

NASA Technical Memorandum 4513

Coefficients for Calculating Thermodynamic and Transport Properties of Individual Species

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Although the changes and corrections involve table II, none involve the first 14 coefficients, which are used in equations (1) to (3) to obtain values of C_p^0/R , H^0/RT , and S^0/R . The following errors were noted:

1. For the following species the last floating-point value on record 4, which contains a value for $H^0(298.15)/R$, was changed as follows:

Name	$H^0(298.15)/R$
CF+	1.38242181E+05
CP	6.25607522E+04
C2	9.98804500E+04
C6H13,n-hexyl	3.01881891E+03
C7H15,n-heptyl	5.27992630E+02
C7H16,n-heptane	-2.25870196E+04
C8H17,n-octyl	-1.96283365E+03
C8H18,n-octane	-2.51067110E+04
C10H8,naphthale	1.81105080E+04
C12H9,o-bipheny	5.14438397E+04
C12H10,bipheny	2.19050792E+04
CaS	1.48655784E+04
SiC4H12	-3.44703416E+04
Zn	1.56834257E+04
Zn+	1.24694351E+05
Zn-	1.32142483E+04
Zr	7.33657185E+04
ZrN	8.57984415E+04
ZrO	1.00926504E+04
BN(s)	-3.01779034E+04
B3O3H3(cr)	-1.51820492E+05
BeO(a)	-7.31677513E+04
CaCO3(cal)	-1.45158404E+05
CaF2(a)	-1.47442433E+05
CaOH(a)	-5.01203318E+04
FeCL3(s)	-4.80371062E+04
K2O(s)	-4.36791825E+04
K2O2(s)	-5.96311749E+04
Li2SO4(a)	-1.72754257E+05
Na2SO4(V)	-1.66914947E+05
NbO2(I)	-9.56111665E+04
PbF2(a)	-8.14204325E+04
SiO2(Lqs)	-1.09550292E+05

2. The following names were changed:

From	To	From	To
Na2CO3(1)	Na2CO3(I)	SrCL2(1)	SrCL2(a)
Na2CO3(2)	Na2CO3(II)	SrCL2(2)	SrCL2(b)
NaSO4(IV)	Na2SO4(IV)	Ti2O3(1)	Ti2O3(a)
NaSO4(I)	Na2SO4(I)	Ti2O3(2)	Ti2O3(b)
NaSO4(L)	Na2SO4(L)	V2O4(1)	V2O4(I)
Ni3S2(1)	Ni3S2(I)	V2O4(2)	V2O4(II)
Ni3S2(2)	Ni3S2(II)		

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Summary

Libraries of thermodynamic data and transport properties are given for individual species in the form of least-squares coefficients. Values of heat capacity $C_p^o(T)$, enthalpy $H^o(T)$, and entropy $S^o(T)$ are available for 1130 solid, liquid, and gaseous species. Viscosity and thermal conductivity data are given for 155 gases. The original $C_p^o(T)$ values were fit to a fourth-order polynomial with integration constants for $H^o(T)$ and $S^o(T)$. For each species the integration constant for $H^o(T)$ includes the heat of formation. Transport properties have a different functional form. The temperature range for most of the data is 300 to 5000 K, although some of the newer thermodynamic data have a range of 200 to 6000 K. Because the species are mainly possible products of reaction, the data are useful for chemical equilibrium and kinetics computer codes. Much of the data has been distributed for several years with the NASA Lewis equilibrium program CET89. The thermodynamic properties of the reference elements have been updated along with about 175 species that involve the elements carbon, hydrogen, oxygen, and nitrogen. These sets of data will be distributed with the NASA Lewis personal computer program for calculating chemical equilibria, CETPC.

Introduction

This report documents the thermodynamic and transport property data used in several versions of the NASA Lewis equilibrium computer programs CET89 (Gordon et al., 1971, 1976, 1984, and 1988) and CETPC (to be published). Many other computer codes, such as the one given in Radhakrishnan and Bittker (1993), use the same data. The libraries of data are presented in the form of least-squares coefficients. Thermodynamic data coefficients are given for 1130 species (gaseous, liquid, or solid). Transport property coefficients are given for 155 gaseous species. These coefficients generate the thermodynamic functions heat capacity $C_p^o(T)$, enthalpy $H^o(T)$, and entropy $S^o(T)$ and the transport properties viscosity η and thermal conductivity λ .

