2.850	12.39	1.262	7.728	8.832	312.6
3	1.988	167.9	2.308	2.944	12.48	1.306	9.321	11.18	311.5
3	1.990	167.9	2.305	2.966	12.50	1.316	5.683	6.103	312.4
2	1.999	167.9	2.294	3.008	12.53	1.335	3.582	3.652	314.0
1	2.089	168.0	2.195	3.225	12.75	1.441	1.889	1.895	319.1
	2.200	167.8	2.086	3.405	12.94	1.529	1.569	1.600	323.0
	2.400	167.3	1.918	3.683	13.25	1.663	1.499	1.568	326.7
	2.700	166.5	1.714	4.113	13.73	1.854	1.472	1.574	330.1
	3.000	165.5	1.552	4.535	14.20	2.023	1.545	1.702	330.5
	3.300	164.2	1.421	5.018	14.76	2.200	1.774	2.007	328.0
	3.600	162.8	1.314	5.577	15.41	2.387	1.963	2.288	325.2
	3.900	161.1	1.226	6.200	16.13	2.579	2.095	2.524	322.4
	4.200	159.3	1.151	6.875	16.92	2.774	2.185	2.730	319.6
	4.500	157.3	1.088	7.596	17.77	2.969	2.248	2.923	316.8
	4.800	155.2	1.034	8.360	18.67	3.164	2.297	3.112	313.8
	5.000	153.6	1.003	8.891	19.31	3.293	2.325	3.240	311.6
	5.100	152.8	0.9882	9.164	19.63	3.358	2.338	3.305	310.5
	5.300	151.2	0.9613	9.725	20.31	3.488	2.364	3.439	308.1
	5.500	149.5	0.9370	10.30	21.01	3.618	2.389	3.577	305.6
	6.000	144.8	0.8864	11.84	22.89	3.944	2.451	3.944	298.5
	6.500	139.7	0.8480	13.51	24.96	4.276	2.512	4.348	290.3
	7.000	134.2	0.8200	15.32	27.24	4.614	2.574	4.790	281.4
	8.000	121.7	0.7909	19.37	32.51	5.316	2.695	5.756	262.7
	9.000	108.0	0.7922	23.92	38.73	6.048	2.809	6.649	246.8
	10.00	94.52	0.8149	28.74	45.67	6.779	2.908	7.151	237.7
	12.00	73.00	0.8793	38.17	60.09	8.093	3.045	7.122	237.5
	15.00	53.84	0.9537	50.90	80.61	9.622	3.134	6.567	254.1
	20.00	38.05	1.012	69.74	111.8	11.42	3.172	5.980	286.9
	25.00	29.81	1.034	87.22	140.9	12.72	3.175	5.696	317.2
	30.00	24.66	1.041	104.1	169.0	13.74	3.170	5.540	344.5
	40.00	18.46	1.043	136.8	223.5	15.31	3.159	5.383	392.7
	50.00	14.82	1.040	168.9	276.9	16.51	3.149	5.309	435.1
	60.00	12.40	1.035	200.7	329.8	17.47	3.143	5.269	473.4
	80.00	9.361	1.029	263.8	434.7	18.98	3.135	5.231	541.6
	100.0	7.527	1.023	326.5	539.1	20.14	3.130	5.213	602.0
	120.0	6.295	1.020	389.1	643.3	21.09	3.127	5.205	656.8
	140.0	5.411	1.017	451.6	747.3	21.90	3.125	5.200	707.3
	160.0	4.745	1.015	514.1	851.3	22.59	3.123	5.197	754.5
	180.0	4.225	1.013	576.5	955.2	23.20	3.122	5.195	799.0
	200.0	3.808	1.011	638.9	1059.	23.75	3.121	5.194	841.0
	220.0	3.465	1.010	701.3	1163.	24.24	3.120	5.193	881.1
	240.0	3.180	1.009	763.6	1267.	24.70	3.120	5.193	919.5
	260.0	2.937	1.009	826.0	1371.	25.11	3.119	5.192	956.3
	280.0	2.729	1.008	888.3	1475.	25.50	3.119	5.192	991.8
	300.0	2.549	1.007	950.6	1578.	25.85	3.119	5.192	1026.
	350.0	2.187	1.006	1106.	1838.	26.65	3.118	5.192	1107.
	400.0	1.916	1.005	1262.	2098.	27.35	3.118	5.192	1182.
	500.0	1.534	1.004	1574.	2617.	28.51	3.117	5.192	1321.
	600.0	1.280	1.003	1885.	3136.	29.45	3.117	5.192	1446.
	700.0	1.097	1.003	2197.	3655.	30.25	3.117	5.192	1561.
	800.0	0.9606	1.002	2509.	4174.	30.95	3.117	5.192	1668.
	900.0	0.8541	1.002	2820.	4694.	31.56	3.116	5.192	1768.
	1000.	0.7689	1.002	3132.	5213.	32.11	3.116	5.192	1864.
	1100.	0.6991	1.002	3443.	5732.	32.60	3.116	5.192	1954.
	1200.	0.6409	1.001	3755.	6251.	33.05	3.116	5.192	2041.
	1300.	0.5917	1.001	4066.	6770.	33.47	3.116	5.193	2124.
	1400.	0.5495	1.001	4378.	7290.	33.85	3.116	5.193	2204.
	1500.	0.5129	1.001	4690.	7809.	34.21	3.116	5.193	2281.

PRESSURE = 1.600 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_v$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
0.8000	-0.6531E-03	-1.568	0.9172E-01	0.6474E-01				
1.000	-0.2725E-02	-1.648	0.9175E-01	0.6476E-01				
1.200	-0.6271E-02	-1.217	0.9142E-01	0.6481E-01				
1.400	-0.1271E-01	-0.9504	0.9117E-01	0.6490E-01				
1.600	-0.2579E-01	-0.8389	0.9221E-01	0.6506E-01				
1.800	-0.5667E-01	-0.8310	0.9690E-01	0.6536E-01				
1.889	-0.8543E-01	-0.8491	0.1015	0.6559E-01				
1.979	-0.1599	-0.8937	0.1116	0.6593E-01				
1.988	-0.2135	-0.9325	0.1178	0.6599E-01				
1.990	-0.9590E-01	-0.7707	0.1048	0.6600E-01				
1.999	-0.3794E-01	-0.5125	0.9849E-01	0.6602E-01				
2.089	0.1088E-01	0.2801	0.9380E-01	0.6603E-01				
2.200	0.2581E-01	0.7652	0.9320E-01	0.6596E-01				
2.400	0.4028E-01	1.143	0.9370E-01	0.6577E-01				
2.700	0.5205E-01	1.334	0.9435E-01	0.6542E-01				
3.000	0.6888E-01	1.473	0.9752E-01	0.6503E-01				
3.300	0.9004E-01	1.463	0.1025	0.6453E-01				
3.600	0.1135	1.457	0.1083	0.6396E-01	0.2303E-01	6.232	0.6184E-07	0.6191
3.900	0.1392	1.470	0.1151	0.6331E-01	0.2412E-01	5.985	0.5931E-07	0.6261
4.200	0.1675	1.491	0.1229	0.6258E-01	0.2509E-01	5.751	0.5767E-07	0.6258
4.500	0.1983	1.513	0.1318	0.6179E-01	0.2593E-01	5.532	0.5639E-07	0.6236
4.800	0.2320	1.529	0.1419	0.6093E-01	0.2664E-01	5.329	0.5517E-07	0.6225
5.000	0.2562	1.536	0.1495	0.6032E-01	0.2705E-01	5.203	0.5434E-07	0.6232
5.100	0.2689	1.538	0.1535	0.6000E-01	0.2724E-01	5.142	0.5391E-07	0.6241
5.300	0.2954	1.539	0.1622	0.5935E-01	0.2757E-01	5.026	0.5303E-07	0.6269
5.500	0.3236	1.536	0.1716	0.5866E-01	0.2785E-01	4.916	0.5211E-07	0.6313
6.000	0.4024	1.515	0.1996	0.5682E-01	0.2837E-01	4.667	0.4966E-07	0.6489
6.500	0.4950	1.476	0.2351	0.5481E-01	0.2864E-01	4.452	0.4713E-07	0.6759
7.000	0.6036	1.426	0.2801	0.5260E-01	0.2869E-01	4.265	0.4464E-07	0.7119
8.000	0.8704	1.305	0.4066	0.4768E-01	0.2835E-01	3.966	0.4046E-07	0.8053
9.000	1.159	1.180	0.5757	0.4226E-01	0.2775E-01	3.758	0.3863E-07	0.9005
10.00	1.359	1.073	0.7370	0.3693E-01	0.2728E-01	3.637	0.4036E-07	0.9534
12.00	1.424	0.9401	0.9086	0.2847E-01	0.2725E-01	3.593	0.5241E-07	0.9392
15.00	1.293	0.8473	0.9645	0.2097E-01	0.2844E-01	3.749	0.8044E-07	0.8655
20.00	1.134	0.7807	0.9629	0.1480E-01	0.3128E-01	4.159	0.1375E-06	0.7952
25.00	1.060	0.7491	0.9572	0.1158E-01	0.3432E-01	4.602	0.2021E-06	0.7639
30.00	1.023	0.7306	0.9555	0.9579E-02	0.3736E-01	5.039	0.2735E-06	0.7471
40.00	0.9916	0.7102	0.9576	0.7170E-02	0.4335E-01	5.869	0.4361E-06	0.7288
50.00	0.9808	0.6992	0.9616	0.5753E-02	0.4912E-01	6.642	0.6243E-06	0.7179
60.00	0.9771	0.6925	0.9657	0.4812E-02	0.5469E-01	7.369	0.8372E-06	0.7099
80.00	0.9767	0.6846	0.9723	0.3632E-02	0.6529E-01	8.718	0.1333E-05	0.6984
100.0	0.9787	0.6803	0.9772	0.2920E-02	0.7528E-01	9.967	0.1918E-05	0.6903
120.0	0.9810	0.6775	0.9808	0.2442E-02	0.8477E-01	10.96	0.2587E-05	0.6731
140.0	0.9830	0.6757	0.9835	0.2099E-02	0.9384E-01	12.10	0.3335E-05	0.6703
160.0	0.9848	0.6743	0.9856	0.1840E-02	0.1026	13.18	0.4160E-05	0.6680
180.0	0.9863	0.6733	0.9873	0.1639E-02	0.1110	14.23	0.5058E-05	0.6662
200.0	0.9876	0.6725	0.9886	0.1477E-02	0.1192	15.25	0.6027E-05	0.6647
220.0	0.9887	0.6719	0.9897	0.1344E-02	0.1271	16.24	0.7064E-05	0.6635
240.0	0.9896	0.6714	0.9907	0.1233E-02	0.1349	17.21	0.8169E-05	0.6625
260.0	0.9904	0.6709	0.9915	0.1139E-02	0.1424	18.15	0.9339E-05	0.6617
280.0	0.9911	0.6706	0.9921	0.1058E-02	0.1498	19.08	0.1057E-04	0.6610
300.0	0.9918	0.6703	0.9927	0.9884E-03	0.1571	19.98	0.1187E-04	0.6605
350.0	0.9930	0.6697	0.9939	0.8482E-03	0.1746	22.20	0.1538E-04	0.6601
400.0	0.9940	0.6692	0.9948	0.7428E-03	0.1914	24.33	0.1925E-04	0.6599
500.0	0.9953	0.6687	0.9959	0.5949E-03	0.2233	28.39	0.2803E-04	0.6602
600.0	0.9962	0.6683	0.9967	0.4961E-03	0.2534	32.24	0.3814E-04	0.6607
700.0	0.9968	0.6680	0.9973	0.4255E-03	0.2820	35.92	0.4950E-04	0.6613
800.0	0.9973	0.6678	0.9976	0.3725E-03	0.3094	39.45	0.6204E-04	0.6619
900.0	0.9976	0.6677	0.9979	0.3312E-03	0.3359	42.86	0.7574E-04	0.6626
1000.	0.9979	0.6676	0.9982	0.2981E-03	0.3615	46.18	0.9055E-04	0.6633
1100.	0.9981	0.6675	0.9984	0.2711E-03	0.3863	49.40	0.1064E-03	0.6639
1200.	0.9983	0.6674	0.9985	0.2485E-03	0.4105	52.54	0.1234E-03	0.6645
1300.	0.9984	0.6673	0.9987	0.2294E-03	0.4341	55.61	0.1413E-03	0.6651
1400.	0.9986	0.6673	0.9988	0.2131E-03	0.4572	58.61	0.1602E-03	0.6657
1500.	0.9987	0.6672	0.9989	0.1989E-03	0.4798	61.56	0.1801E-03	0.6662

PRESSURE = 1.800 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
	0.8000	166.6	6.503	0.6769	11.48	0.7175E-02	0.6310E-01	0.6317E-01	332.5
	1.000	166.6	5.200	0.7038	11.51	0.3251E-01	0.1870	0.1877	333.2
	1.200	166.8	4.330	0.7747	11.57	0.8922E-01	0.4777	0.4809	334.6
	1.400	167.0	3.707	0.9384	11.72	0.2030	1.060	1.073	335.9
	1.600	167.4	3.235	1.279	12.03	0.4102	2.107	2.162	335.1
	1.800	168.3	2.861	1.949	12.64	0.7695	3.970	4.221	329.6
1	1.861	168.7	2.760	2.263	12.93	0.9264	4.862	5.278	326.6
2	1.951	169.6	2.618	2.911	13.52	1.235	7.400	8.628	320.5
3	1.960	169.8	2.604	3.004	13.61	1.278	8.837	10.85	319.3
3	1.962	169.8	2.601	3.027	13.63	1.289	5.447	5.923	320.3
2	1.971	169.9	2.588	3.068	13.66	1.308	3.417	3.498	322.0
1	2.061	169.9	2.475	3.276	13.87	1.410	1.806	1.810	327.6
	2.200	169.7	2.321	3.488	14.09	1.515	1.473	1.506	332.5
	2.400	169.2	2.134	3.749	14.39	1.643	1.470	1.536	335.9
	2.700	168.4	1.906	4.169	14.86	1.832	1.431	1.525	339.5
	3.000	167.4	1.725	4.575	15.33	1.997	1.507	1.650	339.9
	3.300	166.3	1.579	5.040	15.87	2.168	1.737	1.950	337.6
	3.600	164.9	1.460	5.578	16.49	2.350	1.928	2.225	335.0
	3.900	163.4	1.360	6.179	17.20	2.537	2.062	2.454	332.4
	4.200	161.7	1.276	6.830	17.96	2.726	2.153	2.653	330.0
	4.500	159.8	1.205	7.524	18.79	2.916	2.218	2.837	327.5
	4.800	157.8	1.144	8.258	19.67	3.105	2.269	3.016	324.9
	5.000	156.4	1.108	8.769	20.28	3.230	2.298	3.136	323.0
	5.100	155.6	1.092	9.031	20.60	3.293	2.312	3.197	322.1
	5.300	154.1	1.061	9.568	21.25	3.418	2.339	3.321	320.0
	5.500	152.5	1.033	10.12	21.93	3.544	2.365	3.448	317.8
	6.000	148.2	0.9743	11.59	23.73	3.858	2.429	3.783	311.5
	6.500	143.6	0.9285	13.18	25.71	4.175	2.492	4.144	304.3
	7.000	138.5	0.8935	14.89	27.88	4.496	2.556	4.531	296.4
	8.000	127.4	0.8504	18.69	32.83	5.155	2.677	5.365	279.4
	9.000	115.1	0.8367	22.97	38.61	5.835	2.788	6.181	263.6
	10.00	102.5	0.8452	27.55	45.11	6.520	2.886	6.771	252.6
	12.00	80.94	0.8922	36.84	59.08	7.792	3.029	7.030	247.4
	15.00	60.22	0.9593	49.71	79.60	9.321	3.131	6.621	260.1
	20.00	42.58	1.017	68.85	111.1	11.14	3.176	6.045	290.9
	25.00	33.35	1.039	86.54	140.5	12.45	3.181	5.744	320.5
	30.00	27.58	1.047	103.5	168.8	13.48	3.176	5.576	347.5
	40.00	20.66	1.048	136.4	223.6	15.06	3.163	5.404	395.3
	50.00	16.59	1.045	168.7	277.1	16.26	3.153	5.323	437.4
	60.00	13.89	1.040	200.5	330.1	17.22	3.146	5.278	475.6
	80.00	10.50	1.032	263.7	435.2	18.73	3.137	5.235	543.5
	100.0	8.443	1.026	326.5	539.7	19.90	3.131	5.216	603.7
	120.0	7.065	1.022	389.1	643.9	20.85	3.128	5.206	658.3
	140.0	6.075	1.019	451.7	748.0	21.65	3.126	5.201	708.7
	160.0	5.328	1.016	514.1	851.9	22.35	3.124	5.197	755.8
	180.0	4.745	1.014	576.5	955.9	22.96	3.123	5.195	800.2
	200.0	4.277	1.013	638.9	1060.	23.50	3.122	5.194	842.2
	220.0	3.893	1.012	701.3	1164.	24.00	3.121	5.193	882.2
	240.0	3.573	1.011	763.7	1267.	24.45	3.120	5.193	920.5
	260.0	3.301	1.010	826.0	1371.	24.87	3.120	5.192	957.2
	280.0	3.067	1.009	888.4	1475.	25.25	3.119	5.192	992.7
	300.0	2.865	1.008	950.7	1579.	25.61	3.119	5.192	1027.
	350.0	2.459	1.007	1107.	1839.	26.41	3.118	5.192	1108.
	400.0	2.154	1.006	1262.	2098.	27.10	3.118	5.191	1183.
	500.0	1.725	1.005	1574.	2617.	28.26	3.117	5.192	1321.
	600.0	1.439	1.004	1886.	3136.	29.21	3.117	5.192	1446.
	700.0	1.234	1.003	2197.	3656.	30.01	3.117	5.192	1561.
	800.0	1.080	1.003	2509.	4175.	30.70	3.117	5.192	1668.
	900.0	0.9606	1.002	2820.	4694.	31.31	3.116	5.192	1769.
	1000.	0.8648	1.002	3132.	5213.	31.86	3.116	5.192	1864.
	1100.	0.7863	1.002	3443.	5733.	32.36	3.116	5.192	1955.
	1200.	0.7209	1.002	3755.	6252.	32.81	3.116	5.192	2041.
	1300.	0.6656	1.002	4067.	6771.	33.22	3.116	5.192	2124.
	1400.	0.6181	1.001	4378.	7290.	33.61	3.116	5.192	2204.
	1500.	0.5770	1.001	4690.	7809.	33.97	3.116	5.193	2282.

PRESSURE = 1.800 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_V}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
0.8000	-0.7229E-03	-1.582	0.9783E-01	0.6547E-01				
1.000	-0.2545E-02	-1.505	0.9767E-01	0.6549E-01				
1.200	-0.5874E-02	-1.140	0.9705E-01	0.6554E-01				
1.400	-0.1284E-01	-0.9645	0.9671E-01	0.6563E-01				
1.600	-0.2840E-01	-0.9220	0.9824E-01	0.6581E-01				
1.800	-0.6644E-01	-0.9498	0.1047	0.6615E-01				
1.861	-0.8881E-01	-0.9644	0.1086	0.6632E-01				
1.951	-0.1649	-1.006	0.1205	0.6670E-01				
1.960	-0.2182	-1.046	0.1277	0.6675E-01				
1.962	-0.9954E-01	-0.8786	0.1124	0.6677E-01				
1.971	-0.3964E-01	-0.5961	0.1046	0.6679E-01				
2.061	0.9021E-02	0.2595	0.9895E-01	0.6680E-01				
2.200	0.2591E-01	0.8645	0.9810E-01	0.6672E-01				
2.400	0.3836E-01	1.174	0.9852E-01	0.6653E-01				
2.700	0.4844E-01	1.356	0.9887E-01	0.6618E-01				
3.000	0.6369E-01	1.487	0.1019	0.6580E-01				
3.300	0.8318E-01	1.473	0.1066	0.6534E-01				
3.600	0.1047	1.468	0.1122	0.6480E-01	0.2348E-01	6.572	0.6400E-07	0.6226
3.900	0.1284	1.483	0.1187	0.6420E-01	0.2463E-01	6.304	0.6142E-07	0.6283
4.200	0.1542	1.507	0.1260	0.6352E-01	0.2565E-01	6.052	0.5978E-07	0.6262
4.500	0.1822	1.531	0.1343	0.6278E-01	0.2654E-01	5.818	0.5853E-07	0.6220
4.800	0.2125	1.549	0.1436	0.6198E-01	0.2730E-01	5.602	0.5737E-07	0.6188
5.000	0.2341	1.558	0.1505	0.6141E-01	0.2775E-01	5.468	0.5658E-07	0.6180
5.100	0.2453	1.560	0.1542	0.6111E-01	0.2795E-01	5.403	0.5618E-07	0.6180
5.300	0.2687	1.563	0.1620	0.6050E-01	0.2832E-01	5.280	0.5534E-07	0.6191
5.500	0.2933	1.562	0.1704	0.5987E-01	0.2864E-01	5.164	0.5447E-07	0.6216
6.000	0.3612	1.544	0.1949	0.5818E-01	0.2925E-01	4.901	0.5216E-07	0.6339
6.500	0.4391	1.510	0.2251	0.5633E-01	0.2961E-01	4.676	0.4976E-07	0.6544
7.000	0.5284	1.463	0.2622	0.5433E-01	0.2976E-01	4.481	0.4741E-07	0.6823
8.000	0.7431	1.351	0.3629	0.4990E-01	0.2960E-01	4.173	0.4331E-07	0.7564
9.000	0.9869	1.233	0.4989	0.4504E-01	0.2910E-01	3.954	0.4091E-07	0.8398
10.00	1.195	1.126	0.6456	0.4009E-01	0.2862E-01	3.815	0.4122E-07	0.9028
12.00	1.349	0.9789	0.8431	0.3159E-01	0.2837E-01	3.731	0.4985E-07	0.9246
15.00	1.279	0.8715	0.9341	0.2346E-01	0.2934E-01	3.850	0.7359E-07	0.8688
20.00	1.136	0.7952	0.9504	0.1657E-01	0.3201E-01	4.233	0.1243E-06	0.7996
25.00	1.062	0.7594	0.9489	0.1296E-01	0.3495E-01	4.662	0.1824E-06	0.7664
30.00	1.023	0.7386	0.9487	0.1072E-01	0.3792E-01	5.091	0.2466E-06	0.7485
40.00	0.9897	0.7156	0.9521	0.8025E-02	0.4380E-01	5.911	0.3923E-06	0.7292
50.00	0.9781	0.7033	0.9569	0.6442E-02	0.4951E-01	6.679	0.5606E-06	0.7180
60.00	0.9742	0.6957	0.9615	0.5391E-02	0.5503E-01	7.402	0.7508E-06	0.7099
80.00	0.9738	0.6869	0.9690	0.4073E-02	0.6557E-01	8.746	0.1193E-05	0.6983
100.0	0.9761	0.6820	0.9744	0.3276E-02	0.7551E-01	9.992	0.1715E-05	0.6902
120.0	0.9787	0.6789	0.9785	0.2741E-02	0.8497E-01	10.99	0.2310E-05	0.6730
140.0	0.9810	0.6768	0.9815	0.2356E-02	0.9403E-01	12.12	0.2976E-05	0.6701
160.0	0.9830	0.6753	0.9838	0.2067E-02	0.1028	13.20	0.3710E-05	0.6678
180.0	0.9846	0.6741	0.9857	0.1841E-02	0.1112	14.25	0.4510E-05	0.6660
200.0	0.9861	0.6732	0.9872	0.1659E-02	0.1193	15.27	0.5372E-05	0.6644
220.0	0.9873	0.6725	0.9885	0.1510E-02	0.1273	16.26	0.6295E-05	0.6632
240.0	0.9884	0.6720	0.9895	0.1386E-02	0.1350	17.22	0.7278E-05	0.6622
260.0	0.9893	0.6715	0.9904	0.1280E-02	0.1426	18.16	0.8319E-05	0.6614
280.0	0.9901	0.6711	0.9912	0.1190E-02	0.1500	19.08	0.9417E-05	0.6607
300.0	0.9907	0.6707	0.9918	0.1111E-02	0.1572	19.99	0.1057E-04	0.6601
350.0	0.9922	0.6701	0.9931	0.9535E-03	0.1747	22.20	0.1369E-04	0.6597
400.0	0.9932	0.6696	0.9941	0.8351E-03	0.1915	24.34	0.1713E-04	0.6596
500.0	0.9947	0.6689	0.9954	0.6690E-03	0.2234	28.40	0.2495E-04	0.6599
600.0	0.9957	0.6685	0.9963	0.5579E-03	0.2535	32.24	0.3393E-04	0.6604
700.0	0.9964	0.6682	0.9969	0.4785E-03	0.2821	35.92	0.4403E-04	0.6610
800.0	0.9969	0.6680	0.9974	0.4189E-03	0.3096	39.45	0.5519E-04	0.6617
900.0	0.9973	0.6678	0.9977	0.3725E-03	0.3360	42.87	0.6737E-04	0.6624
1000.	0.9976	0.6677	0.9980	0.3353E-03	0.3616	46.18	0.8053E-04	0.6631
1100.	0.9979	0.6676	0.9982	0.3049E-03	0.3864	49.40	0.9465E-04	0.6637
1200.	0.9981	0.6675	0.9983	0.2795E-03	0.4106	52.54	0.1097E-03	0.6644
1300.	0.9983	0.6674	0.9985	0.2581E-03	0.4342	55.61	0.1256E-03	0.6650
1400.	0.9984	0.6674	0.9986	0.2397E-03	0.4573	58.61	0.1425E-03	0.6655
1500.	0.9985	0.6673	0.9987	0.2237E-03	0.4799	61.56	0.1602E-03	0.6661

PRESSURE = 2.000 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	168.4	7.149	0.7978	12.68	0.8260E-02	0.6999E-01	0.7006E-01	339.8
	1.000	168.4	5.717	0.8263	12.70	0.3538E-01	0.1973	0.1979	340.7
	1.200	168.5	4.761	0.9002	12.77	0.9483E-01	0.5004	0.5032	342.3
	1.400	168.7	4.076	1.072	12.92	0.2140	1.112	1.126	343.5
	1.600	169.2	3.556	1.435	13.25	0.4325	2.218	2.290	342.3
	1.800	170.2	3.142	2.163	13.91	0.8168	4.216	4.570	335.8
1	1.832	170.5	3.083	2.334	14.07	0.9018	4.693	5.158	334.1
2	1.922	171.5	2.922	2.978	14.64	1.208	7.077	8.429	327.6
3	1.931	171.6	2.906	3.070	14.72	1.251	8.376	10.56	326.4
3	1.933	171.7	2.902	3.095	14.75	1.262	5.218	5.753	327.6
2	1.942	171.7	2.888	3.135	14.78	1.281	3.260	3.352	329.5
1	2.032	171.8	2.759	3.335	14.98	1.380	1.727	1.730	335.5
	2.200	171.5	2.552	3.575	15.24	1.502	1.394	1.429	341.6
	2.400	171.0	2.346	3.822	15.52	1.624	1.447	1.511	344.7
	2.700	170.2	2.096	4.233	15.99	1.811	1.393	1.480	348.4
	3.000	169.3	1.896	4.625	16.44	1.972	1.471	1.602	348.8
	3.300	168.2	1.735	5.074	16.97	2.139	1.703	1.898	346.7
	3.600	166.9	1.603	5.594	17.58	2.316	1.895	2.167	344.2
	3.900	165.5	1.492	6.175	18.26	2.499	2.030	2.392	341.9
	4.200	163.9	1.399	6.804	19.01	2.683	2.123	2.585	339.8
	4.500	162.1	1.320	7.475	19.81	2.867	2.190	2.762	337.6
	4.800	160.2	1.252	8.183	20.67	3.051	2.242	2.933	335.3
	5.000	158.9	1.212	8.676	21.26	3.173	2.273	3.047	333.7
	5.100	158.2	1.193	8.928	21.57	3.234	2.287	3.105	332.8
	5.300	156.7	1.159	9.445	22.20	3.356	2.315	3.221	331.0
	5.500	155.3	1.128	9.979	22.86	3.477	2.342	3.341	329.0
	6.000	151.3	1.061	11.39	24.61	3.781	2.408	3.652	323.4
	6.500	147.0	1.008	12.91	26.52	4.086	2.474	3.983	317.0
	7.000	142.3	0.9664	14.54	28.59	4.394	2.539	4.333	309.8
	8.000	132.1	0.9109	18.16	33.29	5.021	2.662	5.074	294.3
	9.000	120.9	0.8847	22.20	38.74	5.662	2.773	5.814	279.1
	10.00	109.3	0.8808	26.58	44.88	6.307	2.870	6.420	267.2
	12.00	88.17	0.9100	35.66	58.35	7.534	3.016	6.892	257.9
	15.00	66.33	0.9677	48.61	78.76	9.053	3.127	6.643	266.7
	20.00	47.04	1.023	68.00	110.5	10.88	3.180	6.101	295.2
	25.00	36.84	1.046	85.87	140.2	12.21	3.186	5.789	324.0
	30.00	30.47	1.053	103.0	168.6	13.25	3.181	5.609	350.6
	40.00	22.84	1.054	136.1	223.7	14.83	3.168	5.424	398.0
	50.00	18.35	1.050	168.4	277.4	16.03	3.157	5.336	439.8
	60.00	15.37	1.044	200.3	330.5	17.00	3.149	5.287	477.8
	80.00	11.62	1.036	263.6	435.7	18.51	3.139	5.239	545.4
	100.0	9.355	1.029	326.5	540.3	19.68	3.133	5.218	605.4
	120.0	7.832	1.025	389.1	644.5	20.63	3.129	5.208	659.8
	140.0	6.736	1.021	451.7	748.6	21.43	3.127	5.201	710.1
	160.0	5.910	1.018	514.2	852.6	22.13	3.125	5.198	757.1
	180.0	5.264	1.016	576.6	956.5	22.74	3.123	5.196	801.4
	200.0	4.746	1.014	639.0	1060.	23.29	3.122	5.194	843.3
	220.0	4.321	1.013	701.4	1164.	23.78	3.121	5.193	883.2
	240.0	3.965	1.012	763.7	1268.	24.23	3.121	5.193	921.5
	260.0	3.664	1.011	826.1	1372.	24.65	3.120	5.192	958.2
	280.0	3.405	1.010	888.4	1476.	25.03	3.120	5.192	993.6
	300.0	3.180	1.009	950.8	1580.	25.39	3.119	5.192	1028.
	350.0	2.730	1.008	1107.	1839.	26.19	3.119	5.191	1109.
	400.0	2.391	1.007	1262.	2099.	26.88	3.118	5.191	1184.
	500.0	1.916	1.005	1574.	2618.	28.04	3.118	5.191	1322.
	600.0	1.598	1.004	1886.	3137.	28.99	3.117	5.192	1447.
	700.0	1.371	1.003	2197.	3656.	29.79	3.117	5.192	1562.
	800.0	1.200	1.003	2509.	4175.	30.48	3.117	5.192	1669.
	900.0	1.067	1.003	2820.	4695.	31.09	3.117	5.192	1769.
	1000.	0.9606	1.002	3132.	5214.	31.64	3.116	5.192	1865.
	1100.	0.8735	1.002	3443.	5733.	32.14	3.116	5.192	1955.
	1200.	0.8009	1.002	3755.	6252.	32.59	3.116	5.192	2042.
	1300.	0.7394	1.002	4067.	6772.	33.00	3.116	5.192	2125.
	1400.	0.6867	1.002	4378.	7291.	33.39	3.116	5.192	2205.
	1500.	0.6410	1.001	4690.	7810.	33.75	3.116	5.192	2282.

PRESSURE = 2.000 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
0.8000	-0.7149E-03	-1.473	0.1030	0.6618E-01				
1.000	-0.2264E-02	-1.328	0.1026	0.6620E-01				
1.200	-0.5437E-02	-1.055	0.1019	0.6624E-01				
1.400	-0.1316E-01	-0.9851	0.1017	0.6633E-01				
1.600	-0.3172E-01	-1.014	0.1042	0.6652E-01				
1.800	-0.7831E-01	-1.074	0.1129	0.6693E-01				
1.832	-0.9160E-01	-1.082	0.1155	0.6703E-01				
1.922	-0.1698	-1.125	0.1294	0.6742E-01				
1.931	-0.2233	-1.167	0.1379	0.6748E-01				
1.933	-0.1030	-0.9944	0.1197	0.6750E-01				
1.942	-0.4108E-01	-0.6854	0.1103	0.6752E-01				
2.032	0.7424E-02	0.2378	0.1036	0.6754E-01				
2.200	0.2593E-01	0.9624	0.1024	0.6744E-01				
2.400	0.3668E-01	1.202	0.1028	0.6724E-01				
2.700	0.4530E-01	1.376	0.1029	0.6690E-01				
3.000	0.5923E-01	1.500	0.1057	0.6654E-01				
3.300	0.7728E-01	1.483	0.1103	0.6610E-01				
3.600	0.9731E-01	1.478	0.1157	0.6560E-01	0.2391E-01	6.915	0.6610E-07	0.6268
3.900	0.1192	1.495	0.1218	0.6503E-01	0.2511E-01	6.626	0.6344E-07	0.6312
4.200	0.1430	1.521	0.1287	0.6439E-01	0.2618E-01	6.355	0.6180E-07	0.6276
4.500	0.1687	1.547	0.1365	0.6369E-01	0.2712E-01	6.105	0.6057E-07	0.6217
4.800	0.1963	1.568	0.1452	0.6294E-01	0.2793E-01	5.874	0.5945E-07	0.6167
5.000	0.2159	1.578	0.1516	0.6240E-01	0.2841E-01	5.730	0.5869E-07	0.6146
5.100	0.2260	1.581	0.1550	0.6213E-01	0.2863E-01	5.662	0.5830E-07	0.6139
5.300	0.2470	1.585	0.1621	0.6156E-01	0.2903E-01	5.531	0.5750E-07	0.6137
5.500	0.2691	1.585	0.1698	0.6097E-01	0.2939E-01	5.408	0.5666E-07	0.6147
6.000	0.3289	1.570	0.1916	0.5939E-01	0.3008E-01	5.131	0.5444E-07	0.6230
6.500	0.3965	1.539	0.2180	0.5767E-01	0.3052E-01	4.893	0.5214E-07	0.6386
7.000	0.4725	1.496	0.2498	0.5583E-01	0.3075E-01	4.690	0.4987E-07	0.6607
8.000	0.6518	1.390	0.3332	0.5178E-01	0.3074E-01	4.367	0.4585E-07	0.7210
9.000	0.8582	1.278	0.4451	0.4735E-01	0.3034E-01	4.137	0.4316E-07	0.7927
10.00	1.055	1.173	0.5734	0.4277E-01	0.2988E-01	3.985	0.4257E-07	0.8563
12.00	1.264	1.017	0.7794	0.3443E-01	0.2946E-01	3.866	0.4849E-07	0.9044
15.00	1.255	0.8957	0.9007	0.2586E-01	0.3021E-01	3.950	0.6856E-07	0.8686
20.00	1.134	0.8098	0.9364	0.1831E-01	0.3272E-01	4.307	0.1140E-06	0.8031
25.00	1.061	0.7697	0.9400	0.1433E-01	0.3557E-01	4.722	0.1668E-06	0.7686
30.00	1.022	0.7465	0.9417	0.1184E-01	0.3848E-01	5.142	0.2251E-06	0.7496
40.00	0.9875	0.7210	0.9466	0.8870E-02	0.4426E-01	5.953	0.3574E-06	0.7294
50.00	0.9754	0.7073	0.9522	0.7124E-02	0.4991E-01	6.715	0.5098E-06	0.7179
60.00	0.9713	0.6989	0.9574	0.5965E-02	0.5538E-01	7.435	0.6817E-06	0.7098
80.00	0.9710	0.6891	0.9657	0.4510E-02	0.6584E-01	8.774	0.1081E-05	0.6982
100.0	0.9735	0.6837	0.9717	0.3630E-02	0.7575E-01	10.02	0.1552E-05	0.6900
120.0	0.9764	0.6802	0.9761	0.3038E-02	0.8518E-01	11.01	0.2089E-05	0.6729
140.0	0.9789	0.6779	0.9795	0.2613E-02	0.9423E-01	12.14	0.2689E-05	0.6700
160.0	0.9811	0.6762	0.9821	0.2292E-02	0.1029	13.22	0.3351E-05	0.6676
180.0	0.9830	0.6750	0.9841	0.2042E-02	0.1113	14.27	0.4071E-05	0.6657
200.0	0.9846	0.6740	0.9858	0.1841E-02	0.1195	15.28	0.4848E-05	0.6642
220.0	0.9859	0.6732	0.9872	0.1676E-02	0.1274	16.27	0.5680E-05	0.6629
240.0	0.9871	0.6725	0.9884	0.1538E-02	0.1352	17.23	0.6565E-05	0.6619
260.0	0.9881	0.6720	0.9893	0.1421E-02	0.1427	18.17	0.7503E-05	0.6610
280.0	0.9890	0.6716	0.9902	0.1321E-02	0.1501	19.09	0.8492E-05	0.6603
300.0	0.9897	0.6712	0.9909	0.1233E-02	0.1574	20.00	0.9530E-05	0.6597
350.0	0.9913	0.6704	0.9924	0.1059E-02	0.1749	22.21	0.1234E-04	0.6594
400.0	0.9925	0.6699	0.9934	0.9273E-03	0.1917	24.34	0.1544E-04	0.6593
500.0	0.9941	0.6692	0.9949	0.7429E-03	0.2236	28.40	0.2248E-04	0.6596
600.0	0.9952	0.6687	0.9959	0.6197E-03	0.2536	32.25	0.3057E-04	0.6601
700.0	0.9960	0.6684	0.9966	0.5315E-03	0.2822	35.92	0.3966E-04	0.6608
800.0	0.9966	0.6681	0.9971	0.4653E-03	0.3097	39.46	0.4970E-04	0.6615
900.0	0.9970	0.6679	0.9974	0.4138E-03	0.3361	42.87	0.6067E-04	0.6622
1000.	0.9974	0.6678	0.9977	0.3725E-03	0.3617	46.18	0.7252E-04	0.6629
1100.	0.9976	0.6677	0.9980	0.3387E-03	0.3865	49.40	0.8523E-04	0.6636
1200.	0.9979	0.6676	0.9982	0.3105E-03	0.4107	52.54	0.9877E-04	0.6642
1300.	0.9981	0.6675	0.9983	0.2867E-03	0.4343	55.61	0.1131E-03	0.6648
1400.	0.9982	0.6674	0.9985	0.2662E-03	0.4574	58.61	0.1283E-03	0.6654
1500.	0.9984	0.6674	0.9986	0.2485E-03	0.4800	61.56	0.1442E-03	0.6659

PRESSURE = 2.200 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
	0.8000	170.0	7.785	0.9229	13.86	0.9250E-02	0.7592E-01	0.7597E-01	347.7
	1.000	170.1	6.227	0.9524	13.89	0.3787E-01	0.2063	0.2068	348.8
	1.200	170.2	5.186	1.029	13.96	0.1000	0.5244	0.5271	350.2
	1.400	170.4	4.439	1.211	14.12	0.2254	1.172	1.189	350.9
	1.600	170.9	3.872	1.601	14.47	0.4573	2.349	2.444	348.8
	1.800	172.1	3.418	2.399	15.18	0.8723	4.502	5.006	341.1
1	1.802	172.2	3.415	2.409	15.19	0.8769	4.528	5.039	341.0
2	1.892	173.2	3.233	3.049	15.75	1.181	6.768	8.251	334.0
3	1.901	173.4	3.214	3.142	15.83	1.224	7.964	10.34	332.6
3	1.903	173.4	3.210	3.169	15.86	1.237	4.984	5.574	334.3
2	1.912	173.4	3.194	3.208	15.89	1.255	3.107	3.210	336.4
1	2.002	173.5	3.049	3.400	16.08	1.351	1.651	1.653	343.0
	2.200	173.2	2.779	3.666	16.37	1.488	1.328	1.364	350.3
	2.400	172.7	2.555	3.901	16.64	1.606	1.428	1.490	353.2
	2.700	171.9	2.282	4.305	17.11	1.793	1.358	1.439	357.0
	3.000	171.0	2.065	4.685	17.55	1.950	1.439	1.559	357.3
	3.300	170.0	1.888	5.118	18.06	2.112	1.670	1.850	355.3
	3.600	168.8	1.743	5.622	18.66	2.285	1.863	2.115	353.0
	3.900	167.4	1.622	6.185	19.33	2.463	2.000	2.335	350.9
	4.200	165.9	1.520	6.794	20.06	2.643	2.094	2.523	349.0
	4.500	164.3	1.433	7.444	20.84	2.823	2.163	2.694	347.1
	4.800	162.5	1.358	8.129	21.67	3.002	2.217	2.859	345.1
	5.000	161.2	1.314	8.606	22.25	3.121	2.248	2.968	343.6
	5.100	160.5	1.294	8.850	22.55	3.180	2.263	3.024	342.8
	5.300	159.2	1.255	9.349	23.17	3.299	2.292	3.135	341.2
	5.500	157.8	1.220	9.865	23.81	3.417	2.320	3.248	339.5
	6.000	154.1	1.146	11.22	25.50	3.712	2.389	3.542	334.5
	6.500	150.0	1.086	12.69	27.35	4.008	2.456	3.851	328.6
	7.000	145.7	1.039	14.26	29.36	4.305	2.523	4.174	322.1
	8.000	136.2	0.9717	17.72	33.87	4.906	2.649	4.848	307.7
	9.000	125.9	0.9345	21.58	39.06	5.516	2.761	5.523	293.3
	10.00	115.1	0.9198	25.78	44.89	6.130	2.857	6.114	281.1
	12.00	94.70	0.9320	34.63	57.86	7.312	3.004	6.727	268.8
	15.00	72.16	0.9785	47.57	78.06	8.814	3.124	6.639	273.6
	20.00	51.39	1.030	67.17	110.0	10.65	3.184	6.147	299.6
	25.00	40.27	1.052	85.22	139.9	11.99	3.191	5.830	327.5
	30.00	33.32	1.059	102.5	168.5	13.03	3.187	5.641	353.7
	40.00	24.99	1.060	135.7	223.8	14.63	3.173	5.443	400.7
	50.00	20.09	1.055	168.2	277.7	15.83	3.161	5.348	442.2
	60.00	16.83	1.049	200.2	330.9	16.80	3.152	5.296	480.0
	80.00	12.74	1.039	263.5	436.2	18.31	3.141	5.244	547.3
	100.0	10.26	1.032	326.4	540.8	19.48	3.135	5.221	607.0
	120.0	8.594	1.027	389.1	645.1	20.43	3.131	5.209	661.4
	140.0	7.394	1.023	451.7	749.2	21.23	3.128	5.202	711.5
	160.0	6.489	1.020	514.2	853.2	21.93	3.126	5.198	758.4
	180.0	5.781	1.018	576.6	957.2	22.54	3.124	5.196	802.6
	200.0	5.213	1.016	639.0	1061.	23.09	3.123	5.194	844.4
	220.0	4.747	1.014	701.4	1165.	23.58	3.122	5.193	884.3
	240.0	4.357	1.013	763.8	1269.	24.04	3.121	5.193	922.5
	260.0	4.026	1.012	826.2	1373.	24.45	3.121	5.192	959.1
	280.0	3.742	1.011	888.5	1476.	24.84	3.120	5.192	994.5
	300.0	3.495	1.010	950.9	1580.	25.19	3.120	5.191	1029.
	350.0	3.001	1.008	1107.	1840.	25.99	3.119	5.191	1109.
	400.0	2.629	1.007	1263.	2099.	26.69	3.118	5.191	1185.
	500.0	2.106	1.006	1574.	2619.	27.85	3.118	5.191	1322.
	600.0	1.757	1.005	1886.	3138.	28.79	3.117	5.191	1447.
	700.0	1.507	1.004	2197.	3657.	29.59	3.117	5.192	1562.
	800.0	1.320	1.003	2509.	4176.	30.29	3.117	5.192	1669.
	900.0	1.173	1.003	2820.	4695.	30.90	3.117	5.192	1770.
	1000.	1.056	1.002	3132.	5214.	31.44	3.117	5.192	1865.
	1100.	0.9607	1.002	3444.	5734.	31.94	3.116	5.192	1955.
	1200.	0.8808	1.002	3755.	6253.	32.39	3.116	5.192	2042.
	1300.	0.8132	1.002	4067.	6772.	32.81	3.116	5.192	2125.
	1400.	0.7552	1.002	4378.	7291.	33.19	3.116	5.192	2205.
	1500.	0.7050	1.002	4690.	7811.	33.55	3.116	5.192	2282.