CETPC is essentially CET89 adapted for use on an IBM-compatible personal computer. This code, the accompanying thermodynamic and transport property coefficients, and sample problems will be distributed on a 3½-in. diskette.

Only the executable code will be included and the coefficient data will be unformatted and not legible. This report lists these thermodynamic and transport coefficients in a legible formatted form and gives data references. These data bases will also be available on diskettes in the formatted form and will be included with future distributions of the CET89 source code.

The functional form for $C_p^o(T)$ is a fourth-order polynomial with integration constants for $H^o(T)$ and $S^o(T)$. Much of the coefficient data are the same as the data that have been distributed for several years with the NASA Lewis equilibrium program CET89 except that they have been adjusted for newer physical constants (Cohen and Taylor, 1987), for newer atomic weights (De Laeter and Heumann, 1991), and for the reference pressure for the ideal gases as 1 bar rather than 1 atmosphere. Some data have been updated. These include the reference elements (McBride et al., 1993) and about 175 species that involve the elements carbon, hydrogen, oxygen, and nitrogen. Generally, these newer data were calculated by using PAC91 (McBride and Gordon, 1992), and the older data were calculated by using earlier versions of that code. The coefficients for the older data are for the temperature intervals 300 to 1000 K and 1000 to 5000 K. The fits were constrained so that the coefficient functional form gives results that match the original data at 1000 K. The coefficients for the newer data are for the intervals 200 to 1000 K and 1000 to 6000 K. The fits were constrained so that the functional form values match the original data at 298.15 K and also so that the higher interval functional values match the lower interval functional values at 1000 K.

The original data for gases are generally the result of ideal-gas calculations, whereas the data for the condensed species are generally the result of a fit to experimental measurements. For most species either the thermodynamic functions or the molecular constant data are taken from other compilations such as JANAF (Chase et al., 1985) and the Russian volumes (Gurvich et al., 1978, 1979, 1982, 1989, and 1991), although many other references were used.

The transport property data from which the least-squares coefficients were generated are described in Gordon et al. (1984). Coefficients are given for viscosity, thermal conductivity, and three binary viscosity interactions. The functional form to which the data are fitted is described in a later section. The temperature range was divided into two intervals, 300 to 1000 K and 1000 to 5000 K. This corresponds to the

temperature intervals used for the thermodynamic data at the time of the Gordon et al. (1984) report.

The data are presented in the form required by CET89 and CETPC and are annotated with the references.

Symbols

a_i	polynomial coefficients used in eqs. (1) to (3)
b_1	integration constant defined by eq. (2)
b_2	integration constant defined by eq. (3)
$C_p^o(T)$	heat capacity at constant pressure for standard state
c	speed of light
c_2	second radiation constant, hc/k
$G^o(T)$	either $\{G^o(T) - H^o(0)\} + H^o(0)$ or $\{G^o(T) - H^o(298.15)\} + H^o(298.15)$
$G^o(T) - H^o(0)$	Gibbs energy at temperature T relative to enthalpy at 0 K for standard state
$G^o(T) - H^o(298.15)$	Gibbs energy at temperature T relative to enthalpy at 298.15 K for standard state
$\Delta_f G^o(T)$	Gibbs energy of formation of a substance at temperature T from its reference elements in their standard state
$H^o(0)$	chemical energy at 0 K for standard state
$H^o(298.15)$	assigned enthalpy at 298.15 K for standard state (assigned to be equal to $\Delta_f H^o(298.15)$)
$H^o(T)$	either $\{H^o(T) - H^o(0)\} + H^o(0)$ or $\{H^o(T) - H^o(298.15)\} + H^o(298.15)$
$H^o(T) - H^o(298.15)$	sensible enthalpy at temperature T relative to 298.15 K for standard state
$\Delta_f H^o(T)$	enthalpy of formation (heat of formation) of a substance at temperature T from its reference elements in the standard state
h	Planck's constant
K	equilibrium constant
k	Boltzmann constant
m_e	electron mass
N	principal quantum number for atomic species
p_0	standard-state pressure
q_i	temperature exponents in eq. (1)
R	universal gas constant

r	number of coefficients a_i in eq. (1)
S_o/R	Sackur-Tetrode constant
$S^o(T)$	entropy at temperature T for standard state
T	temperature, K
η	viscosity, eq. (10)
λ	thermal conductivity, eq. (10)