PRESSURE = 2.200 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_p$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_v$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
0.8000	-0.6075E-03	-1.208	0.1071	0.6685E-01				
1.000	-0.1947E-02	-1.146	0.1065	0.6687E-01				
1.200	-0.5126E-02	-0.9941	0.1059	0.6691E-01				
1.400	-0.1389E-01	-1.027	0.1063	0.6700E-01				
1.600	-0.3597E-01	-1.119	0.1101	0.6721E-01				
1.800	-0.9309E-01	-1.202	0.1221	0.6769E-01				
1.802	-0.9390E-01	-1.203	0.1223	0.6769E-01				
1.892	-0.1751	-1.251	0.1388	0.6811E-01				
1.901	-0.2304	-1.297	0.1490	0.6817E-01				
1.903	-0.1060	-1.117	0.1270	0.6819E-01				
1.912	-0.4227E-01	-0.7796	0.1158	0.6821E-01				
2.002	0.6089E-02	0.2166	0.1079	0.6824E-01				
2.200	0.2590E-01	1.059	0.1063	0.6812E-01				
2.400	0.3521E-01	1.228	0.1065	0.6793E-01				
2.700	0.4255E-01	1.396	0.1064	0.6758E-01				
3.000	0.5535E-01	1.511	0.1092	0.6723E-01				
3.300	0.7217E-01	1.492	0.1136	0.6682E-01				
3.600	0.9088E-01	1.487	0.1187	0.6634E-01	0.2433E-01	7.262	0.6815E-07	0.6314
3.900	0.1113	1.506	0.1246	0.6580E-01	0.2557E-01	6.951	0.6541E-07	0.6347
4.200	0.1335	1.534	0.1312	0.6520E-01	0.2668E-01	6.660	0.6375E-07	0.6297
4.500	0.1573	1.563	0.1385	0.6454E-01	0.2767E-01	6.392	0.6253E-07	0.6223
4.800	0.1828	1.586	0.1467	0.6383E-01	0.2853E-01	6.145	0.6144E-07	0.6157
5.000	0.2007	1.597	0.1526	0.6333E-01	0.2904E-01	5.993	0.6070E-07	0.6125
5.100	0.2100	1.600	0.1558	0.6307E-01	0.2928E-01	5.920	0.6032E-07	0.6114
5.300	0.2291	1.605	0.1624	0.6253E-01	0.2971E-01	5.781	0.5954E-07	0.6100
5.500	0.2491	1.607	0.1694	0.6197E-01	0.3010E-01	5.650	0.5872E-07	0.6098
6.000	0.3029	1.594	0.1893	0.6049E-01	0.3086E-01	5.357	0.5656E-07	0.6148
6.500	0.3627	1.565	0.2129	0.5888E-01	0.3138E-01	5.106	0.5432E-07	0.6266
7.000	0.4292	1.524	0.2408	0.5716E-01	0.3168E-01	4.892	0.5211E-07	0.6444
8.000	0.5831	1.424	0.3121	0.5342E-01	0.3180E-01	4.554	0.4814E-07	0.6943
9.000	0.7604	1.316	0.4063	0.4933E-01	0.3150E-01	4.312	0.4529E-07	0.7560
10.00	0.9392	1.214	0.5175	0.4507E-01	0.3107E-01	4.147	0.4413E-07	0.8162
12.00	1.177	1.053	0.7201	0.3700E-01	0.3054E-01	3.999	0.4794E-07	0.8809
15.00	1.224	0.9198	0.8655	0.2814E-01	0.3107E-01	4.050	0.6486E-07	0.8653
20.00	1.129	0.8243	0.9209	0.2001E-01	0.3341E-01	4.380	0.1058E-06	0.8057
25.00	1.060	0.7799	0.9305	0.1567E-01	0.3618E-01	4.782	0.1541E-06	0.7705
30.00	1.021	0.7544	0.9344	0.1295E-01	0.3903E-01	5.194	0.2076E-06	0.7507
40.00	0.9852	0.7264	0.9410	0.9707E-02	0.4473E-01	5.995	0.3289E-06	0.7296
50.00	0.9726	0.7114	0.9475	0.7801E-02	0.5030E-01	6.751	0.4683E-06	0.7178
60.00	0.9684	0.7021	0.9533	0.6534E-02	0.5573E-01	7.467	0.6252E-06	0.7096
80.00	0.9682	0.6913	0.9624	0.4945E-02	0.6613E-01	8.801	0.9898E-06	0.6980
100.0	0.9710	0.6854	0.9690	0.3982E-02	0.7599E-01	10.04	0.1418E-05	0.6899
120.0	0.9741	0.6816	0.9738	0.3334E-02	0.8540E-01	11.03	0.1908E-05	0.6728
140.0	0.9769	0.6790	0.9775	0.2869E-02	0.9442E-01	12.16	0.2454E-05	0.6698
160.0	0.9793	0.6772	0.9803	0.2517E-02	0.1031	13.24	0.3057E-05	0.6674
180.0	0.9813	0.6758	0.9826	0.2243E-02	0.1115	14.28	0.3712E-05	0.6655
200.0	0.9830	0.6747	0.9844	0.2022E-02	0.1197	15.30	0.4419E-05	0.6640
220.0	0.9845	0.6738	0.9859	0.1841E-02	0.1276	16.28	0.5176E-05	0.6627
240.0	0.9858	0.6731	0.9872	0.1690E-02	0.1353	17.24	0.5982E-05	0.6616
260.0	0.9869	0.6726	0.9883	0.1561E-02	0.1429	18.18	0.6835E-05	0.6607
280.0	0.9879	0.6721	0.9892	0.1451E-02	0.1503	19.10	0.7735E-05	0.6600
300.0	0.9887	0.6716	0.9900	0.1356E-02	0.1575	20.00	0.8679E-05	0.6593
350.0	0.9904	0.6708	0.9916	0.1164E-02	0.1750	22.22	0.1123E-04	0.6590
400.0	0.9917	0.6702	0.9928	0.1019E-02	0.1918	24.35	0.1406E-04	0.6590
500.0	0.9935	0.6694	0.9944	0.8168E-03	0.2237	28.41	0.2046E-04	0.6593
600.0	0.9948	0.6689	0.9955	0.6814E-03	0.2537	32.25	0.2781E-04	0.6599
700.0	0.9956	0.6685	0.9962	0.5845E-03	0.2823	35.93	0.3608E-04	0.6606
800.0	0.9962	0.6683	0.9968	0.5117E-03	0.3098	39.46	0.4522E-04	0.6613
900.0	0.9967	0.6681	0.9972	0.4550E-03	0.3362	42.87	0.5519E-04	0.6620
1000.	0.9971	0.6679	0.9975	0.4096E-03	0.3618	46.18	0.6596E-04	0.6627
1100.	0.9974	0.6678	0.9978	0.3725E-03	0.3867	49.40	0.7752E-04	0.6634
1200.	0.9977	0.6677	0.9980	0.3415E-03	0.4108	52.54	0.8983E-04	0.6640
1300.	0.9979	0.6676	0.9982	0.3153E-03	0.4344	55.61	0.1029E-03	0.6647
1400.	0.9980	0.6675	0.9983	0.2928E-03	0.4575	58.62	0.1167E-03	0.6653
1500.	0.9982	0.6675	0.9984	0.2733E-03	0.4801	61.56	0.1312E-03	0.6658

PRESSURE = 2.400 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
	0.8000	171.7	8.413	1.051	15.03	0.9995E-02	0.8138E-01	0.8140E-01	356.3
	1.000	171.7	6.729	1.081	15.06	0.3998E-01	0.2150	0.2153	357.7
	1.200	171.8	5.605	1.161	15.13	0.1050	0.5510	0.5538	358.6
	1.400	172.0	4.797	1.354	15.31	0.2374	1.242	1.263	358.3
	1.600	172.6	4.183	1.777	15.68	0.4854	2.500	2.629	354.9
1	1.771	173.8	3.756	2.487	16.30	0.8515	4.366	4.922	347.5
2	1.861	174.9	3.551	3.125	16.85	1.155	6.478	8.108	339.7
3	1.870	175.0	3.531	3.218	16.93	1.197	7.616	10.26	338.1
3	1.872	175.1	3.526	3.248	16.96	1.211	4.739	5.377	340.4
2	1.881	175.1	3.508	3.286	16.99	1.229	2.960	3.072	342.7
1	1.971	175.2	3.347	3.471	17.17	1.322	1.578	1.579	350.0
	2.000	175.2	3.298	3.514	17.21	1.345	1.476	1.481	351.7
	2.200	174.9	3.003	3.761	17.49	1.474	1.272	1.310	358.7
	2.400	174.4	2.761	3.985	17.75	1.590	1.412	1.472	361.3
	2.700	173.5	2.467	4.383	18.22	1.775	1.326	1.402	365.1
	3.000	172.7	2.231	4.751	18.65	1.929	1.408	1.519	365.4
	3.300	171.7	2.039	5.171	19.15	2.087	1.640	1.806	363.5
	3.600	170.5	1.882	5.660	19.73	2.256	1.833	2.067	361.4
	3.900	169.3	1.750	6.206	20.39	2.430	1.970	2.282	359.5
	4.200	167.8	1.639	6.798	21.10	2.606	2.066	2.466	357.8
	4.500	166.3	1.544	7.428	21.86	2.782	2.136	2.633	356.1
	4.800	164.6	1.463	8.093	22.68	2.957	2.192	2.793	354.3
	5.000	163.4	1.415	8.555	23.25	3.073	2.224	2.898	353.0
	5.100	162.7	1.392	8.792	23.54	3.131	2.240	2.952	352.3
	5.300	161.5	1.350	9.276	24.14	3.247	2.270	3.059	350.9
	5.500	160.1	1.312	9.775	24.76	3.362	2.299	3.167	349.3
	6.000	156.6	1.230	11.09	26.42	3.650	2.370	3.448	344.8
	6.500	152.8	1.163	12.51	28.21	3.937	2.440	3.740	339.4
	7.000	148.7	1.110	14.02	30.16	4.225	2.508	4.042	333.4
	8.000	139.9	1.032	17.35	34.51	4.805	2.637	4.666	320.1
	9.000	130.3	0.9853	21.07	39.49	5.391	2.751	5.290	306.4
	10.00	120.2	0.9611	25.11	45.07	5.979	2.848	5.855	294.2
	12.00	100.6	0.9572	33.73	57.59	7.118	2.995	6.550	279.7
	15.00	77.68	0.9915	46.62	77.51	8.600	3.120	6.614	280.9
	20.00	55.64	1.038	66.38	109.5	10.44	3.187	6.183	304.2
	25.00	43.65	1.059	84.59	139.6	11.79	3.197	5.866	331.1
	30.00	36.13	1.066	102.0	168.4	12.84	3.192	5.671	356.8
	40.00	27.11	1.065	135.4	223.9	14.44	3.177	5.462	403.3
	50.00	21.81	1.060	167.9	278.0	15.64	3.165	5.360	444.6
	60.00	18.28	1.053	200.0	331.3	16.62	3.155	5.304	482.2
	80.00	13.85	1.043	263.4	436.7	18.13	3.143	5.248	549.2
	100.0	11.16	1.035	326.4	541.4	19.30	3.136	5.223	608.7
	120.0	9.353	1.029	389.1	645.7	20.25	3.132	5.210	662.9
	140.0	8.050	1.025	451.7	749.8	21.05	3.129	5.203	712.9
	160.0	7.066	1.022	514.2	853.9	21.75	3.126	5.199	759.7
	180.0	6.297	1.019	576.7	957.8	22.36	3.125	5.196	803.7
	200.0	5.679	1.017	639.1	1062.	22.91	3.124	5.194	845.5
	220.0	5.171	1.016	701.5	1166.	23.40	3.123	5.193	885.4
	240.0	4.747	1.014	763.9	1269.	23.85	3.122	5.192	923.5
	260.0	4.387	1.013	826.2	1373.	24.27	3.121	5.192	960.1
	280.0	4.078	1.012	888.6	1477.	24.66	3.121	5.192	995.4
	300.0	3.809	1.011	950.9	1581.	25.01	3.120	5.191	1029.
	350.0	3.271	1.009	1107.	1841.	25.81	3.119	5.191	1110.
	400.0	2.866	1.008	1263.	2100.	26.51	3.119	5.191	1185.
	500.0	2.297	1.006	1574.	2619.	27.66	3.118	5.191	1323.
	600.0	1.916	1.005	1886.	3138.	28.61	3.117	5.191	1448.
	700.0	1.644	1.004	2197.	3657.	29.41	3.117	5.191	1563.
	800.0	1.439	1.004	2509.	4177.	30.10	3.117	5.192	1670.
	900.0	1.280	1.003	2820.	4696.	30.72	3.117	5.192	1770.
	1000.	1.152	1.003	3132.	5215.	31.26	3.117	5.192	1865.
	1100.	1.048	1.002	3444.	5734.	31.76	3.116	5.192	1956.
	1200.	0.9607	1.002	3755.	6253.	32.21	3.116	5.192	2042.
	1300.	0.8870	1.002	4067.	6773.	32.63	3.116	5.192	2125.
	1400.	0.8238	1.002	4378.	7292.	33.01	3.116	5.192	2205.
	1500.	0.7689	1.002	4690.	7811.	33.37	3.116	5.192	2282.

PRESSURE = 2.400 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
0.8000	-0.3923E-03	-0.7648	0.1102	0.6750E-01				
1.000	-0.1660E-02	-0.9862	0.1094	0.6751E-01				
1.200	-0.5078E-02	-0.9830	0.1092	0.6755E-01				
1.400	-0.1520E-01	-1.104	0.1105	0.6765E-01				
1.600	-0.4141E-01	-1.240	0.1160	0.6789E-01				
1.771	-0.9586E-01	-1.328	0.1290	0.6833E-01				
1.861	-0.1814	-1.387	0.1489	0.6877E-01				
1.870	-0.2416	-1.439	0.1617	0.6884E-01				
1.872	-0.1081	-1.244	0.1342	0.6886E-01				
1.881	-0.4316E-01	-0.8775	0.1211	0.6888E-01				
1.971	0.5026E-02	0.1979	0.1119	0.6891E-01				
2.000	0.9634E-02	0.4021	0.1112	0.6890E-01				
2.200	0.2585E-01	1.154	0.1099	0.6878E-01				
2.400	0.3394E-01	1.254	0.1099	0.6858E-01				
2.700	0.4014E-01	1.414	0.1096	0.6823E-01				
3.000	0.5194E-01	1.522	0.1123	0.6789E-01				
3.300	0.6769E-01	1.501	0.1166	0.6750E-01				
3.600	0.8525E-01	1.497	0.1215	0.6705E-01	0.2473E-01	7.613	0.7015E-07	0.6364
3.900	0.1045	1.517	0.1271	0.6654E-01	0.2601E-01	7.279	0.6734E-07	0.6386
4.200	0.1252	1.547	0.1334	0.6597E-01	0.2717E-01	6.967	0.6565E-07	0.6324
4.500	0.1474	1.578	0.1403	0.6534E-01	0.2821E-01	6.681	0.6443E-07	0.6236
4.800	0.1711	1.603	0.1481	0.6467E-01	0.2911E-01	6.418	0.6335E-07	0.6156
5.000	0.1878	1.614	0.1536	0.6419E-01	0.2965E-01	6.256	0.6262E-07	0.6115
5.100	0.1963	1.619	0.1566	0.6394E-01	0.2990E-01	6.178	0.6225E-07	0.6099
5.300	0.2139	1.625	0.1627	0.6343E-01	0.3036E-01	6.030	0.6148E-07	0.6075
5.500	0.2323	1.627	0.1693	0.6290E-01	0.3078E-01	5.892	0.6068E-07	0.6064
6.000	0.2813	1.616	0.1876	0.6150E-01	0.3161E-01	5.581	0.5855E-07	0.6087
6.500	0.3352	1.589	0.2089	0.5999E-01	0.3220E-01	5.316	0.5635E-07	0.6175
7.000	0.3944	1.550	0.2339	0.5837E-01	0.3257E-01	5.090	0.5417E-07	0.6318
8.000	0.5295	1.453	0.2963	0.5486E-01	0.3280E-01	4.735	0.5024E-07	0.6736
9.000	0.6842	1.349	0.3774	0.5106E-01	0.3259E-01	4.480	0.4729E-07	0.7271
10.00	0.8452	1.250	0.4742	0.4707E-01	0.3220E-01	4.303	0.4575E-07	0.7825
12.00	1.092	1.087	0.6668	0.3932E-01	0.3159E-01	4.130	0.4795E-07	0.8561
15.00	1.186	0.9437	0.8298	0.3031E-01	0.3192E-01	4.148	0.6213E-07	0.8595
20.00	1.121	0.8387	0.9044	0.2167E-01	0.3410E-01	4.452	0.9911E-07	0.8073
25.00	1.057	0.7902	0.9204	0.1698E-01	0.3678E-01	4.84	0.1436E-06	0.7721
30.00	1.019	0.7623	0.9268	0.1405E-01	0.3957E-01	5.245	0.1931E-06	0.7516
40.00	0.9827	0.7317	0.9354	0.1053E-01	0.4518E-01	6.036	0.3051E-06	0.7297
50.00	0.9698	0.7154	0.9428	0.8470E-02	0.5070E-01	6.788	0.4337E-06	0.7176
60.00	0.9655	0.7053	0.9492	0.7099E-02	0.5608E-01	7.500	0.5783E-06	0.7094
80.00	0.9654	0.6936	0.9591	0.5376E-02	0.6641E-01	8.829	0.9136E-06	0.6977
100.0	0.9685	0.6871	0.9663	0.4332E-02	0.7623E-01	10.07	0.1307E-05	0.6897
120.0	0.9718	0.6830	0.9715	0.3629E-02	0.8561E-01	11.05	0.1757E-05	0.6726
140.0	0.9748	0.6802	0.9755	0.3123E-02	0.9461E-01	12.18	0.2259E-05	0.6696
160.0	0.9774	0.6782	0.9786	0.2741E-02	0.1033	13.26	0.2812E-05	0.6673
180.0	0.9796	0.6766	0.9810	0.2443E-02	0.1117	14.30	0.3413E-05	0.6653
200.0	0.9815	0.6754	0.9830	0.2203E-02	0.1198	15.31	0.4062E-05	0.6637
220.0	0.9831	0.6745	0.9847	0.2006E-02	0.1277	16.29	0.4757E-05	0.6624
240.0	0.9845	0.6737	0.9861	0.1841E-02	0.1355	17.25	0.5496E-05	0.6613
260.0	0.9857	0.6731	0.9872	0.1702E-02	0.1430	18.19	0.6279E-05	0.6604
280.0	0.9868	0.6726	0.9882	0.1582E-02	0.1504	19.11	0.7104E-05	0.6596
300.0	0.9877	0.6721	0.9891	0.1477E-02	0.1576	20.01	0.7970E-05	0.6590
350.0	0.9896	0.6712	0.9908	0.1269E-02	0.1751	22.22	0.1031E-04	0.6587
400.0	0.9910	0.6705	0.9921	0.1111E-02	0.1919	24.35	0.1290E-04	0.6586
500.0	0.9930	0.6697	0.9939	0.8906E-03	0.2238	28.41	0.1877E-04	0.6590
600.0	0.9943	0.6691	0.9951	0.7430E-03	0.2538	32.26	0.2552E-04	0.6596
700.0	0.9952	0.6687	0.9959	0.6374E-03	0.2825	35.93	0.3310E-04	0.6604
800.0	0.9959	0.6684	0.9965	0.5580E-03	0.3099	39.46	0.4148E-04	0.6611
900.0	0.9964	0.6682	0.9969	0.4963E-03	0.3363	42.87	0.5062E-04	0.6618
1000.	0.9968	0.6680	0.9973	0.4468E-03	0.3619	46.18	0.6050E-04	0.6625
1100.	0.9972	0.6679	0.9976	0.4063E-03	0.3868	49.40	0.7109E-04	0.6632
1200.	0.9974	0.6678	0.9978	0.3725E-03	0.4109	52.54	0.8238E-04	0.6639
1300.	0.9977	0.6677	0.9980	0.3439E-03	0.4345	55.61	0.9435E-04	0.6645
1400.	0.9979	0.6676	0.9982	0.3194E-03	0.4576	58.62	0.1070E-03	0.6651
1500.	0.9980	0.6675	0.9983	0.2982E-03	0.4802	61.56	0.1203E-03	0.6657

PRESSURE = 2.600 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
M	1.391	173.6	5.184	1.490	16.47	0.2423	1.277	1.303	366.0
	1.400	173.6	5.150	1.503	16.48	0.2508	1.321	1.349	365.9
	1.600	174.3	4.489	1.966	16.88	0.5176	2.670	2.849	360.8
1	1.738	175.3	4.108	2.567	17.40	0.8252	4.206	4.807	353.7
2	1.828	176.5	3.880	3.205	17.94	1.128	6.207	8.015	344.9
3	1.837	176.6	3.857	3.300	18.02	1.171	7.328	10.36	343.0
3	1.839	176.7	3.852	3.331	18.05	1.186	4.489	5.164	345.7
2	1.848	176.7	3.832	3.368	18.08	1.204	2.818	2.939	348.3
1	1.938	176.8	3.652	3.546	18.25	1.294	1.508	1.509	356.5
	2.000	176.8	3.540	3.630	18.34	1.339	1.343	1.353	360.1
	2.200	176.4	3.225	3.858	18.59	1.461	1.226	1.265	366.7
	2.400	175.9	2.965	4.074	18.85	1.574	1.399	1.458	369.1
	2.700	175.0	2.649	4.466	19.32	1.759	1.298	1.368	373.0
	3.000	174.2	2.395	4.824	19.75	1.910	1.379	1.483	373.2
	3.300	173.3	2.189	5.231	20.23	2.064	1.610	1.765	371.4
	3.600	172.2	2.019	5.706	20.80	2.229	1.804	2.022	369.5
	3.900	171.0	1.877	6.238	21.44	2.400	1.942	2.234	367.7
	4.200	169.6	1.757	6.813	22.14	2.572	2.039	2.414	366.2
	4.500	168.1	1.654	7.426	22.89	2.744	2.110	2.577	364.7
	4.800	166.5	1.566	8.072	23.69	2.915	2.167	2.732	363.1
	5.000	165.4	1.514	8.521	24.24	3.029	2.201	2.835	361.9
	5.100	164.8	1.489	8.751	24.53	3.086	2.217	2.887	361.3
	5.300	163.6	1.444	9.221	25.12	3.199	2.248	2.990	360.0
	5.500	162.3	1.402	9.706	25.72	3.311	2.278	3.095	358.6
	6.000	159.0	1.312	10.98	27.34	3.592	2.352	3.365	354.5
	6.500	155.4	1.240	12.35	29.09	3.872	2.424	3.644	349.6
	7.000	151.5	1.180	13.82	30.98	4.153	2.494	3.930	344.0
	8.000	143.2	1.093	17.05	35.21	4.716	2.626	4.516	331.5
	9.000	134.2	1.037	20.64	40.02	5.282	2.742	5.098	318.5
	10.00	124.7	1.004	24.54	45.39	5.847	2.840	5.635	306.5
	12.00	105.9	0.9849	32.94	57.49	6.948	2.988	6.373	290.6
	15.00	82.90	1.007	45.74	77.10	8.406	3.117	6.570	288.5
	20.00	59.77	1.047	65.61	109.1	10.25	3.190	6.210	309.0
	25.00	46.97	1.066	83.97	139.3	11.60	3.201	5.899	334.8
	30.00	38.90	1.073	101.4	168.3	12.66	3.197	5.698	360.0
	40.00	29.21	1.071	135.0	224.0	14.26	3.182	5.480	406.0
	50.00	23.51	1.065	167.7	278.2	15.47	3.168	5.372	447.0
	60.00	19.72	1.058	199.8	331.6	16.45	3.158	5.312	484.4
	80.00	14.95	1.046	263.3	437.2	17.96	3.146	5.253	551.1
	100.0	12.06	1.038	326.3	541.9	19.13	3.138	5.226	610.4
	120.0	10.11	1.032	389.1	646.3	20.08	3.133	5.212	664.4
	140.0	8.703	1.027	451.7	750.5	20.89	3.130	5.204	714.3
	160.0	7.642	1.024	514.3	854.5	21.58	3.127	5.199	761.0
	180.0	6.811	1.021	576.7	958.4	22.19	3.126	5.196	804.9
	200.0	6.144	1.019	639.2	1062.	22.74	3.124	5.195	846.6
	220.0	5.595	1.017	701.6	1166.	23.24	3.123	5.193	886.4
	240.0	5.137	1.015	763.9	1270.	23.69	3.122	5.192	924.5
	260.0	4.748	1.014	826.3	1374.	24.10	3.122	5.192	961.0
	280.0	4.413	1.013	888.7	1478.	24.49	3.121	5.191	996.3
	300.0	4.123	1.012	951.0	1582.	24.85	3.120	5.191	1030.
	350.0	3.541	1.010	1107.	1841.	25.65	3.120	5.191	1111.
	400.0	3.103	1.009	1263.	2101.	26.34	3.119	5.191	1186.
	500.0	2.487	1.007	1574.	2620.	27.50	3.118	5.191	1324.
	600.0	2.075	1.005	1886.	3139.	28.45	3.118	5.191	1448.
	700.0	1.780	1.004	2197.	3658.	29.25	3.117	5.191	1563.
	800.0	1.559	1.004	2509.	4177.	29.94	3.117	5.192	1670.
	900.0	1.386	1.003	2821.	4696.	30.55	3.117	5.192	1771.
	1000.	1.248	1.003	3132.	5215.	31.10	3.117	5.192	1866.
	1100.	1.135	1.003	3444.	5735.	31.59	3.117	5.192	1956.
	1200.	1.041	1.002	3755.	6254.	32.04	3.116	5.192	2043.
	1300.	0.9607	1.002	4067.	6773.	32.46	3.116	5.192	2126.
	1400.	0.8923	1.002	4378.	7292.	32.84	3.116	5.192	2206.
	1500.	0.8329	1.002	4690.	7812.	33.20	3.116	5.192	2283.

PRESSURE = 2.600 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
1.391	-0.1641E-01	-1.214	0.1140	0.6826E-01				
1.400	-0.1723E-01	-1.222	0.1142	0.6827E-01				
1.600	-0.4837E-01	-1.382	0.1222	0.6855E-01				
1.738	-0.9767E-01	-1.463	0.1355	0.6895E-01				
1.828	-0.1894	-1.538	0.1599	0.6941E-01				
1.837	-0.2587	-1.599	0.1768	0.6948E-01				
1.839	-0.1094	-1.376	0.1416	0.6950E-01				
1.848	-0.4378E-01	-0.9777	0.1265	0.6952E-01				
1.938	0.4254E-02	0.1848	0.1158	0.6956E-01				
2.000	0.1250E-01	0.5988	0.1143	0.6954E-01				
2.200	0.2581E-01	1.247	0.1131	0.6940E-01				
2.400	0.3287E-01	1.280	0.1130	0.6920E-01				
2.700	0.3801E-01	1.432	0.1126	0.6884E-01				
3.000	0.4895E-01	1.532	0.1152	0.6852E-01				
3.300	0.6374E-01	1.509	0.1192	0.6815E-01				
3.600	0.8030E-01	1.506	0.1240	0.6772E-01	0.2511E-01	7.970	0.7212E-07	0.6417
3.900	0.9842E-01	1.528	0.1293	0.6723E-01	0.2644E-01	7.611	0.6923E-07	0.6429
4.200	0.1180	1.560	0.1353	0.6669E-01	0.2765E-01	7.278	0.6751E-07	0.6355
4.500	0.1389	1.592	0.1420	0.6610E-01	0.2872E-01	6.971	0.6628E-07	0.6255
4.800	0.1610	1.619	0.1493	0.6545E-01	0.2967E-01	6.692	0.6520E-07	0.6163
5.000	0.1766	1.632	0.1546	0.6500E-01	0.3023E-01	6.519	0.6448E-07	0.6113
5.100	0.1845	1.636	0.1573	0.6476E-01	0.3050E-01	6.437	0.6411E-07	0.6093
5.300	0.2009	1.643	0.1631	0.6428E-01	0.3099E-01	6.280	0.6335E-07	0.6061
5.500	0.2179	1.646	0.1692	0.6377E-01	0.3143E-01	6.133	0.6255E-07	0.6040
6.000	0.2631	1.637	0.1862	0.6244E-01	0.3233E-01	5.804	0.6045E-07	0.6040
6.500	0.3123	1.611	0.2059	0.6100E-01	0.3298E-01	5.524	0.5826E-07	0.6103
7.000	0.3658	1.573	0.2285	0.5947E-01	0.3341E-01	5.286	0.5610E-07	0.6219
8.000	0.4865	1.480	0.2842	0.5617E-01	0.3375E-01	4.912	0.5219E-07	0.6573
9.000	0.6235	1.379	0.3552	0.5259E-01	0.3363E-01	4.643	0.4916E-07	0.7039
10.00	0.7684	1.281	0.4404	0.4884E-01	0.3328E-01	4.454	0.4736E-07	0.7543
12.00	1.013	1.118	0.6200	0.4142E-01	0.3262E-01	4.257	0.4834E-07	0.8316
15.00	1.145	0.9671	0.7944	0.3236E-01	0.3276E-01	4.246	0.6014E-07	0.8516
20.00	1.110	0.8530	0.8870	0.2329E-01	0.3476E-01	4.523	0.9364E-07	0.8081
25.00	1.053	0.8003	0.9098	0.1828E-01	0.3737E-01	4.900	0.1349E-06	0.7734
30.00	1.016	0.7702	0.9189	0.1513E-01	0.4011E-01	5.296	0.1809E-06	0.7523
40.00	0.9800	0.7371	0.9298	0.1135E-01	0.4564E-01	6.078	0.2851E-06	0.7297
50.00	0.9669	0.7194	0.9381	0.9134E-02	0.5110E-01	6.823	0.4045E-06	0.7174
60.00	0.9625	0.7085	0.9451	0.7659E-02	0.5643E-01	7.532	0.5386E-06	0.7091
80.00	0.9627	0.6958	0.9559	0.5805E-02	0.6670E-01	8.857	0.8491E-06	0.6975
100.0	0.9659	0.6888	0.9636	0.4680E-02	0.7648E-01	10.09	0.1214E-05	0.6894
120.0	0.9695	0.6843	0.9692	0.3923E-02	0.8583E-01	11.07	0.1629E-05	0.6724
140.0	0.9728	0.6813	0.9735	0.3377E-02	0.9481E-01	12.20	0.2093E-05	0.6695
160.0	0.9756	0.6791	0.9768	0.2965E-02	0.1035	13.27	0.2604E-05	0.6670
180.0	0.9780	0.6775	0.9795	0.2642E-02	0.1119	14.32	0.3160E-05	0.6651
200.0	0.9800	0.6762	0.9816	0.2383E-02	0.1200	15.32	0.3760E-05	0.6635
220.0	0.9818	0.6752	0.9834	0.2170E-02	0.1279	16.31	0.4402E-05	0.6621
240.0	0.9833	0.6743	0.9849	0.1992E-02	0.1356	17.26	0.5084E-05	0.6610
260.0	0.9846	0.6736	0.9862	0.1841E-02	0.1432	18.20	0.5808E-05	0.6601
280.0	0.9857	0.6730	0.9873	0.1712E-02	0.1505	19.12	0.6570E-05	0.6593
300.0	0.9867	0.6726	0.9882	0.1599E-02	0.1578	20.02	0.7371E-05	0.6586
350.0	0.9887	0.6716	0.9901	0.1373E-02	0.1753	22.23	0.9535E-05	0.6583
400.0	0.9902	0.6709	0.9915	0.1203E-02	0.1920	24.36	0.1192E-04	0.6583
500.0	0.9924	0.6699	0.9934	0.9644E-03	0.2239	28.41	0.1735E-04	0.6587
600.0	0.9938	0.6693	0.9947	0.8046E-03	0.2540	32.26	0.2358E-04	0.6594
700.0	0.9948	0.6689	0.9955	0.6903E-03	0.2826	35.93	0.3058E-04	0.6601
800.0	0.9956	0.6686	0.9962	0.6044E-03	0.3100	39.46	0.3831E-04	0.6609
900.0	0.9961	0.6683	0.9967	0.5375E-03	0.3364	42.88	0.4675E-04	0.6616
1000.	0.9966	0.6681	0.9970	0.4839E-03	0.3620	46.19	0.5587E-04	0.6624
1100.	0.9969	0.6680	0.9974	0.4400E-03	0.3869	49.41	0.6565E-04	0.6631
1200.	0.9972	0.6679	0.9976	0.4035E-03	0.4110	52.55	0.7608E-04	0.6637
1300.	0.9975	0.6678	0.9978	0.3725E-03	0.4346	55.61	0.8713E-04	0.6644
1400.	0.9977	0.6677	0.9980	0.3460E-03	0.4577	58.62	0.9879E-04	0.6650
1500.	0.9979	0.6676	0.9982	0.3230E-03	0.4803	61.56	0.1111E-03	0.6656

PRESSURE = 2.800 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
M	1.656	176.3	4.617	2.399	18.28	0.6741	3.438	3.854	363.8
1	1.705	176.8	4.473	2.647	18.49	0.7977	4.042	4.691	360.4
2	1.795	178.0	4.220	3.289	19.02	1.101	5.947	7.976	350.2
3	1.804	178.2	4.194	3.386	19.10	1.145	7.061	10.60	348.0
3	1.806	178.2	4.188	3.418	19.13	1.161	4.248	4.959	350.1
2	1.815	178.3	4.166	3.454	19.16	1.178	2.682	2.810	353.0
1	1.905	178.4	3.967	3.626	19.32	1.266	1.441	1.442	362.3
	2.000	178.3	3.780	3.745	19.45	1.331	1.244	1.258	368.1
	2.200	177.9	3.443	3.959	19.69	1.448	1.187	1.228	374.4
	2.400	177.4	3.166	4.166	19.95	1.559	1.388	1.446	376.6
	2.700	176.5	2.828	4.555	20.42	1.744	1.271	1.338	380.5
	3.000	175.7	2.557	4.903	20.84	1.892	1.352	1.449	380.6
	3.300	174.9	2.336	5.298	21.31	2.043	1.582	1.727	379.0
	3.600	173.8	2.154	5.761	21.87	2.204	1.776	1.980	377.2
	3.900	172.7	2.002	6.278	22.49	2.371	1.914	2.189	375.6
	4.200	171.4	1.873	6.839	23.18	2.540	2.013	2.366	374.2
	4.500	169.9	1.763	7.435	23.91	2.709	2.085	2.525	372.9
	4.800	168.4	1.668	8.065	24.69	2.876	2.144	2.677	371.5
	5.000	167.3	1.611	8.501	25.24	2.988	2.179	2.777	370.5
	5.100	166.7	1.585	8.725	25.52	3.043	2.195	2.827	369.9
	5.300	165.6	1.536	9.183	26.09	3.154	2.227	2.928	368.7
	5.500	164.4	1.491	9.655	26.69	3.264	2.258	3.030	367.5
	6.000	161.2	1.394	10.90	28.27	3.539	2.334	3.291	363.7
	6.500	157.7	1.315	12.23	29.98	3.813	2.409	3.559	359.1
	7.000	154.1	1.250	13.66	31.83	4.087	2.481	3.834	353.9
	8.000	146.2	1.153	16.79	35.94	4.635	2.616	4.390	342.2
	9.000	137.6	1.088	20.26	40.61	5.184	2.734	4.938	329.8
	10.00	128.7	1.047	24.05	45.80	5.731	2.833	5.449	318.1
	12.00	110.7	1.015	32.24	57.53	6.798	2.983	6.204	301.3
	15.00	87.82	1.023	44.93	76.81	8.231	3.115	6.514	296.2
	20.00	63.79	1.056	64.89	108.8	10.07	3.193	6.229	313.9
	25.00	50.22	1.074	83.37	139.1	11.43	3.206	5.927	338.6
	30.00	41.63	1.079	101.0	168.2	12.49	3.202	5.724	363.3
	40.00	31.29	1.077	134.7	224.2	14.10	3.186	5.497	408.7
	50.00	25.20	1.070	167.4	278.5	15.31	3.172	5.384	449.5
	60.00	21.15	1.062	199.6	332.0	16.29	3.161	5.320	486.6
	80.00	16.05	1.050	263.2	437.7	17.81	3.148	5.257	553.0
	100.0	12.95	1.041	326.3	542.5	18.98	3.140	5.228	612.1
	120.0	10.86	1.034	389.1	646.9	19.93	3.134	5.213	665.9
	140.0	9.354	1.029	451.7	751.1	20.73	3.131	5.205	715.7
	160.0	8.215	1.026	514.3	855.1	21.43	3.128	5.200	762.3
	180.0	7.323	1.023	576.8	959.1	22.04	3.126	5.197	806.1
	200.0	6.607	1.020	639.2	1063.	22.59	3.125	5.195	847.8
	220.0	6.018	1.018	701.6	1167.	23.08	3.124	5.193	887.5
	240.0	5.525	1.016	764.0	1271.	23.54	3.123	5.192	925.5
	260.0	5.108	1.015	826.4	1375.	23.95	3.122	5.192	962.0
	280.0	4.748	1.014	888.7	1478.	24.34	3.121	5.191	997.2
	300.0	4.436	1.013	951.1	1582.	24.69	3.121	5.191	1031.
	350.0	3.810	1.011	1107.	1842.	25.49	3.120	5.191	1112.
	400.0	3.339	1.009	1263.	2101.	26.19	3.119	5.191	1187.
	500.0	2.677	1.007	1574.	2620.	27.35	3.118	5.191	1324.
	600.0	2.234	1.006	1886.	3139.	28.29	3.118	5.191	1449.
	700.0	1.916	1.005	2198.	3659.	29.09	3.117	5.191	1564.
	800.0	1.678	1.004	2509.	4178.	29.78	3.117	5.191	1671.
	900.0	1.492	1.004	2821.	4697.	30.40	3.117	5.192	1771.
	1000.	1.344	1.003	3132.	5216.	30.94	3.117	5.192	1866.
	1100.	1.222	1.003	3444.	5735.	31.44	3.117	5.192	1957.
	1200.	1.120	1.003	3755.	6254.	31.89	3.116	5.192	2043.
	1300.	1.034	1.002	4067.	6774.	32.31	3.116	5.192	2126.
	1400.	0.9608	1.002	4378.	7293.	32.69	3.116	5.192	2206.
	1500.	0.8969	1.002	4690.	7812.	33.05	3.116	5.192	2283.

PRESSURE = 2.800 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
1.656	-0.7642E-01	-1.585	0.1345	0.6935E-01				
1.705	-0.9942E-01	-1.615	0.1415	0.6953E-01				
1.795	-0.1995	-1.710	0.1720	0.7003E-01				
1.804	-0.2814	-1.782	0.1948	0.7011E-01				
1.806	-0.1105	-1.513	0.1496	0.7012E-01				
1.815	-0.4413E-01	-1.078	0.1320	0.7014E-01				
1.905	0.3802E-02	0.1817	0.1196	0.7018E-01				
2.000	0.1477E-01	0.7954	0.1173	0.7014E-01				
2.200	0.2580E-01	1.339	0.1162	0.7000E-01				
2.400	0.3198E-01	1.307	0.1159	0.6979E-01				
2.700	0.3614E-01	1.449	0.1153	0.6943E-01				
3.000	0.4629E-01	1.543	0.1178	0.6913E-01				
3.300	0.6022E-01	1.518	0.1217	0.6877E-01				
3.600	0.7589E-01	1.515	0.1262	0.6836E-01	0.2549E-01	8.332	0.7406E-07	0.6473
3.900	0.9306E-01	1.538	0.1314	0.6790E-01	0.2686E-01	7.947	0.7108E-07	0.6476
4.200	0.1116	1.572	0.1371	0.6738E-01	0.2810E-01	7.591	0.6933E-07	0.6390
4.500	0.1313	1.606	0.1435	0.6681E-01	0.2922E-01	7.265	0.6809E-07	0.6279
4.800	0.1522	1.634	0.1505	0.6619E-01	0.3021E-01	6.967	0.6701E-07	0.6175
5.000	0.1667	1.648	0.1555	0.6576E-01	0.3080E-01	6.784	0.6629E-07	0.6118
5.100	0.1742	1.653	0.1581	0.6553E-01	0.3107E-01	6.697	0.6592E-07	0.6093
5.300	0.1896	1.661	0.1635	0.6507E-01	0.3159E-01	6.531	0.6515E-07	0.6054
5.500	0.2054	1.664	0.1693	0.6459E-01	0.3206E-01	6.375	0.6436E-07	0.6026
6.000	0.2474	1.657	0.1852	0.6332E-01	0.3302E-01	6.027	0.6226E-07	0.6006
6.500	0.2928	1.632	0.2034	0.6195E-01	0.3373E-01	5.731	0.6008E-07	0.6048
7.000	0.3418	1.595	0.2242	0.6049E-01	0.3421E-01	5.480	0.5793E-07	0.6140
8.000	0.4510	1.504	0.2746	0.5736E-01	0.3466E-01	5.085	0.5401E-07	0.6441
9.000	0.5740	1.405	0.3379	0.5397E-01	0.3461E-01	4.801	0.5093E-07	0.6849
10.00	0.7051	1.310	0.4135	0.5043E-01	0.3431E-01	4.601	0.4893E-07	0.7307
12.00	0.9410	1.147	0.5795	0.4332E-01	0.3363E-01	4.382	0.4897E-07	0.8082
15.00	1.102	0.9899	0.7600	0.3429E-01	0.3359E-01	4.343	0.5872E-07	0.8421
20.00	1.096	0.8673	0.8689	0.2486E-01	0.3542E-01	4.594	0.8913E-07	0.8080
25.00	1.047	0.8105	0.8988	0.1955E-01	0.3795E-01	4.958	0.1275E-06	0.7744
30.00	1.012	0.7780	0.9109	0.1620E-01	0.4064E-01	5.346	0.1705E-06	0.7530
40.00	0.9770	0.7424	0.9241	0.1216E-01	0.4609E-01	6.119	0.2680E-06	0.7297
50.00	0.9639	0.7234	0.9335	0.9791E-02	0.5149E-01	6.859	0.3795E-06	0.7172
60.00	0.9596	0.7117	0.9411	0.8214E-02	0.5678E-01	7.564	0.5046E-06	0.7088
80.00	0.9599	0.6980	0.9527	0.6231E-02	0.6699E-01	8.884	0.7939E-06	0.6972
100.0	0.9634	0.6905	0.9609	0.5026E-02	0.7672E-01	10.11	0.1133E-05	0.6892
120.0	0.9673	0.6857	0.9669	0.4215E-02	0.8604E-01	11.09	0.1520E-05	0.6722
140.0	0.9708	0.6824	0.9715	0.3629E-02	0.9500E-01	12.22	0.1951E-05	0.6693
160.0	0.9738	0.6801	0.9751	0.3187E-02	0.1036	13.29	0.2426E-05	0.6668
180.0	0.9764	0.6783	0.9780	0.2841E-02	0.1120	14.33	0.2943E-05	0.6649
200.0	0.9785	0.6769	0.9803	0.2563E-02	0.1201	15.34	0.3501E-05	0.6632
220.0	0.9804	0.6758	0.9822	0.2334E-02	0.1281	16.32	0.4097E-05	0.6619
240.0	0.9820	0.6749	0.9838	0.2143E-02	0.1358	17.28	0.4732E-05	0.6607
260.0	0.9834	0.6742	0.9851	0.1981E-02	0.1433	18.21	0.5404E-05	0.6598
280.0	0.9846	0.6735	0.9863	0.1842E-02	0.1507	19.12	0.6112E-05	0.6590
300.0	0.9857	0.6730	0.9873	0.1721E-02	0.1579	20.02	0.6856E-05	0.6583
350.0	0.9878	0.6720	0.9893	0.1478E-02	0.1754	22.23	0.8868E-05	0.6580
400.0	0.9895	0.6712	0.9908	0.1295E-02	0.1922	24.36	0.1109E-04	0.6580
500.0	0.9918	0.6702	0.9929	0.1038E-02	0.2240	28.42	0.1612E-04	0.6585
600.0	0.9933	0.6695	0.9942	0.8662E-03	0.2541	32.26	0.2191E-04	0.6591
700.0	0.9944	0.6690	0.9952	0.7431E-03	0.2827	35.93	0.2841E-04	0.6599
800.0	0.9952	0.6687	0.9959	0.6507E-03	0.3101	39.47	0.3560E-04	0.6607
900.0	0.9958	0.6685	0.9964	0.5787E-03	0.3365	42.88	0.4344E-04	0.6615
1000.	0.9963	0.6683	0.9968	0.5210E-03	0.3621	46.19	0.5191E-04	0.6622
1100.	0.9967	0.6681	0.9972	0.4738E-03	0.3870	49.41	0.6099E-04	0.6629
1200.	0.9970	0.6680	0.9974	0.4344E-03	0.4111	52.55	0.7068E-04	0.6636
1300.	0.9973	0.6679	0.9977	0.4011E-03	0.4347	55.62	0.8094E-04	0.6642
1400.	0.9975	0.6678	0.9978	0.3725E-03	0.4578	58.62	0.9177E-04	0.6649
1500.	0.9977	0.6677	0.9980	0.3477E-03	0.4804	61.57	0.1032E-03	0.6654

PRESSURE = 3.000 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	1.762	179.5	4.565	3.398	20.11	1.085	5.822	8.313	356.0
3	1.769	179.7	4.544	3.474	20.17	1.119	6.696	10.70	354.1
3	1.771	179.7	4.538	3.509	20.20	1.135	4.048	4.808	353.4
2	1.780	179.8	4.513	3.545	20.23	1.152	2.556	2.689	356.7
1	1.870	179.9	4.294	3.709	20.39	1.238	1.378	1.379	367.5
	2.000	179.8	4.017	3.860	20.55	1.322	1.168	1.187	375.8
	2.200	179.4	3.659	4.061	20.78	1.435	1.153	1.196	381.6
	2.400	178.8	3.365	4.262	21.04	1.544	1.378	1.436	383.8
	2.700	177.9	3.006	4.647	21.51	1.730	1.247	1.310	387.8
	3.000	177.2	2.717	4.987	21.92	1.875	1.327	1.418	387.8
	3.300	176.3	2.482	5.372	22.38	2.022	1.556	1.691	386.3
	3.600	175.4	2.288	5.822	22.93	2.181	1.749	1.940	384.6
	3.900	174.2	2.125	6.326	23.54	2.344	1.888	2.146	383.2
	4.200	173.0	1.988	6.873	24.21	2.510	1.987	2.320	382.0
	4.500	171.6	1.870	7.454	24.93	2.675	2.061	2.477	380.8
	4.800	170.2	1.768	8.068	25.70	2.840	2.121	2.626	379.6
	5.000	169.1	1.708	8.494	26.23	2.949	2.157	2.724	378.7
	5.100	168.6	1.680	8.712	26.51	3.004	2.174	2.773	378.2
	5.300	167.5	1.627	9.158	27.07	3.112	2.207	2.872	377.1
	5.500	166.3	1.579	9.618	27.66	3.220	2.239	2.971	375.9
	6.000	163.2	1.475	10.83	29.21	3.490	2.317	3.225	372.4
	6.500	159.9	1.389	12.13	30.88	3.758	2.394	3.484	368.2
	7.000	156.5	1.319	13.52	32.69	4.026	2.468	3.749	363.3
	8.000	148.9	1.212	16.56	36.71	4.561	2.606	4.280	352.2
	9.000	140.8	1.140	19.95	41.25	5.096	2.726	4.801	340.4
	10.00	132.3	1.091	23.63	46.30	5.627	2.827	5.289	329.0
	12.00	115.1	1.046	31.63	57.69	6.664	2.978	6.045	311.7
	15.00	92.44	1.042	44.18	76.63	8.071	3.113	6.447	304.1
	20.00	67.69	1.067	64.19	108.5	9.906	3.196	6.240	319.0
	25.00	53.41	1.082	82.79	139.0	11.27	3.210	5.951	342.5
	30.00	44.32	1.086	100.5	168.2	12.33	3.207	5.747	366.6
	40.00	33.34	1.083	134.4	224.3	13.95	3.190	5.513	411.5
	50.00	26.87	1.075	167.2	278.8	15.17	3.176	5.395	451.9
	60.00	22.57	1.067	199.5	332.4	16.14	3.164	5.328	488.8
	80.00	17.14	1.053	263.2	438.2	17.67	3.150	5.261	554.9
	100.0	13.84	1.044	326.3	543.1	18.84	3.141	5.231	613.8
	120.0	11.61	1.037	389.1	647.5	19.79	3.136	5.215	667.5
	140.0	10.00	1.031	451.8	751.7	20.59	3.132	5.206	717.1
	160.0	8.786	1.027	514.3	855.8	21.29	3.129	5.200	763.6
	180.0	7.834	1.024	576.8	959.7	21.90	3.127	5.197	807.3
	200.0	7.069	1.022	639.3	1064.	22.45	3.125	5.195	848.9
	220.0	6.440	1.019	701.7	1168.	22.94	3.124	5.193	888.5
	240.0	5.913	1.018	764.1	1271.	23.39	3.123	5.192	926.5
	260.0	5.467	1.016	826.4	1375.	23.81	3.122	5.192	962.9
	280.0	5.083	1.015	888.8	1479.	24.19	3.122	5.191	998.1
	300.0	4.749	1.014	951.2	1583.	24.55	3.121	5.191	1032.
	350.0	4.079	1.012	1107.	1842.	25.35	3.120	5.191	1112.
	400.0	3.575	1.010	1263.	2102.	26.04	3.119	5.190	1187.
	500.0	2.867	1.008	1574.	2621.	27.20	3.118	5.191	1325.
	600.0	2.392	1.006	1886.	3140.	28.15	3.118	5.191	1449.
	700.0	2.053	1.005	2198.	3659.	28.95	3.117	5.191	1564.
	800.0	1.797	1.004	2509.	4178.	29.64	3.117	5.191	1671.
	900.0	1.599	1.004	2821.	4697.	30.25	3.117	5.191	1771.
	1000.	1.439	1.003	3132.	5217.	30.80	3.117	5.192	1866.
	1100.	1.309	1.003	3444.	5736.	31.30	3.117	5.192	1957.
	1200.	1.200	1.003	3755.	6255.	31.75	3.117	5.192	2043.
	1300.	1.108	1.003	4067.	6774.	32.16	3.116	5.192	2126.
	1400.	1.029	1.002	4379.	7293.	32.55	3.116	5.192	2206.
	1500.	0.9608	1.002	4690.	7813.	32.91	3.116	5.192	2283.

PRESSURE = 3.000 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
1.762	-0.2224	-1.924	0.1882	0.7064E-01				
1.769	-0.3004	-1.990	0.2128	0.7070E-01				
1.771	-0.1131	-1.659	0.1587	0.7072E-01				
1.780	-0.4432E-01	-1.178	0.1380	0.7075E-01				
1.870	0.3705E-02	0.1940	0.1236	0.7078E-01				
2.000	0.1667E-01	0.9913	0.1201	0.7073E-01				
2.200	0.2583E-01	1.430	0.1191	0.7058E-01				
2.400	0.3125E-01	1.336	0.1186	0.7036E-01				
2.700	0.3449E-01	1.466	0.1178	0.7000E-01				
3.000	0.4393E-01	1.553	0.1202	0.6970E-01				
3.300	0.5709E-01	1.526	0.1240	0.6937E-01				
3.600	0.7196E-01	1.524	0.1283	0.6897E-01	0.2585E-01	8.700	0.7597E-07	0.6531
3.900	0.8827E-01	1.549	0.1333	0.6853E-01	0.2726E-01	8.288	0.7291E-07	0.6524
4.200	0.1058	1.585	0.1388	0.6803E-01	0.2855E-01	7.909	0.7112E-07	0.6428
4.500	0.1245	1.620	0.1449	0.6749E-01	0.2970E-01	7.561	0.6986E-07	0.6306
4.800	0.1443	1.650	0.1515	0.6690E-01	0.3073E-01	7.245	0.6877E-07	0.6192
5.000	0.1581	1.664	0.1563	0.6648E-01	0.3135E-01	7.051	0.6805E-07	0.6128
5.100	0.1651	1.670	0.1588	0.6626E-01	0.3163E-01	6.959	0.6767E-07	0.6100
5.300	0.1796	1.678	0.1639	0.6582E-01	0.3217E-01	6.782	0.6691E-07	0.6053
5.500	0.1945	1.682	0.1694	0.6536E-01	0.3266E-01	6.617	0.6611E-07	0.6019
6.000	0.2337	1.676	0.1844	0.6414E-01	0.3369E-01	6.249	0.6400E-07	0.5982
6.500	0.2759	1.652	0.2014	0.6283E-01	0.3445E-01	5.937	0.6182E-07	0.6005
7.000	0.3212	1.616	0.2207	0.6144E-01	0.3499E-01	5.672	0.5967E-07	0.6077
8.000	0.4212	1.526	0.2668	0.5845E-01	0.3553E-01	5.256	0.5574E-07	0.6332
9.000	0.5329	1.429	0.3239	0.5523E-01	0.3556E-01	4.957	0.5259E-07	0.6693
10.00	0.6523	1.335	0.3918	0.5186E-01	0.3530E-01	4.744	0.5045E-07	0.7107
12.00	0.8769	1.174	0.5447	0.4504E-01	0.3462E-01	4.504	0.4976E-07	0.7865
15.00	1.059	1.012	0.7271	0.3611E-01	0.3442E-01	4.439	0.5775E-07	0.8314
20.00	1.081	0.8814	0.8505	0.2639E-01	0.3606E-01	4.665	0.8537E-07	0.8071
25.00	1.041	0.8205	0.8874	0.2080E-01	0.3851E-01	5.015	0.1212E-06	0.7750
30.00	1.008	0.7858	0.9027	0.1725E-01	0.4116E-01	5.396	0.1616E-06	0.7535
40.00	0.9739	0.7477	0.9184	0.1296E-01	0.4654E-01	6.160	0.2532E-06	0.7297
50.00	0.9609	0.7274	0.9288	0.1044E-01	0.5189E-01	6.895	0.3579E-06	0.7169
60.00	0.9566	0.7148	0.9370	0.8765E-02	0.5713E-01	7.596	0.4752E-06	0.7084
80.00	0.9571	0.7003	0.9495	0.6654E-02	0.6727E-01	8.911	0.7461E-06	0.6969
100.0	0.9610	0.6922	0.9582	0.5371E-02	0.7697E-01	10.14	0.1063E-05	0.6889
120.0	0.9651	0.6871	0.9647	0.4505E-02	0.8626E-01	11.12	0.1425E-05	0.6720
140.0	0.9688	0.6836	0.9696	0.3881E-02	0.9520E-01	12.24	0.1828E-05	0.6691
160.0	0.9720	0.6810	0.9734	0.3409E-02	0.1038	13.31	0.2272E-05	0.6666
180.0	0.9747	0.6791	0.9764	0.3039E-02	0.1122	14.35	0.2755E-05	0.6646
200.0	0.9770	0.6777	0.9789	0.2742E-02	0.1203	15.35	0.3276E-05	0.6630
220.0	0.9790	0.6765	0.9809	0.2498E-02	0.1282	16.33	0.3833E-05	0.6616
240.0	0.9807	0.6755	0.9826	0.2294E-02	0.1359	17.29	0.4426E-05	0.6604
260.0	0.9822	0.6747	0.9841	0.2120E-02	0.1434	18.22	0.5054E-05	0.6594
280.0	0.9835	0.6740	0.9853	0.1971E-02	0.1508	19.13	0.5716E-05	0.6586
300.0	0.9847	0.6735	0.9864	0.1842E-02	0.1580	20.03	0.6411E-05	0.6579
350.0	0.9870	0.6723	0.9886	0.1582E-02	0.1755	22.24	0.8289E-05	0.6577
400.0	0.9887	0.6715	0.9902	0.1387E-02	0.1923	24.37	0.1036E-04	0.6577
500.0	0.9912	0.6704	0.9924	0.1112E-02	0.2241	28.42	0.1506E-04	0.6582
600.0	0.9929	0.6697	0.9938	0.9277E-03	0.2542	32.27	0.2047E-04	0.6589
700.0	0.9940	0.6692	0.9948	0.7959E-03	0.2828	35.94	0.2654E-04	0.6597
800.0	0.9949	0.6689	0.9956	0.6970E-03	0.3102	39.47	0.3325E-04	0.6605
900.0	0.9955	0.6686	0.9961	0.6199E-03	0.3366	42.88	0.4056E-04	0.6613
1000.	0.9960	0.6684	0.9966	0.5581E-03	0.3622	46.19	0.4847E-04	0.6620
1100.	0.9965	0.6682	0.9969	0.5075E-03	0.3871	49.41	0.5696E-04	0.6628
1200.	0.9968	0.6681	0.9972	0.4654E-03	0.4112	52.55	0.6599E-04	0.6634
1300.	0.9971	0.6679	0.9975	0.4297E-03	0.4348	55.62	0.7557E-04	0.6641
1400.	0.9973	0.6678	0.9977	0.3991E-03	0.4579	58.62	0.8569E-04	0.6647
1500.	0.9975	0.6678	0.9979	0.3725E-03	0.4805	61.57	0.9631E-04	0.6653

PRESSURE = 3.500 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	1.922	183.4	4.780	4.079	23.17	1.254	1.060	1.084	389.7
	2.000	183.2	4.598	4.149	23.25	1.296	1.053	1.085	393.3
	3.000	180.6	3.110	5.215	24.60	1.836	1.271	1.349	404.9
	4.000	177.6	2.372	6.642	26.35	2.336	1.862	2.109	400.9
	5.000	173.3	1.945	8.518	28.72	2.862	2.104	2.607	397.9
	6.000	167.9	1.672	10.72	31.56	3.379	2.276	3.083	392.8
	8.000	155.0	1.359	16.13	38.71	4.400	2.583	4.062	375.0
	10.00	140.1	1.203	22.79	47.77	5.407	2.815	4.975	353.8
	12.00	124.5	1.128	30.38	58.49	6.383	2.971	5.706	336.1
	15.00	102.8	1.093	42.56	76.60	7.728	3.110	6.258	323.9
	20.00	76.91	1.095	62.58	108.1	9.540	3.202	6.240	332.2
	25.00	61.11	1.103	81.41	138.7	10.91	3.221	5.997	352.6
	30.00	50.85	1.104	99.32	168.1	11.98	3.218	5.797	375.0
	40.00	38.37	1.098	133.5	224.7	13.61	3.201	5.551	418.4
	50.00	30.98	1.088	166.6	279.6	14.83	3.184	5.422	458.0
	60.00	26.05	1.078	199.0	333.4	15.82	3.172	5.347	494.3
	80.00	19.83	1.062	262.9	439.4	17.34	3.155	5.271	559.7
	100.0	16.03	1.051	326.2	544.5	18.51	3.145	5.237	618.0
	120.0	13.46	1.043	389.1	649.0	19.47	3.139	5.218	671.3
	140.0	11.61	1.037	451.8	753.3	20.27	3.134	5.208	720.6
	160.0	10.20	1.032	514.4	857.4	20.97	3.131	5.202	766.8
	180.0	9.104	1.028	576.9	961.4	21.58	3.129	5.198	810.3
	200.0	8.218	1.025	639.4	1065.	22.13	3.127	5.195	851.7
	220.0	7.489	1.023	701.8	1169.	22.62	3.126	5.193	891.2
	240.0	6.879	1.021	764.2	1273.	23.07	3.124	5.192	929.0
	260.0	6.361	1.019	826.6	1377.	23.49	3.123	5.192	965.3
	280.0	5.915	1.017	889.0	1481.	23.87	3.123	5.191	1000.
	300.0	5.528	1.016	951.3	1585.	24.23	3.122	5.191	1034.
	350.0	4.750	1.013	1107.	1844.	25.03	3.121	5.190	1114.
	400.0	4.164	1.012	1263.	2104.	25.72	3.120	5.190	1189.
	500.0	3.340	1.009	1575.	2623.	26.88	3.119	5.190	1326.
	600.0	2.788	1.007	1886.	3142.	27.83	3.118	5.190	1451.
	700.0	2.393	1.006	2198.	3661.	28.63	3.118	5.191	1565.
	800.0	2.095	1.005	2509.	4180.	29.32	3.117	5.191	1672.
	900.0	1.864	1.004	2821.	4699.	29.93	3.117	5.191	1772.
	1000.	1.678	1.004	3132.	5218.	30.48	3.117	5.191	1867.
	1100.	1.526	1.004	3444.	5737.	30.97	3.117	5.192	1958.
	1200.	1.400	1.003	3756.	6256.	31.43	3.117	5.192	2044.
	1300.	1.292	1.003	4067.	6775.	31.84	3.117	5.192	2127.
	1400.	1.200	1.003	4379.	7295.	32.23	3.116	5.192	2207.
	1500.	1.121	1.002	4690.	7814.	32.59	3.116	5.192	2284.

PRESSURE = 3.500 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_v$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
1.922	0.1771E-01	1.290	0.1286	0.7217E-01				
2.000	0.2062E-01	1.469	0.1272	0.7211E-01				
3.000	0.3908E-01	1.582	0.1256	0.7106E-01				
4.000	0.8337E-01	1.588	0.1389	0.6985E-01	0.2870E-01	9.012	0.7665E-07	0.6622
5.000	0.1402	1.703	0.1581	0.6813E-01	0.3265E-01	7.728	0.7229E-07	0.6170
6.000	0.2061	1.719	0.1830	0.6601E-01	0.3527E-01	6.809	0.6814E-07	0.5950
8.000	0.3637	1.574	0.2525	0.6086E-01	0.3759E-01	5.678	0.5970E-07	0.6136
10.00	0.5523	1.390	0.3528	0.5495E-01	0.3765E-01	5.091	0.5402E-07	0.6727
12.00	0.7468	1.232	0.4779	0.4877E-01	0.3700E-01	4.800	0.5208E-07	0.7403
15.00	0.9517	1.064	0.6530	0.4020E-01	0.3648E-01	4.674	0.5669E-07	0.8019
20.00	1.036	0.9159	0.8039	0.3001E-01	0.3764E-01	4.839	0.7845E-07	0.8020
25.00	1.020	0.8453	0.8578	0.2381E-01	0.3989E-01	5.158	0.1088E-06	0.7755
30.00	0.9953	0.8050	0.8813	0.1980E-01	0.4241E-01	5.520	0.1439E-06	0.7544
40.00	0.9653	0.7609	0.9039	0.1492E-01	0.4764E-01	6.261	0.2236E-06	0.7296
50.00	0.9531	0.7373	0.9172	0.1204E-01	0.5286E-01	6.983	0.3147E-06	0.7162
60.00	0.9491	0.7228	0.9271	0.1012E-01	0.5801E-01	7.675	0.4164E-06	0.7075
80.00	0.9503	0.7058	0.9415	0.7700E-02	0.6800E-01	8.979	0.6506E-06	0.6960
100.0	0.9548	0.6964	0.9517	0.6224E-02	0.7759E-01	10.20	0.9243E-06	0.6882
120.0	0.9595	0.6905	0.9591	0.5226E-02	0.8681E-01	11.17	0.1236E-05	0.6715
140.0	0.9638	0.6864	0.9647	0.4505E-02	0.9569E-01	12.28	0.1583E-05	0.6685
160.0	0.9675	0.6835	0.9691	0.3960E-02	0.1043	13.35	0.1965E-05	0.6661
180.0	0.9706	0.6812	0.9726	0.3532E-02	0.1126	14.39	0.2380E-05	0.6641
200.0	0.9733	0.6795	0.9754	0.3188E-02	0.1207	15.39	0.2827E-05	0.6624
220.0	0.9756	0.6781	0.9778	0.2905E-02	0.1286	16.36	0.3306E-05	0.6609
240.0	0.9776	0.6770	0.9798	0.2669E-02	0.1363	17.31	0.3815E-05	0.6597
260.0	0.9793	0.6761	0.9815	0.2467E-02	0.1438	18.24	0.4354E-05	0.6587
280.0	0.9808	0.6753	0.9829	0.2294E-02	0.1511	19.15	0.4922E-05	0.6578
300.0	0.9821	0.6746	0.9842	0.2144E-02	0.1584	20.05	0.5519E-05	0.6571
350.0	0.9848	0.6733	0.9867	0.1842E-02	0.1758	22.25	0.7132E-05	0.6569
400.0	0.9869	0.6723	0.9885	0.1615E-02	0.1926	24.38	0.8911E-05	0.6570
500.0	0.9898	0.6710	0.9911	0.1295E-02	0.2244	28.43	0.1295E-04	0.6576
600.0	0.9917	0.6702	0.9928	0.1081E-02	0.2545	32.27	0.1758E-04	0.6583
700.0	0.9930	0.6697	0.9940	0.9278E-03	0.2831	35.94	0.2279E-04	0.6592
800.0	0.9940	0.6692	0.9948	0.8125E-03	0.3105	39.47	0.2854E-04	0.6600
900.0	0.9948	0.6689	0.9955	0.7227E-03	0.3369	42.89	0.3482E-04	0.6608
1000.	0.9954	0.6687	0.9960	0.6508E-03	0.3625	46.20	0.4160E-04	0.6616
1100.	0.9959	0.6685	0.9964	0.5919E-03	0.3873	49.41	0.4888E-04	0.6624
1200.	0.9963	0.6683	0.9968	0.5427E-03	0.4115	52.55	0.5663E-04	0.6631
1300.	0.9966	0.6682	0.9971	0.5011E-03	0.4351	55.62	0.6484E-04	0.6638
1400.	0.9969	0.6680	0.9973	0.4654E-03	0.4581	58.63	0.7351E-04	0.6644
1500.	0.9971	0.6679	0.9975	0.4345E-03	0.4807	61.57	0.8263E-04	0.6650

PRESSURE = 4.000 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
M	2.069	186.3	4.996	4.458	25.93	1.285	1.305	1.353	408.1
	3.000	183.7	3.494	5.464	27.24	1.802	1.223	1.293	420.7
	4.000	180.9	2.661	6.814	28.92	2.281	1.804	2.023	417.8
	5.000	177.0	2.176	8.592	31.20	2.786	2.055	2.506	415.6
	6.000	172.1	1.865	10.68	33.93	3.284	2.238	2.966	411.4
	8.000	160.2	1.502	15.83	40.80	4.265	2.562	3.895	395.4
	10.00	146.6	1.313	22.17	49.46	5.227	2.804	4.744	375.7
	12.00	132.3	1.213	29.43	59.67	6.157	2.967	5.438	358.3
	15.00	111.7	1.149	41.25	77.05	7.447	3.110	6.062	343.4
	20.00	85.36	1.128	61.17	108.0	9.228	3.208	6.208	345.8
	25.00	68.39	1.126	80.14	138.6	10.59	3.231	6.022	363.0
	30.00	57.12	1.124	98.23	168.3	11.68	3.229	5.835	383.7
	40.00	43.25	1.113	132.8	225.2	13.32	3.211	5.585	425.3
	50.00	34.99	1.101	166.0	280.3	14.55	3.193	5.447	464.1
	60.00	29.47	1.089	198.6	334.4	15.53	3.179	5.365	499.8
	80.00	22.47	1.071	262.7	440.7	17.06	3.160	5.281	564.4
	100.0	18.20	1.058	326.1	545.9	18.24	3.149	5.242	622.2
	120.0	15.30	1.049	389.1	650.5	19.19	3.142	5.222	675.1
	140.0	13.20	1.042	451.8	754.8	19.99	3.137	5.210	724.1
	160.0	11.61	1.036	514.5	859.0	20.69	3.133	5.203	770.0
	180.0	10.36	1.032	577.0	963.0	21.30	3.131	5.198	813.3
	200.0	9.359	1.029	639.5	1067.	21.85	3.129	5.196	854.5
	220.0	8.532	1.026	702.0	1171.	22.34	3.127	5.194	893.8
	240.0	7.839	1.024	764.4	1275.	22.80	3.126	5.192	931.5
	260.0	7.250	1.022	826.8	1378.	23.21	3.125	5.191	967.7
	280.0	6.744	1.020	889.2	1482.	23.60	3.124	5.191	1003.
	300.0	6.303	1.018	951.5	1586.	23.95	3.123	5.190	1036.
	350.0	5.419	1.015	1107.	1846.	24.75	3.121	5.190	1116.
	400.0	4.751	1.013	1263.	2105.	25.45	3.120	5.190	1191.
	500.0	3.812	1.010	1575.	2624.	26.61	3.119	5.190	1328.
	600.0	3.183	1.008	1886.	3143.	27.55	3.118	5.190	1452.
	700.0	2.732	1.007	2198.	3662.	28.35	3.118	5.190	1567.
	800.0	2.393	1.006	2510.	4181.	29.04	3.118	5.191	1673.
	900.0	2.129	1.005	2821.	4700.	29.66	3.117	5.191	1774.
	1000.	1.917	1.005	3133.	5219.	30.20	3.117	5.191	1868.
	1100.	1.743	1.004	3444.	5738.	30.70	3.117	5.191	1959.
	1200.	1.599	1.004	3756.	6258.	31.15	3.117	5.192	2045.
	1300.	1.476	1.003	4067.	6777.	31.57	3.117	5.192	2128.
	1400.	1.371	1.003	4379.	7296.	31.95	3.117	5.192	2208.
	1500.	1.280	1.003	4690.	7815.	32.31	3.117	5.192	2285.

PRESSURE = 4.000 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_V}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
2.069	0.2496E-01	1.485	0.1337	0.7333E-01				
3.000	0.3541E-01	1.617	0.1301	0.7230E-01				
4.000	0.7499E-01	1.617	0.1421	0.7119E-01	0.2963E-01	9.899	0.8098E-07	0.6757
5.000	0.1262	1.740	0.1596	0.6961E-01	0.3387E-01	8.423	0.7638E-07	0.6232
6.000	0.1849	1.759	0.1820	0.6766E-01	0.3676E-01	7.376	0.7204E-07	0.5950
8.000	0.3221	1.616	0.2428	0.6294E-01	0.3951E-01	6.096	0.6332E-07	0.6009
10.00	0.4821	1.435	0.3269	0.5753E-01	0.3985E-01	5.428	0.5730E-07	0.6462
12.00	0.6505	1.280	0.4316	0.5185E-01	0.3926E-01	5.086	0.5458E-07	0.7044
15.00	0.8555	1.109	0.5919	0.4371E-01	0.3852E-01	4.904	0.5687E-07	0.7718
20.00	0.9854	0.9491	0.7583	0.3333E-01	0.3921E-01	5.010	0.7398E-07	0.7933
25.00	0.9937	0.8696	0.8275	0.2666E-01	0.4122E-01	5.299	0.1001E-06	0.7742
30.00	0.9795	0.8239	0.8593	0.2225E-01	0.4362E-01	5.642	0.1309E-06	0.7546
40.00	0.9556	0.7739	0.8892	0.1683E-01	0.4871E-01	6.361	0.2016E-06	0.7294
50.00	0.9449	0.7472	0.9055	0.1361E-01	0.5382E-01	7.070	0.2824E-06	0.7155
60.00	0.9415	0.7306	0.9172	0.1145E-01	0.5888E-01	7.754	0.3724E-06	0.7066
80.00	0.9435	0.7114	0.9337	0.8729E-02	0.6873E-01	9.046	0.5791E-06	0.6951
100.0	0.9487	0.7007	0.9452	0.7065E-02	0.7822E-01	10.26	0.8200E-06	0.6875
120.0	0.9541	0.6939	0.9535	0.5939E-02	0.8736E-01	11.22	0.1094E-05	0.6709
140.0	0.9589	0.6892	0.9599	0.5124E-02	0.9619E-01	12.33	0.1399E-05	0.6680
160.0	0.9631	0.6859	0.9648	0.4506E-02	0.1047	13.40	0.1734E-05	0.6655
180.0	0.9666	0.6833	0.9688	0.4022E-02	0.1130	14.43	0.2098E-05	0.6635
200.0	0.9696	0.6814	0.9720	0.3631E-02	0.1211	15.42	0.2490E-05	0.6617
220.0	0.9722	0.6798	0.9747	0.3310E-02	0.1290	16.39	0.2910E-05	0.6603
240.0	0.9745	0.6785	0.9770	0.3041E-02	0.1366	17.34	0.3357E-05	0.6590
260.0	0.9764	0.6774	0.9789	0.2813E-02	0.1441	18.27	0.3829E-05	0.6579
280.0	0.9781	0.6765	0.9805	0.2616E-02	0.1515	19.17	0.4327E-05	0.6570
300.0	0.9796	0.6758	0.9819	0.2445E-02	0.1587	20.06	0.4850E-05	0.6562
350.0	0.9827	0.6743	0.9848	0.2102E-02	0.1761	22.27	0.6263E-05	0.6561
400.0	0.9850	0.6732	0.9869	0.1843E-02	0.1929	24.39	0.7822E-05	0.6563
500.0	0.9883	0.6717	0.9899	0.1479E-02	0.2247	28.44	0.1136E-04	0.6569
600.0	0.9905	0.6707	0.9918	0.1234E-02	0.2547	32.28	0.1542E-04	0.6578
700.0	0.9920	0.6701	0.9931	0.1059E-02	0.2833	35.95	0.1998E-04	0.6587
800.0	0.9932	0.6696	0.9941	0.9280E-03	0.3107	39.48	0.2502E-04	0.6596
900.0	0.9940	0.6692	0.9949	0.8254E-03	0.3371	42.89	0.3051E-04	0.6604
1000.	0.9947	0.6690	0.9955	0.7433E-03	0.3627	46.20	0.3645E-04	0.6612
1100.	0.9953	0.6687	0.9959	0.6761E-03	0.3875	49.42	0.4282E-04	0.6620
1200.	0.9957	0.6685	0.9963	0.6200E-03	0.4117	52.56	0.4960E-04	0.6627
1300.	0.9961	0.6684	0.9966	0.5725E-03	0.4353	55.63	0.5679E-04	0.6634
1400.	0.9964	0.6682	0.9969	0.5317E-03	0.4583	58.63	0.6438E-04	0.6641
1500.	0.9967	0.6681	0.9972	0.4964E-03	0.4809	61.57	0.7236E-04	0.6647

PRESSURE = 4.500 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	2.206	188.5	5.212	4.697	28.57	1.270	2.869	2.924	422.8
	3.000	186.6	3.871	5.729	29.85	1.771	1.182	1.246	435.7
	4.000	184.0	2.943	7.011	31.47	2.232	1.750	1.947	433.6
	5.000	180.3	2.403	8.704	33.66	2.719	2.008	2.418	432.2
	6.000	175.8	2.054	10.70	36.30	3.199	2.201	2.866	428.7
	8.000	164.8	1.643	15.62	42.93	4.147	2.542	3.761	414.0
	10.00	152.2	1.423	21.71	51.28	5.075	2.795	4.565	395.5
	12.00	138.9	1.300	28.70	61.10	5.968	2.964	5.225	378.6
	15.00	119.4	1.209	40.18	77.86	7.212	3.112	5.877	362.1
	20.00	93.10	1.163	59.92	108.2	8.959	3.214	6.155	359.7
	25.00	75.26	1.151	78.98	138.8	10.32	3.240	6.031	373.7
	30.00	63.13	1.144	97.22	168.5	11.41	3.239	5.863	392.6
	40.00	47.99	1.129	132.0	225.8	13.06	3.220	5.614	432.4
	50.00	38.91	1.114	165.5	281.1	14.29	3.201	5.469	470.2
	60.00	32.81	1.100	198.2	335.4	15.28	3.186	5.382	505.3
	80.00	25.07	1.080	262.5	442.0	16.81	3.165	5.291	569.2
	100.0	20.33	1.066	326.0	547.3	17.99	3.153	5.248	626.4
	120.0	17.11	1.055	389.0	652.0	18.94	3.145	5.225	678.9
	140.0	14.78	1.047	451.9	756.4	19.75	3.139	5.212	727.6
	160.0	13.01	1.041	514.5	860.5	20.44	3.135	5.204	773.2
	180.0	11.61	1.036	577.1	964.6	21.06	3.132	5.199	816.3
	200.0	10.49	1.032	639.6	1069.	21.60	3.130	5.196	857.3
	220.0	9.568	1.029	702.1	1172.	22.10	3.128	5.194	896.5
	240.0	8.794	1.026	764.5	1276.	22.55	3.127	5.192	934.0
	260.0	8.135	1.024	826.9	1380.	22.97	3.126	5.191	970.1
	280.0	7.568	1.022	889.3	1484.	23.35	3.125	5.190	1005.
	300.0	7.075	1.021	951.7	1588.	23.71	3.124	5.190	1039.
	350.0	6.084	1.017	1108.	1847.	24.51	3.122	5.189	1118.
	400.0	5.337	1.015	1263.	2107.	25.20	3.121	5.189	1193.
	500.0	4.284	1.011	1575.	2626.	26.36	3.120	5.189	1330.
	600.0	3.577	1.009	1887.	3145.	27.31	3.119	5.190	1454.
	700.0	3.071	1.008	2198.	3664.	28.11	3.118	5.190	1568.
	800.0	2.690	1.007	2510.	4183.	28.80	3.118	5.190	1674.
	900.0	2.393	1.006	2821.	4702.	29.41	3.117	5.191	1775.
	1000.	2.155	1.005	3133.	5221.	29.96	3.117	5.191	1869.
	1100.	1.960	1.005	3444.	5740.	30.45	3.117	5.191	1960.
	1200.	1.798	1.004	3756.	6259.	30.90	3.117	5.191	2046.
	1300.	1.660	1.004	4067.	6778.	31.32	3.117	5.191	2129.
	1400.	1.542	1.003	4379.	7297.	31.71	3.117	5.192	2209.
	1500.	1.440	1.003	4691.	7816.	32.06	3.117	5.192	2286.