Standard States, Reference States, and Fundamental Constants

The symbols and definitions follow the recommendations of Cox (1982). All data in this report are for species in their standard states. For gases this is ideal gas at the standard pressure of 10^5 Pa (1 bar). For condensed species the standard state is the pure crystalline or liquid substance at the same standard pressure. All thermodynamic properties are standard molar quantities.

The reference states of the elements as well as the data used for these elements are given in McBride et al. (1993). Generally they are taken to be the thermodynamically stable state at 298.15 K. For those species that are gases at 298.15 K and 1 bar, the entire temperature range is taken to be gaseous. For species that are condensed at 298.15 K the entire range is taken to be condensed with transitions between various phases, such as between solid and liquid phases.

Most of the properties are given in the International System of Units (SI); that is, the temperatures are in kelvin (K), the energies in joules (J), and the pressures in bars. Sometimes the values are made dimensionless by dividing them either by the gas constant R or RT . The fundamental constants were taken from Cohen (1987) and are as follows:

Quantity	Symbol	Value	Units
Molar gas constant	R	8.314510(70)	J/(mol·K)
Sackur-Tetrode constant:			
For $p_0=100\,000$ Pa = 1 bar	S_o/R	-1.151693(21)	
For $p_0=101\,325$ Pa = 1 atm	S_o/R	-1.64856(21)	
Second radiation constant, hc/k	c_2	0.01438769(12)	mK
Electron mass	m_e	0.000548579903(13)	$^a u$

^aAtomic mass unit used for calculating molar masses, $1/12$ mass ^{12}C .

These constants were used in McBride and Gordon (1992) in calculating the thermodynamic functions for many gases. The atomic weights were taken from De Laeter and Heumann (1991). These weights are given in atomic mass units (u) based on $^{12}C = 12u$. Some of the older data were calculated with values of R , Sackur-Tetrode constants, and atomic weights

different from those selected for this report. The coefficients were corrected to adjust for the differences in these values.

Empirical Equations for Fitting Thermodynamic Functions

The thermodynamic data for many individual species can be conveniently stored for use with computer programs in the form of coefficients associated with equations that fit the data. The following dimensionless form was chosen for this report:

$$\frac{C_p^o(T)}{R} = \sum_{i=1}^r a_i T^{q_i} \quad (1)$$

For CET89 and CETPC, $r = 5$ and the q_i values are 0, 1, 2, 3, and 4. A second set is planned for future NASA Lewis chemical equilibrium codes. The new set has two additional terms ($r = 7$), one with $q_i = -1$ and one with $q_i = -2$. (See the section Least-Squares Fit for an additional discussion of these equations.)

Enthalpy and entropy are related thermodynamically to $C_p^o(R)$ as follows:

$$\frac{H^o(T)}{RT} = \frac{b_1}{T} + \frac{\int C_p^o(T) dT}{RT} \quad (2)$$

$$\frac{S^o(T)}{R} = b_2 + \int \left(\frac{C_p^o(T)}{RT} \right) dT \quad (3)$$

where b_1 and b_2 are integration constants. These are two additional constants (or coefficients) to the five or seven coefficients in equation (1).

These equations are given again in table I along with the format of the data listed in table II.