PRESSURE = 4.500 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
2.206	0.2631E-01	0.7293	0.1362	0.7421E-01				
3.000	0.3265E-01	1.658	0.1340	0.7345E-01				
4.000	0.6823E-01	1.648	0.1447	0.7242E-01	0.3052E-01	10.82	0.8522E-07	0.6902
5.000	0.1149	1.775	0.1608	0.7096E-01	0.3503E-01	9.137	0.8034E-07	0.6307
6.000	0.1681	1.797	0.1814	0.6914E-01	0.3817E-01	7.953	0.7577E-07	0.5971
8.000	0.2902	1.653	0.2358	0.6476E-01	0.4133E-01	6.513	0.6668E-07	0.5927
10.00	0.4298	1.473	0.3087	0.5975E-01	0.4193E-01	5.760	0.6035E-07	0.6271
12.00	0.5777	1.321	0.3984	0.5447E-01	0.4143E-01	5.364	0.5709E-07	0.6765
15.00	0.7729	1.150	0.5426	0.4676E-01	0.4053E-01	5.128	0.5774E-07	0.7436
20.00	0.9329	0.9806	0.7153	0.3637E-01	0.4076E-01	5.179	0.7114E-07	0.7819
25.00	0.9645	0.8932	0.7972	0.2936E-01	0.4251E-01	5.437	0.9367E-07	0.7713
30.00	0.9613	0.8425	0.8370	0.2460E-01	0.4479E-01	5.762	0.1210E-06	0.7541
40.00	0.9449	0.7868	0.8744	0.1868E-01	0.4974E-01	6.460	0.1846E-06	0.7291
50.00	0.9363	0.7569	0.8940	0.1513E-01	0.5476E-01	7.156	0.2573E-06	0.7148
60.00	0.9339	0.7385	0.9074	0.1276E-01	0.5973E-01	7.831	0.3382E-06	0.7057
80.00	0.9368	0.7169	0.9261	0.9741E-02	0.6945E-01	9.112	0.5235E-06	0.6942
100.0	0.9427	0.7049	0.9388	0.7896E-02	0.7884E-01	10.32	0.7389E-06	0.6867
120.0	0.9487	0.6973	0.9481	0.6644E-02	0.8791E-01	11.28	0.9832E-06	0.6702
140.0	0.9541	0.6921	0.9551	0.5736E-02	0.9669E-01	12.38	0.1255E-05	0.6674
160.0	0.9587	0.6883	0.9606	0.5048E-02	0.1052	13.44	0.1554E-05	0.6649
180.0	0.9626	0.6854	0.9650	0.4507E-02	0.1135	14.46	0.1879E-05	0.6629
200.0	0.9660	0.6832	0.9687	0.4072E-02	0.1215	15.46	0.2228E-05	0.6611
220.0	0.9689	0.6814	0.9716	0.3713E-02	0.1293	16.43	0.2602E-05	0.6596
240.0	0.9714	0.6800	0.9742	0.3412E-02	0.1370	17.37	0.3000E-05	0.6583
260.0	0.9736	0.6788	0.9763	0.3156E-02	0.1445	18.29	0.3421E-05	0.6572
280.0	0.9755	0.6778	0.9781	0.2936E-02	0.1518	19.19	0.3864E-05	0.6563
300.0	0.9772	0.6769	0.9797	0.2745E-02	0.1590	20.08	0.4330E-05	0.6554
350.0	0.9806	0.6752	0.9829	0.2360E-02	0.1764	22.28	0.5588E-05	0.6554
400.0	0.9832	0.6740	0.9853	0.2070E-02	0.1932	24.41	0.6975E-05	0.6556
500.0	0.9868	0.6723	0.9886	0.1661E-02	0.2250	28.45	0.1012E-04	0.6563
600.0	0.9893	0.6712	0.9908	0.1387E-02	0.2550	32.29	0.1373E-04	0.6572
700.0	0.9910	0.6705	0.9923	0.1191E-02	0.2836	35.96	0.1779E-04	0.6582
800.0	0.9923	0.6700	0.9934	0.1043E-02	0.3110	39.49	0.2227E-04	0.6591
900.0	0.9933	0.6696	0.9942	0.9281E-03	0.3374	42.90	0.2716E-04	0.6600
1000.	0.9941	0.6692	0.9949	0.8358E-03	0.3629	46.21	0.3244E-04	0.6608
1100.	0.9947	0.6690	0.9954	0.7602E-03	0.3878	49.42	0.3810E-04	0.6616
1200.	0.9952	0.6688	0.9959	0.6971E-03	0.4119	52.56	0.4414E-04	0.6624
1300.	0.9956	0.6686	0.9962	0.6438E-03	0.4355	55.63	0.5053E-04	0.6631
1400.	0.9960	0.6684	0.9965	0.5979E-03	0.4586	58.63	0.5728E-04	0.6638
1500.	0.9963	0.6683	0.9968	0.5582E-03	0.4811	61.58	0.6437E-04	0.6644

PRESSURE = 5.000 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	2.334	190.5	5.415	5.226	31.48	1.379	2.628	2.678	442.1
	3.000	189.3	4.240	6.006	32.43	1.743	1.149	1.209	449.8
	4.000	186.8	3.221	7.228	33.99	2.188	1.699	1.878	448.6
	5.000	183.4	2.625	8.845	36.10	2.658	1.964	2.339	447.9
	6.000	179.2	2.239	10.76	38.66	3.124	2.166	2.778	444.9
	8.000	168.9	1.782	15.49	45.10	4.044	2.523	3.649	431.2
	10.00	157.1	1.532	21.37	53.19	4.943	2.786	4.420	413.7
	12.00	144.7	1.387	28.12	62.69	5.807	2.962	5.054	397.3
	15.00	126.2	1.272	39.31	78.93	7.012	3.115	5.712	379.9
	20.00	100.2	1.201	58.82	108.7	8.725	3.221	6.088	373.6
	25.00	81.73	1.178	77.91	139.1	10.08	3.249	6.026	384.5
	30.00	68.87	1.165	96.26	168.9	11.17	3.249	5.881	401.6
	40.00	52.58	1.145	131.3	226.4	12.82	3.229	5.639	439.5
	50.00	42.72	1.127	164.9	282.0	14.06	3.209	5.490	476.3
	60.00	36.08	1.112	197.8	336.4	15.06	3.192	5.398	510.9
	80.00	27.63	1.089	262.3	443.2	16.59	3.170	5.300	573.9
	100.0	22.44	1.073	325.9	548.7	17.77	3.157	5.254	630.6
	120.0	18.90	1.061	389.0	653.5	18.73	3.148	5.229	682.7
	140.0	16.34	1.052	451.9	757.9	19.53	3.142	5.214	731.0
	160.0	14.39	1.046	514.6	862.1	20.23	3.137	5.206	776.4
	180.0	12.86	1.040	577.2	966.2	20.84	3.134	5.200	819.3
	200.0	11.62	1.036	639.8	1070.	21.39	3.132	5.196	860.1
	220.0	10.60	1.032	702.3	1174.	21.88	3.130	5.194	899.1
	240.0	9.743	1.029	764.7	1278.	22.33	3.128	5.192	936.5
	260.0	9.015	1.027	827.1	1382.	22.75	3.127	5.191	972.5
	280.0	8.389	1.025	889.5	1486.	23.13	3.126	5.190	1007.
	300.0	7.844	1.023	951.9	1589.	23.49	3.125	5.190	1041.
	350.0	6.747	1.019	1108.	1849.	24.29	3.123	5.189	1120.
	400.0	5.920	1.017	1264.	2108.	24.98	3.122	5.189	1195.
	500.0	4.753	1.013	1575.	2627.	26.14	3.120	5.189	1331.
	600.0	3.971	1.010	1887.	3146.	27.09	3.119	5.189	1455.
	700.0	3.409	1.009	2198.	3665.	27.89	3.118	5.190	1569.
	800.0	2.987	1.007	2510.	4184.	28.58	3.118	5.190	1676.
	900.0	2.657	1.006	2821.	4703.	29.19	3.118	5.190	1776.
	1000.	2.393	1.006	3133.	5222.	29.74	3.117	5.191	1870.
	1100.	2.177	1.005	3445.	5741.	30.23	3.117	5.191	1961.
	1200.	1.997	1.005	3756.	6260.	30.69	3.117	5.191	2047.
	1300.	1.844	1.004	4068.	6779.	31.10	3.117	5.191	2130.
	1400.	1.713	1.004	4379.	7299.	31.49	3.117	5.191	2209.
	1500.	1.599	1.004	4691.	7818.	31.84	3.117	5.192	2286.

PRESSURE = 5.000 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_V}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
2.334	0.2466E-01	0.7715	0.1368	0.7501E-01				
3.000	0.3061E-01	1.708	0.1374	0.7452E-01				
4.000	0.6269E-01	1.679	0.1470	0.7356E-01	0.3137E-01	11.78	0.8939E-07	0.7056
5.000	0.1056	1.810	0.1618	0.7219E-01	0.3613E-01	9.873	0.8421E-07	0.6392
6.000	0.1543	1.832	0.1809	0.7049E-01	0.3951E-01	8.543	0.7937E-07	0.6007
8.000	0.2648	1.687	0.2303	0.6639E-01	0.4306E-01	6.933	0.6987E-07	0.5876
10.00	0.3893	1.507	0.2951	0.6170E-01	0.4391E-01	6.088	0.6323E-07	0.6129
12.00	0.5209	1.356	0.3737	0.5675E-01	0.4352E-01	5.638	0.5954E-07	0.6546
15.00	0.7034	1.185	0.5033	0.4944E-01	0.4252E-01	5.349	0.5900E-07	0.7184
20.00	0.8811	1.010	0.6757	0.3916E-01	0.4233E-01	5.345	0.6941E-07	0.7686
25.00	0.9334	0.9161	0.7675	0.3190E-01	0.4380E-01	5.574	0.8893E-07	0.7669
30.00	0.9413	0.8607	0.8147	0.2685E-01	0.4593E-01	5.881	0.1134E-06	0.7529
40.00	0.9335	0.7995	0.8596	0.2047E-01	0.5074E-01	6.558	0.1711E-06	0.7288
50.00	0.9275	0.7666	0.8825	0.1662E-01	0.5567E-01	7.241	0.2373E-06	0.7141
60.00	0.9261	0.7462	0.8978	0.1403E-01	0.6057E-01	7.908	0.3109E-06	0.7048
80.00	0.9301	0.7225	0.9185	0.1074E-01	0.7017E-01	9.178	0.4791E-06	0.6933
100.0	0.9368	0.7091	0.9325	0.8715E-02	0.7947E-01	10.37	0.6741E-06	0.6859
120.0	0.9434	0.7007	0.9427	0.7341E-02	0.8846E-01	11.33	0.8950E-06	0.6696
140.0	0.9493	0.6949	0.9504	0.6343E-02	0.9718E-01	12.43	0.1141E-05	0.6668
160.0	0.9543	0.6907	0.9565	0.5585E-02	0.1056	13.48	0.1410E-05	0.6643
180.0	0.9587	0.6876	0.9613	0.4989E-02	0.1139	14.50	0.1703E-05	0.6623
200.0	0.9624	0.6851	0.9653	0.4509E-02	0.1219	15.49	0.2019E-05	0.6605
220.0	0.9656	0.6831	0.9686	0.4112E-02	0.1297	16.46	0.2356E-05	0.6590
240.0	0.9683	0.6815	0.9714	0.3780E-02	0.1373	17.40	0.2715E-05	0.6577
260.0	0.9707	0.6802	0.9737	0.3498E-02	0.1448	18.31	0.3094E-05	0.6565
280.0	0.9728	0.6790	0.9757	0.3255E-02	0.1521	19.21	0.3494E-05	0.6555
300.0	0.9747	0.6781	0.9775	0.3043E-02	0.1593	20.10	0.3914E-05	0.6546
350.0	0.9784	0.6762	0.9810	0.2618E-02	0.1767	22.30	0.5047E-05	0.6547
400.0	0.9813	0.6748	0.9837	0.2296E-02	0.1934	24.42	0.6298E-05	0.6549
500.0	0.9854	0.6730	0.9873	0.1844E-02	0.2252	28.46	0.9131E-05	0.6558
600.0	0.9881	0.6718	0.9897	0.1540E-02	0.2552	32.30	0.1239E-04	0.6567
700.0	0.9900	0.6709	0.9914	0.1322E-02	0.2838	35.97	0.1604E-04	0.6577
800.0	0.9914	0.6703	0.9926	0.1158E-02	0.3112	39.49	0.2008E-04	0.6587
900.0	0.9925	0.6699	0.9936	0.1031E-02	0.3376	42.90	0.2448E-04	0.6596
1000.	0.9934	0.6695	0.9943	0.9281E-03	0.3632	46.21	0.2923E-04	0.6605
1100.	0.9941	0.6692	0.9949	0.8443E-03	0.3880	49.43	0.3433E-04	0.6613
1200.	0.9947	0.6690	0.9954	0.7743E-03	0.4122	52.57	0.3976E-04	0.6621
1300.	0.9951	0.6688	0.9958	0.7150E-03	0.4357	55.63	0.4552E-04	0.6628
1400.	0.9955	0.6686	0.9961	0.6641E-03	0.4588	58.64	0.5160E-04	0.6635
1500.	0.9959	0.6685	0.9964	0.6200E-03	0.4814	61.58	0.5798E-04	0.6642

PRESSURE = 6.000 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	2.573	194.9	5.759	6.208	36.99	1.512	1.343	1.396	472.2
	3.000	194.2	4.959	6.586	37.49	1.693	1.102	1.160	476.1
	4.000	192.0	3.761	7.706	38.96	2.111	1.609	1.761	476.6
	5.000	188.9	3.057	9.192	40.95	2.553	1.882	2.204	476.9
	6.000	185.2	2.600	10.96	43.36	2.993	2.101	2.631	474.7
	8.000	176.0	2.052	15.38	49.48	3.866	2.487	3.470	462.5
	10.00	165.5	1.745	20.91	57.17	4.721	2.770	4.199	446.2
	12.00	154.4	1.559	27.31	66.18	5.541	2.958	4.792	430.7
	15.00	137.6	1.400	37.98	81.60	6.685	3.122	5.438	412.8
	20.00	112.6	1.282	57.02	110.3	8.333	3.234	5.936	401.1
	25.00	93.53	1.235	76.06	140.2	9.668	3.265	5.987	406.6
	30.00	79.59	1.210	94.55	169.9	10.75	3.267	5.894	420.0
	40.00	61.34	1.177	129.9	227.8	12.42	3.246	5.678	453.9
	50.00	50.08	1.154	163.9	283.7	13.67	3.224	5.526	488.7
	60.00	42.43	1.135	197.0	338.4	14.66	3.205	5.427	522.0
	80.00	32.63	1.107	261.9	445.8	16.21	3.180	5.318	583.4
	100.0	26.57	1.087	325.7	551.5	17.39	3.164	5.265	639.0
	120.0	22.43	1.073	389.0	656.5	18.35	3.154	5.236	690.3
	140.0	19.41	1.063	452.0	761.0	19.15	3.147	5.219	738.0
	160.0	17.12	1.055	514.8	865.3	19.85	3.142	5.208	782.8
	180.0	15.31	1.048	577.4	969.4	20.46	3.138	5.202	825.3
	200.0	13.85	1.043	640.0	1073.	21.01	3.135	5.197	865.7
	220.0	12.64	1.039	702.5	1177.	21.50	3.132	5.194	904.4
	240.0	11.62	1.035	765.0	1281.	21.96	3.130	5.192	941.5
	260.0	10.76	1.032	827.4	1385.	22.37	3.129	5.191	977.2
	280.0	10.02	1.030	889.9	1489.	22.76	3.127	5.190	1012.
	300.0	9.370	1.028	952.3	1593.	23.11	3.126	5.189	1045.
	350.0	8.066	1.023	1108.	1852.	23.91	3.124	5.188	1124.
	400.0	7.081	1.020	1264.	2111.	24.61	3.123	5.188	1198.
	500.0	5.690	1.015	1576.	2630.	25.76	3.121	5.188	1334.
	600.0	4.755	1.012	1887.	3149.	26.71	3.120	5.189	1458.
	700.0	4.084	1.010	2199.	3668.	27.51	3.119	5.189	1572.
	800.0	3.579	1.009	2510.	4187.	28.20	3.118	5.190	1678.
	900.0	3.185	1.008	2822.	4706.	28.81	3.118	5.190	1778.
	1000.	2.869	1.007	3133.	5225.	29.36	3.118	5.190	1872.
	1100.	2.610	1.006	3445.	5744.	29.86	3.117	5.191	1962.
	1200.	2.394	1.006	3756.	6263.	30.31	3.117	5.191	2049.
	1300.	2.211	1.005	4068.	6782.	30.72	3.117	5.191	2131.
	1400.	2.054	1.005	4380.	7301.	31.11	3.117	5.191	2211.
	1500.	1.917	1.004	4691.	7820.	31.47	3.117	5.191	2288.

PRESSURE = 6.000 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_v$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
2.573	0.2532E-01	1.572	0.1436	0.7680E-01				
3.000	0.2821E-01	1.839	0.1434	0.7649E-01				
4.000	0.5425E-01	1.749	0.1507	0.7562E-01	0.3296E-01	13.84	0.9748E-07	0.7393
5.000	0.9103E-01	1.879	0.1635	0.7440E-01	0.3821E-01	11.42	0.9175E-07	0.6587
6.000	0.1329	1.897	0.1801	0.7289E-01	0.4203E-01	9.765	0.8627E-07	0.6113
8.000	0.2266	1.746	0.2224	0.6923E-01	0.4631E-01	7.785	0.7583E-07	0.5833
10.00	0.3299	1.564	0.2760	0.6504E-01	0.4766E-01	6.745	0.6859E-07	0.5942
12.00	0.4384	1.414	0.3395	0.6061E-01	0.4751E-01	6.177	0.6423E-07	0.6230
15.00	0.5961	1.245	0.4459	0.5394E-01	0.4643E-01	5.780	0.6206E-07	0.6769
20.00	0.7851	1.064	0.6078	0.4407E-01	0.4552E-01	5.672	0.6809E-07	0.7397
25.00	0.8688	0.9594	0.7116	0.3654E-01	0.4637E-01	5.843	0.8281E-07	0.7544
30.00	0.8978	0.8957	0.7710	0.3106E-01	0.4817E-01	6.114	0.1027E-06	0.7482
40.00	0.9085	0.8243	0.8302	0.2390E-01	0.5266E-01	6.750	0.1512E-06	0.7277
50.00	0.9089	0.7857	0.8598	0.1950E-01	0.5743E-01	7.409	0.2075E-06	0.7129
60.00	0.9103	0.7616	0.8788	0.1651E-01	0.6219E-01	8.059	0.2701E-06	0.7033
80.00	0.9169	0.7334	0.9037	0.1268E-01	0.7158E-01	9.307	0.4125E-06	0.6915
100.0	0.9251	0.7176	0.9202	0.1032E-01	0.8070E-01	10.49	0.5770E-06	0.6842
120.0	0.9330	0.7075	0.9321	0.8712E-02	0.8956E-01	11.43	0.7627E-06	0.6682
140.0	0.9399	0.7006	0.9412	0.7539E-02	0.9817E-01	12.52	0.9690E-06	0.6655
160.0	0.9458	0.6956	0.9483	0.6646E-02	0.1065	13.57	0.1195E-05	0.6631
180.0	0.9509	0.6918	0.9540	0.5942E-02	0.1147	14.58	0.1441E-05	0.6611
200.0	0.9553	0.6888	0.9586	0.5374E-02	0.1227	15.56	0.1705E-05	0.6593
220.0	0.9590	0.6864	0.9625	0.4905E-02	0.1304	16.52	0.1987E-05	0.6577
240.0	0.9623	0.6845	0.9658	0.4511E-02	0.1380	17.45	0.2287E-05	0.6563
260.0	0.9651	0.6829	0.9686	0.4176E-02	0.1455	18.36	0.2604E-05	0.6551
280.0	0.9676	0.6815	0.9710	0.3887E-02	0.1528	19.25	0.2938E-05	0.6540
300.0	0.9698	0.6804	0.9731	0.3636E-02	0.1599	20.13	0.3289E-05	0.6531
350.0	0.9742	0.6781	0.9773	0.3129E-02	0.1773	22.32	0.4236E-05	0.6533
400.0	0.9777	0.6765	0.9804	0.2747E-02	0.1940	24.44	0.5281E-05	0.6537
500.0	0.9825	0.6742	0.9848	0.2207E-02	0.2257	28.48	0.7647E-05	0.6547
600.0	0.9857	0.6728	0.9877	0.1844E-02	0.2557	32.32	0.1036E-04	0.6557
700.0	0.9880	0.6718	0.9897	0.1584E-02	0.2843	35.98	0.1341E-04	0.6568
800.0	0.9897	0.6711	0.9912	0.1388E-02	0.3117	39.51	0.1678E-04	0.6579
900.0	0.9910	0.6705	0.9923	0.1235E-02	0.3381	42.91	0.2045E-04	0.6588
1000.	0.9921	0.6701	0.9932	0.1113E-02	0.3636	46.22	0.2442E-04	0.6598
1100.	0.9929	0.6698	0.9939	0.1012E-02	0.3884	49.44	0.2867E-04	0.6606
1200.	0.9936	0.6695	0.9945	0.9283E-03	0.4126	52.58	0.3320E-04	0.6615
1300.	0.9942	0.6692	0.9950	0.8573E-03	0.4362	55.64	0.3801E-04	0.6622
1400.	0.9947	0.6690	0.9954	0.7964E-03	0.4592	58.64	0.4307E-04	0.6630
1500.	0.9951	0.6689	0.9957	0.7435E-03	0.4818	61.59	0.4840E-04	0.6636

PRESSURE = 7.000 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
M	2.796	199.0	6.059	7.024	42.21	1.566	1.086	1.146	499.1
	3.000	198.6	5.657	7.188	42.44	1.645	1.083	1.143	500.4
	4.000	196.5	4.286	8.226	43.84	2.046	1.531	1.666	502.3
	5.000	193.8	3.478	9.604	45.73	2.464	1.809	2.091	503.5
	6.000	190.4	2.950	11.25	48.02	2.882	2.042	2.510	501.8
	8.000	182.1	2.314	15.43	53.88	3.718	2.453	3.329	490.5
	10.00	172.5	1.953	20.68	61.26	4.539	2.754	4.032	475.1
	12.00	162.4	1.730	26.80	69.91	5.326	2.954	4.600	460.2
	15.00	146.9	1.529	37.07	84.72	6.425	3.128	5.228	442.3
	20.00	123.2	1.368	55.64	112.5	8.018	3.248	5.784	427.4
	25.00	104.0	1.296	74.54	141.9	9.329	3.282	5.923	428.5
	30.00	89.35	1.257	93.07	171.4	10.41	3.284	5.883	438.6
	40.00	69.56	1.211	128.7	229.4	12.07	3.262	5.703	468.5
	50.00	57.08	1.181	163.0	285.6	13.33	3.238	5.554	501.1
	60.00	48.52	1.158	196.3	340.6	14.33	3.217	5.452	533.1
	80.00	37.46	1.124	261.5	448.3	15.88	3.189	5.334	592.8
	100.0	30.59	1.102	325.5	554.4	17.07	3.171	5.275	647.4
	120.0	25.87	1.085	388.9	659.5	18.03	3.160	5.242	697.8
	140.0	22.43	1.073	452.0	764.1	18.83	3.151	5.223	744.9
	160.0	19.80	1.064	514.9	868.5	19.53	3.146	5.211	789.3
	180.0	17.72	1.056	577.6	972.6	20.14	3.141	5.203	831.3
	200.0	16.04	1.050	640.3	1077.	20.69	3.138	5.198	871.4
	220.0	14.65	1.045	702.8	1181.	21.19	3.135	5.195	909.7
	240.0	13.49	1.041	765.3	1284.	21.64	3.133	5.192	946.5
	260.0	12.49	1.038	827.8	1388.	22.05	3.131	5.191	982.0
	280.0	11.63	1.035	890.2	1492.	22.44	3.129	5.189	1016.
	300.0	10.88	1.032	952.6	1596.	22.80	3.128	5.189	1049.
	350.0	9.375	1.027	1109.	1855.	23.60	3.126	5.187	1128.
	400.0	8.234	1.023	1264.	2115.	24.29	3.124	5.187	1202.
	500.0	6.621	1.018	1576.	2633.	25.45	3.122	5.187	1337.
	600.0	5.536	1.014	1888.	3152.	26.39	3.120	5.188	1460.
	700.0	4.757	1.012	2199.	3671.	27.19	3.119	5.188	1574.
	800.0	4.169	1.010	2511.	4190.	27.88	3.119	5.189	1680.
	900.0	3.711	1.009	2822.	4709.	28.49	3.118	5.189	1780.
	1000.	3.343	1.008	3134.	5228.	29.04	3.118	5.190	1874.
	1100.	3.042	1.007	3445.	5747.	29.54	3.118	5.190	1964.
	1200.	2.790	1.006	3757.	6266.	29.99	3.117	5.190	2050.
	1300.	2.577	1.006	4068.	6785.	30.40	3.117	5.191	2133.
	1400.	2.394	1.005	4380.	7304.	30.79	3.117	5.191	2213.
	1500.	2.235	1.005	4691.	7823.	31.15	3.117	5.191	2289.

PRESSURE = 7.000 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
2.796	0.2660E-01	2.068	0.1490	0.7841E-01				
3.000	0.2756E-01	2.012	0.1486	0.7826E-01				
4.000	0.4828E-01	1.828	0.1536	0.7744E-01	0.3444E-01	16.07	0.1052E-06	0.7775
5.000	0.8027E-01	1.946	0.1647	0.7634E-01	0.4015E-01	13.07	0.9906E-07	0.6809
6.000	0.1170	1.957	0.1794	0.7497E-01	0.4438E-01	11.05	0.9289E-07	0.6250
8.000	0.1988	1.796	0.2169	0.7165E-01	0.4935E-01	8.661	0.8142E-07	0.5843
10.00	0.2879	1.612	0.2632	0.6784E-01	0.5118E-01	7.408	0.7357E-07	0.5837
12.00	0.3810	1.462	0.3170	0.6379E-01	0.5130E-01	6.714	0.6869E-07	0.6020
15.00	0.5187	1.294	0.4071	0.5765E-01	0.5024E-01	6.203	0.6542E-07	0.6455
20.00	0.7030	1.110	0.5540	0.4823E-01	0.4876E-01	5.992	0.6846E-07	0.7107
25.00	0.8058	0.9991	0.6618	0.4066E-01	0.4899E-01	6.106	0.7955E-07	0.7383
30.00	0.8524	0.9288	0.7298	0.3490E-01	0.5038E-01	6.343	0.9584E-07	0.7407
40.00	0.8817	0.8484	0.8014	0.2712E-01	0.5451E-01	6.938	0.1374E-06	0.7259
50.00	0.8895	0.8044	0.8376	0.2224E-01	0.5910E-01	7.574	0.1864E-06	0.7118
60.00	0.8942	0.7768	0.8604	0.1889E-01	0.6375E-01	8.208	0.2410E-06	0.7019
80.00	0.9039	0.7443	0.8894	0.1457E-01	0.7295E-01	9.434	0.3650E-06	0.6899
100.0	0.9137	0.7260	0.9082	0.1189E-01	0.8192E-01	10.60	0.5077E-06	0.6826
120.0	0.9228	0.7143	0.9218	0.1005E-01	0.9065E-01	11.53	0.6684E-06	0.6669
140.0	0.9307	0.7063	0.9321	0.8712E-02	0.9916E-01	12.61	0.8465E-06	0.6642
160.0	0.9375	0.7004	0.9402	0.7689E-02	0.1074	13.65	0.1041E-05	0.6619
180.0	0.9433	0.6960	0.9467	0.6881E-02	0.1155	14.65	0.1253E-05	0.6599
200.0	0.9482	0.6925	0.9521	0.6228E-02	0.1234	15.63	0.1480E-05	0.6581
220.0	0.9525	0.6898	0.9566	0.5688E-02	0.1312	16.58	0.1723E-05	0.6565
240.0	0.9563	0.6875	0.9603	0.5234E-02	0.1387	17.50	0.1981E-05	0.6551
260.0	0.9595	0.6856	0.9635	0.4847E-02	0.1461	18.41	0.2254E-05	0.6538
280.0	0.9624	0.6840	0.9663	0.4514E-02	0.1534	19.29	0.2541E-05	0.6526
300.0	0.9649	0.6827	0.9687	0.4223E-02	0.1605	20.16	0.2843E-05	0.6516
350.0	0.9701	0.6800	0.9736	0.3638E-02	0.1778	22.35	0.3657E-05	0.6520
400.0	0.9740	0.6781	0.9772	0.3195E-02	0.1945	24.47	0.4554E-05	0.6525
500.0	0.9796	0.6755	0.9823	0.2569E-02	0.2262	28.50	0.6586E-05	0.6536
600.0	0.9834	0.6738	0.9856	0.2147E-02	0.2562	32.33	0.8919E-05	0.6548
700.0	0.9861	0.6727	0.9880	0.1845E-02	0.2847	36.00	0.1154E-04	0.6560
800.0	0.9880	0.6718	0.9897	0.1617E-02	0.3121	39.52	0.1443E-04	0.6571
900.0	0.9896	0.6712	0.9910	0.1439E-02	0.3385	42.93	0.1758E-04	0.6581
1000.	0.9908	0.6707	0.9920	0.1297E-02	0.3640	46.23	0.2098E-04	0.6591
1100.	0.9917	0.6703	0.9929	0.1180E-02	0.3888	49.45	0.2463E-04	0.6600
1200.	0.9925	0.6699	0.9935	0.1082E-02	0.4130	52.58	0.2852E-04	0.6609
1300.	0.9932	0.6697	0.9941	0.9994E-03	0.4365	55.65	0.3264E-04	0.6617
1400.	0.9938	0.6694	0.9946	0.9284E-03	0.4596	58.65	0.3698E-04	0.6624
1500.	0.9942	0.6692	0.9950	0.8669E-03	0.4821	61.59	0.4155E-04	0.6631

PRESSURE = 8.000 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
M	3.007	202.6	6.321	7.808	47.29	1.602	1.092	1.161	523.0
	4.000	200.6	4.799	8.775	48.65	1.988	1.466	1.590	526.0
	5.000	198.1	3.888	10.06	50.44	2.386	1.743	1.996	528.0
	6.000	195.0	3.292	11.61	52.64	2.786	1.988	2.407	526.8
	8.000	187.3	2.570	15.57	58.27	3.591	2.422	3.213	516.2
	10.00	178.6	2.157	20.61	65.41	4.385	2.739	3.900	501.4
	12.00	169.2	1.897	26.50	73.78	5.146	2.950	4.450	486.9
	15.00	154.8	1.658	36.43	88.11	6.209	3.135	5.062	469.0
	20.00	132.2	1.456	54.57	115.1	7.757	3.262	5.644	452.3
	25.00	113.3	1.360	73.28	143.9	9.043	3.297	5.847	450.0
	30.00	98.25	1.307	91.80	173.2	10.11	3.300	5.857	457.1
	40.00	77.28	1.246	127.6	231.2	11.78	3.277	5.717	483.1
	50.00	63.75	1.208	162.1	287.6	13.04	3.251	5.576	513.6
	60.00	54.36	1.181	195.6	342.8	14.05	3.229	5.473	544.2
	80.00	42.15	1.142	261.1	450.9	15.60	3.198	5.349	602.2
	100.0	34.51	1.116	325.3	557.2	16.79	3.178	5.285	655.7
	120.0	29.24	1.097	388.9	662.5	17.75	3.165	5.249	705.4
	140.0	25.39	1.084	452.1	767.2	18.56	3.156	5.227	751.8
	160.0	22.44	1.073	515.0	871.6	19.25	3.149	5.214	795.7
	180.0	20.10	1.064	577.8	975.8	19.87	3.144	5.205	837.3
	200.0	18.21	1.058	640.5	1080.	20.41	3.141	5.199	877.0
	220.0	16.64	1.052	703.1	1184.	20.91	3.137	5.195	915.0
	240.0	15.32	1.047	765.6	1288.	21.36	3.135	5.192	951.6
	260.0	14.20	1.043	828.1	1391.	21.78	3.133	5.190	986.8
	280.0	13.23	1.040	890.5	1495.	22.16	3.131	5.189	1021.
	300.0	12.38	1.037	953.0	1599.	22.52	3.130	5.188	1054.
	350.0	10.67	1.031	1109.	1858.	23.32	3.127	5.187	1132.
	400.0	9.380	1.026	1265.	2118.	24.01	3.125	5.186	1206.
	500.0	7.548	1.020	1576.	2636.	25.17	3.122	5.187	1340.
	600.0	6.314	1.017	1888.	3155.	26.11	3.121	5.187	1463.
	700.0	5.427	1.014	2200.	3674.	26.91	3.120	5.188	1577.
	800.0	4.758	1.012	2511.	4193.	27.61	3.119	5.188	1682.
	900.0	4.235	1.010	2823.	4711.	28.22	3.119	5.189	1782.
	1000.	3.816	1.009	3134.	5230.	28.76	3.118	5.189	1876.
	1100.	3.473	1.008	3446.	5749.	29.26	3.118	5.190	1966.
	1200.	3.186	1.007	3757.	6268.	29.71	3.118	5.190	2052.
	1300.	2.943	1.007	4069.	6787.	30.13	3.117	5.190	2135.
	1400.	2.734	1.006	4380.	7306.	30.51	3.117	5.190	2214.
	1500.	2.553	1.006	4692.	7825.	30.87	3.117	5.191	2291.