Assigned Enthalpy Values

For some applications, such as those discussed in Gordon and McBride (1976), it is convenient to combine sensible enthalpies and energies of chemical and physical changes into one numerical value. An arbitrary base may be adopted for assigning absolute values to the enthalpy of various substances inasmuch as only differences in enthalpies are measurable. For CET89 and CETPC the arbitrary base selected was a value of zero at 298.15 K for the reference elements. Thus, for the assigned reference elements

$$\Delta_f H^o(298.15) = H^o(298.15) = 0 \quad (4)$$

And, in general, for all species

$$H^o(298.15) = \Delta_f H^o(298.15) \quad (5)$$

$$H^o(T) = H^o(298.15) + \{H^o(T) - H^o(298.15)\} \quad (6)$$

Heats of Formation and Equilibrium Constants

Heats of formation and $\log_{10} K$ for a species are calculated as a function of temperature for the formation of the species from the elements in their assigned reference states. The following is an example of how these properties can be calculated for CO(g) at 1000 K

$$\begin{aligned} \Delta_f H^o(1000) &= H^o(1000)\text{CO(g)} - H^o(1000)\text{C(gr)} \\ &\quad - \frac{1}{2} H^o(1000)\text{O}_2(\text{g}) \quad (7) \end{aligned}$$

$$\begin{aligned} \Delta_f G^o(1000) &= G^o(1000)\text{CO(g)} - G^o(1000)\text{C(gr)} \\ &\quad - \frac{1}{2} G^o(1000)\text{O}_2(\text{g}) \quad (8) \end{aligned}$$

By definition,

$$\log_{10} K = \frac{-\Delta_f G^o(T)}{2.3025851 RT} \quad (9)$$

Least-Squares Fit

For most of the species in this report the coefficients in equations (1) to (3) were obtained by means of a least-squares fit. The code PAC91 (McBride and Gordon, 1992) and earlier versions of the code (e.g., McBride and Gordon, 1967) were used to obtain the coefficients. For all calculations (1) a fourth-order polynomial was used for $C_p^o(T)$; (2) the temperature range was split into two intervals with a breakpoint at 1000 K; (3) a fitting constraint required coefficients in both intervals to yield the same values of the functions at the 1000 K common point; and (4) generally the functions $C_p^o(T)/R$, $H^o(T)/R$, and $S^o(T)/R$ were fit simultaneously (Zeleznik and Gordon, 1961).

There are two major differences between the data produced by PAC91 and the data produced by earlier PAC versions: the overall temperature range and the point where the coefficients reproduce the original functions exactly. Generally, the PAC91 data are for the range 200 (or 298.15 for ions) to 6000 K, whereas the older data are for the range 300 to 5000 K. The exact-fit points are 1000 K for the older data and 298.15 K for the newer data. Thus, the newer data reproduce the heats of formation exactly at 298.15 K.

Thermodynamic functions for some gases were not recalculated but rather taken directly from tables. When these data do not cover the entire temperature range used here, they must be extrapolated before they are fit. Data for the entire range is a requirement of equilibrium programs such as CETPC and CEA (Gordon and McBride, 1993). Although many of these species are not expected to exist at these high temperatures, the program includes the species at the higher temperature and then uses the coefficient data to decide whether the species should be included. If the data are fit to some temperature much lower than the 5000 or 6000 K limit, the coefficients could represent the data so poorly that an incorrect exclusion or inclusion of the species could result. Functions for these species were extrapolated by using the procedure described in Wilhoit (1975). A more complete discussion of this method, as well as the dangers of using coefficients to extrapolate outside of their temperature ranges, is given in McBride and Gordon (1992).

For the condensed species, each phase has its own set of coefficients. When phase transitions occur, the fit was constrained so that the difference in Gibbs energy is zero between the phases.

For some species and some temperature intervals, however, coefficients were not obtained by means of the PAC programs. The exceptions were when the original reference had equations in acceptable form or when $C_p^o(T)$ for an entire temperature interval was constant.

Thermodynamic Data Coefficients

The format of the thermodynamic data coefficients is detailed in table I and the data are listed in table II. In table II the data references are given in a column to the right of the data records. Some further comments are given in the following sections.

Names

Species names are the first 15 characters in the first record for each set. Many of the species names listed here are different from the names used in the data distributed with previous CET89 computer programs. This difference is important when using CET89 and CETPC because the names used in some of the input must be exactly the same as the names used in the thermodynamic data. Older species names were all upper case. The newer names have some lower case characters and the names are case sensitive. The letter "L" is always upper case in the formula part of the name so that it will not be confused with the number "1." Thus, for example, chlorine is given as CL rather than Cl. Various letters are used to represent the solid phases depending on what they were called in the original reference and what FORTRAN characters are available. The following chart shows the meaning of some of the abbreviations:

Abbreviation	Phase
an	andalusite
caL	calcite
cr	crystal
gr	graphite
hqz	high quartz
L	liquid
Lqz	low quartz
rd	red
ru	rutile
yw	yellow
a	alpha
b	beta
c	gamma
d	delta

Heats of Formation

The last floating-point number in each species set is the heat of formation at 298.15 K divided by R . These values are the result of using the coefficients in equation (2). The newer data, generally with temperature ranges from 200 to 298.15 to 6000 K, were forced to fit the original data at 298.15 K. Thus, these heats of formation should match the original values exactly. The older data, however, were forced to fit at 1000 K. Thus, these heats of formation at 298.15 K will be slightly different than the original values.

Six-Character Reference Codes

The second field of the first record contains a six-character reference code to indicate the major source and date of the data. The letters indicate the reference, and the numbers that follow indicate a date. The following chart gives the references associated with the various letter codes.

Letters	References
J	[JANAF] Chase et al. (1985) with date from individual sheet
CODA	[CODATA] Cox et al. (1989)
L	[Lewis] A combination of references or a NASA Lewis reference with date of least-squares fit
TPIS	[Thermodynamic Properties of Individual Substances] Gurvich et al. (1979, 1982, 1989, or 1991)
X	[TeXas] TRC data with date from individual sheet
SRD	[Standard Reference Data] Alcock et al. (1993)
BUR	[Burcat] Burcat et al. (1979, 1982, 1984, 1992)
BAR	[Barin] Barin and Knacke (1973) or Barin et al. (1989)

Atomic Symbols in Formula Used by CETPC and CET89

The atomic symbols used in the chemical formula following the six-character code are the same as those used within the computer programs. The letters are all upper case. The letter "E" represents electrons for the ionized species.

Phase and Species Order

The phase column for the first record of each species indicates whether the species is condensed (C) or gaseous (G). For CET89 and CETPC the order of the sets of data for the gaseous species is immaterial. For the condensed species the data for the various phases must be adjacent and in the order of increasing temperature range. In table II all the gases precede the condensed species. This same order is used within CETPC and CET89.

Temperature Ranges

The temperature ranges listed give the range where the data were fitted. Most of the gases were fitted for the whole range (i.e., 200, 298.15, or 300 K to 5000 or 6000 K). As discussed previously the fits are for two intervals with a common break at 1000 K. The ranges for the condensed species vary according to the original data. For liquids with a constant C_p^o the range is extended to 5000 or 6000 K. Generally, using the coefficients to extrapolate more than a short range outside these limits can result in very large errors. CET89 and CETPC allow the data to be extrapolated 20 percent outside the fitted range.

Coefficients

Records 2, 3, and 4 list the coefficients as indicated in table I. Note that the first seven coefficients are for the higher temperature range and the second seven coefficients are for the lower temperature range.

Transport Property Coefficients

The generation of the transport property coefficients used in this report was discussed in Gordon et al. (1984). Coefficients are given for 155 species. The data used to generate the coefficients were taken from Gordon et al. (1984) for 17 species; the remainder of the data were taken from Svehla (1962).

Transport property coefficients are given for viscosity, thermal conductivity, and for a few pairs of species, a viscosity interaction parameter η_{ij} . The coefficients were generated by a least-squares fit to the following form:

$$\left. \begin{array}{l} \ln \eta \\ \ln \lambda \\ \ln \eta_{ij} \end{array} \right\} = A \ln T + \frac{B}{T} + \frac{C}{T^2} + D \quad (10)$$

These coefficients were generated to give viscosity in units of micropoise (μP) and thermal conductivity in units of microwatts per centimeter kelvin ($\mu\text{W}/\text{cm}\cdot\text{K}$). Coefficients were generated for two temperature intervals, 300 to 1000 K

and 1000 to 5000 K, to be consistent with the thermodynamic data intervals. Each pure species, therefore, has four sets of coefficients: two sets for viscosity (low- and high-temperature intervals) and two sets for thermal conductivity (low- and high-temperature intervals). Only two sets of coefficients are given for the viscosity interactions. The format used for the transport property data is given in table III and the coefficients are given in table IV.