PRESSURE = 8.000 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
3.007	0.2831E-01	2.218	0.1534	0.7987E-01				
4.000	0.4404E-01	1.917	0.1562	0.7908E-01	0.3584E-01	18.52	0.1124E-06	0.8213
5.000	0.7201E-01	2.012	0.1658	0.7807E-01	0.4197E-01	14.84	0.1062E-06	0.7057
6.000	0.1047	2.013	0.1790	0.7681E-01	0.4659E-01	12.41	0.9929E-07	0.6410
8.000	0.1775	1.840	0.2126	0.7376E-01	0.5221E-01	9.566	0.8673E-07	0.5887
10.00	0.2564	1.653	0.2537	0.7025E-01	0.5451E-01	8.082	0.7828E-07	0.5782
12.00	0.3384	1.502	0.3008	0.6651E-01	0.5491E-01	7.253	0.7294E-07	0.5878
15.00	0.4607	1.335	0.3793	0.6079E-01	0.5395E-01	6.623	0.6885E-07	0.6213
20.00	0.6350	1.150	0.5119	0.5183E-01	0.5206E-01	6.308	0.6975E-07	0.6839
25.00	0.7473	1.035	0.6186	0.4432E-01	0.5168E-01	6.365	0.7804E-07	0.7201
30.00	0.8073	0.9599	0.6918	0.3840E-01	0.5263E-01	6.567	0.9147E-07	0.7308
40.00	0.8540	0.8716	0.7737	0.3015E-01	0.5631E-01	7.123	0.1275E-06	0.7232
50.00	0.8695	0.8226	0.8160	0.2485E-01	0.6072E-01	7.735	0.1708E-06	0.7104
60.00	0.8780	0.7917	0.8424	0.2117E-01	0.6526E-01	8.354	0.2193E-06	0.7007
80.00	0.8910	0.7551	0.8754	0.1640E-01	0.7428E-01	9.559	0.3294E-06	0.6884
100.0	0.9026	0.7344	0.8966	0.1342E-01	0.8311E-01	10.71	0.4557E-06	0.6811
120.0	0.9128	0.7211	0.9118	0.1137E-01	0.9173E-01	11.63	0.5976E-06	0.6655
140.0	0.9217	0.7120	0.9233	0.9863E-02	0.1001	12.70	0.7546E-06	0.6630
160.0	0.9293	0.7053	0.9323	0.8715E-02	0.1083	13.73	0.9262E-06	0.6607
180.0	0.9358	0.7002	0.9396	0.7807E-02	0.1164	14.73	0.1112E-05	0.6587
200.0	0.9414	0.6963	0.9456	0.7070E-02	0.1242	15.69	0.1312E-05	0.6569
220.0	0.9462	0.6931	0.9507	0.6461E-02	0.1319	16.63	0.1525E-05	0.6553
240.0	0.9504	0.6905	0.9549	0.5949E-02	0.1394	17.55	0.1752E-05	0.6538
260.0	0.9540	0.6884	0.9585	0.5512E-02	0.1468	18.45	0.1991E-05	0.6525
280.0	0.9572	0.6866	0.9617	0.5135E-02	0.1540	19.33	0.2243E-05	0.6513
300.0	0.9601	0.6850	0.9644	0.4806E-02	0.1611	20.19	0.2508E-05	0.6502
350.0	0.9659	0.6820	0.9699	0.4142E-02	0.1784	22.38	0.3222E-05	0.6507
400.0	0.9704	0.6798	0.9740	0.3639E-02	0.1950	24.49	0.4009E-05	0.6513
500.0	0.9768	0.6768	0.9798	0.2928E-02	0.2267	28.52	0.5790E-05	0.6527
600.0	0.9810	0.6749	0.9836	0.2449E-02	0.2566	32.35	0.7834E-05	0.6540
700.0	0.9841	0.6736	0.9862	0.2105E-02	0.2851	36.01	0.1013E-04	0.6552
800.0	0.9863	0.6726	0.9882	0.1845E-02	0.3125	39.53	0.1266E-04	0.6564
900.0	0.9881	0.6718	0.9897	0.1643E-02	0.3389	42.94	0.1542E-04	0.6575
1000.	0.9894	0.6713	0.9909	0.1480E-02	0.3644	46.24	0.1840E-04	0.6585
1100.	0.9905	0.6708	0.9918	0.1347E-02	0.3892	49.46	0.2160E-04	0.6594
1200.	0.9915	0.6704	0.9926	0.1236E-02	0.4134	52.59	0.2500E-04	0.6603
1300.	0.9922	0.6701	0.9933	0.1141E-02	0.4369	55.66	0.2861E-04	0.6612
1400.	0.9929	0.6698	0.9938	0.1060E-02	0.4600	58.66	0.3241E-04	0.6619
1500.	0.9934	0.6696	0.9943	0.9900E-03	0.4825	61.60	0.3641E-04	0.6627

PRESSURE = 9.000 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	3.210	206.0	6.553	8.588	52.29	1.634	1.153	1.232	545.1
	4.000	204.4	5.299	9.342	53.37	1.935	1.413	1.530	548.2
	5.000	202.0	4.289	10.55	55.09	2.318	1.684	1.914	550.9
	6.000	199.1	3.626	12.01	57.21	2.702	1.938	2.317	550.0
	8.000	192.1	2.820	15.79	62.65	3.480	2.392	3.114	539.9
	10.00	183.9	2.356	20.64	69.58	4.250	2.725	3.790	525.5
	12.00	175.2	2.061	26.34	77.72	4.991	2.946	4.329	511.4
	15.00	161.7	1.786	36.00	91.66	6.025	3.140	4.927	493.6
	20.00	140.2	1.546	53.75	118.0	7.534	3.274	5.521	475.6
	25.00	121.5	1.426	72.25	146.3	8.798	3.312	5.768	470.9
	30.00	106.4	1.358	90.71	175.3	9.856	3.315	5.820	475.4
	40.00	84.52	1.282	126.6	233.1	11.52	3.292	5.722	497.7
	50.00	70.10	1.236	161.3	289.7	12.78	3.264	5.593	526.0
	60.00	59.97	1.204	195.0	345.1	13.79	3.240	5.491	555.2
	80.00	46.69	1.160	260.7	453.5	15.35	3.206	5.363	611.6
	100.0	38.32	1.131	325.2	560.0	16.54	3.185	5.294	664.0
	120.0	32.54	1.110	388.9	665.5	17.50	3.171	5.255	712.9
	140.0	28.29	1.094	452.2	770.3	18.31	3.161	5.231	758.7
	160.0	25.03	1.082	515.2	874.8	19.01	3.153	5.216	802.1
	180.0	22.45	1.072	578.0	979.0	19.62	3.148	5.207	843.3
	200.0	20.35	1.065	640.7	1083.	20.17	3.143	5.200	882.6
	220.0	18.61	1.058	703.3	1187.	20.67	3.140	5.195	920.3
	240.0	17.14	1.053	765.9	1291.	21.12	3.137	5.192	956.6
	260.0	15.89	1.049	828.4	1395.	21.53	3.135	5.190	991.6
	280.0	14.81	1.045	890.9	1498.	21.92	3.133	5.189	1025.
	300.0	13.87	1.041	953.3	1602.	22.28	3.131	5.188	1058.
	350.0	11.96	1.035	1109.	1862.	23.08	3.128	5.186	1136.
	400.0	10.52	1.030	1265.	2121.	23.77	3.126	5.186	1209.
	500.0	8.470	1.023	1577.	2639.	24.92	3.123	5.186	1344.
	600.0	7.089	1.019	1888.	3158.	25.87	3.122	5.186	1466.
	700.0	6.095	1.016	2200.	3677.	26.67	3.120	5.187	1579.
	800.0	5.345	1.013	2512.	4195.	27.36	3.120	5.188	1685.
	900.0	4.759	1.012	2823.	4714.	27.97	3.119	5.188	1784.
	1000.	4.289	1.010	3135.	5233.	28.52	3.119	5.189	1878.
	1100.	3.903	1.009	3446.	5752.	29.02	3.118	5.189	1968.
	1200.	3.581	1.008	3758.	6271.	29.47	3.118	5.190	2054.
	1300.	3.308	1.008	4069.	6790.	29.88	3.118	5.190	2136.
	1400.	3.073	1.007	4381.	7309.	30.27	3.117	5.190	2216.
	1500.	2.870	1.006	4692.	7828.	30.62	3.117	5.190	2292.

PRESSURE = 9.000 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m²/s]	PRANDTL
3.210	0.3022E-01	2.270	0.1572	0.8121E-01	0.0000			
4.000	0.4107E-01	2.017	0.1586	0.8059E-01	0.3717E-01	21.19	0.1188E-06	0.8723
5.000	0.6554E-01	2.079	0.1668	0.7964E-01	0.4370E-01	16.74	0.1130E-06	0.7331
6.000	0.9490E-01	2.065	0.1787	0.7847E-01	0.4869E-01	13.85	0.1055E-06	0.6590
8.000	0.1606	1.879	0.2093	0.7565E-01	0.5493E-01	10.51	0.9184E-07	0.5956
10.00	0.2316	1.688	0.2465	0.7238E-01	0.5770E-01	8.772	0.8278E-07	0.5762
12.00	0.3053	1.537	0.2887	0.6889E-01	0.5840E-01	7.798	0.7702E-07	0.5780
15.00	0.4155	1.370	0.3585	0.6352E-01	0.5758E-01	7.042	0.7228E-07	0.6026
20.00	0.5787	1.186	0.4786	0.5497E-01	0.5538E-01	6.619	0.7156E-07	0.6599
25.00	0.6946	1.068	0.5817	0.4760E-01	0.5446E-01	6.620	0.7767E-07	0.7012
30.00	0.7641	0.9889	0.6574	0.4160E-01	0.5494E-01	6.788	0.8874E-07	0.7191
40.00	0.8260	0.8939	0.7473	0.3300E-01	0.5810E-01	7.304	0.1201E-06	0.7194
50.00	0.8493	0.8403	0.7952	0.2733E-01	0.6229E-01	7.894	0.1589E-06	0.7089
60.00	0.8616	0.8063	0.8250	0.2337E-01	0.6671E-01	8.497	0.2026E-06	0.6994
80.00	0.8783	0.7658	0.8619	0.1817E-01	0.7557E-01	9.681	0.3018E-06	0.6870
100.0	0.8917	0.7427	0.8853	0.1491E-01	0.8428E-01	10.82	0.4154E-06	0.6797
120.0	0.9031	0.7279	0.9020	0.1265E-01	0.9278E-01	11.73	0.5426E-06	0.6643
140.0	0.9129	0.7176	0.9147	0.1099E-01	0.1011	12.79	0.6831E-06	0.6618
160.0	0.9213	0.7101	0.9246	0.9724E-02	0.1092	13.81	0.8366E-06	0.6595
180.0	0.9284	0.7045	0.9327	0.8718E-02	0.1172	14.80	0.1003E-05	0.6576
200.0	0.9346	0.7000	0.9393	0.7902E-02	0.1250	15.76	0.1181E-05	0.6558
220.0	0.9399	0.6965	0.9448	0.7226E-02	0.1326	16.69	0.1371E-05	0.6541
240.0	0.9445	0.6936	0.9495	0.6656E-02	0.1401	17.60	0.1573E-05	0.6526
260.0	0.9486	0.6911	0.9536	0.6170E-02	0.1474	18.49	0.1787E-05	0.6512
280.0	0.9521	0.6891	0.9570	0.5750E-02	0.1546	19.37	0.2012E-05	0.6500
300.0	0.9553	0.6874	0.9601	0.5383E-02	0.1617	20.22	0.2247E-05	0.6488
350.0	0.9618	0.6839	0.9662	0.4643E-02	0.1789	22.41	0.2884E-05	0.6495
400.0	0.9668	0.6814	0.9708	0.4081E-02	0.1955	24.52	0.3585E-05	0.6503
500.0	0.9739	0.6781	0.9773	0.3286E-02	0.2271	28.54	0.5171E-05	0.6517
600.0	0.9787	0.6759	0.9815	0.2750E-02	0.2570	32.37	0.6991E-05	0.6531
700.0	0.9821	0.6744	0.9845	0.2364E-02	0.2855	36.02	0.9032E-05	0.6545
800.0	0.9846	0.6733	0.9867	0.2073E-02	0.3129	39.54	0.1128E-04	0.6557
900.0	0.9866	0.6725	0.9884	0.1846E-02	0.3393	42.95	0.1374E-04	0.6568
1000.	0.9881	0.6719	0.9897	0.1663E-02	0.3648	46.25	0.1639E-04	0.6579
1100.	0.9894	0.6713	0.9908	0.1514E-02	0.3896	49.47	0.1924E-04	0.6589
1200.	0.9904	0.6709	0.9917	0.1389E-02	0.4137	52.60	0.2226E-04	0.6598
1300.	0.9912	0.6705	0.9924	0.1283E-02	0.4373	55.67	0.2547E-04	0.6607
1400.	0.9920	0.6702	0.9930	0.1192E-02	0.4603	58.67	0.2886E-04	0.6615
1500.	0.9926	0.6700	0.9936	0.1113E-02	0.4829	61.61	0.3242E-04	0.6622

PRESSURE = 10.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
M	3.407	209.0	6.760	9.368	57.20	1.664	1.213	1.303	566.1
	4.000	207.9	5.790	9.923	58.03	1.887	1.373	1.487	569.0
	5.000	205.6	4.682	11.06	59.69	2.256	1.632	1.844	572.2
	6.000	202.9	3.954	12.45	61.73	2.627	1.892	2.239	571.7
	8.000	196.3	3.065	16.07	67.01	3.381	2.365	3.029	562.0
	10.00	188.7	2.551	20.76	73.76	4.131	2.711	3.696	548.0
	12.00	180.5	2.223	26.30	81.71	4.854	2.942	4.226	534.1
	15.00	167.8	1.913	35.71	95.32	5.864	3.145	4.815	516.4
	20.00	147.2	1.635	53.13	121.1	7.341	3.286	5.413	497.6
	25.00	129.0	1.493	71.41	148.9	8.583	3.326	5.691	491.0
	30.00	113.8	1.410	89.78	177.6	9.631	3.329	5.777	493.3
	40.00	91.33	1.318	125.8	235.3	11.29	3.305	5.721	512.2
	50.00	76.14	1.265	160.6	291.9	12.55	3.276	5.605	538.4
	60.00	65.36	1.228	194.4	347.4	13.57	3.251	5.506	566.3
	80.00	51.09	1.178	260.4	456.1	15.13	3.215	5.376	620.9
	100.0	42.05	1.145	325.0	562.8	16.32	3.192	5.303	672.3
	120.0	35.77	1.122	388.8	668.4	17.28	3.176	5.261	720.4
	140.0	31.14	1.104	452.2	773.4	18.09	3.165	5.235	765.6
	160.0	27.58	1.091	515.3	877.9	18.79	3.157	5.219	808.5
	180.0	24.75	1.080	578.2	982.2	19.40	3.151	5.208	849.2
	200.0	22.46	1.072	641.0	1086.	19.95	3.146	5.201	888.2
	220.0	20.55	1.065	703.6	1190.	20.45	3.142	5.196	925.6
	240.0	18.94	1.059	766.2	1294.	20.90	3.139	5.193	961.6
	260.0	17.57	1.054	828.7	1398.	21.32	3.137	5.190	996.4
	280.0	16.38	1.050	891.2	1502.	21.70	3.135	5.188	1030.
	300.0	15.34	1.046	953.6	1605.	22.06	3.133	5.187	1063.
	350.0	13.24	1.039	1110.	1865.	22.86	3.130	5.185	1140.
	400.0	11.65	1.033	1266.	2124.	23.55	3.127	5.185	1213.
	500.0	9.387	1.026	1577.	2643.	24.71	3.124	5.185	1347.
	600.0	7.860	1.021	1889.	3161.	25.65	3.122	5.186	1469.
	700.0	6.760	1.017	2200.	3680.	26.45	3.121	5.186	1582.
	800.0	5.930	1.015	2512.	4198.	27.14	3.120	5.187	1687.
	900.0	5.281	1.013	2823.	4717.	27.76	3.119	5.188	1786.
	1000.	4.760	1.011	3135.	5236.	28.30	3.119	5.188	1880.
	1100.	4.332	1.010	3446.	5755.	28.80	3.118	5.189	1970.
	1200.	3.975	1.009	3758.	6274.	29.25	3.118	5.189	2056.
	1300.	3.672	1.008	4069.	6793.	29.66	3.118	5.189	2138.
	1400.	3.412	1.008	4381.	7312.	30.05	3.118	5.190	2217.
	1500.	3.187	1.007	4692.	7831.	30.41	3.117	5.190	2294.

PRESSURE = 10.00 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_v$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
3.407	0.3217E-01	2.322	0.1604	0.8245E-01				
4.000	0.3911E-01	2.129	0.1609	0.8198E-01	0.3844E-01	24.11	0.1243E-06	0.9326
5.000	0.6041E-01	2.146	0.1678	0.8108E-01	0.4535E-01	18.77	0.1196E-06	0.7633
6.000	0.8690E-01	2.114	0.1785	0.7999E-01	0.5069E-01	15.37	0.1116E-06	0.6789
8.000	0.1468	1.913	0.2066	0.7735E-01	0.5754E-01	11.48	0.9677E-07	0.6043
10.00	0.2115	1.719	0.2406	0.7430E-01	0.6076E-01	9.479	0.8712E-07	0.5766
12.00	0.2786	1.567	0.2790	0.7102E-01	0.6176E-01	8.352	0.8097E-07	0.5715
15.00	0.3793	1.401	0.3422	0.6594E-01	0.6113E-01	7.463	0.7568E-07	0.5878
20.00	0.5320	1.217	0.4519	0.5777E-01	0.5872E-01	6.928	0.7368E-07	0.6387
25.00	0.6478	1.098	0.5501	0.5055E-01	0.5730E-01	6.872	0.7805E-07	0.6825
30.00	0.7236	1.016	0.6265	0.4454E-01	0.5731E-01	7.006	0.8717E-07	0.7062
40.00	0.7983	0.9153	0.7223	0.3567E-01	0.5990E-01	7.483	0.1147E-06	0.7147
50.00	0.8290	0.8576	0.7751	0.2971E-01	0.6383E-01	8.051	0.1496E-06	0.7069
60.00	0.8454	0.8206	0.8081	0.2548E-01	0.6812E-01	8.638	0.1893E-06	0.6982
80.00	0.8658	0.7763	0.8488	0.1989E-01	0.7683E-01	9.802	0.2797E-06	0.6858
100.0	0.8810	0.7509	0.8743	0.1636E-01	0.8542E-01	10.93	0.3831E-06	0.6783
120.0	0.8937	0.7346	0.8925	0.1391E-01	0.9382E-01	11.82	0.4986E-06	0.6630
140.0	0.9043	0.7233	0.9062	0.1210E-01	0.1020	12.88	0.6260E-06	0.6606
160.0	0.9134	0.7150	0.9171	0.1072E-01	0.1101	13.89	0.7649E-06	0.6584
180.0	0.9212	0.7087	0.9258	0.9617E-02	0.1180	14.87	0.9151E-06	0.6564
200.0	0.9279	0.7038	0.9331	0.8723E-02	0.1257	15.82	0.1076E-05	0.6546
220.0	0.9337	0.6998	0.9391	0.7981E-02	0.1333	16.75	0.1248E-05	0.6529
240.0	0.9388	0.6966	0.9442	0.7356E-02	0.1407	17.65	0.1431E-05	0.6514
260.0	0.9432	0.6939	0.9487	0.6821E-02	0.1480	18.54	0.1623E-05	0.6500
280.0	0.9471	0.6916	0.9525	0.6359E-02	0.1552	19.41	0.1826E-05	0.6487
300.0	0.9506	0.6897	0.9558	0.5956E-02	0.1623	20.26	0.2039E-05	0.6475
350.0	0.9577	0.6859	0.9626	0.5140E-02	0.1794	22.44	0.2613E-05	0.6484
400.0	0.9632	0.6831	0.9676	0.4521E-02	0.1960	24.54	0.3245E-05	0.6492
500.0	0.9711	0.6794	0.9748	0.3642E-02	0.2276	28.56	0.4675E-05	0.6508
600.0	0.9763	0.6770	0.9795	0.3050E-02	0.2574	32.38	0.6315E-05	0.6524
700.0	0.9801	0.6753	0.9828	0.2622E-02	0.2859	36.04	0.8155E-05	0.6538
800.0	0.9829	0.6741	0.9852	0.2300E-02	0.3132	39.56	0.1018E-04	0.6550
900.0	0.9851	0.6732	0.9871	0.2048E-02	0.3396	42.96	0.1240E-04	0.6562
1000.	0.9868	0.6724	0.9886	0.1846E-02	0.3651	46.26	0.1479E-04	0.6573
1100.	0.9882	0.6719	0.9898	0.1680E-02	0.3899	49.48	0.1735E-04	0.6583
1200.	0.9893	0.6714	0.9908	0.1542E-02	0.4141	52.61	0.2007E-04	0.6593
1300.	0.9903	0.6710	0.9916	0.1424E-02	0.4376	55.67	0.2296E-04	0.6602
1400.	0.9911	0.6706	0.9923	0.1323E-02	0.4607	58.67	0.2601E-04	0.6610
1500.	0.9918	0.6703	0.9929	0.1236E-02	0.4832	61.61	0.2922E-04	0.6618

PRESSURE = 12.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	3.785	214.6	7.113	10.92	66.84	1.718	1.296	1.410	605.7
	4.000	214.2	6.744	11.11	67.14	1.797	1.329	1.448	607.0
	5.000	212.1	5.449	12.13	68.72	2.148	1.548	1.735	611.3
	6.000	209.6	4.593	13.40	70.64	2.497	1.812	2.111	611.2
	8.000	203.8	3.544	16.76	75.65	3.212	2.313	2.885	602.2
	10.00	197.0	2.933	21.18	82.10	3.929	2.684	3.542	588.8
	12.00	189.6	2.539	26.45	89.73	4.622	2.933	4.061	575.3
	15.00	178.2	2.162	35.47	102.8	5.594	3.152	4.637	557.9
	20.00	159.3	1.814	52.30	127.7	7.019	3.307	5.235	538.1
	25.00	142.0	1.628	70.18	154.7	8.225	3.352	5.548	528.8
	30.00	127.0	1.517	88.34	182.8	9.250	3.356	5.684	527.8
	40.00	103.8	1.392	124.3	239.9	10.89	3.331	5.702	540.8
	50.00	87.40	1.322	159.3	296.6	12.16	3.299	5.617	563.0
	60.00	75.52	1.275	193.4	352.3	13.17	3.271	5.527	588.2
	80.00	59.51	1.213	259.8	461.4	14.74	3.231	5.397	639.5
	100.0	49.22	1.174	324.7	568.5	15.94	3.204	5.319	688.7
	120.0	42.02	1.146	388.8	674.4	16.90	3.186	5.272	735.3
	140.0	36.68	1.125	452.3	779.5	17.71	3.174	5.243	779.3
	160.0	32.56	1.109	515.6	884.2	18.41	3.164	5.224	821.2
	180.0	29.27	1.096	578.6	988.5	19.03	3.157	5.212	861.2
	200.0	26.59	1.086	641.4	1093.	19.58	3.152	5.203	899.4
	220.0	24.36	1.078	704.1	1197.	20.07	3.147	5.197	936.2
	240.0	22.48	1.071	766.8	1301.	20.52	3.144	5.193	971.7
	260.0	20.87	1.065	829.3	1404.	20.94	3.141	5.190	1006.
	280.0	19.47	1.060	891.8	1508.	21.32	3.138	5.188	1039.
	300.0	18.25	1.055	954.3	1612.	21.68	3.136	5.186	1071.
	350.0	15.77	1.046	1110.	1871.	22.48	3.132	5.184	1148.
	400.0	13.89	1.040	1266.	2130.	23.17	3.129	5.183	1220.
	500.0	11.21	1.031	1578.	2649.	24.33	3.126	5.184	1353.
	600.0	9.394	1.025	1890.	3167.	25.28	3.123	5.184	1474.
	700.0	8.084	1.021	2201.	3686.	26.07	3.122	5.185	1587.
	800.0	7.095	1.018	2513.	4204.	26.77	3.121	5.186	1692.
	900.0	6.321	1.016	2824.	4723.	27.38	3.120	5.187	1791.
	1000.	5.699	1.014	3136.	5241.	27.92	3.119	5.187	1884.
	1100.	5.188	1.012	3447.	5760.	28.42	3.119	5.188	1974.
	1200.	4.761	1.011	3759.	6279.	28.87	3.119	5.188	2059.
	1300.	4.399	1.010	4070.	6798.	29.29	3.118	5.189	2141.
	1400.	4.088	1.009	4382.	7317.	29.67	3.118	5.189	2220.
	1500.	3.819	1.009	4693.	7836.	30.03	3.118	5.189	2297.

PRESSURE = 12.00 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_v$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
3.785	0.3588E-01	2.466	0.1659	0.8468E-01	0.3897E-01	33.04	0.1288E-06	1.196
4.000	0.3754E-01	2.388	0.1657	0.8450E-01	0.4085E-01	30.81	0.1317E-06	1.092
5.000	0.5306E-01	2.285	0.1698	0.8366E-01	0.4848E-01	23.31	0.1317E-06	0.8344
6.000	0.7476E-01	2.206	0.1785	0.8268E-01	0.5447E-01	18.69	0.1231E-06	0.7240
8.000	0.1255	1.971	0.2025	0.8034E-01	0.6246E-01	13.55	0.1062E-06	0.6261
10.00	0.1807	1.769	0.2319	0.7762E-01	0.6657E-01	10.95	0.9540E-07	0.5829
12.00	0.2380	1.617	0.2647	0.7468E-01	0.6818E-01	9.490	0.8853E-07	0.5653
15.00	0.3244	1.452	0.3183	0.7009E-01	0.6802E-01	8.315	0.8233E-07	0.5669
20.00	0.4592	1.270	0.4120	0.6256E-01	0.6540E-01	7.544	0.7844E-07	0.6039
25.00	0.5700	1.149	0.5003	0.5569E-01	0.6315E-01	7.369	0.8019E-07	0.6473
30.00	0.6515	1.065	0.5745	0.4975E-01	0.6227E-01	7.434	0.8627E-07	0.6786
40.00	0.7450	0.9555	0.6768	0.4057E-01	0.6359E-01	7.833	0.1075E-06	0.7023
50.00	0.7889	0.8906	0.7374	0.3413E-01	0.6690E-01	8.356	0.1363E-06	0.7015
60.00	0.8131	0.8483	0.7761	0.2946E-01	0.7087E-01	8.914	0.1698E-06	0.6952
80.00	0.8414	0.7969	0.8237	0.2319E-01	0.7926E-01	10.04	0.2468E-06	0.6835
100.0	0.8603	0.7672	0.8532	0.1916E-01	0.8763E-01	11.13	0.3347E-06	0.6759
120.0	0.8753	0.7479	0.8741	0.1635E-01	0.9585E-01	12.01	0.4326E-06	0.6607
140.0	0.8877	0.7345	0.8899	0.1426E-01	0.1039	13.04	0.5403E-06	0.6582
160.0	0.8983	0.7247	0.9024	0.1266E-01	0.1118	14.04	0.6574E-06	0.6561
180.0	0.9072	0.7172	0.9125	0.1138E-01	0.1196	15.01	0.7838E-06	0.6541
200.0	0.9150	0.7113	0.9209	0.1033E-01	0.1272	15.95	0.9192E-06	0.6523
220.0	0.9217	0.7066	0.9279	0.9465E-02	0.1347	16.86	0.1064E-05	0.6507
240.0	0.9276	0.7027	0.9339	0.8732E-02	0.1420	17.75	0.1217E-05	0.6491
260.0	0.9327	0.6995	0.9390	0.8104E-02	0.1493	18.62	0.1378E-05	0.6476
280.0	0.9373	0.6967	0.9435	0.7561E-02	0.1564	19.48	0.1548E-05	0.6462
300.0	0.9413	0.6944	0.9474	0.7086E-02	0.1634	20.32	0.1726E-05	0.6449
350.0	0.9497	0.6898	0.9553	0.6123E-02	0.1804	22.49	0.2207E-05	0.6461
400.0	0.9561	0.6865	0.9613	0.5391E-02	0.1969	24.59	0.2735E-05	0.6472
500.0	0.9654	0.6820	0.9698	0.4350E-02	0.2284	28.60	0.3931E-05	0.6492
600.0	0.9717	0.6791	0.9754	0.3645E-02	0.2582	32.42	0.5301E-05	0.6509
700.0	0.9762	0.6771	0.9793	0.3136E-02	0.2866	36.07	0.6838E-05	0.6525
800.0	0.9795	0.6756	0.9823	0.2752E-02	0.3139	39.58	0.8533E-05	0.6539
900.0	0.9821	0.6745	0.9845	0.2452E-02	0.3403	42.98	0.1038E-04	0.6551
1000.	0.9842	0.6736	0.9863	0.2210E-02	0.3658	46.28	0.1238E-04	0.6563
1100.	0.9858	0.6729	0.9877	0.2012E-02	0.3906	49.49	0.1451E-04	0.6574
1200.	0.9872	0.6723	0.9889	0.1847E-02	0.4147	52.63	0.1679E-04	0.6584
1300.	0.9883	0.6718	0.9899	0.1706E-02	0.4383	55.69	0.1920E-04	0.6593
1400.	0.9893	0.6714	0.9907	0.1586E-02	0.4613	58.69	0.2174E-04	0.6602
1500.	0.9901	0.6711	0.9914	0.1481E-02	0.4838	61.63	0.2442E-04	0.6610

PRESSURE = 14.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	4.146	219.5	7.406	12.44	76.23	1.762	1.346	1.484	642.2
	5.000	217.7	6.191	13.25	77.56	2.054	1.488	1.664	646.1
	6.000	215.5	5.213	14.42	79.39	2.387	1.746	2.011	646.5
	8.000	210.2	4.008	17.57	84.18	3.070	2.267	2.769	638.2
	10.00	204.1	3.303	21.78	90.39	3.760	2.659	3.418	625.3
	12.00	197.4	2.846	26.83	97.76	4.431	2.922	3.931	612.2
	15.00	186.9	2.404	35.54	110.5	5.373	3.157	4.498	595.0
	20.00	169.3	1.990	51.89	134.6	6.756	3.325	5.094	574.6
	25.00	152.9	1.763	69.40	161.0	7.933	3.375	5.425	563.7
	30.00	138.3	1.625	87.32	188.6	8.938	3.381	5.592	560.4
	40.00	114.8	1.468	123.1	245.1	10.56	3.354	5.669	568.7
	50.00	97.67	1.380	158.2	301.5	11.82	3.320	5.616	587.2
	60.00	84.92	1.323	192.5	357.3	12.84	3.290	5.540	609.8
	80.00	67.45	1.249	259.2	466.8	14.42	3.246	5.414	657.8
	100.0	56.05	1.202	324.4	574.2	15.61	3.216	5.333	705.0
	120.0	48.01	1.170	388.7	680.3	16.58	3.196	5.283	750.1
	140.0	42.02	1.146	452.5	785.6	17.39	3.182	5.251	792.9
	160.0	37.37	1.127	515.8	890.4	18.09	3.172	5.230	833.9
	180.0	33.66	1.112	578.9	994.8	18.71	3.164	5.215	873.0
	200.0	30.62	1.101	641.8	1099.	19.26	3.157	5.205	910.6
	220.0	28.09	1.091	704.6	1203.	19.75	3.152	5.198	946.8
	240.0	25.94	1.083	767.3	1307.	20.21	3.148	5.194	981.8
	260.0	24.10	1.076	829.9	1411.	20.62	3.145	5.190	1016.
	280.0	22.50	1.070	892.5	1515.	21.01	3.142	5.187	1048.
	300.0	21.10	1.064	955.0	1618.	21.36	3.139	5.186	1080.
	350.0	18.27	1.054	1111.	1878.	22.16	3.135	5.183	1156.
	400.0	16.10	1.047	1267.	2137.	22.86	3.132	5.182	1227.
	500.0	13.01	1.036	1579.	2655.	24.01	3.127	5.182	1359.
	600.0	10.91	1.029	1890.	3173.	24.96	3.125	5.183	1480.
	700.0	9.399	1.024	2202.	3691.	25.76	3.123	5.184	1592.
	800.0	8.253	1.021	2513.	4210.	26.45	3.122	5.185	1696.
	900.0	7.355	1.018	2825.	4728.	27.06	3.121	5.186	1795.
	1000.	6.633	1.016	3136.	5247.	27.60	3.120	5.186	1888.
	1100.	6.040	1.014	3448.	5766.	28.10	3.119	5.187	1977.
	1200.	5.544	1.013	3759.	6284.	28.55	3.119	5.188	2063.
	1300.	5.124	1.012	4071.	6803.	28.97	3.119	5.188	2145.
	1400.	4.762	1.011	4382.	7322.	29.35	3.118	5.188	2224.
	1500.	4.449	1.010	4694.	7841.	29.71	3.118	5.189	2300.

PRESSURE = 14.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
4.146	0.3913E-01	2.623	0.1706	0.8664E-01	0.4445E-01	36.98	0.1365E-06	1.234
5.000	0.4851E-01	2.434	0.1722	0.8593E-01	0.5141E-01	28.55	0.1419E-06	0.9240
6.000	0.6619E-01	2.293	0.1790	0.8503E-01	0.5802E-01	22.42	0.1339E-06	0.7771
8.000	0.1098	2.018	0.1998	0.8291E-01	0.6707E-01	15.80	0.1152E-06	0.6525
10.00	0.1581	1.808	0.2256	0.8045E-01	0.7203E-01	12.52	0.1033E-06	0.5941
12.00	0.2083	1.656	0.2545	0.7777E-01	0.7427E-01	10.68	0.9573E-07	0.5651
15.00	0.2845	1.493	0.3015	0.7357E-01	0.7464E-01	9.188	0.8880E-07	0.5537
20.00	0.4053	1.313	0.3838	0.6656E-01	0.7204E-01	8.161	0.8352E-07	0.5771
25.00	0.5092	1.193	0.4632	0.6003E-01	0.6918E-01	7.861	0.8340E-07	0.6165
30.00	0.5912	1.107	0.5333	0.5423E-01	0.6747E-01	7.853	0.8725E-07	0.6509
40.00	0.6958	0.9921	0.6373	0.4494E-01	0.6746E-01	8.174	0.1036E-06	0.6869
50.00	0.7505	0.9216	0.7032	0.3817E-01	0.7002E-01	8.654	0.1276E-06	0.6941
60.00	0.7819	0.8747	0.7465	0.3316E-01	0.7359E-01	9.182	0.1564E-06	0.6912
80.00	0.8178	0.8170	0.8001	0.2630E-01	0.8159E-01	10.27	0.2234E-06	0.6812
100.0	0.8404	0.7832	0.8333	0.2183E-01	0.8975E-01	11.34	0.3002E-06	0.6737
120.0	0.8577	0.7611	0.8567	0.1869E-01	0.9780E-01	12.19	0.3856E-06	0.6586
140.0	0.8718	0.7457	0.8743	0.1635E-01	0.1057	13.21	0.4791E-06	0.6561
160.0	0.8837	0.7343	0.8883	0.1453E-01	0.1135	14.19	0.5807E-06	0.6539
180.0	0.8938	0.7257	0.8996	0.1309E-01	0.1211	15.14	0.6900E-06	0.6519
200.0	0.9025	0.7188	0.9090	0.1190E-01	0.1286	16.07	0.8071E-06	0.6501
220.0	0.9100	0.7133	0.9170	0.1091E-01	0.1360	16.97	0.9317E-06	0.6484
240.0	0.9166	0.7088	0.9237	0.1008E-01	0.1433	17.85	0.1064E-05	0.6468
260.0	0.9225	0.7051	0.9296	0.9362E-02	0.1505	18.71	0.1203E-05	0.6453
280.0	0.9276	0.7019	0.9347	0.8741E-02	0.1575	19.55	0.1349E-05	0.6439
300.0	0.9322	0.6991	0.9391	0.8197E-02	0.1645	20.38	0.1503E-05	0.6425
350.0	0.9417	0.6938	0.9482	0.7093E-02	0.1814	22.54	0.1916E-05	0.6440
400.0	0.9491	0.6899	0.9551	0.6250E-02	0.1978	24.63	0.2371E-05	0.6454
500.0	0.9598	0.6846	0.9648	0.5050E-02	0.2291	28.64	0.3399E-05	0.6477
600.0	0.9671	0.6812	0.9713	0.4235E-02	0.2589	32.45	0.4576E-05	0.6496
700.0	0.9723	0.6788	0.9759	0.3647E-02	0.2873	36.10	0.5896E-05	0.6513
800.0	0.9761	0.6771	0.9793	0.3202E-02	0.3146	39.61	0.7352E-05	0.6528
900.0	0.9791	0.6758	0.9819	0.2853E-02	0.3409	43.00	0.8939E-05	0.6541
1000.	0.9815	0.6748	0.9840	0.2573E-02	0.3664	46.30	0.1065E-04	0.6554
1100.	0.9835	0.6740	0.9857	0.2343E-02	0.3912	49.51	0.1249E-04	0.6565
1200.	0.9850	0.6733	0.9870	0.2151E-02	0.4153	52.64	0.1444E-04	0.6575
1300.	0.9864	0.6727	0.9882	0.1987E-02	0.4389	55.70	0.1651E-04	0.6585
1400.	0.9875	0.6722	0.9891	0.1847E-02	0.4619	58.70	0.1869E-04	0.6594
1500.	0.9885	0.6718	0.9900	0.1725E-02	0.4844	61.64	0.2099E-04	0.6603

PRESSURE = 16.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	4.494	223.9	7.657	13.94	85.41	1.800	1.386	1.546	675.4
	5.000	222.8	6.914	14.40	86.21	1.968	1.454	1.628	677.6
	6.000	220.7	5.817	15.49	87.98	2.290	1.694	1.936	678.4
	8.000	215.8	4.461	18.46	92.59	2.949	2.225	2.673	670.7
	10.00	210.2	3.664	22.49	98.60	3.616	2.634	3.315	658.4
	12.00	204.1	3.145	27.37	105.8	4.268	2.912	3.823	645.7
	15.00	194.4	2.642	35.81	118.1	5.185	3.161	4.385	628.7
	20.00	178.0	2.164	51.76	141.7	6.536	3.340	4.979	607.9
	25.00	162.3	1.898	68.94	167.5	7.687	3.395	5.320	596.0
	30.00	148.2	1.733	86.63	194.6	8.675	3.403	5.508	591.0
	40.00	124.7	1.544	122.2	250.5	10.28	3.376	5.630	595.5
	50.00	107.1	1.439	157.3	306.8	11.54	3.340	5.607	610.9
	60.00	93.65	1.371	191.7	362.5	12.55	3.307	5.546	631.1
	80.00	74.95	1.285	258.7	472.2	14.13	3.260	5.427	675.9
	100.0	62.57	1.231	324.2	579.9	15.33	3.228	5.346	721.1
	120.0	53.77	1.194	388.7	686.2	16.30	3.206	5.293	764.7
	140.0	47.18	1.166	452.6	791.7	17.12	3.190	5.258	806.5
	160.0	42.04	1.145	516.1	896.6	17.82	3.178	5.235	846.5
	180.0	37.93	1.128	579.3	1001.	18.43	3.170	5.219	884.8
	200.0	34.55	1.115	642.3	1105.	18.98	3.162	5.208	921.8
	220.0	31.72	1.104	705.1	1209.	19.48	3.157	5.200	957.4
	240.0	29.33	1.094	767.9	1313.	19.93	3.152	5.194	991.8
	260.0	27.27	1.086	830.5	1417.	20.35	3.148	5.190	1025.
	280.0	25.48	1.080	893.1	1521.	20.73	3.145	5.187	1057.
	300.0	23.91	1.074	955.6	1625.	21.09	3.143	5.185	1089.
	350.0	20.72	1.062	1112.	1884.	21.89	3.137	5.182	1164.
	400.0	18.28	1.053	1268.	2143.	22.58	3.134	5.181	1235.
	500.0	14.79	1.041	1580.	2661.	23.74	3.129	5.181	1366.
	600.0	12.42	1.033	1891.	3179.	24.68	3.126	5.182	1486.
	700.0	10.70	1.028	2203.	3697.	25.48	3.124	5.183	1597.
	800.0	9.404	1.024	2514.	4216.	26.17	3.122	5.184	1701.
	900.0	8.384	1.021	2826.	4734.	26.78	3.121	5.185	1799.
	1000.	7.563	1.018	3137.	5253.	27.33	3.121	5.185	1892.
	1100.	6.889	1.016	3449.	5771.	27.82	3.120	5.186	1981.
	1200.	6.325	1.015	3760.	6290.	28.27	3.119	5.187	2066.
	1300.	5.846	1.014	4072.	6809.	28.69	3.119	5.187	2148.
	1400.	5.434	1.012	4383.	7327.	29.07	3.119	5.188	2227.
	1500.	5.077	1.011	4695.	7846.	29.43	3.118	5.188	2303.