Concluding Remarks

The thermodynamic data for the next NASA Lewis chemical equilibrium program (Gordon and McBride, 1993) will have a different format with the possibility of two additional coefficients in equation (1) and more temperature intervals. For gases there may be as many as three intervals, namely 200 to 1000 K, 1000 to 6000 K, and 6000 to 20 000 K. For condensed species there may be any number of intervals and the breakpoints may be variable (see McBride and Gordon, 1992; and McBride et al., 1993).

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TABLE I. – FORMAT FOR THERMODYNAMIC DATA COEFFICIENTS IN TABLE II

Record	Contents	Format	Columns
1	Species name	A15	1–15
	Reference/date code	A6	19–24
	Chemical formula: symbols and numbers	4 (A2, F3.0)	25–44
	“G” for gaseous species, “C” for condensed	A1	45
	Temperature range	2F10.3	46–65
	Molecular weight	F13.5	66–78
	Integer 1	I1	80
2	Coefficients a_i ($i = 1,5$) in eq. (1) for $T \geq 1000$ K	5E15.8	1–75
	Integer 2	I1	80
3	Coefficients b_1 and b_2 in eqs. (2) and (3) for $T \geq 1000$ K	2E15.8	1–30
	Coefficients a_i ($i = 1,3$) in eq. (1) for $T \leq 1000$ K	3E15.8	31–75
	Integer 3	I1	80
4	Coefficients a_i ($i = 4,5$) in eq. (1) for $T \leq 1000$ K	2E15.8	1–30
	Coefficients b_1 and b_2 in eqs. (2) and (3) for $T \leq 1000$ K	2E15.8	31–60
	$H^\circ(298.15)/R$, K	E15.8	61–75
	Integer 4	I1	80

Example:

```

BeOH          J12/75BE 1.0 1.H 1. 0.G 300.000 5000.000 26.01952 1
4.61167200E+00 2.39720130E-03-8.54891620E-07 1.43090620E-10-9.11123990E-15 2
-1.53618380E+04-1.98829219E+00 1.91391480E+00 1.35071590E-02-1.85316870E-05 3
1.29424710E-08-3.54389610E-12-1.48196830E+04 1.09928304E+01-1.37885210E+04 4
    
```

Empirical equations for this example:

$$\text{Heat capacity : } \frac{C_p^\circ(T)}{R} = a_1 + a_2 T + a_3 T^2 + a_4 T^3 + a_5 T^4 \quad (1)$$

$$\text{Enthalpy : } \frac{H^\circ(T)}{RT} = a_1 + a_2 \frac{T}{2} + a_3 \frac{T^2}{3} + a_4 \frac{T^3}{4} + a_5 \frac{T^4}{5} + \frac{b_1}{T} \quad (2)$$

$$\text{Entropy : } \frac{S^\circ(T)}{R} = a_1 \ln T + a_2 T + a_3 \frac{T^2}{2} + a_4 \frac{T^3}{3} + a_5 \frac{T^4}{4} + b_2 \quad (3)$$