PRESSURE = 16.00 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_v$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
4.494	0.4193E-01	2.753	0.1748	0.8840E-01	0.4994E-01	40.66	0.1443E-06	1.259
5.000	0.4604E-01	2.597	0.1751	0.8798E-01	0.5421E-01	34.63	0.1494E-06	1.040
6.000	0.6007E-01	2.381	0.1800	0.8713E-01	0.6138E-01	26.63	0.1437E-06	0.8398
8.000	0.9781E-01	2.058	0.1979	0.8518E-01	0.7144E-01	18.26	0.1238E-06	0.6829
10.00	0.1406	1.839	0.2210	0.8292E-01	0.7721E-01	14.18	0.1108E-06	0.6089
12.00	0.1855	1.686	0.2468	0.8047E-01	0.8008E-01	11.92	0.1026E-06	0.5691
15.00	0.2539	1.526	0.2889	0.7658E-01	0.8103E-01	10.09	0.9507E-07	0.5457
20.00	0.3636	1.349	0.3626	0.7001E-01	0.7861E-01	8.783	0.8872E-07	0.5563
25.00	0.4608	1.231	0.4348	0.6379E-01	0.7530E-01	8.351	0.8719E-07	0.5900
30.00	0.5410	1.144	0.5004	0.5815E-01	0.7289E-01	8.268	0.8932E-07	0.6248
40.00	0.6513	1.026	0.6033	0.4886E-01	0.7154E-01	8.508	0.1019E-06	0.6696
50.00	0.7142	0.9507	0.6723	0.4188E-01	0.7324E-01	8.944	0.1220E-06	0.6848
60.00	0.7519	0.9000	0.7192	0.3659E-01	0.7633E-01	9.443	0.1470E-06	0.6861
80.00	0.7950	0.8365	0.7780	0.2924E-01	0.8387E-01	10.49	0.2062E-06	0.6788
100.0	0.8214	0.7989	0.8145	0.2439E-01	0.9180E-01	11.53	0.2744E-06	0.6716
120.0	0.8409	0.7742	0.8401	0.2094E-01	0.9970E-01	12.37	0.3503E-06	0.6567
140.0	0.8565	0.7568	0.8594	0.1836E-01	0.1075	13.37	0.4333E-06	0.6540
160.0	0.8696	0.7439	0.8748	0.1636E-01	0.1151	14.34	0.5231E-06	0.6518
180.0	0.8808	0.7341	0.8872	0.1475E-01	0.1227	15.27	0.6197E-06	0.6498
200.0	0.8904	0.7263	0.8976	0.1343E-01	0.1301	16.19	0.7230E-06	0.6480
220.0	0.8987	0.7201	0.9064	0.1233E-01	0.1374	17.07	0.8328E-06	0.6463
240.0	0.9061	0.7149	0.9139	0.1140E-01	0.1446	17.94	0.9490E-06	0.6446
260.0	0.9125	0.7106	0.9204	0.1060E-01	0.1517	18.79	0.1072E-05	0.6431
280.0	0.9182	0.7070	0.9260	0.9900E-02	0.1586	19.62	0.1200E-05	0.6416
300.0	0.9234	0.7039	0.9310	0.9289E-02	0.1655	20.44	0.1335E-05	0.6401
350.0	0.9340	0.6978	0.9412	0.8048E-02	0.1824	22.59	0.1698E-05	0.6420
400.0	0.9423	0.6933	0.9489	0.7099E-02	0.1987	24.68	0.2097E-05	0.6436
500.0	0.9543	0.6872	0.9599	0.5743E-02	0.2299	28.68	0.2999E-05	0.6463
600.0	0.9625	0.6833	0.9673	0.4821E-02	0.2596	32.48	0.4032E-05	0.6484
700.0	0.9684	0.6806	0.9725	0.4154E-02	0.2879	36.12	0.5190E-05	0.6502
800.0	0.9728	0.6787	0.9763	0.3649E-02	0.3152	39.63	0.6466E-05	0.6518
900.0	0.9762	0.6772	0.9793	0.3253E-02	0.3415	43.03	0.7856E-05	0.6532
1000.	0.9789	0.6760	0.9817	0.2934E-02	0.3670	46.32	0.9357E-05	0.6545
1100.	0.9811	0.6750	0.9836	0.2672E-02	0.3917	49.53	0.1096E-04	0.6557
1200.	0.9829	0.6743	0.9852	0.2453E-02	0.4159	52.66	0.1268E-04	0.6568
1300.	0.9844	0.6736	0.9865	0.2268E-02	0.4394	55.72	0.1449E-04	0.6578
1400.	0.9857	0.6731	0.9876	0.2108E-02	0.4624	58.72	0.1640E-04	0.6587
1500.	0.9868	0.6726	0.9885	0.1969E-02	0.4850	61.66	0.1841E-04	0.6596

PRESSURE = 18.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
M	4.827	227.9	7.878	15.41	94.41	1.830	1.429	1.609	705.7
	5.000	227.5	7.618	15.57	94.69	1.887	1.447	1.629	706.4
	6.000	225.4	6.406	16.59	96.43	2.204	1.655	1.883	707.5
	8.000	220.9	4.903	19.42	100.9	2.842	2.187	2.592	700.5
	10.00	215.7	4.017	23.30	106.7	3.491	2.610	3.227	688.8
	12.00	210.0	3.438	28.02	113.7	4.126	2.900	3.731	676.5
	15.00	201.0	2.874	36.24	125.8	5.022	3.162	4.289	659.7
	20.00	185.5	2.335	51.85	148.9	6.345	3.354	4.882	638.8
	25.00	170.6	2.031	68.73	174.2	7.475	3.413	5.230	626.0
	30.00	156.9	1.841	86.20	200.9	8.448	3.423	5.431	619.9
	40.00	133.7	1.621	121.6	256.2	10.04	3.396	5.589	621.4
	50.00	115.7	1.498	156.6	312.2	11.29	3.358	5.592	634.0
	60.00	101.8	1.419	191.1	367.9	12.30	3.324	5.546	652.0
	80.00	82.04	1.320	258.3	477.7	13.88	3.273	5.438	693.8
	100.0	68.80	1.259	324.0	585.6	15.09	3.239	5.356	737.0
	120.0	59.31	1.217	388.7	692.1	16.06	3.215	5.302	779.2
	140.0	52.16	1.187	452.7	797.8	16.87	3.198	5.265	819.8
	160.0	46.57	1.163	516.3	902.8	17.57	3.185	5.240	859.0
	180.0	42.07	1.144	579.6	1007.	18.19	3.175	5.222	896.6
	200.0	38.37	1.129	642.7	1112.	18.74	3.168	5.210	932.9
	220.0	35.28	1.117	705.6	1216.	19.24	3.161	5.201	967.9
	240.0	32.64	1.106	768.4	1320.	19.69	3.156	5.195	1002.
	260.0	30.38	1.097	831.1	1424.	20.10	3.152	5.190	1035.
	280.0	28.40	1.090	893.7	1527.	20.49	3.149	5.187	1067.
	300.0	26.67	1.083	956.3	1631.	20.85	3.146	5.185	1098.
	350.0	23.14	1.070	1112.	1890.	21.65	3.140	5.181	1172.
	400.0	20.44	1.060	1269.	2149.	22.34	3.136	5.180	1242.
	500.0	16.56	1.046	1580.	2667.	23.49	3.130	5.179	1372.
	600.0	13.92	1.038	1892.	3185.	24.44	3.127	5.180	1491.
	700.0	12.00	1.031	2203.	3703.	25.24	3.125	5.181	1602.
	800.0	10.55	1.027	2515.	4221.	25.93	3.123	5.183	1706.
	900.0	9.408	1.023	2826.	4740.	26.54	3.122	5.184	1803.
	1000.	8.489	1.021	3138.	5258.	27.08	3.121	5.185	1896.
	1100.	7.734	1.019	3449.	5777.	27.58	3.120	5.185	1985.
	1200.	7.102	1.017	3761.	6295.	28.03	3.120	5.186	2070.
	1300.	6.565	1.015	4072.	6814.	28.44	3.119	5.187	2152.
	1400.	6.104	1.014	4384.	7333.	28.83	3.119	5.187	2230.
	1500.	5.703	1.013	4695.	7851.	29.19	3.119	5.188	2306.

PRESSURE = 18.00 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_v$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
4.827	0.4433E-01	2.842	0.1786	0.9001E-01	0.5541E-01	44.15	0.1511E-06	1.282
5.000	0.4526E-01	2.774	0.1785	0.8987E-01	0.5692E-01	41.70	0.1536E-06	1.193
6.000	0.5578E-01	2.471	0.1815	0.8904E-01	0.6461E-01	31.39	0.1522E-06	0.9147
8.000	0.8845E-01	2.093	0.1968	0.8722E-01	0.7561E-01	20.93	0.1321E-06	0.7173
10.00	0.1268	1.864	0.2175	0.8513E-01	0.8217E-01	15.96	0.1180E-06	0.6267
12.00	0.1674	1.711	0.2409	0.8285E-01	0.8565E-01	13.23	0.1093E-06	0.5761
15.00	0.2295	1.553	0.2791	0.7922E-01	0.8722E-01	11.01	0.1012E-06	0.5415
20.00	0.3303	1.380	0.3461	0.7304E-01	0.8511E-01	9.414	0.9395E-07	0.5400
25.00	0.4214	1.263	0.4124	0.6709E-01	0.8148E-01	8.840	0.9130E-07	0.5674
30.00	0.4989	1.176	0.4738	0.6162E-01	0.7846E-01	8.679	0.9207E-07	0.6008
40.00	0.6115	1.056	0.5740	0.5240E-01	0.7582E-01	8.836	0.1015E-06	0.6513
50.00	0.6804	0.9780	0.6447	0.4528E-01	0.7660E-01	9.228	0.1184E-06	0.6738
60.00	0.7233	0.9240	0.6941	0.3979E-01	0.7912E-01	9.699	0.1402E-06	0.6798
80.00	0.7731	0.8555	0.7573	0.3202E-01	0.8612E-01	10.71	0.1931E-06	0.6761
100.0	0.8030	0.8143	0.7966	0.2683E-01	0.9381E-01	11.73	0.2545E-06	0.6695
120.0	0.8247	0.7870	0.8243	0.2311E-01	0.1015	12.54	0.3229E-06	0.6548
140.0	0.8419	0.7677	0.8452	0.2031E-01	0.1092	13.52	0.3976E-06	0.6520
160.0	0.8562	0.7535	0.8618	0.1813E-01	0.1167	14.48	0.4784E-06	0.6498
180.0	0.8683	0.7425	0.8753	0.1637E-01	0.1242	15.40	0.5651E-06	0.6478
200.0	0.8787	0.7338	0.8866	0.1493E-01	0.1315	16.30	0.6576E-06	0.6459
220.0	0.8878	0.7268	0.8961	0.1372E-01	0.1387	17.18	0.7559E-06	0.6442
240.0	0.8958	0.7211	0.9043	0.1269E-01	0.1458	18.03	0.8598E-06	0.6425
260.0	0.9028	0.7162	0.9114	0.1181E-01	0.1528	18.87	0.9693E-06	0.6409
280.0	0.9091	0.7122	0.9176	0.1104E-01	0.1597	19.69	0.1084E-05	0.6393
300.0	0.9147	0.7086	0.9231	0.1036E-01	0.1666	20.49	0.1205E-05	0.6378
350.0	0.9264	0.7018	0.9343	0.8990E-02	0.1833	22.64	0.1529E-05	0.6401
400.0	0.9355	0.6967	0.9428	0.7937E-02	0.1995	24.73	0.1885E-05	0.6420
500.0	0.9488	0.6899	0.9550	0.6430E-02	0.2306	28.72	0.2688E-05	0.6450
600.0	0.9579	0.6855	0.9632	0.5403E-02	0.2602	32.51	0.3609E-05	0.6473
700.0	0.9645	0.6824	0.9690	0.4658E-02	0.2885	36.15	0.4639E-05	0.6493
800.0	0.9694	0.6802	0.9734	0.4093E-02	0.3157	39.66	0.5776E-05	0.6509
900.0	0.9732	0.6785	0.9767	0.3650E-02	0.3420	43.05	0.7014E-05	0.6524
1000.	0.9763	0.6772	0.9794	0.3294E-02	0.3675	46.34	0.8350E-05	0.6538
1100.	0.9787	0.6761	0.9815	0.3001E-02	0.3923	49.55	0.9781E-05	0.6550
1200.	0.9808	0.6752	0.9833	0.2755E-02	0.4164	52.68	0.1130E-04	0.6561
1300.	0.9825	0.6745	0.9847	0.2547E-02	0.4399	55.74	0.1292E-04	0.6571
1400.	0.9839	0.6739	0.9860	0.2368E-02	0.4629	58.73	0.1462E-04	0.6581
1500.	0.9852	0.6733	0.9871	0.2212E-02	0.4854	61.67	0.1641E-04	0.6590

PRESSURE = 20.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	5.145	231.6	8.082	16.87	103.2	1.856	1.478	1.676	733.2
	6.000	229.8	6.982	17.71	104.7	2.125	1.630	1.852	734.2
	8.000	225.5	5.336	20.42	109.1	2.747	2.154	2.524	727.9
	10.00	220.7	4.363	24.17	114.8	3.380	2.587	3.151	716.8
	12.00	215.4	3.725	28.76	121.6	4.001	2.888	3.651	704.9
	15.00	206.9	3.102	36.79	133.5	4.879	3.162	4.206	688.5
	20.00	192.3	2.503	52.09	156.1	6.178	3.365	4.799	667.5
	25.00	178.0	2.163	68.72	181.0	7.290	3.429	5.151	654.2
	30.00	164.7	1.948	85.98	207.4	8.249	3.441	5.362	647.1
	40.00	141.8	1.697	121.1	262.1	9.823	3.414	5.547	646.2
	50.00	123.7	1.557	156.1	317.8	11.06	3.375	5.574	656.4
	60.00	109.4	1.467	190.5	373.4	12.08	3.340	5.542	672.4
	80.00	88.76	1.356	257.9	483.3	13.66	3.286	5.445	711.4
	100.0	74.76	1.288	323.8	591.3	14.87	3.249	5.366	752.7
	120.0	64.64	1.241	388.7	698.0	15.84	3.224	5.310	793.5
	140.0	56.98	1.207	452.8	803.8	16.65	3.205	5.271	833.1
	160.0	50.96	1.181	516.6	909.0	17.36	3.192	5.245	871.4
	180.0	46.11	1.160	579.9	1014.	17.97	3.181	5.226	908.3
	200.0	42.11	1.143	643.1	1118.	18.52	3.173	5.213	943.9
	220.0	38.75	1.129	706.1	1222.	19.02	3.166	5.203	978.4
	240.0	35.89	1.118	768.9	1326.	19.47	3.160	5.196	1012.
	260.0	33.42	1.108	831.6	1430.	19.89	3.156	5.191	1044.
	280.0	31.27	1.100	894.3	1534.	20.27	3.152	5.187	1076.
	300.0	29.38	1.092	956.9	1638.	20.63	3.149	5.184	1107.
	350.0	25.53	1.078	1113.	1897.	21.43	3.142	5.180	1180.
	400.0	22.56	1.067	1269.	2156.	22.12	3.138	5.178	1250.
	500.0	18.31	1.052	1581.	2673.	23.28	3.132	5.178	1379.
	600.0	15.40	1.042	1893.	3191.	24.22	3.128	5.179	1497.
	700.0	13.29	1.035	2204.	3709.	25.02	3.126	5.180	1607.
	800.0	11.69	1.030	2516.	4227.	25.71	3.124	5.181	1710.
	900.0	10.43	1.026	2827.	4745.	26.32	3.123	5.183	1808.
	1000.	9.411	1.023	3139.	5264.	26.87	3.122	5.184	1900.
	1100.	8.576	1.021	3450.	5782.	27.36	3.121	5.184	1989.
	1200.	7.877	1.019	3762.	6301.	27.81	3.120	5.185	2074.
	1300.	7.283	1.017	4073.	6819.	28.23	3.120	5.186	2155.
	1400.	6.772	1.016	4384.	7338.	28.61	3.119	5.186	2233.
	1500.	6.328	1.014	4696.	7857.	28.97	3.119	5.187	2309.

PRESSURE = 20.00 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
5.145	0.4640E-01	2.893	0.1822	0.9150E-01	0.6084E-01	47.54	0.1567E-06	1.310
6.000	0.5295E-01	2.568	0.1834	0.9080E-01	0.6773E-01	36.77	0.1591E-06	1.005
8.000	0.8103E-01	2.126	0.1962	0.8908E-01	0.7963E-01	23.84	0.1399E-06	0.7559
10.00	0.1156	1.885	0.2148	0.8713E-01	0.8694E-01	17.85	0.1250E-06	0.6470
12.00	0.1526	1.731	0.2362	0.8500E-01	0.9103E-01	14.60	0.1158E-06	0.5855
15.00	0.2096	1.575	0.2712	0.8159E-01	0.9322E-01	11.97	0.1071E-06	0.5401
20.00	0.3030	1.407	0.3329	0.7574E-01	0.9151E-01	10.05	0.9916E-07	0.5273
25.00	0.3886	1.292	0.3942	0.7005E-01	0.8768E-01	9.332	0.9561E-07	0.5482
30.00	0.4632	1.206	0.4518	0.6474E-01	0.8415E-01	9.088	0.9526E-07	0.5791
40.00	0.5761	1.084	0.5487	0.5563E-01	0.8029E-01	9.159	0.1021E-06	0.6328
50.00	0.6491	1.004	0.6199	0.4844E-01	0.8010E-01	9.507	0.1162E-06	0.6615
60.00	0.6964	0.9469	0.6711	0.4279E-01	0.8200E-01	9.950	0.1353E-06	0.6724
80.00	0.7522	0.8738	0.7379	0.3467E-01	0.8838E-01	10.92	0.1828E-06	0.6729
100.0	0.7855	0.8293	0.7798	0.2916E-01	0.9578E-01	11.91	0.2388E-06	0.6673
120.0	0.8092	0.7996	0.8093	0.2520E-01	0.1034	12.71	0.3011E-06	0.6529
140.0	0.8278	0.7786	0.8316	0.2220E-01	0.1109	13.67	0.3692E-06	0.6501
160.0	0.8432	0.7629	0.8493	0.1984E-01	0.1183	14.61	0.4426E-06	0.6478
180.0	0.8562	0.7508	0.8638	0.1795E-01	0.1256	15.52	0.5214E-06	0.6457
200.0	0.8674	0.7413	0.8759	0.1638E-01	0.1329	16.41	0.6053E-06	0.6439
220.0	0.8772	0.7336	0.8862	0.1507E-01	0.1400	17.28	0.6944E-06	0.6421
240.0	0.8858	0.7272	0.8950	0.1396E-01	0.1470	18.12	0.7885E-06	0.6404
260.0	0.8934	0.7218	0.9026	0.1299E-01	0.1540	18.95	0.8876E-06	0.6387
280.0	0.9001	0.7173	0.9094	0.1216E-01	0.1608	19.76	0.9915E-06	0.6371
300.0	0.9062	0.7134	0.9153	0.1142E-01	0.1676	20.55	0.1100E-05	0.6356
350.0	0.9189	0.7058	0.9275	0.9918E-02	0.1842	22.69	0.1393E-05	0.6382
400.0	0.9288	0.7002	0.9368	0.8765E-02	0.2003	24.77	0.1714E-05	0.6403
500.0	0.9434	0.6925	0.9502	0.7110E-02	0.2313	28.75	0.2440E-05	0.6437
600.0	0.9534	0.6876	0.9592	0.5979E-02	0.2608	32.54	0.3269E-05	0.6463
700.0	0.9606	0.6842	0.9656	0.5158E-02	0.2891	36.18	0.4199E-05	0.6484
800.0	0.9660	0.6818	0.9704	0.4535E-02	0.3162	39.68	0.5223E-05	0.6501
900.0	0.9703	0.6799	0.9741	0.4046E-02	0.3425	43.07	0.6339E-05	0.6517
1000.	0.9736	0.6784	0.9771	0.3652E-02	0.3680	46.36	0.7543E-05	0.6531
1100.	0.9764	0.6772	0.9794	0.3327E-02	0.3927	49.57	0.8833E-05	0.6543
1200.	0.9786	0.6762	0.9814	0.3056E-02	0.4168	52.69	0.1021E-04	0.6555
1300.	0.9805	0.6754	0.9830	0.2825E-02	0.4404	55.75	0.1166E-04	0.6565
1400.	0.9821	0.6747	0.9844	0.2627E-02	0.4634	58.75	0.1319E-04	0.6575
1500.	0.9835	0.6741	0.9856	0.2455E-02	0.4859	61.68	0.1480E-04	0.6585

PRESSURE = 25.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	5.885	239.8	8.527	20.48	124.7	1.906	1.623	1.862	792.5
	6.000	239.6	8.372	20.59	124.9	1.942	1.638	1.875	792.5
	8.000	235.6	6.385	23.07	129.2	2.546	2.090	2.405	788.1
	10.00	231.4	5.201	26.55	134.6	3.149	2.535	3.000	778.6
	12.00	226.8	4.422	30.88	141.1	3.741	2.856	3.489	768.0
	15.00	219.5	3.656	38.51	152.4	4.582	3.157	4.038	752.7
	20.00	206.6	2.913	53.20	174.2	5.832	3.386	4.630	732.0
	25.00	193.7	2.486	69.27	198.3	6.907	3.463	4.990	717.8
	30.00	181.4	2.212	86.07	223.9	7.838	3.480	5.217	709.1
	40.00	159.4	1.888	120.6	277.4	9.376	3.455	5.447	704.0
	50.00	141.2	1.705	155.3	332.3	10.60	3.414	5.519	709.6
	60.00	126.3	1.588	189.7	387.6	11.61	3.375	5.520	721.4
	80.00	104.2	1.444	257.3	497.4	13.19	3.315	5.454	754.0
	100.0	88.60	1.358	323.5	605.7	14.40	3.274	5.383	791.0
	120.0	77.15	1.300	388.7	712.8	15.37	3.244	5.327	828.6
	140.0	68.36	1.257	453.2	818.9	16.19	3.223	5.286	865.7
	160.0	61.40	1.225	517.2	924.3	16.89	3.207	5.256	901.9
	180.0	55.75	1.199	580.8	1029.	17.51	3.194	5.235	937.1
	200.0	51.06	1.179	644.1	1134.	18.06	3.185	5.219	971.2
	220.0	47.10	1.161	707.2	1238.	18.56	3.177	5.207	1004.
	240.0	43.72	1.147	770.2	1342.	19.01	3.170	5.199	1037.
	260.0	40.79	1.135	833.0	1446.	19.43	3.165	5.192	1068.
	280.0	38.23	1.124	895.7	1550.	19.81	3.160	5.188	1099.
	300.0	35.97	1.115	958.4	1653.	20.17	3.156	5.184	1128.
	350.0	31.34	1.097	1115.	1913.	20.97	3.148	5.179	1200.
	400.0	27.77	1.084	1271.	2171.	21.66	3.143	5.176	1268.
	500.0	22.61	1.065	1583.	2689.	22.82	3.136	5.175	1395.
	600.0	19.06	1.053	1895.	3206.	23.76	3.131	5.176	1511.
	700.0	16.47	1.044	2206.	3724.	24.56	3.128	5.177	1620.
	800.0	14.50	1.038	2518.	4242.	25.25	3.126	5.179	1722.
	900.0	12.95	1.033	2829.	4760.	25.86	3.124	5.180	1819.
	1000.	11.70	1.029	3140.	5278.	26.40	3.123	5.181	1911.
	1100.	10.66	1.026	3452.	5796.	26.90	3.122	5.182	1998.
	1200.	9.800	1.023	3763.	6314.	27.35	3.121	5.183	2083.
	1300.	9.065	1.021	4075.	6833.	27.76	3.121	5.184	2164.
	1400.	8.432	1.020	4386.	7351.	28.15	3.120	5.185	2242.
	1500.	7.881	1.018	4698.	7870.	28.51	3.120	5.185	2317.

PRESSURE = 25.00 [MPa]

TEMP [K]	$\left\{ \frac{T}{V} \frac{\partial V}{\partial T} \right\}_P$	$\left\{ \frac{V}{C_v} \frac{\partial P}{\partial T} \right\}_V$	$\left\{ \frac{P}{\rho} \frac{\partial \rho}{\partial P} \right\}_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
5.885	0.5062E-01	2.902	0.1904	0.9483E-01	0.7427E-01	55.70	0.1663E-06	1.396
6.000	0.5093E-01	2.844	0.1902	0.9473E-01	0.7524E-01	53.67	0.1675E-06	1.337
8.000	0.6836E-01	2.206	0.1966	0.9314E-01	0.8916E-01	32.39	0.1573E-06	0.8738
10.00	0.9527E-01	1.926	0.2109	0.9144E-01	0.9823E-01	23.19	0.1415E-06	0.7083
12.00	0.1254	1.766	0.2283	0.8960E-01	0.1038	18.36	0.1311E-06	0.6173
15.00	0.1728	1.616	0.2572	0.8663E-01	0.1076	14.52	0.1214E-06	0.5452
20.00	0.2520	1.458	0.3089	0.8145E-01	0.1071	11.71	0.1120E-06	0.5062
25.00	0.3267	1.349	0.3610	0.7629E-01	0.1032	10.58	0.1068E-06	0.5115
30.00	0.3941	1.266	0.4109	0.7137E-01	0.9870E-01	10.11	0.1043E-06	0.5343
40.00	0.5034	1.145	0.4989	0.6261E-01	0.9215E-01	9.952	0.1061E-06	0.5883
50.00	0.5814	1.061	0.5686	0.5538E-01	0.8952E-01	10.19	0.1149E-06	0.6280
60.00	0.6359	0.9993	0.6218	0.4950E-01	0.8968E-01	10.56	0.1286E-06	0.6498
80.00	0.7038	0.9170	0.6946	0.4073E-01	0.9412E-01	11.44	0.1657E-06	0.6627
100.0	0.7445	0.8654	0.7416	0.3460E-01	0.1007	12.36	0.2111E-06	0.6612
120.0	0.7730	0.8303	0.7749	0.3010E-01	0.1078	13.11	0.2622E-06	0.6482
140.0	0.7949	0.8051	0.8002	0.2665E-01	0.1150	14.04	0.3181E-06	0.6455
160.0	0.8128	0.7862	0.8203	0.2393E-01	0.1221	14.94	0.3784E-06	0.6431
180.0	0.8278	0.7715	0.8368	0.2171E-01	0.1292	15.82	0.4428E-06	0.6409
200.0	0.8408	0.7598	0.8507	0.1988E-01	0.1362	16.68	0.5113E-06	0.6389
220.0	0.8521	0.7503	0.8625	0.1833E-01	0.1432	17.52	0.5838E-06	0.6371
240.0	0.8620	0.7424	0.8728	0.1701E-01	0.1500	18.33	0.6602E-06	0.6353
260.0	0.8709	0.7358	0.8817	0.1587E-01	0.1568	19.13	0.7405E-06	0.6335
280.0	0.8788	0.7302	0.8896	0.1487E-01	0.1635	19.92	0.8247E-06	0.6318
300.0	0.8859	0.7254	0.8965	0.1399E-01	0.1702	20.69	0.9126E-06	0.6302
350.0	0.9008	0.7158	0.9109	0.1218E-01	0.1865	22.81	0.1149E-05	0.6336
400.0	0.9126	0.7088	0.9221	0.1079E-01	0.2023	24.88	0.1408E-05	0.6365
500.0	0.9301	0.6993	0.9383	0.8781E-02	0.2329	28.84	0.1991E-05	0.6408
600.0	0.9422	0.6931	0.9492	0.7400E-02	0.2622	32.62	0.2658E-05	0.6439
700.0	0.9510	0.6888	0.9572	0.6394E-02	0.2903	36.25	0.3405E-05	0.6463
800.0	0.9577	0.6857	0.9631	0.5628E-02	0.3174	39.74	0.4227E-05	0.6484
900.0	0.9629	0.6833	0.9677	0.5026E-02	0.3436	43.12	0.5123E-05	0.6501
1000.	0.9671	0.6814	0.9713	0.4539E-02	0.3690	46.41	0.6090E-05	0.6516
1100.	0.9705	0.6799	0.9743	0.4138E-02	0.3937	49.61	0.7124E-05	0.6529
1200.	0.9733	0.6787	0.9767	0.3803E-02	0.4178	52.73	0.8226E-05	0.6542
1300.	0.9756	0.6776	0.9787	0.3517E-02	0.4413	55.79	0.9392E-05	0.6553
1400.	0.9776	0.6768	0.9805	0.3271E-02	0.4643	58.78	0.1062E-04	0.6563
1500.	0.9793	0.6760	0.9820	0.3058E-02	0.4869	61.72	0.1191E-04	0.6573

PRESSURE = 30.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
M	6.571	247.0	8.898	24.08	145.5	1.949	1.787	2.060	841.9
	8.000	244.3	7.390	25.84	148.7	2.378	2.060	2.352	839.2
	10.00	240.4	6.006	29.13	153.9	2.962	2.492	2.893	831.7
	12.00	236.4	5.092	33.25	160.2	3.532	2.825	3.366	822.4
	15.00	229.8	4.190	40.58	171.1	4.345	3.146	3.907	808.3
	20.00	218.2	3.310	54.77	192.3	5.557	3.399	4.498	788.4
	25.00	206.4	2.799	70.40	215.7	6.603	3.488	4.863	773.9
	30.00	195.0	2.469	86.81	240.7	7.512	3.511	5.100	764.4
	40.00	174.0	2.075	120.7	293.2	9.020	3.490	5.359	756.4
	50.00	156.0	1.851	155.1	347.3	10.23	3.447	5.462	758.8
	60.00	141.0	1.707	189.4	402.1	11.23	3.406	5.489	767.5
	80.00	117.8	1.532	257.0	511.7	12.80	3.341	5.454	794.9
	100.0	101.1	1.428	323.5	620.2	14.01	3.296	5.394	828.0
	120.0	88.61	1.358	388.9	727.5	14.99	3.263	5.340	862.7
	140.0	78.90	1.307	453.6	833.8	15.81	3.239	5.298	897.5
	160.0	71.14	1.269	517.8	939.5	16.52	3.221	5.267	931.8
	180.0	64.80	1.238	581.6	1045.	17.14	3.207	5.243	965.3
	200.0	59.50	1.214	645.0	1149.	17.69	3.196	5.226	998.1
	220.0	55.01	1.193	708.3	1254.	18.19	3.187	5.212	1030.
	240.0	51.16	1.176	771.4	1358.	18.64	3.179	5.202	1061.
	260.0	47.82	1.162	834.3	1462.	19.05	3.173	5.195	1092.
	280.0	44.88	1.149	897.1	1566.	19.44	3.168	5.189	1121.
	300.0	42.29	1.138	959.9	1669.	19.80	3.163	5.184	1150.
	350.0	36.95	1.117	1116.	1928.	20.60	3.154	5.177	1220.
	400.0	32.81	1.101	1273.	2187.	21.29	3.148	5.174	1287.
	500.0	26.79	1.078	1585.	2704.	22.44	3.139	5.172	1411.
	600.0	22.64	1.063	1896.	3222.	23.38	3.134	5.173	1526.
	700.0	19.60	1.053	2208.	3739.	24.18	3.130	5.174	1633.
	800.0	17.27	1.045	2519.	4256.	24.87	3.128	5.176	1734.
	900.0	15.44	1.039	2831.	4774.	25.48	3.126	5.177	1830.
	1000.	13.96	1.035	3142.	5292.	26.03	3.125	5.179	1921.
	1100.	12.73	1.031	3454.	5810.	26.52	3.123	5.180	2008.
	1200.	11.71	1.028	3765.	6328.	26.97	3.122	5.181	2092.
	1300.	10.83	1.026	4076.	6846.	27.39	3.122	5.182	2172.
	1400.	10.08	1.024	4388.	7364.	27.77	3.121	5.183	2250.
	1500.	9.424	1.022	4699.	7883.	28.13	3.121	5.184	2325.12

PRESSURE = 30.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
6.571	0.5403E-01	2.829	0.1975	0.9773E-01	0.8759E-01	63.45	0.1721E-06	1.492
8.000	0.6147E-01	2.301	0.1991	0.9663E-01	0.9818E-01	43.13	0.1709E-06	1.033
10.00	0.8205E-01	1.961	0.2094	0.9508E-01	0.1088	29.53	0.1565E-06	0.7851
12.00	0.1070	1.791	0.2236	0.9344E-01	0.1157	22.66	0.1455E-06	0.6591
15.00	0.1474	1.643	0.2482	0.9079E-01	0.1211	17.33	0.1349E-06	0.5591
20.00	0.2163	1.495	0.2927	0.8612E-01	0.1221	13.45	0.1244E-06	0.4955
25.00	0.2828	1.393	0.3382	0.8139E-01	0.1185	11.85	0.1180E-06	0.4866
30.00	0.3441	1.314	0.3825	0.7681E-01	0.1135	11.14	0.1141E-06	0.5005
40.00	0.4478	1.196	0.4627	0.6843E-01	0.1047	10.73	0.1124E-06	0.5490
50.00	0.5265	1.110	0.5290	0.6128E-01	0.9979E-01	10.84	0.1171E-06	0.5936
60.00	0.5847	1.046	0.5821	0.5530E-01	0.9806E-01	11.14	0.1267E-06	0.6237
80.00	0.6608	0.9569	0.6579	0.4612E-01	0.1002	11.93	0.1559E-06	0.6494
100.0	0.7077	0.8994	0.7083	0.3953E-01	0.1056	12.80	0.1936E-06	0.6537
120.0	0.7402	0.8597	0.7444	0.3461E-01	0.1121	13.50	0.2369E-06	0.6431
140.0	0.7650	0.8308	0.7720	0.3079E-01	0.1189	14.38	0.2845E-06	0.6409
160.0	0.7851	0.8089	0.7941	0.2774E-01	0.1258	15.25	0.3358E-06	0.6385
180.0	0.8018	0.7917	0.8123	0.2526E-01	0.1327	16.10	0.3906E-06	0.6363
200.0	0.8163	0.7780	0.8276	0.2318E-01	0.1395	16.93	0.4488E-06	0.6342
220.0	0.8289	0.7669	0.8407	0.2143E-01	0.1463	17.74	0.5102E-06	0.6322
240.0	0.8400	0.7576	0.8521	0.1992E-01	0.1530	18.54	0.5748E-06	0.6303
260.0	0.8499	0.7497	0.8621	0.1861E-01	0.1596	19.31	0.6426E-06	0.6285
280.0	0.8587	0.7431	0.8709	0.1747E-01	0.1662	20.07	0.7136E-06	0.6267
300.0	0.8667	0.7373	0.8788	0.1645E-01	0.1727	20.82	0.7876E-06	0.6249
350.0	0.8836	0.7259	0.8952	0.1437E-01	0.1887	22.93	0.9862E-06	0.6293
400.0	0.8971	0.7175	0.9080	0.1275E-01	0.2043	24.98	0.1203E-05	0.6328
500.0	0.9172	0.7060	0.9266	0.1041E-01	0.2345	28.93	0.1692E-05	0.6380
600.0	0.9313	0.6986	0.9395	0.8794E-02	0.2635	32.70	0.2251E-05	0.6417
700.0	0.9416	0.6934	0.9488	0.7610E-02	0.2915	36.31	0.2875E-05	0.6446
800.0	0.9495	0.6896	0.9558	0.6706E-02	0.3185	39.80	0.3562E-05	0.6469
900.0	0.9557	0.6867	0.9612	0.5993E-02	0.3446	43.18	0.4311E-05	0.6488
1000.	0.9606	0.6845	0.9655	0.5417E-02	0.3699	46.46	0.5119E-05	0.6504
1100.	0.9646	0.6827	0.9691	0.4942E-02	0.3946	49.65	0.5983E-05	0.6518
1200.	0.9679	0.6812	0.9720	0.4543E-02	0.4187	52.78	0.6903E-05	0.6531
1300.	0.9707	0.6799	0.9744	0.4203E-02	0.4422	55.83	0.7877E-05	0.6543
1400.	0.9731	0.6788	0.9765	0.3911E-02	0.4651	58.82	0.8904E-05	0.6554
1500.	0.9752	0.6779	0.9783	0.3656E-02	0.4877	61.75	0.9983E-05	0.6564

PRESSURE = 35.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	7.219	253.5	9.209	27.71	165.8	1.991	1.953	2.258	884.7
	8.000	252.0	8.359	28.69	167.6	2.228	2.071	2.365	883.5
	10.00	248.3	6.785	31.83	172.8	2.803	2.463	2.825	878.0
	12.00	244.6	5.740	35.79	178.9	3.359	2.796	3.272	870.2
	15.00	238.6	4.707	42.87	189.5	4.149	3.131	3.802	857.5
	20.00	228.1	3.694	56.66	210.1	5.330	3.405	4.389	838.7
	25.00	217.2	3.103	71.91	233.1	6.352	3.507	4.758	824.3
	30.00	206.5	2.720	87.98	257.5	7.243	3.537	5.002	814.3
	40.00	186.4	2.259	121.4	309.1	8.725	3.520	5.281	804.5
	50.00	168.9	1.995	155.4	362.6	9.919	3.477	5.407	804.5
	60.00	153.9	1.825	189.5	417.0	10.91	3.434	5.455	810.7
	80.00	130.1	1.619	257.1	526.1	12.48	3.365	5.447	833.8
	100.0	112.5	1.497	323.6	634.6	13.69	3.316	5.399	863.6
	120.0	99.18	1.416	389.2	742.1	14.67	3.281	5.350	895.7
	140.0	88.70	1.357	454.1	848.7	15.49	3.255	5.309	928.4
	160.0	80.26	1.312	518.4	954.5	16.20	3.235	5.276	960.9
	180.0	73.31	1.277	582.4	1060.	16.82	3.219	5.251	993.0
	200.0	67.49	1.248	646.0	1165.	17.37	3.207	5.232	1024.
	220.0	62.53	1.225	709.4	1269.	17.87	3.196	5.217	1055.
	240.0	58.26	1.205	772.5	1373.	18.32	3.188	5.206	1085.
	260.0	54.53	1.188	835.6	1477.	18.74	3.181	5.197	1115.
	280.0	51.26	1.174	898.5	1581.	19.12	3.175	5.191	1144.
	300.0	48.36	1.161	961.3	1685.	19.48	3.170	5.185	1172.
	350.0	42.37	1.136	1118.	1944.	20.28	3.160	5.177	1240.
	400.0	37.70	1.117	1274.	2203.	20.97	3.153	5.172	1305.
	500.0	30.88	1.091	1586.	2720.	22.12	3.143	5.170	1427.
	600.0	26.15	1.074	1898.	3237.	23.07	3.137	5.170	1540.
	700.0	22.67	1.062	2210.	3754.	23.86	3.133	5.172	1646.
	800.0	20.00	1.053	2521.	4271.	24.56	3.130	5.173	1746.
	900.0	17.89	1.046	2833.	4788.	25.16	3.128	5.175	1841.
	1000.	16.19	1.041	3144.	5306.	25.71	3.126	5.177	1931.
	1100.	14.78	1.037	3455.	5824.	26.20	3.125	5.178	2018.
	1200.	13.59	1.033	3767.	6342.	26.65	3.124	5.179	2101.
	1300.	12.58	1.030	4078.	6860.	27.07	3.123	5.180	2181.
	1400.	11.71	1.028	4389.	7378.	27.45	3.122	5.181	2258.
	1500.	10.95	1.025	4701.	7896.	27.81	3.121	5.182	2333.

PRESSURE = 35.00 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
7.219	0.5698E-01	2.736	0.2040	0.1003	0.1009	70.81	0.1763E-06	1.585
8.000	0.5874E-01	2.423	0.2033	0.9973E-01	0.1069	56.73	0.1794E-06	1.255
10.00	0.7336E-01	2.002	0.2097	0.9826E-01	0.1190	37.09	0.1696E-06	0.8806
12.00	0.9395E-01	1.812	0.2211	0.9676E-01	0.1272	27.60	0.1589E-06	0.7102
15.00	0.1288	1.662	0.2421	0.9436E-01	0.1341	20.43	0.1478E-06	0.5793
20.00	0.1899	1.521	0.2813	0.9009E-01	0.1366	15.30	0.1365E-06	0.4917
25.00	0.2498	1.427	0.3218	0.8572E-01	0.1335	13.17	0.1292E-06	0.4696
30.00	0.3061	1.353	0.3616	0.8142E-01	0.1283	12.18	0.1242E-06	0.4750
40.00	0.4041	1.238	0.4351	0.7340E-01	0.1178	11.50	0.1197E-06	0.5155
50.00	0.4815	1.153	0.4979	0.6640E-01	0.1107	11.49	0.1213E-06	0.5610
60.00	0.5412	1.087	0.5497	0.6041E-01	0.1071	11.71	0.1276E-06	0.5964
80.00	0.6228	0.9936	0.6265	0.5097E-01	0.1066	12.41	0.1505E-06	0.6337
100.0	0.6744	0.9315	0.6791	0.4403E-01	0.1107	13.21	0.1821E-06	0.6446
120.0	0.7104	0.8877	0.7173	0.3877E-01	0.1164	13.87	0.2194E-06	0.6372
140.0	0.7377	0.8555	0.7467	0.3464E-01	0.1228	14.72	0.2608E-06	0.6361
160.0	0.7596	0.8309	0.7703	0.3132E-01	0.1294	15.55	0.3056E-06	0.6340
180.0	0.7779	0.8115	0.7898	0.2860E-01	0.1361	16.3	0.3535E-06	0.6317
200.0	0.7936	0.7960	0.8063	0.2631E-01	0.1427	17.18	0.4042E-06	0.6296
220.0	0.8073	0.7832	0.8205	0.2437E-01	0.1493	17.96	0.4577E-06	0.6275
240.0	0.8194	0.7726	0.8328	0.2269E-01	0.1559	18.73	0.5140E-06	0.6255
260.0	0.8302	0.7636	0.8437	0.2124E-01	0.1624	19.48	0.5728E-06	0.6236
280.0	0.8399	0.7559	0.8534	0.1996E-01	0.1688	20.22	0.6344E-06	0.6217
300.0	0.8486	0.7492	0.8620	0.1882E-01	0.1752	20.94	0.6985E-06	0.6199
350.0	0.8673	0.7360	0.8801	0.1648E-01	0.1909	23.04	0.8702E-06	0.6250
400.0	0.8822	0.7263	0.8943	0.1466E-01	0.2062	25.08	0.1058E-05	0.6291
500.0	0.9047	0.7129	0.9153	0.1200E-01	0.2361	29.02	0.1479E-05	0.6353
600.0	0.9206	0.7041	0.9299	0.1016E-01	0.2648	32.7	0.1959E-05	0.6397
700.0	0.9324	0.6981	0.9405	0.8805E-02	0.2926	36.38	0.2496E-05	0.6430
800.0	0.9414	0.6936	0.9485	0.7768E-02	0.3194	39.86	0.3087E-05	0.6455
900.0	0.9484	0.6902	0.9548	0.6948E-02	0.3454	43.23	0.3730E-05	0.6476
1000.	0.9541	0.6876	0.9598	0.6285E-02	0.3707	46.51	0.4424E-05	0.6494
1100.	0.9588	0.6854	0.9639	0.5736E-02	0.3953	49.70	0.5167E-05	0.6509
1200.	0.9626	0.6837	0.9673	0.5276E-02	0.4194	52.82	0.5957E-05	0.6523
1300.	0.9659	0.6822	0.9701	0.4884E-02	0.4428	55.86	0.6794E-05	0.6535
1400.	0.9687	0.6810	0.9725	0.4545E-02	0.4658	58.85	0.7676E-05	0.6546
1500.	0.9710	0.6799	0.9746	0.4251E-02	0.4883	61.78	0.8602E-05	0.6556

PRESSURE = 40.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	7.836	259.3	9.477	31.36	185.6	2.033	2.115	2.449	922.8
	8.000	259.0	9.294	31.57	186.0	2.084	2.131	2.458	922.7
	10.00	255.4	7.539	34.61	191.2	2.664	2.451	2.793	919.2
	12.00	251.9	6.370	38.44	197.2	3.210	2.773	3.204	913.0
	15.00	246.4	5.210	45.31	207.6	3.982	3.116	3.715	901.8
	20.00	236.6	4.069	58.75	227.8	5.137	3.407	4.298	884.1
	25.00	226.5	3.400	73.68	250.3	6.139	3.521	4.668	870.1
	30.00	216.4	2.966	89.46	274.3	7.014	3.557	4.917	859.9
	40.00	197.3	2.440	122.4	325.1	8.474	3.546	5.212	848.9
	50.00	180.2	2.137	156.0	378.0	9.654	3.503	5.356	847.1
	60.00	165.3	1.942	189.9	431.9	10.64	3.459	5.420	851.5
	80.00	141.2	1.705	257.3	540.7	12.20	3.387	5.437	871.0
	100.0	123.0	1.566	323.9	649.1	13.41	3.335	5.401	897.8
	120.0	109.0	1.473	389.6	756.7	14.39	3.297	5.357	927.6
	140.0	97.85	1.406	454.6	863.4	15.21	3.269	5.318	958.4
	160.0	88.83	1.355	519.1	969.4	15.92	3.247	5.285	989.4
	180.0	81.36	1.315	583.2	1075.	16.54	3.230	5.259	1020.
	200.0	75.06	1.283	646.9	1180.	17.10	3.217	5.239	1050.
	220.0	69.68	1.256	710.4	1284.	17.59	3.206	5.223	1080.
	240.0	65.03	1.234	773.7	1389.	18.05	3.196	5.210	1109.
	260.0	60.97	1.215	836.8	1493.	18.47	3.189	5.200	1138.
	280.0	57.39	1.198	899.8	1597.	18.85	3.182	5.193	1166.
	300.0	54.20	1.184	962.6	1701.	19.21	3.176	5.187	1193.
	350.0	47.61	1.156	1119.	1960.	20.01	3.165	5.177	1260.
	400.0	42.44	1.134	1276.	2218.	20.70	3.157	5.171	1324.
	500.0	34.87	1.104	1588.	2735.	21.85	3.146	5.167	1443.
	600.0	29.59	1.085	1900.	3252.	22.79	3.139	5.168	1555.
	700.0	25.69	1.071	2212.	3769.	23.59	3.135	5.169	1660.
	800.0	22.69	1.061	2523.	4286.	24.28	3.132	5.171	1758.
	900.0	20.32	1.053	2834.	4803.	24.89	3.129	5.173	1852.
	1000.	18.39	1.047	3146.	5320.	25.43	3.127	5.174	1942.
	1100.	16.80	1.042	3457.	5838.	25.93	3.126	5.176	2028.
	1200.	15.46	1.038	3768.	6355.	26.38	3.125	5.177	2110.
	1300.	14.32	1.034	4080.	6873.	26.79	3.124	5.179	2190.
	1400.	13.33	1.032	4391.	7391.	27.18	3.123	5.180	2267.
	1500.	12.47	1.029	4702.	7909.	27.53	3.122	5.181	2341.

PRESSURE = 40.00 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_v$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
7.836	0.5965E-01	2.647	0.2097	0.1027	0.1142	77.85	0.1799E-06	1.669
8.000	0.5953E-01	2.577	0.2092	0.1026	0.1155	74.14	0.1815E-06	1.577
10.00	0.6791E-01	2.054	0.2112	0.1011	0.1288	46.14	0.1806E-06	1.000
12.00	0.8458E-01	1.834	0.2200	0.9971E-01	0.1382	33.27	0.1712E-06	0.7715
15.00	0.1149	1.676	0.2380	0.9749E-01	0.1465	23.85	0.1600E-06	0.6049
20.00	0.1695	1.542	0.2727	0.9355E-01	0.1507	17.27	0.1481E-06	0.4926
25.00	0.2241	1.454	0.3093	0.8947E-01	0.1482	14.54	0.1402E-06	0.4581
30.00	0.2762	1.384	0.3455	0.8542E-01	0.1430	13.24	0.1343E-06	0.4555
40.00	0.3687	1.274	0.4135	0.7775E-01	0.1313	12.27	0.1276E-06	0.4874
50.00	0.4442	1.190	0.4729	0.7091E-01	0.1222	12.12	0.1266E-06	0.5312
60.00	0.5042	1.124	0.5230	0.6495E-01	0.1167	12.27	0.1303E-06	0.5696
80.00	0.5891	1.027	0.5995	0.5537E-01	0.1135	12.87	0.1479E-06	0.6164
100.0	0.6444	0.9616	0.6534	0.4817E-01	0.1160	13.62	0.1746E-06	0.6341
120.0	0.6833	0.9145	0.6932	0.4263E-01	0.1208	14.22	0.2070E-06	0.6305
140.0	0.7127	0.8794	0.7239	0.3824E-01	0.1267	15.03	0.2435E-06	0.6309
160.0	0.7363	0.8523	0.7487	0.3469E-01	0.1330	15.84	0.2833E-06	0.6293
180.0	0.7559	0.8309	0.7692	0.3175E-01	0.1394	16.63	0.3259E-06	0.6273
200.0	0.7726	0.8136	0.7867	0.2928E-01	0.1459	17.41	0.3710E-06	0.6251
220.0	0.7873	0.7993	0.8017	0.2717E-01	0.1523	18.17	0.4185E-06	0.6230
240.0	0.8002	0.7874	0.8149	0.2535E-01	0.1587	18.91	0.4684E-06	0.6209
260.0	0.8118	0.7772	0.8265	0.2376E-01	0.1651	19.64	0.5206E-06	0.6189
280.0	0.8222	0.7686	0.8369	0.2235E-01	0.1714	20.36	0.5751E-06	0.6169
300.0	0.8316	0.7611	0.8462	0.2111E-01	0.1776	21.06	0.6318E-06	0.6149
350.0	0.8517	0.7461	0.8657	0.1853E-01	0.1930	23.15	0.7833E-06	0.6208
400.0	0.8680	0.7350	0.8813	0.1651E-01	0.2082	25.18	0.9485E-06	0.6256
500.0	0.8926	0.7197	0.9043	0.1356E-01	0.2376	29.10	0.1319E-05	0.6327
600.0	0.9102	0.7097	0.9204	0.1150E-01	0.2661	32.84	0.1740E-05	0.6378
700.0	0.9233	0.7028	0.9323	0.9980E-02	0.2936	36.44	0.2211E-05	0.6415
800.0	0.9334	0.6977	0.9414	0.8814E-02	0.3203	39.91	0.2730E-05	0.6443
900.0	0.9413	0.6938	0.9484	0.7891E-02	0.3462	43.28	0.3294E-05	0.6466
1000.	0.9477	0.6907	0.9541	0.7143E-02	0.3714	46.55	0.3902E-05	0.6485
1100.	0.9530	0.6882	0.9587	0.6523E-02	0.3960	49.74	0.4553E-05	0.6502
1200.	0.9573	0.6862	0.9626	0.6002E-02	0.4200	52.85	0.5246E-05	0.6516
1300.	0.9610	0.6845	0.9658	0.5558E-02	0.4434	55.90	0.5980E-05	0.6529
1400.	0.9642	0.6831	0.9686	0.5175E-02	0.4664	58.89	0.6753E-05	0.6540
1500.	0.9669	0.6819	0.9709	0.4841E-02	0.4888	61.81	0.7565E-05	0.6551

PRESSURE = 50.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	8.996	269.7	9.920	38.72	224.1	2.116	2.410	2.799	989.9
	10.00	267.9	8.985	40.29	226.9	2.414	2.496	2.850	989.6
	12.00	264.6	7.581	43.93	232.9	2.957	2.753	3.136	986.9
	15.00	259.7	6.179	50.48	243.0	3.707	3.086	3.589	979.1
	20.00	251.2	4.792	63.37	262.4	4.822	3.402	4.150	964.2
	25.00	242.2	3.975	77.76	284.2	5.791	3.537	4.522	951.1
	30.00	233.2	3.441	93.04	307.5	6.639	3.587	4.777	941.0
	40.00	215.6	2.791	125.1	357.0	8.061	3.587	5.093	928.7
	50.00	199.4	2.414	158.1	408.9	9.218	3.547	5.263	924.7
	60.00	184.9	2.170	191.5	462.0	10.19	3.503	5.352	926.4
	80.00	160.6	1.874	258.4	569.8	11.74	3.426	5.410	940.5
	100.0	141.6	1.700	324.9	677.9	12.94	3.369	5.398	962.6
	120.0	126.6	1.584	390.7	785.6	13.92	3.327	5.366	988.4
	140.0	114.5	1.502	455.9	892.6	14.75	3.295	5.331	1016.
	160.0	104.5	1.439	520.6	998.9	15.46	3.271	5.300	1044.
	180.0	96.20	1.390	584.9	1105.	16.08	3.251	5.273	1072.
	200.0	89.12	1.350	648.8	1210.	16.64	3.235	5.251	1101.
	220.0	83.03	1.318	712.5	1315.	17.14	3.223	5.234	1128.
	240.0	77.72	1.290	775.9	1419.	17.59	3.212	5.219	1156.
	260.0	73.07	1.267	839.2	1523.	18.01	3.203	5.208	1183.
	280.0	68.94	1.247	902.3	1628.	18.39	3.195	5.198	1209.
	300.0	65.26	1.229	965.3	1731.	18.75	3.189	5.191	1235.
	350.0	57.59	1.194	1122.	1991.	19.55	3.176	5.178	1299.
	400.0	51.53	1.168	1279.	2249.	20.24	3.166	5.170	1360.
	500.0	42.57	1.131	1591.	2766.	21.39	3.153	5.164	1476.
	600.0	36.26	1.106	1903.	3282.	22.34	3.145	5.163	1584.
	700.0	31.57	1.089	2215.	3799.	23.13	3.139	5.164	1686.
	800.0	27.95	1.076	2526.	4315.	23.82	3.135	5.166	1783.
	900.0	25.07	1.067	2838.	4832.	24.43	3.132	5.168	1875.
	1000.	22.73	1.059	3149.	5349.	24.98	3.130	5.170	1963.
	1100.	20.79	1.053	3460.	5866.	25.47	3.128	5.172	2048.
	1200.	19.15	1.048	3772.	6383.	25.92	3.127	5.173	2129.
	1300.	17.75	1.043	4083.	6901.	26.33	3.126	5.175	2208.
	1400.	16.54	1.040	4394.	7418.	26.72	3.125	5.176	2284.
	1500.	15.48	1.037	4706.	7936.	27.07	3.124	5.177	2357.

PRESSURE = 50.00 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
8.996	0.6444E-01	2.508	0.2197	0.1069	0.1409	91.12	0.1866E-06	1.811
10.00	0.6430E-01	2.209	0.2176	0.1062	0.1480	70.17	0.1938E-06	1.351
12.00	0.7326E-01	1.896	0.2210	0.1048	0.1593	47.38	0.1920E-06	0.9326
15.00	0.9565E-01	1.703	0.2335	0.1029	0.1703	31.87	0.1827E-06	0.6715
20.00	0.1402	1.570	0.2613	0.9940E-01	0.1777	21.61	0.1704E-06	0.5047
25.00	0.1865	1.493	0.2917	0.9579E-01	0.1769	17.46	0.1615E-06	0.4463
30.00	0.2318	1.432	0.3226	0.9215E-01	0.1720	15.45	0.1544E-06	0.4292
40.00	0.3149	1.333	0.3818	0.8508E-01	0.1586	13.82	0.1444E-06	0.4440
50.00	0.3858	1.254	0.4351	0.7858E-01	0.1463	13.38	0.1394E-06	0.4812
60.00	0.4446	1.188	0.4816	0.7277E-01	0.1374	13.36	0.1388E-06	0.5204
80.00	0.5323	1.088	0.5559	0.6309E-01	0.1285	13.77	0.1479E-06	0.5796
100.0	0.5924	1.017	0.6105	0.5555E-01	0.1274	14.39	0.1666E-06	0.6101
120.0	0.6356	0.9644	0.6520	0.4960E-01	0.1301	14.91	0.1915E-06	0.6150
140.0	0.6685	0.9244	0.6845	0.4481E-01	0.1347	15.64	0.2206E-06	0.6193
160.0	0.6947	0.8932	0.7109	0.4088E-01	0.1401	16.38	0.2529E-06	0.6196
180.0	0.7165	0.8681	0.7330	0.3759E-01	0.1460	17.12	0.2878E-06	0.6183
200.0	0.7351	0.8476	0.7518	0.3481E-01	0.1520	17.85	0.3249E-06	0.6164
220.0	0.7512	0.8306	0.7682	0.3241E-01	0.1582	18.56	0.3640E-06	0.6142
240.0	0.7655	0.8163	0.7826	0.3033E-01	0.1643	19.26	0.4049E-06	0.6120
260.0	0.7783	0.8041	0.7954	0.2850E-01	0.1704	19.95	0.4477E-06	0.6098
280.0	0.7899	0.7936	0.8068	0.2688E-01	0.1764	20.62	0.4923E-06	0.6076
300.0	0.8004	0.7845	0.8171	0.2544E-01	0.1825	21.29	0.5386E-06	0.6055
350.0	0.8229	0.7662	0.8391	0.2243E-01	0.1974	23.35	0.6620E-06	0.6126
400.0	0.8413	0.7525	0.8567	0.2006E-01	0.2121	25.37	0.7960E-06	0.6185
500.0	0.8696	0.7335	0.8833	0.1656E-01	0.2407	29.26	0.1095E-05	0.6276
600.0	0.8902	0.7210	0.9023	0.1410E-01	0.2686	32.98	0.1435E-05	0.6340
700.0	0.9057	0.7123	0.9164	0.1227E-01	0.2957	36.56	0.1813E-05	0.6386
800.0	0.9177	0.7058	0.9273	0.1086E-01	0.3220	40.02	0.2230E-05	0.6421
900.0	0.9273	0.7009	0.9359	0.9742E-02	0.3476	43.38	0.2683E-05	0.6449
1000.	0.9351	0.6970	0.9428	0.8830E-02	0.3727	46.64	0.3171E-05	0.6471
1100.	0.9415	0.6939	0.9485	0.8073E-02	0.3971	49.82	0.3693E-05	0.6490
1200.	0.9469	0.6913	0.9532	0.7435E-02	0.4209	52.93	0.4249E-05	0.6506
1300.	0.9514	0.6892	0.9572	0.6891E-02	0.4443	55.97	0.4838E-05	0.6520
1400.	0.9553	0.6874	0.9606	0.6420E-02	0.4672	58.95	0.5458E-05	0.6532
1500.	0.9586	0.6858	0.9636	0.6009E-02	0.4896	61.88	0.6109E-05	0.6543

PRESSURE = 60.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	10.08	278.8	10.28	46.15	261.3	2.197	2.665	3.108	1049.
	12.00	275.6	8.735	49.56	267.3	2.739	2.784	3.167	1049.
	15.00	271.0	7.106	55.88	277.3	3.482	3.069	3.517	1045.
	20.00	263.2	5.486	68.34	296.3	4.570	3.390	4.039	1033.
	25.00	255.2	4.528	82.29	317.4	5.513	3.541	4.405	1022.
	30.00	246.9	3.899	97.16	340.1	6.340	3.604	4.664	1012.
	40.00	230.7	3.131	128.5	388.6	7.732	3.618	4.994	999.4
	50.00	215.3	2.683	160.9	439.5	8.868	3.583	5.182	994.0
	60.00	201.3	2.392	193.8	492.0	9.823	3.539	5.290	993.9
	80.00	177.2	2.038	260.2	598.9	11.36	3.459	5.379	1004.
	100.0	157.8	1.830	326.4	706.6	12.56	3.398	5.389	1023.
	120.0	142.2	1.693	392.2	814.2	13.54	3.353	5.369	1045.
	140.0	129.3	1.595	457.4	921.3	14.37	3.318	5.341	1070.
	160.0	118.7	1.521	522.2	1028.	15.08	3.291	5.312	1096.
	180.0	109.7	1.463	586.6	1134.	15.70	3.270	5.286	1122.
	200.0	101.9	1.417	650.7	1239.	16.26	3.253	5.263	1149.
	220.0	95.26	1.378	714.5	1344.	16.76	3.238	5.244	1175.
	240.0	89.42	1.346	778.1	1449.	17.22	3.226	5.229	1201.
	260.0	84.26	1.318	841.5	1554.	17.63	3.216	5.216	1226.
	280.0	79.68	1.295	904.7	1658.	18.02	3.208	5.205	1252.
	300.0	75.57	1.274	967.8	1762.	18.38	3.200	5.196	1276.
	350.0	66.96	1.233	1125.	2021.	19.18	3.185	5.180	1337.
	400.0	60.12	1.201	1282.	2280.	19.87	3.174	5.171	1396.
	500.0	49.92	1.157	1595.	2796.	21.02	3.159	5.162	1508.
	600.0	42.68	1.128	1907.	3312.	21.96	3.150	5.160	1613.
	700.0	37.26	1.107	2218.	3828.	22.76	3.143	5.160	1713.
	800.0	33.06	1.092	2530.	4345.	23.45	3.139	5.162	1807.
	900.0	29.71	1.080	2841.	4861.	24.06	3.135	5.164	1898.
	1000.	26.97	1.071	3153.	5377.	24.60	3.133	5.166	1984.
	1100.	24.69	1.064	3464.	5894.	25.09	3.130	5.168	2068.
	1200.	22.76	1.057	3775.	6411.	25.54	3.129	5.170	2148.
	1300.	21.11	1.052	4086.	6928.	25.96	3.127	5.171	2226.
	1400.	19.69	1.048	4398.	7445.	26.34	3.126	5.173	2301.
	1500.	18.44	1.044	4709.	7963.	26.70	3.125	5.174	2374.

PRESSURE = 60.00 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
10.08	0.6877E-01	2.415	0.2282	0.1106	0.1676	103.5	0.1935E-06	1.918
12.00	0.6893E-01	1.996	0.2250	0.1093	0.1799	66.34	0.2061E-06	1.168
15.00	0.8395E-01	1.738	0.2323	0.1074	0.1932	41.78	0.2027E-06	0.7607
20.00	0.1204	1.591	0.2544	0.1043	0.2035	26.56	0.1914E-06	0.5271
25.00	0.1604	1.520	0.2802	0.1010	0.2045	20.64	0.1820E-06	0.4444
30.00	0.2004	1.467	0.3070	0.9770E-01	0.2004	17.79	0.1740E-06	0.4140
40.00	0.2758	1.379	0.3595	0.9114E-01	0.1861	15.40	0.1616E-06	0.4131
50.00	0.3421	1.305	0.4079	0.8497E-01	0.1713	14.62	0.1536E-06	0.4422
60.00	0.3987	1.241	0.4511	0.7933E-01	0.1593	14.42	0.1497E-06	0.4788
80.00	0.4867	1.141	0.5222	0.6969E-01	0.1449	14.64	0.1520E-06	0.5435
100.0	0.5493	1.066	0.5763	0.6198E-01	0.1398	15.14	0.1644E-06	0.5838
120.0	0.5953	1.010	0.6183	0.5576E-01	0.1399	15.57	0.1834E-06	0.5972
140.0	0.6307	0.9663	0.6517	0.5068E-01	0.1429	16.23	0.2069E-06	0.6063
160.0	0.6589	0.9315	0.6791	0.4646E-01	0.1473	16.90	0.2338E-06	0.6093
180.0	0.6824	0.9034	0.7022	0.4290E-01	0.1525	17.58	0.2632E-06	0.6093
200.0	0.7023	0.8802	0.7219	0.3985E-01	0.1581	18.26	0.2947E-06	0.6079
220.0	0.7197	0.8608	0.7391	0.3722E-01	0.1638	18.93	0.3280E-06	0.6058
240.0	0.7350	0.8444	0.7544	0.3492E-01	0.1697	19.59	0.3629E-06	0.6036
260.0	0.7488	0.8303	0.7679	0.3290E-01	0.1755	20.23	0.3994E-06	0.6012
280.0	0.7612	0.8181	0.7801	0.3109E-01	0.1814	20.87	0.4374E-06	0.5989
300.0	0.7725	0.8075	0.7912	0.2948E-01	0.1872	21.50	0.4768E-06	0.5966
350.0	0.7969	0.7860	0.8149	0.2610E-01	0.2017	23.54	0.5814E-06	0.6048
400.0	0.8170	0.7699	0.8341	0.2342E-01	0.2159	25.54	0.6947E-06	0.6116
500.0	0.8482	0.7473	0.8636	0.1943E-01	0.2439	29.41	0.9464E-06	0.6224
600.0	0.8712	0.7324	0.8849	0.1660E-01	0.2711	33.11	0.1231E-05	0.6301
700.0	0.8888	0.7218	0.9011	0.1449E-01	0.2977	36.68	0.1548E-05	0.6357
800.0	0.9027	0.7141	0.9136	0.1285E-01	0.3237	40.13	0.1897E-05	0.6400
900.0	0.9137	0.7081	0.9236	0.1155E-01	0.3490	43.48	0.2275E-05	0.6433
1000.	0.9227	0.7034	0.9316	0.1048E-01	0.3738	46.73	0.2683E-05	0.6459
1100.	0.9302	0.6997	0.9383	0.9591E-02	0.3980	49.91	0.3119E-05	0.6480
1200.	0.9365	0.6966	0.9439	0.8842E-02	0.4217	53.01	0.3584E-05	0.6498
1300.	0.9419	0.6940	0.9486	0.8200E-02	0.4450	56.04	0.4075E-05	0.6513
1400.	0.9464	0.6918	0.9527	0.7645E-02	0.4678	59.02	0.4593E-05	0.6527
1500.	0.9504	0.6899	0.9562	0.7160E-02	0.4902	61.94	0.5137E-05	0.6539

PRESSURE = 70.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	11.10	287.0	10.58	53.58	297.5	2.273	2.885	3.380	1102.
	12.00	285.4	9.839	55.24	300.5	2.534	2.885	3.319	1103.
	15.00	280.9	7.999	61.40	310.6	3.289	3.074	3.499	1103.
	20.00	273.7	6.157	73.51	329.3	4.359	3.377	3.956	1094.
	25.00	266.3	5.063	87.11	350.0	5.282	3.539	4.310	1084.
	30.00	258.7	4.343	101.6	372.2	6.092	3.613	4.568	1075.
	40.00	243.5	3.460	132.3	419.8	7.457	3.641	4.908	1063.
	50.00	228.9	2.944	164.2	469.9	8.576	3.611	5.110	1057.
	60.00	215.4	2.608	196.7	521.7	9.519	3.569	5.232	1056.
	80.00	191.6	2.198	262.4	627.7	11.04	3.488	5.347	1063.
	100.0	172.1	1.958	328.3	735.0	12.24	3.425	5.376	1079.
	120.0	156.0	1.800	393.9	842.5	13.22	3.377	5.368	1099.
	140.0	142.7	1.687	459.2	949.7	14.05	3.340	5.347	1122.
	160.0	131.5	1.602	524.0	1056.	14.76	3.311	5.321	1146.
	180.0	121.9	1.535	588.5	1163.	15.38	3.287	5.297	1170.
	200.0	113.7	1.482	652.6	1268.	15.94	3.268	5.275	1195.
	220.0	106.5	1.438	716.5	1374.	16.44	3.253	5.255	1219.
	240.0	100.3	1.401	780.2	1478.	16.90	3.240	5.239	1244.
	260.0	94.67	1.369	843.7	1583.	17.32	3.229	5.224	1268.
	280.0	89.69	1.342	907.0	1687.	17.70	3.219	5.213	1293.
	300.0	85.22	1.318	970.2	1792.	18.06	3.211	5.203	1316.
	350.0	75.79	1.270	1128.	2051.	18.86	3.194	5.184	1375.
	400.0	68.26	1.234	1285.	2310.	19.56	3.182	5.173	1432.
	500.0	56.95	1.183	1598.	2827.	20.71	3.166	5.161	1540.
	600.0	48.86	1.150	1910.	3343.	21.65	3.155	5.157	1642.
	700.0	42.77	1.126	2222.	3858.	22.44	3.147	5.157	1739.
	800.0	38.02	1.108	2533.	4374.	23.13	3.142	5.158	1832.
	900.0	34.22	1.094	2844.	4890.	23.74	3.138	5.160	1921.
	1000.	31.11	1.083	3156.	5406.	24.28	3.135	5.162	2006.
	1100.	28.51	1.075	3467.	5922.	24.78	3.133	5.164	2088.
	1200.	26.31	1.067	3778.	6439.	25.23	3.131	5.166	2167.
	1300.	24.42	1.061	4090.	6956.	25.64	3.129	5.168	2244.
	1400.	22.79	1.056	4401.	7472.	26.02	3.128	5.170	2318.
	1500.	21.36	1.052	4712.	7990.	26.38	3.127	5.171	2390.

PRESSURE = 70.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
11.10	0.7276E-01	2.354	0.2354	0.1139	0.1944	114.9	0.2005E-06	1.998
12.00	0.7015E-01	2.142	0.2319	0.1133	0.2003	92.16	0.2114E-06	1.527
15.00	0.7722E-01	1.789	0.2333	0.1114	0.2154	54.09	0.2192E-06	0.8786
20.00	0.1064	1.611	0.2502	0.1085	0.2285	32.25	0.2111E-06	0.5583
25.00	0.1412	1.541	0.2723	0.1055	0.2313	24.12	0.2016E-06	0.4493
30.00	0.1770	1.494	0.2959	0.1024	0.2281	20.27	0.1931E-06	0.4059
40.00	0.2459	1.415	0.3430	0.9631E-01	0.2136	17.01	0.1788E-06	0.3908
50.00	0.3081	1.347	0.3874	0.9044E-01	0.1969	15.87	0.1683E-06	0.4119
60.00	0.3624	1.286	0.4277	0.8498E-01	0.1822	15.48	0.1617E-06	0.4445
80.00	0.4492	1.187	0.4954	0.7547E-01	0.1624	15.49	0.1585E-06	0.5100
100.0	0.5129	1.111	0.5485	0.6767E-01	0.1531	15.87	0.1655E-06	0.5572
120.0	0.5608	1.052	0.5903	0.6128E-01	0.1505	16.20	0.1796E-06	0.5781
140.0	0.5979	1.005	0.6241	0.5598E-01	0.1516	16.79	0.1986E-06	0.5923
160.0	0.6277	0.9676	0.6520	0.5153E-01	0.1547	17.40	0.2212E-06	0.5984
180.0	0.6525	0.9368	0.6756	0.4775E-01	0.1591	18.02	0.2463E-06	0.6001
200.0	0.6735	0.9113	0.6960	0.4450E-01	0.1641	18.65	0.2736E-06	0.5996
220.0	0.6918	0.8898	0.7138	0.4167E-01	0.1694	19.28	0.3026E-06	0.5979
240.0	0.7080	0.8715	0.7295	0.3919E-01	0.1749	19.89	0.3331E-06	0.5957
260.0	0.7224	0.8557	0.7437	0.3699E-01	0.1806	20.50	0.3651E-06	0.5933
280.0	0.7355	0.8419	0.7564	0.3503E-01	0.1862	21.11	0.3983E-06	0.5908
300.0	0.7475	0.8299	0.7680	0.3327E-01	0.1919	21.70	0.4327E-06	0.5883
350.0	0.7733	0.8056	0.7930	0.2957E-01	0.2059	23.73	0.5241E-06	0.5973
400.0	0.7947	0.7871	0.8135	0.2661E-01	0.2198	25.71	0.6226E-06	0.6050
500.0	0.8283	0.7611	0.8452	0.2218E-01	0.2471	29.55	0.8407E-06	0.6172
600.0	0.8534	0.7437	0.8685	0.1902E-01	0.2738	33.24	0.1087E-05	0.6262
700.0	0.8728	0.7315	0.8863	0.1664E-01	0.2998	36.79	0.1359E-05	0.6328
800.0	0.8881	0.7224	0.9003	0.1479E-01	0.3254	40.23	0.1659E-05	0.6378
900.0	0.9005	0.7154	0.9116	0.1331E-01	0.3504	43.57	0.1984E-05	0.6416
1000.	0.9107	0.7099	0.9207	0.1209E-01	0.3749	46.82	0.2335E-05	0.6447
1100.	0.9192	0.7055	0.9283	0.1108E-01	0.3989	49.99	0.2709E-05	0.6471
1200.	0.9263	0.7018	0.9347	0.1022E-01	0.4224	53.08	0.3108E-05	0.6492
1300.	0.9324	0.6988	0.9402	0.9488E-02	0.4455	56.11	0.3530E-05	0.6509
1400.	0.9377	0.6962	0.9448	0.8852E-02	0.4682	59.09	0.3974E-05	0.6524
1500.	0.9423	0.6940	0.9489	0.8295E-02	0.4905	62.00	0.4441E-05	0.6536

PRESSURE = 80.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	12.07	294.5	10.84	61.01	332.7	2.346	3.077	3.622	1150.
	15.00	289.8	8.860	66.98	343.0	3.112	3.110	3.540	1154.
	20.00	282.9	6.806	78.82	361.6	4.178	3.369	3.899	1149.
	25.00	276.0	5.581	92.11	382.0	5.085	3.534	4.232	1141.
	30.00	268.9	4.773	106.3	403.8	5.880	3.616	4.487	1133.
	40.00	254.7	3.780	136.4	450.5	7.222	3.658	4.832	1121.
	50.00	240.8	3.199	167.8	500.0	8.325	3.635	5.045	1114.
	60.00	227.7	2.819	199.9	551.2	9.258	3.594	5.179	1112.
	80.00	204.4	2.355	265.0	656.3	10.77	3.514	5.316	1118.
	100.0	184.9	2.083	330.5	763.2	11.96	3.448	5.361	1132.
	120.0	168.6	1.904	395.9	870.5	12.94	3.398	5.365	1150.
	140.0	154.9	1.776	461.1	977.7	13.77	3.359	5.350	1171.
	160.0	143.2	1.681	525.9	1084.	14.48	3.328	5.329	1193.
	180.0	133.2	1.606	590.4	1191.	15.11	3.303	5.306	1216.
	200.0	124.6	1.546	654.7	1297.	15.66	3.283	5.285	1239.
	220.0	117.0	1.496	718.6	1402.	16.17	3.266	5.265	1262.
	240.0	110.3	1.454	782.4	1507.	16.62	3.252	5.248	1286.
	260.0	104.4	1.419	845.9	1612.	17.04	3.240	5.233	1309.
	280.0	99.09	1.388	909.3	1717.	17.43	3.230	5.221	1332.
	300.0	94.29	1.361	972.6	1821.	17.79	3.221	5.210	1355.
	350.0	84.15	1.308	1130.	2081.	18.59	3.203	5.189	1412.
	400.0	76.00	1.267	1287.	2340.	19.28	3.190	5.175	1466.
	500.0	63.68	1.210	1601.	2857.	20.44	3.171	5.161	1571.
	600.0	54.81	1.171	1913.	3373.	21.38	3.160	5.155	1671.
	700.0	48.10	1.144	2225.	3888.	22.17	3.151	5.154	1766.
	800.0	42.85	1.124	2536.	4403.	22.86	3.146	5.155	1857.
	900.0	38.62	1.108	2848.	4919.	23.47	3.141	5.157	1944.
	1000.	35.15	1.096	3159.	5435.	24.01	3.138	5.159	2028.
	1100.	32.25	1.086	3470.	5951.	24.50	3.135	5.161	2108.
	1200.	29.79	1.077	3781.	6467.	24.95	3.133	5.163	2187.
	1300.	27.68	1.070	4093.	6983.	25.37	3.131	5.165	2262.
	1400.	25.84	1.065	4404.	7500.	25.75	3.129	5.167	2336.
	1500.	24.23	1.060	4715.	8017.	26.10	3.128	5.168	2407.

PRESSURE = 80.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
12.07	0.7646E-01	2.314	0.2416	0.1170	0.2213	125.6	0.2075E-06	2.056
15.00	0.7425E-01	1.862	0.2360	0.1151	0.2373	69.48	0.2313E-06	1.036
20.00	0.9645E-01	1.634	0.2478	0.1123	0.2528	38.78	0.2292E-06	0.5981
25.00	0.1267	1.559	0.2667	0.1095	0.2574	27.94	0.2204E-06	0.4594
30.00	0.1589	1.515	0.2876	0.1066	0.2553	22.92	0.2115E-06	0.4028
40.00	0.2223	1.445	0.3304	0.1008	0.2409	18.67	0.1958E-06	0.3745
50.00	0.2808	1.382	0.3714	0.9523E-01	0.2227	17.13	0.1833E-06	0.3881
60.00	0.3327	1.325	0.4091	0.8996E-01	0.2057	16.53	0.1744E-06	0.4163
80.00	0.4178	1.228	0.4737	0.8060E-01	0.1808	16.33	0.1664E-06	0.4801
100.0	0.4819	1.151	0.5253	0.7278E-01	0.1673	16.59	0.1688E-06	0.5314
120.0	0.5309	1.090	0.5668	0.6627E-01	0.1616	16.83	0.1787E-06	0.5587
140.0	0.5693	1.041	0.6006	0.6081E-01	0.1606	17.34	0.1938E-06	0.5776
160.0	0.6003	1.001	0.6287	0.5619E-01	0.1624	17.89	0.2127E-06	0.5871
180.0	0.6260	0.9686	0.6526	0.5223E-01	0.1657	18.45	0.2344E-06	0.5908
200.0	0.6479	0.9410	0.6733	0.4880E-01	0.1701	19.03	0.2583E-06	0.5914
220.0	0.6670	0.9176	0.6914	0.4581E-01	0.1749	19.61	0.2839E-06	0.5903
240.0	0.6838	0.8976	0.7076	0.4317E-01	0.1801	20.19	0.3110E-06	0.5883
260.0	0.6988	0.8803	0.7221	0.4083E-01	0.1854	20.76	0.3394E-06	0.5859
280.0	0.7125	0.8651	0.7352	0.3873E-01	0.1909	21.33	0.3690E-06	0.5833
300.0	0.7249	0.8518	0.7472	0.3684E-01	0.1964	21.88	0.3997E-06	0.5806
350.0	0.7518	0.8248	0.7731	0.3285E-01	0.2101	23.90	0.4810E-06	0.5904
400.0	0.7743	0.8041	0.7945	0.2965E-01	0.2236	25.87	0.5686E-06	0.5987
500.0	0.8097	0.7748	0.8280	0.2482E-01	0.2503	29.69	0.7616E-06	0.6121
600.0	0.8365	0.7551	0.8530	0.2134E-01	0.2764	33.36	0.9783E-06	0.6222
700.0	0.8575	0.7412	0.8723	0.1872E-01	0.3020	36.90	0.1218E-05	0.6297
800.0	0.8742	0.7308	0.8876	0.1667E-01	0.3271	40.33	0.1481E-05	0.6355
900.0	0.8878	0.7228	0.8999	0.1502E-01	0.3518	43.66	0.1766E-05	0.6400
1000.	0.8990	0.7165	0.9101	0.1367E-01	0.3760	46.90	0.2073E-05	0.6435
1100.	0.9084	0.7114	0.9185	0.1254E-01	0.3998	50.06	0.2402E-05	0.6463
1200.	0.9164	0.7072	0.9257	0.1158E-01	0.4231	53.16	0.2751E-05	0.6486
1300.	0.9232	0.7037	0.9318	0.1075E-01	0.4461	56.18	0.3121E-05	0.6505
1400.	0.9291	0.7007	0.9370	0.1004E-01	0.4686	59.15	0.3510E-05	0.6521
1500.	0.9342	0.6981	0.9416	0.9413E-02	0.4908	62.06	0.3919E-05	0.6535

PRESSURE = 90.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	13.00	301.3	11.06	68.41	367.1	2.413	3.246	3.840	1196.
	15.00	298.0	9.692	72.56	374.5	2.944	3.185	3.650	1200.
	20.00	291.3	7.437	84.20	393.2	4.016	3.368	3.868	1199.
	25.00	284.7	6.086	97.23	413.3	4.912	3.528	4.170	1193.
	30.00	278.1	5.193	111.2	434.8	5.696	3.616	4.418	1185.
	40.00	264.6	4.093	140.7	480.8	7.018	3.669	4.765	1174.
	50.00	251.4	3.447	171.7	529.7	8.107	3.653	4.986	1168.
	60.00	238.7	3.025	203.3	580.3	9.029	3.616	5.130	1165.
	80.00	215.9	2.508	267.9	684.7	10.53	3.536	5.285	1169.
	100.0	196.5	2.205	333.0	791.1	11.72	3.470	5.345	1181.
	120.0	180.0	2.006	398.2	898.2	12.69	3.418	5.359	1198.
	140.0	166.0	1.864	463.2	1005.	13.52	3.377	5.352	1217.
	160.0	154.1	1.758	528.0	1112.	14.23	3.344	5.335	1238.
	180.0	143.7	1.675	592.5	1219.	14.86	3.318	5.315	1259.
	200.0	134.7	1.608	656.7	1325.	15.42	3.297	5.294	1281.
	220.0	126.8	1.553	720.7	1430.	15.92	3.279	5.275	1304.
	240.0	119.8	1.507	784.5	1536.	16.38	3.264	5.258	1326.
	260.0	113.5	1.468	848.2	1641.	16.80	3.251	5.243	1349.
	280.0	107.9	1.434	911.6	1746.	17.19	3.240	5.229	1371.
	300.0	102.9	1.404	974.9	1850.	17.55	3.230	5.217	1393.
	350.0	92.07	1.344	1133.	2110.	18.35	3.211	5.195	1447.
	400.0	83.37	1.299	1290.	2370.	19.04	3.197	5.179	1500.
	500.0	70.14	1.235	1603.	2886.	20.20	3.177	5.162	1602.
	600.0	60.55	1.193	1916.	3402.	21.14	3.164	5.155	1700.
	700.0	53.26	1.162	2228.	3918.	21.93	3.155	5.152	1792.
	800.0	47.53	1.139	2539.	4433.	22.62	3.149	5.152	1881.
	900.0	42.91	1.122	2851.	4948.	23.23	3.144	5.154	1967.
	1000.	39.11	1.108	3162.	5464.	23.77	3.140	5.156	2049.
	1100.	35.92	1.097	3473.	5979.	24.26	3.137	5.158	2129.
	1200.	33.20	1.087	3785.	6495.	24.71	3.135	5.160	2206.
	1300.	30.87	1.080	4096.	7011.	25.12	3.133	5.162	2281.
	1400.	28.84	1.073	4407.	7527.	25.51	3.131	5.164	2353.
	1500.	27.06	1.067	4718.	8044.	25.86	3.130	5.165	2424.