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS

CETPC thermodynamic data file										References for data
Electron gas	L10/92E	1.	0.	0.	0.G	200.000	6000.000	0.000548579903	1	McBride (1993)
	2.50000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
	-7.45375000E+02	-1.17208122E+01	2.50000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
	0.00000000E+00	0.00000000E+00	-7.45375000E+02	-1.17208122E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
AL	J 6/83AL	1.	0.	0.	0.G	200.000	6000.000	26.98154	1	Chase (1985)
	2.53385701E+00	-4.65859492E-05	2.82798048E-08	-8.54362013E-12	1.02207983E-15	2				
	3.89045662E+04	5.37984179E+00	3.11112433E+00	-3.59382310E-03	8.14749313E-06	3				
	-8.08808966E-09	2.93132463E-12	3.88283390E+04	2.84045730E+00	3.96535695E+04	4				
AL+	J 6/83AL	1.E	-1.	0.	0.G	298.150	5000.000	26.98099	1	Chase (1985)
	2.51215337E+00	-2.61011300E-05	1.90360463E-08	-5.68881493E-12	6.00529995E-16	2				
	1.09023995E+05	3.72538259E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00	3				
	0.00000000E+00	0.00000000E+00	1.09028141E+05	3.79100584E+00	1.09773516E+05	4				
AL-	J 6/83AL	1.E	1.	0.	0.G	298.150	5000.000	26.98209	1	Chase (1985)
	2.18963489E+00	8.03446211E-04	-3.79389535E-07	6.90059853E-11	-4.39884116E-15	2				
	3.30960260E+04	7.55557200E+00	2.64731898E+00	-7.20371592E-04	1.02539612E-06	3				
	-3.51118197E-11	-2.38932974E-13	3.30049252E+04	5.30876678E+00	3.37710821E+04	4				
ALB02	J 6/63AL	1.B	1.0	2.	0.G	300.000	5000.000	61.97134	1	Chase (1985)
	7.17229950E+00	2.97807410E-03	-1.24311070E-06	2.31887790E-10	-1.60412080E-14	2				
	-6.76836820E+04	-9.98173974E+00	2.30872340E+00	1.88905390E-02	-2.06333480E-05	3				
	1.02513240E-08	-1.69412830E-12	-6.64821670E+04	1.44770185E+01	-6.51170313E+04	4				
ALBr	J 9/79AL	1.BR	1.	0.	0.G	300.000	5000.000	106.88554	1	Chase (1985)
	4.38224240E+00	2.12007070E-04	-7.07644470E-08	1.06590180E-11	1.48302660E-16	2				
	5.76168490E+02	3.73910858E+00	3.49006110E+00	4.54767970E-03	-8.19356780E-06	3				
	6.86661520E-09	-2.17650580E-12	7.29453060E+02	7.88664758E+00	1.91229750E+03	4				
ALBr3	J 9/79AL	1.BR	3.	0.	0.G	300.000	5000.000	266.69354	1	Chase (1985)
	9.61505900E+00	4.44685460E-04	-1.99029830E-07	3.92518180E-11	-2.84279750E-15	2				
	-5.23495440E+04	-1.31191090E+01	6.25372060E+00	1.60802170E-02	-2.86597580E-05	3				
	2.36160760E-08	-7.39313140E-12	-5.17352110E+04	2.68365800E+00	-4.93659766E+04	4				
ALC	J 6/63AL	1.C	1.	0.	0.G	300.000	5000.000	38.99254	1	Chase (1985)
	4.15644780E+00	4.46924900E-04	-1.74670400E-07	3.43043360E-11	-2.47727060E-15	2				
	8.16066050E+04	2.90472525E+00	2.64224830E+00	6.44651610E-03	-9.58923760E-06	3				
	6.90408050E-09	-1.94307790E-12	8.19298740E+04	1.02673620E+01	8.29321939E+04	4				
ALCL	J 9/79AL	1.CL	1.	0.	0.G	300.000	5000.000	62.43424	1	Chase (1985)
	4.33952710E+00	2.48388740E-04	-8.29218520E-08	1.23423190E-11	-2.37558180E-17	2				
	-7.52810810E+03	2.53729426E+00	3.12222860E+00	5.92804740E-03	-1.04158320E-05	3				