PRESSURE = 90.00 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_p$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
13.00	0.7992E-01	2.289	0.2471	0.1197	0.2482	135.6	0.2145E-06	2.097
15.00	0.7448E-01	1.958	0.2404	0.1184	0.2591	88.84	0.2382E-06	1.251
20.00	0.8939E-01	1.661	0.2468	0.1157	0.2767	46.32	0.2456E-06	0.6475
25.00	0.1155	1.576	0.2627	0.1130	0.2830	32.15	0.2383E-06	0.4739
30.00	0.1446	1.533	0.2813	0.1103	0.2819	25.75	0.2294E-06	0.4036
40.00	0.2032	1.470	0.3204	0.1049	0.2680	20.39	0.2125E-06	0.3625
50.00	0.2583	1.412	0.3585	0.9950E-01	0.2486	18.41	0.1984E-06	0.3692
60.00	0.3080	1.359	0.3939	0.9440E-01	0.2296	17.59	0.1875E-06	0.3930
80.00	0.3911	1.265	0.4556	0.8521E-01	0.2000	17.16	0.1752E-06	0.4536
100.0	0.4551	1.188	0.5058	0.7741E-01	0.1823	17.30	0.1736E-06	0.5073
120.0	0.5047	1.126	0.5466	0.7082E-01	0.1733	17.45	0.1797E-06	0.5394
140.0	0.5440	1.075	0.5802	0.6525E-01	0.1700	17.88	0.1914E-06	0.5628
160.0	0.5759	1.033	0.6084	0.6049E-01	0.1702	18.36	0.2071E-06	0.5756
180.0	0.6024	0.9987	0.6324	0.5638E-01	0.1725	18.87	0.2258E-06	0.5816
200.0	0.6250	0.9694	0.6533	0.5281E-01	0.1760	19.40	0.2468E-06	0.5835
220.0	0.6447	0.9443	0.6717	0.4968E-01	0.1804	19.94	0.2696E-06	0.5831
240.0	0.6620	0.9228	0.6880	0.4691E-01	0.1851	20.47	0.2939E-06	0.5814
260.0	0.6776	0.9041	0.7028	0.4443E-01	0.1902	21.01	0.3195E-06	0.5791
280.0	0.6916	0.8877	0.7162	0.4222E-01	0.1954	21.54	0.3462E-06	0.5764
300.0	0.7044	0.8732	0.7284	0.4022E-01	0.2007	22.07	0.3740E-06	0.5736
350.0	0.7322	0.8436	0.7549	0.3597E-01	0.2141	24.06	0.4476E-06	0.5839
400.0	0.7555	0.8208	0.7770	0.3254E-01	0.2274	26.02	0.5266E-06	0.5927
500.0	0.7924	0.7884	0.8119	0.2735E-01	0.2535	29.82	0.7003E-06	0.6071
600.0	0.8207	0.7665	0.8383	0.2359E-01	0.2792	33.48	0.8945E-06	0.6181
700.0	0.8429	0.7509	0.8588	0.2074E-01	0.3043	37.01	0.1109E-05	0.6266
800.0	0.8608	0.7392	0.8753	0.1850E-01	0.3290	40.43	0.1343E-05	0.6331
900.0	0.8754	0.7302	0.8886	0.1670E-01	0.3533	43.75	0.1597E-05	0.6382
1000.	0.8876	0.7231	0.8997	0.1521E-01	0.3772	46.98	0.1871E-05	0.6422
1100.	0.8979	0.7173	0.9089	0.1397E-01	0.4007	50.14	0.2163E-05	0.6454
1200.	0.9066	0.7126	0.9168	0.1291E-01	0.4238	53.23	0.2474E-05	0.6480
1300.	0.9141	0.7086	0.9235	0.1200E-01	0.4466	56.25	0.2803E-05	0.6501
1400.	0.9206	0.7052	0.9293	0.1121E-01	0.4690	59.21	0.3149E-05	0.6519
1500.	0.9263	0.7023	0.9344	0.1052E-01	0.4910	62.12	0.3513E-05	0.6535

PRESSURE = 100.00 [MPa]

	TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
M	13.89	307.7	11.26	75.76	400.8	2.476	3.397	4.039	1238.
	15.00	305.8	10.50	78.10	405.1	2.777	3.311	3.846	1241.
	20.00	298.9	8.052	89.62	424.1	3.869	3.378	3.863	1245.
	25.00	292.7	6.579	102.4	444.1	4.759	3.523	4.123	1240.
	30.00	286.4	5.603	116.1	465.3	5.532	3.614	4.359	1234.
	40.00	273.6	4.399	145.2	510.7	6.837	3.677	4.704	1224.
	50.00	260.9	3.690	175.7	559.0	7.913	3.668	4.931	1217.
	60.00	248.7	3.226	207.0	609.1	8.826	3.634	5.083	1214.
	80.00	226.4	2.658	271.0	712.7	10.32	3.556	5.255	1218.
	100.0	207.0	2.325	335.7	818.7	11.50	3.489	5.328	1228.
	120.0	190.5	2.106	400.6	925.5	12.47	3.435	5.352	1243.
	140.0	176.3	1.950	465.4	1033.	13.30	3.393	5.352	1261.
	160.0	164.1	1.834	530.1	1140.	14.01	3.359	5.339	1281.
	180.0	153.5	1.743	594.6	1246.	14.64	3.332	5.322	1301.
	200.0	144.2	1.669	658.8	1352.	15.20	3.310	5.303	1322.
	220.0	136.0	1.609	722.9	1458.	15.70	3.291	5.285	1344.
	240.0	128.7	1.559	786.7	1564.	16.16	3.275	5.267	1365.
	260.0	122.2	1.516	850.4	1669.	16.58	3.261	5.252	1387.
	280.0	116.3	1.479	913.9	1774.	16.97	3.250	5.238	1408.
	300.0	111.0	1.446	977.3	1878.	17.33	3.239	5.225	1430.
	350.0	99.61	1.381	1135.	2139.	18.14	3.219	5.201	1482.
	400.0	90.40	1.331	1293.	2399.	18.83	3.204	5.184	1534.
	500.0	76.34	1.261	1606.	2916.	19.98	3.182	5.163	1633.
	600.0	66.09	1.214	1919.	3432.	20.92	3.169	5.154	1728.
	700.0	58.26	1.180	2231.	3947.	21.72	3.159	5.151	1819.
	800.0	52.09	1.155	2542.	4462.	22.41	3.152	5.150	1906.
	900.0	47.10	1.136	2854.	4977.	23.01	3.147	5.151	1990.
	1000.	42.97	1.120	3165.	5492.	23.55	3.143	5.153	2071.
	1100.	39.51	1.108	3476.	6008.	24.05	3.139	5.155	2150.
	1200.	36.55	1.097	3788.	6523.	24.49	3.137	5.157	2226.
	1300.	34.01	1.089	4099.	7039.	24.91	3.134	5.159	2299.
	1400.	31.80	1.081	4410.	7555.	25.29	3.133	5.161	2371.
	1500.	29.85	1.075	4721.	8071.	25.65	3.131	5.163	2441.

PRESSURE = 100.00 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_v}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1	CONDUCT [W/m·K]	VISC [μPa·s]	THDIFF [m^2/s]	PRANDTL
13.89	0.8316E-01	2.273	0.2520	0.1223	0.2752	144.8	0.2215E-06	2.125
15.00	0.7780E-01	2.078	0.2466	0.1216	0.2810	113.4	0.2389E-06	1.552
20.00	0.8459E-01	1.697	0.2469	0.1188	0.3002	55.02	0.2599E-06	0.7080
25.00	0.1068	1.594	0.2599	0.1162	0.3080	36.80	0.2552E-06	0.4926
30.00	0.1330	1.549	0.2765	0.1137	0.3080	28.78	0.2467E-06	0.4073
40.00	0.1874	1.491	0.3123	0.1085	0.2948	22.16	0.2290E-06	0.3538
50.00	0.2394	1.439	0.3478	0.1033	0.2745	19.71	0.2133E-06	0.3541
60.00	0.2871	1.388	0.3813	0.9841E-01	0.2537	18.65	0.2007E-06	0.3737
80.00	0.3680	1.298	0.4404	0.8941E-01	0.2197	17.99	0.1847E-06	0.4305
100.0	0.4316	1.222	0.4891	0.8164E-01	0.1978	18.00	0.1793E-06	0.4849
120.0	0.4815	1.159	0.5292	0.7502E-01	0.1856	18.06	0.1820E-06	0.5208
140.0	0.5214	1.107	0.5624	0.6935E-01	0.1798	18.41	0.1906E-06	0.5480
160.0	0.5540	1.064	0.5905	0.6448E-01	0.1783	18.83	0.2035E-06	0.5640
180.0	0.5812	1.027	0.6146	0.6026E-01	0.1793	19.29	0.2195E-06	0.5724
200.0	0.6044	0.9965	0.6355	0.5657E-01	0.1820	19.76	0.2380E-06	0.5758
220.0	0.6246	0.9700	0.6540	0.5331E-01	0.1857	20.25	0.2584E-06	0.5763
240.0	0.6423	0.9471	0.6705	0.5042E-01	0.1901	20.75	0.2804E-06	0.5750
260.0	0.6582	0.9271	0.6854	0.4784E-01	0.1948	21.25	0.3036E-06	0.5728
280.0	0.6726	0.9095	0.6990	0.4552E-01	0.1998	21.75	0.3280E-06	0.5701
300.0	0.6858	0.8940	0.7114	0.4341E-01	0.2049	22.24	0.3534E-06	0.5672
350.0	0.7143	0.8620	0.7384	0.3894E-01	0.2179	24.22	0.4206E-06	0.5781
400.0	0.7381	0.8373	0.7610	0.3531E-01	0.2310	26.17	0.4929E-06	0.5873
500.0	0.7763	0.8018	0.7970	0.2979E-01	0.2567	29.95	0.6512E-06	0.6023
600.0	0.8057	0.7778	0.8244	0.2576E-01	0.2819	33.59	0.8275E-06	0.6142
700.0	0.8290	0.7606	0.8460	0.2270E-01	0.3066	37.11	0.1022E-05	0.6234
800.0	0.8479	0.7477	0.8634	0.2028E-01	0.3309	40.52	0.1233E-05	0.6306
900.0	0.8635	0.7377	0.8777	0.1833E-01	0.3549	43.83	0.1463E-05	0.6363
1000.	0.8766	0.7297	0.8895	0.1672E-01	0.3784	47.06	0.1709E-05	0.6408
1100.	0.8876	0.7233	0.8995	0.1537E-01	0.4017	50.21	0.1972E-05	0.6444
1200.	0.8970	0.7180	0.9080	0.1422E-01	0.4246	53.29	0.2252E-05	0.6473
1300.	0.9052	0.7136	0.9154	0.1322E-01	0.4471	56.31	0.2548E-05	0.6497
1400.	0.9122	0.7098	0.9217	0.1236E-01	0.4693	59.27	0.2860E-05	0.6517
1500.	0.9184	0.7065	0.9272	0.1160E-01	0.4913	62.18	0.3188E-05	0.6534

PRESSURE = 120.0 [MPa]

TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
80.00	244.7	2.951	277.7	768.0	9.945	3.590	5.197	1306.
100.0	225.8	2.559	341.5	873.0	11.12	3.523	5.294	1315.
120.0	209.2	2.301	405.9	979.4	12.09	3.467	5.336	1328.
140.0	194.8	2.118	470.3	1086.	12.91	3.423	5.348	1344.
160.0	182.2	1.981	534.8	1193.	13.62	3.387	5.345	1362.
180.0	171.2	1.875	599.1	1300.	14.25	3.357	5.333	1380.
200.0	161.5	1.789	663.3	1407.	14.81	3.333	5.318	1400.
220.0	152.8	1.719	727.3	1513.	15.32	3.313	5.301	1419.
240.0	145.0	1.660	791.2	1619.	15.78	3.295	5.285	1439.
260.0	138.0	1.610	854.9	1724.	16.20	3.280	5.269	1460.
280.0	131.7	1.566	918.4	1829.	16.59	3.267	5.255	1480.
300.0	126.0	1.528	981.9	1934.	16.96	3.256	5.242	1500.

PRESSURE = 150.0 [MPa]

TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
80.00	267.7	3.372	288.7	849.0	9.495	3.629	5.116	1424.
100.0	249.4	2.895	351.3	952.7	10.65	3.564	5.241	1431.
120.0	233.1	2.582	414.7	1058.	11.61	3.507	5.306	1442.
140.0	218.6	2.360	478.5	1165.	12.43	3.461	5.337	1456.
160.0	205.7	2.194	542.4	1272.	13.15	3.422	5.347	1472.
180.0	194.3	2.065	606.4	1378.	13.78	3.390	5.344	1489.
200.0	184.1	1.962	670.3	1485.	14.34	3.364	5.335	1506.
220.0	174.9	1.877	734.2	1592.	14.85	3.341	5.323	1524.
240.0	166.6	1.806	798.0	1698.	15.31	3.322	5.309	1543.
260.0	159.1	1.745	861.7	1804.	15.73	3.306	5.294	1561.
280.0	152.3	1.693	925.2	1910.	16.13	3.291	5.280	1580.
300.0	146.1	1.648	988.7	2015.	16.49	3.279	5.267	1598.

PRESSURE = 200.0 [MPa]

TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
80.00	298.1	4.037	308.5	979.3	8.918	3.670	4.994	1592.
100.0	281.0	3.427	369.1	1081.	10.05	3.613	5.154	1598.
120.0	265.2	3.025	430.9	1185.	11.00	3.558	5.251	1608.
140.0	250.9	2.741	493.5	1291.	11.81	3.510	5.308	1620.
160.0	237.9	2.530	556.4	1397.	12.52	3.470	5.338	1633.
180.0	226.1	2.365	619.7	1504.	13.15	3.436	5.351	1648.
200.0	215.5	2.234	683.0	1611.	13.72	3.406	5.353	1664.
220.0	205.8	2.126	746.5	1718.	14.23	3.382	5.349	1680.
240.0	197.0	2.036	809.9	1825.	14.69	3.360	5.340	1696.
260.0	189.0	1.960	873.4	1932.	15.12	3.341	5.330	1713.
280.0	181.6	1.894	936.8	2038.	15.52	3.325	5.318	1730.
300.0	174.8	1.836	1000.	2144.	15.88	3.311	5.305	1746.

PRESSURE = 300.0 [MPa]

TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
80.00	342.6	5.269	350.5	1226.	8.112	3.704	4.795	1862.
100.0	327.4	4.411	407.8	1324.	9.204	3.667	4.994	1867.
120.0	312.9	3.847	466.6	1425.	10.13	3.622	5.134	1876.
140.0	299.2	3.447	526.6	1529.	10.93	3.578	5.230	1887.
160.0	286.5	3.150	587.5	1634.	11.63	3.538	5.294	1899.
180.0	274.8	2.920	649.0	1741.	12.26	3.502	5.335	1912.
200.0	263.9	2.737	710.9	1848.	12.82	3.471	5.360	1926.
220.0	253.8	2.586	773.1	1955.	13.33	3.443	5.373	1940.
240.0	244.5	2.461	835.6	2063.	13.80	3.419	5.379	1955.
260.0	235.9	2.355	898.3	2170.	14.23	3.398	5.378	1970.
280.0	227.8	2.264	961.0	2278.	14.63	3.379	5.374	1985.
300.0	220.4	2.184	1024.	2385.	15.00	3.362	5.367	2000.

PRESSURE = 120.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_V}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1
80.00	0.3302	1.355	0.4160	0.9681E-01
100.0	0.3923	1.281	0.4619	0.8917E-01
120.0	0.4423	1.218	0.5004	0.8252E-01
140.0	0.4829	1.165	0.5329	0.7675E-01
160.0	0.5164	1.119	0.5605	0.7172E-01
180.0	0.5446	1.081	0.5844	0.6732E-01
200.0	0.5686	1.047	0.6053	0.6343E-01
220.0	0.5895	1.018	0.6239	0.5998E-01
240.0	0.6080	0.9932	0.6404	0.5690E-01
260.0	0.6245	0.9710	0.6555	0.5413E-01
280.0	0.6394	0.9514	0.6691	0.5163E-01
300.0	0.6530	0.9339	0.6817	0.4935E-01

PRESSURE = 150.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_V}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1
80.00	0.2875	1.425	0.3894	0.1061
100.0	0.3470	1.356	0.4317	0.9871E-01
120.0	0.3962	1.295	0.4680	0.9212E-01
140.0	0.4371	1.241	0.4990	0.8628E-01
160.0	0.4712	1.193	0.5259	0.8112E-01
180.0	0.5002	1.152	0.5492	0.7653E-01
200.0	0.5251	1.116	0.5698	0.7245E-01
220.0	0.5467	1.085	0.5881	0.6879E-01
240.0	0.5659	1.057	0.6046	0.6549E-01
260.0	0.5829	1.032	0.6195	0.6251E-01
280.0	0.5984	1.010	0.6332	0.5980E-01
300.0	0.6124	0.9900	0.6458	0.5733E-01

PRESSURE = 200.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_V}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1
80.00	0.2384	1.513	0.3600	0.1185
100.0	0.2934	1.454	0.3976	0.1115
120.0	0.3406	1.397	0.4306	0.1051
140.0	0.3808	1.344	0.4595	0.9929E-01
160.0	0.4151	1.297	0.4849	0.9405E-01
180.0	0.4446	1.254	0.5072	0.8932E-01
200.0	0.4702	1.215	0.5270	0.8504E-01
220.0	0.4926	1.181	0.5448	0.8116E-01
240.0	0.5124	1.150	0.5608	0.7763E-01
260.0	0.5301	1.122	0.5754	0.7441E-01
280.0	0.5461	1.097	0.5888	0.7146E-01
300.0	0.5606	1.074	0.6011	0.6874E-01

PRESSURE = 300.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_V}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1
80.00	0.1805	1.631	0.3270	0.1366
100.0	0.2276	1.590	0.3578	0.1304
120.0	0.2703	1.544	0.3861	0.1245
140.0	0.3081	1.498	0.4116	0.1189
160.0	0.3415	1.454	0.4345	0.1137
180.0	0.3708	1.412	0.4550	0.1090
200.0	0.3967	1.372	0.4734	0.1045
220.0	0.4196	1.336	0.4901	0.1005
240.0	0.4401	1.303	0.5052	0.9671E-01
260.0	0.4584	1.272	0.5190	0.9323E-01
280.0	0.4750	1.243	0.5317	0.9000E-01
300.0	0.4900	1.217	0.5434	0.8700E-01

PRESSURE = 400.0 [MPa]

TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
80.00	375.4	6.412	393.4	1459.	7.545	3.712	4.649	2079.
100.0	361.7	5.325	448.1	1554.	8.605	3.689	4.854	2085.
120.0	348.3	4.608	504.4	1653.	9.505	3.656	5.019	2094.
140.0	335.4	4.101	562.1	1755.	10.29	3.619	5.142	2104.
160.0	323.2	3.723	620.9	1858.	10.98	3.582	5.232	2116.
180.0	311.7	3.432	680.5	1964.	11.60	3.548	5.297	2129.
200.0	300.9	3.200	740.8	2070.	12.16	3.516	5.342	2142.
220.0	290.8	3.010	801.7	2177.	12.67	3.488	5.373	2156.
240.0	281.3	2.852	863.0	2285.	13.14	3.463	5.393	2170.
260.0	272.4	2.719	924.6	2393.	13.57	3.440	5.404	2184.
280.0	264.1	2.604	986.5	2501.	13.97	3.420	5.409	2198.
300.0	256.3	2.504	1049.	2609.	14.35	3.402	5.410	2213.

PRESSURE = 500.0 [MPa]

TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
80.00	401.6	7.491	436.3	1681.	7.107	3.718	4.554	2264.
100.0	389.0	6.187	488.8	1774.	8.143	3.696	4.738	2271.
120.0	376.6	5.326	543.0	1871.	9.022	3.672	4.911	2280.
140.0	364.5	4.717	598.6	1970.	9.790	3.643	5.053	2290.
160.0	352.8	4.264	655.5	2073.	10.47	3.611	5.163	2302.
180.0	341.7	3.914	713.4	2177.	11.09	3.580	5.247	2314.
200.0	331.1	3.635	772.1	2282.	11.64	3.550	5.310	2328.
220.0	321.1	3.408	831.6	2389.	12.15	3.523	5.356	2341.
240.0	311.6	3.219	891.6	2496.	12.62	3.497	5.390	2355.
260.0	302.6	3.059	952.1	2604.	13.05	3.474	5.412	2369.
280.0	294.1	2.923	1013.	2713.	13.45	3.453	5.427	2383.
300.0	286.2	2.804	1074.	2822.	13.83	3.434	5.436	2398.

PRESSURE = 600.0 [MPa]

TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
80.00	423.7	8.521	478.5	1895.	6.746	3.738	4.511	2427.
100.0	412.0	7.012	529.5	1986.	7.766	3.698	4.646	2435.
120.0	400.3	6.013	581.8	2081.	8.628	3.678	4.815	2443.
140.0	388.9	5.305	635.6	2178.	9.382	3.656	4.966	2454.
160.0	377.8	4.779	690.8	2279.	10.05	3.630	5.091	2466.
180.0	367.0	4.372	747.0	2382.	10.66	3.602	5.190	2478.
200.0	356.7	4.049	804.3	2487.	11.21	3.575	5.268	2492.
220.0	346.8	3.786	862.3	2593.	11.72	3.549	5.329	2506.
240.0	337.4	3.567	921.1	2700.	12.18	3.524	5.374	2520.
260.0	328.4	3.383	980.5	2807.	12.61	3.501	5.409	2534.
280.0	319.9	3.225	1040.	2916.	13.01	3.480	5.433	2548.
300.0	311.8	3.088	1101.	3025.	13.39	3.461	5.450	2562.

PRESSURE = 800.0 [MPa]

TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
80.00	460.0	10.47	560.6	2300.	6.158	3.854	4.587	2710.
100.0	449.3	8.572	609.7	2390.	7.171	3.714	4.538	2718.
120.0	438.9	7.313	659.3	2482.	8.008	3.681	4.661	2727.
140.0	428.5	6.419	710.2	2577.	8.737	3.664	4.809	2737.
160.0	418.4	5.754	762.3	2675.	9.389	3.647	4.948	2748.
180.0	408.3	5.240	815.6	2775.	9.979	3.627	5.068	2761.
200.0	398.6	4.831	870.0	2877.	10.52	3.606	5.169	2775.
220.0	389.1	4.499	925.5	2981.	11.01	3.584	5.253	2789.
240.0	380.0	4.223	981.8	3087.	11.47	3.562	5.320	2803.
260.0	371.2	3.991	1039.	3194.	11.90	3.541	5.375	2818.
280.0	362.7	3.792	1097.	3302.	12.30	3.521	5.418	2832.
300.0	354.6	3.620	1155.	3411.	12.68	3.502	5.451	2847.

PRESSURE = 400.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1
80.00	0.1474	1.713	0.3089	0.1501
100.0	0.1878	1.682	0.3348	0.1444
120.0	0.2263	1.647	0.3597	0.1390
140.0	0.2616	1.609	0.3827	0.1337
160.0	0.2935	1.570	0.4037	0.1287
180.0	0.3221	1.531	0.4228	0.1240
200.0	0.3478	1.493	0.4402	0.1196
220.0	0.3707	1.457	0.4560	0.1155
240.0	0.3914	1.424	0.4704	0.1116
260.0	0.4100	1.392	0.4836	0.1080
280.0	0.4269	1.362	0.4957	0.1046
300.0	0.4423	1.334	0.5069	0.1015

PRESSURE = 500.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1
80.00	0.1264	1.779	0.2975	0.1609
100.0	0.1610	1.752	0.3196	0.1557
120.0	0.1957	1.725	0.3418	0.1506
140.0	0.2285	1.694	0.3628	0.1456
160.0	0.2588	1.660	0.3824	0.1408
180.0	0.2865	1.625	0.4004	0.1363
200.0	0.3117	1.590	0.4169	0.1319
220.0	0.3345	1.556	0.4320	0.1278
240.0	0.3552	1.523	0.4458	0.1239
260.0	0.3740	1.492	0.4586	0.1203
280.0	0.3911	1.462	0.4703	0.1168
300.0	0.4067	1.434	0.4812	0.1136

PRESSURE = 600.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1
80.00	0.1126	1.838	0.2901	0.1701
100.0	0.1418	1.809	0.3088	0.1652
120.0	0.1730	1.787	0.3286	0.1604
140.0	0.2034	1.762	0.3480	0.1557
160.0	0.2322	1.733	0.3664	0.1511
180.0	0.2589	1.702	0.3835	0.1466
200.0	0.2835	1.671	0.3993	0.1424
220.0	0.3060	1.639	0.4138	0.1383
240.0	0.3266	1.607	0.4272	0.1345
260.0	0.3454	1.577	0.4396	0.1308
280.0	0.3626	1.547	0.4510	0.1273
300.0	0.3784	1.519	0.4616	0.1240

PRESSURE = 800.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1
80.00	0.9752E-01	1.951	0.2819	0.1852
100.0	0.1167	1.900	0.2945	0.1807
120.0	0.1416	1.881	0.3105	0.1764
140.0	0.1676	1.865	0.3272	0.1721
160.0	0.1934	1.845	0.3435	0.1679
180.0	0.2180	1.822	0.3591	0.1637
200.0	0.2413	1.797	0.3737	0.1597
220.0	0.2630	1.770	0.3874	0.1558
240.0	0.2832	1.743	0.4002	0.1520
260.0	0.3019	1.715	0.4120	0.1484
280.0	0.3191	1.688	0.4230	0.1449
300.0	0.3351	1.661	0.4333	0.1416

PRESSURE = 1000.00 [MPa]

TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
80.00	489.7	12.29	638.7	2681.	5.661	4.117	4.909	2954.
100.0	479.3	10.04	687.6	2774.	6.702	3.772	4.535	2961.
120.0	469.7	8.541	735.6	2865.	7.528	3.689	4.562	2969.
140.0	460.3	7.471	784.3	2957.	8.240	3.663	4.681	2979.
160.0	450.9	6.674	834.0	3052.	8.874	3.649	4.817	2990.
180.0	441.5	6.057	884.8	3150.	9.449	3.635	4.947	3003.
200.0	432.4	5.567	936.8	3250.	9.976	3.620	5.062	3016.
220.0	423.4	5.169	989.9	3352.	10.46	3.603	5.162	3030.
240.0	414.6	4.839	1044.	3456.	10.92	3.585	5.247	3045.
260.0	406.0	4.560	1099.	3562.	11.34	3.567	5.318	3060.
280.0	397.8	4.323	1155.	3669.	11.74	3.549	5.377	3075.
300.0	389.8	4.117	1211.	3777.	12.11	3.531	5.426	3090.

PRESSURE = 1200.0 [MPa]

TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
80.00	515.3	14.01	712.4	3041.	5.193	4.570	5.530	3172.
100.0	504.7	11.45	762.9	3141.	6.304	3.893	4.643	3178.
120.0	495.6	9.714	810.3	3232.	7.135	3.717	4.519	3185.
140.0	486.8	8.477	857.4	3323.	7.835	3.665	4.585	3194.
160.0	478.1	7.552	905.3	3415.	8.455	3.646	4.704	3204.
180.0	469.4	6.838	954.1	3511.	9.017	3.635	4.832	3216.
200.0	460.7	6.269	1004.	3609.	9.532	3.624	4.954	3229.
220.0	452.2	5.807	1055.	3709.	10.01	3.612	5.065	3243.
240.0	443.8	5.424	1107.	3811.	10.45	3.598	5.163	3257.
260.0	435.5	5.102	1160.	3915.	10.87	3.583	5.248	3272.
280.0	427.5	4.827	1214.	4021.	11.26	3.568	5.320	3288.
300.0	419.6	4.589	1268.	4128.	11.63	3.552	5.382	3303.

PRESSURE = 1400.0 [MPa]

TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
80.00	538.2	15.65	781.4	3383.	4.717	5.258	6.532	3372.
100.0	526.9	12.79	835.5	3493.	5.948	4.090	4.872	3376.
120.0	518.0	10.84	883.1	3586.	6.798	3.775	4.537	3381.
140.0	509.7	9.445	929.4	3676.	7.494	3.677	4.524	3388.
160.0	501.5	8.399	975.8	3767.	8.103	3.643	4.611	3397.
180.0	493.4	7.589	1023.	3861.	8.653	3.630	4.729	3408.
200.0	485.2	6.945	1071.	3956.	9.158	3.621	4.851	3421.
220.0	477.1	6.421	1120.	4055.	9.626	3.613	4.968	3434.
240.0	469.0	5.987	1170.	4155.	10.06	3.603	5.075	3449.
260.0	461.1	5.622	1221.	4258.	10.47	3.591	5.170	3464.
280.0	453.3	5.310	1273.	4362.	10.86	3.579	5.254	3479.
300.0	445.7	5.041	1326.	4468.	11.22	3.566	5.327	3495.

PRESSURE = 1600.0 [MPa]

TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_V [J/g·K]	C_P [J/g·K]	VSOUND [m/s]
80.00	559.2	17.22	845.0	3706.	4.202	6.233	8.049	3560.
100.0	546.8	14.09	905.1	3831.	5.613	4.376	5.235	3559.
120.0	537.9	11.93	954.0	3929.	6.499	3.869	4.615	3562.
140.0	529.9	10.38	1000.	4019.	7.198	3.704	4.497	3567.
160.0	522.2	9.219	1045.	4109.	7.801	3.646	4.540	3575.
180.0	514.5	8.317	1091.	4201.	8.341	3.625	4.639	3585.
200.0	506.8	7.600	1138.	4295.	8.836	3.616	4.756	3596.
220.0	499.1	7.016	1185.	4391.	9.294	3.609	4.873	3609.
240.0	491.4	6.531	1234.	4490.	9.723	3.602	4.985	3623.
260.0	483.8	6.124	1283.	4591.	10.13	3.594	5.088	3638.
280.0	476.2	5.777	1334.	4694.	10.51	3.584	5.181	3654.
300.0	468.8	5.477	1385.	4798.	10.87	3.574	5.263	3669.

PRESSURE = 1000.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1
80.00	0.9311E-01	2.068	0.2792	0.1977
100.0	0.1022	1.977	0.2860	0.1933
120.0	0.1212	1.952	0.2986	0.1893
140.0	0.1433	1.940	0.3129	0.1853
160.0	0.1661	1.927	0.3275	0.1814
180.0	0.1887	1.911	0.3418	0.1775
200.0	0.2105	1.892	0.3555	0.1737
220.0	0.2313	1.870	0.3685	0.1700
240.0	0.2509	1.847	0.3807	0.1663
260.0	0.2692	1.823	0.3922	0.1628
280.0	0.2864	1.798	0.4029	0.1593
300.0	0.3024	1.774	0.4129	0.1560

PRESSURE = 1200.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1
80.00	0.9612E-01	2.186	0.2801	0.2084
100.0	0.9413E-01	2.048	0.2808	0.2040
120.0	0.1074	2.010	0.2902	0.2001
140.0	0.1258	1.998	0.3024	0.1965
160.0	0.1459	1.990	0.3155	0.1928
180.0	0.1665	1.979	0.3287	0.1891
200.0	0.1868	1.965	0.3416	0.1855
220.0	0.2065	1.949	0.3539	0.1820
240.0	0.2254	1.930	0.3657	0.1784
260.0	0.2433	1.910	0.3768	0.1750
280.0	0.2602	1.888	0.3873	0.1717
300.0	0.2761	1.866	0.3972	0.1684

PRESSURE = 1400.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1
80.00	0.1055	2.297	0.2842	0.2181
100.0	0.9042E-01	2.115	0.2778	0.2133
120.0	0.9805E-01	2.059	0.2842	0.2096
140.0	0.1128	2.044	0.2944	0.2061
160.0	0.1303	2.038	0.3061	0.2026
180.0	0.1490	2.033	0.3183	0.1992
200.0	0.1678	2.024	0.3304	0.1958
220.0	0.1865	2.012	0.3422	0.1924
240.0	0.2045	1.997	0.3535	0.1890
260.0	0.2219	1.981	0.3643	0.1857
280.0	0.2385	1.962	0.3746	0.1824
300.0	0.2542	1.943	0.3843	0.1792

PRESSURE = 1600.00 [MPa]

TEMP [K]	$\left(\frac{T}{V}\frac{\partial V}{\partial T}\right)_P$	$\left(\frac{V}{C_v}\frac{\partial P}{\partial T}\right)_V$	$\left(\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right)_T$	DIEL - 1
80.00	0.1217	2.394	0.2916	0.2270
100.0	0.9007E-01	2.179	0.2764	0.2217
120.0	0.9175E-01	2.102	0.2797	0.2180
140.0	0.1030	2.081	0.2881	0.2146
160.0	0.1181	2.077	0.2985	0.2114
180.0	0.1348	2.075	0.3097	0.2081
200.0	0.1523	2.071	0.3211	0.2049
220.0	0.1698	2.063	0.3323	0.2016
240.0	0.1870	2.053	0.3432	0.1984
260.0	0.2038	2.040	0.3538	0.1952
280.0	0.2200	2.024	0.3638	0.1920
300.0	0.2355	2.008	0.3734	0.1889

PRESSURE = 1800.0 [MPa]

TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
80.00	579.1	18.70	902.6	4011.	3.618	7.568	10.30	3738.
100.0	564.8	15.34	971.8	4159.	5.285	4.764	5.750	3730.
120.0	555.8	12.99	1023.	4261.	6.226	4.005	4.758	3731.
140.0	548.1	11.29	1069.	4353.	6.936	3.750	4.506	3734.
160.0	540.7	10.02	1114.	4443.	7.535	3.657	4.491	3740.
180.0	533.4	9.026	1159.	4534.	8.068	3.622	4.563	3749.
200.0	526.1	8.236	1204.	4626.	8.554	3.609	4.669	3759.
220.0	518.7	7.593	1250.	4720.	9.004	3.603	4.783	3772.
240.0	511.4	7.060	1297.	4817.	9.425	3.598	4.897	3785.
260.0	504.1	6.612	1345.	4916.	9.821	3.592	5.005	3799.
280.0	496.8	6.230	1394.	5017.	10.20	3.585	5.104	3815.
300.0	489.6	5.900	1444.	5120.	10.55	3.577	5.194	3830.

PRESSURE = 2000.0 [MPa]

TEMP [K]	DENSITY [kg/m^3]	PV/RT [-]	ENERGY [J/g]	ENTHALPY [J/g]	ENTROPY [J/g·K]	C_v [J/g·K]	C_p [J/g·K]	VSOUND [m/s]
80.00	598.4	20.11	952.8	4295.	2.927	9.369	13.70	3910.
100.0	581.6	16.56	1035.	4474.	4.954	5.265	6.440	3893.
120.0	572.1	14.02	1090.	4585.	5.970	4.187	4.968	3890.
140.0	564.5	12.18	1137.	4680.	6.698	3.817	4.551	3891.
160.0	557.4	10.80	1182.	4770.	7.298	3.678	4.464	3896.
180.0	550.5	9.717	1226.	4859.	7.825	3.624	4.502	3903.
200.0	543.5	8.857	1270.	4950.	8.304	3.603	4.591	3912.
220.0	536.5	8.157	1315.	5043.	8.746	3.595	4.699	3923.
240.0	529.5	7.576	1361.	5138.	9.160	3.591	4.812	3936.
260.0	522.5	7.088	1407.	5235.	9.550	3.588	4.922	3950.
280.0	515.5	6.671	1455.	5335.	9.918	3.583	5.026	3965.
300.0	508.5	6.311	1503.	5436.	10.27	3.577	5.122	3980.

PRESSURE = 1800.00 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_V}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1
80.00	0.1460	2.475	0.3028	0.2355
100.0	0.9250E-01	2.238	0.2764	0.2294
120.0	0.8780E-01	2.140	0.2764	0.2256
140.0	0.9555E-01	2.112	0.2831	0.2223
160.0	0.1082	2.108	0.2923	0.2192
180.0	0.1232	2.108	0.3025	0.2161
200.0	0.1393	2.108	0.3132	0.2130
220.0	0.1557	2.105	0.3239	0.2099
240.0	0.1721	2.098	0.3344	0.2068
260.0	0.1883	2.089	0.3446	0.2037
280.0	0.2040	2.077	0.3545	0.2007
300.0	0.2191	2.063	0.3639	0.1976

PRESSURE = 2000.00 [MPa]

TEMP [K]	$\left[\frac{T}{V}\frac{\partial V}{\partial T}\right]_P$	$\left[\frac{V}{C_V}\frac{\partial P}{\partial T}\right]_V$	$\left[\frac{P}{\rho}\frac{\partial \rho}{\partial P}\right]_T$	DIEL - 1
80.00	0.1820	2.539	0.3197	0.2437
100.0	0.9743E-01	2.292	0.2776	0.2365
120.0	0.8570E-01	2.175	0.2741	0.2325
140.0	0.8995E-01	2.138	0.2789	0.2293
160.0	0.1003	2.132	0.2870	0.2263
180.0	0.1136	2.135	0.2964	0.2233
200.0	0.1283	2.138	0.3064	0.2204
220.0	0.1436	2.138	0.3166	0.2174
240.0	0.1592	2.135	0.3267	0.2144
260.0	0.1747	2.130	0.3366	0.2115
280.0	0.1899	2.121	0.3462	0.2085
300.0	0.2047	2.110	0.3555	0.2056

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