	8.55510650E-09	-2.67223800E-12	-7.30758390E+03	8.25335616E+00	-6.18958661E+03	4				
ALCL+	J 6/76AL	1.CL	1.E	-1.	0.G	300.000	5000.000	62.43369	1	Chase (1985)
	4.62849650E+00	-3.47505350E-04	2.29973510E-07	-2.42797980E-11	-2.64405440E-16	2				
	1.02204470E+05	1.43039988E+00	2.86983520E+00	6.65345860E-03	-1.13277070E-05	3				
	9.07029740E-09	-2.77946400E-12	1.02597410E+05	1.00199526E+01	1.03665310E+05	4				
ALCLF	J 6/76AL	1.CL	1.F	1.	0.G	300.000	5000.000	81.43264	1	Chase (1985)
	6.42626220E+00	6.78611680E-04	-3.11863920E-07	6.21423790E-11	-4.25195730E-15	2				
	-6.09387690E+04	-3.06227080E+00	3.21759680E+00	1.45245490E-02	-2.39224880E-05	3				
	1.86216090E-08	-5.59036670E-12	-6.03055080E+04	1.22718185E+01	-5.88778039E+04	4				
ALCLF+	J 6/76AL	1.CL	1.F	1.E	-1.G	300.000	5000.000	81.43209	1	Chase (1985)
	6.88359050E+00	7.05093660E-04	-3.13660880E-07	6.16073100E-11	-4.44905370E-15	2				
	3.10059900E+04	-8.48211360E+00	3.73412920E+00	1.38890430E-02	-2.2225390E-05	3				
	1.69376830E-08	-5.00613420E-12	3.16477550E+04	6.66914740E+00	3.32131840E+04	4				
ALCLF2	J 6/76AL	1.CL	1.F	2.	0.G	300.000	5000.000	100.43105	1	Chase (1985)
	8.86745440E+00	1.29333190E-03	-5.74687960E-07	1.12784190E-10	-8.13981540E-15	2				
	-1.23092500E+05	-1.56007845E+01	3.49052450E+00	2.34106220E-02	-3.67308020E-05	3				
	2.75774850E-08	-8.05708740E-12	-1.21978570E+05	1.03598345E+01	-1.20171161E+05	4				
ALCL2	J 6/76AL	1.CL	2.	0.	0.G	300.000	5000.000	97.88694	1	Chase (1985)
	6.64141330E+00	4.33919070E-04	-2.03424560E-07	4.09001350E-11	-2.72093750E-15	2				
	-3.57946890E+04	-3.34843902E+00	3.93367410E+00	1.29289180E-02	-2.27679920E-05	3				
	1.86055150E-08	-5.79002790E-12	-3.52966190E+04	9.40186678E+00	-3.37162634E+04	4				
ALCL2+	J 6/76AL	1.CL	2.E	-1.	0.G	300.000	5000.000	97.88639	1	Chase (1985)
	7.09545770E+00	4.65254700E-04	-2.07664790E-07	4.08799060E-11	-2.95689140E-15	2				
	5.56437750E+04	-8.51809863E+00	4.35611280E+00	1.26406120E-02	-2.15540600E-05	3				
	1.72227530E-08	-5.27444730E-12	5.61697360E+04	4.49304737E+00	5.78714632E+04	4				
ALCL2-	J 6/76AL	1.CL	2.E	1.	0.G	300.000	5000.000	97.88749	1	Chase (1985)
	6.71256180E+00	3.46568360E-04	-1.58843540E-07	2.99500630E-11	-1.65448150E-15	2				
	-5.99542570E+04	-4.13632911E+00	4.25109460E+00	1.19685620E-02	-2.15382290E-05	3				
	1.78692300E-08	-5.62207530E-12	-5.95130610E+04	7.39326189E+00	-5.78712622E+04	4				
ALCL2F	J 6/76AL	1.CL	2.F	1.	0.G	300.000	5000.000	116.88534	1	Chase (1985)
	9.14760670E+00	9.76691590E-04	-4.34886760E-07	8.54640750E-11	-6.17394740E-15	2				
	-9.80602870E+04	-1.53791197E+01	4.25516640E+00	2.20167890E-02	-3.62769860E-05	3				
	2.82748420E-08	-8.50110950E-12	-9.70888870E+04	8.02488762E+00	-9.51102737E+04	4				

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

ALCL3	J 9/79AL 1.CL 3.	0.	0.G	300.000	5000.000	133.33964	1	Chase (1985)
9.40410830E+00	6.86418720E-04	-3.06638500E-07	6.03915090E-11	-4.36935740E-15	2.10318640E-02	-3.65469310E-05	3	
-7.32858130E+04	-1.62963831E+01	4.91326650E+00	4.94299605E+00	-7.03101033E+04	4.94299605E+00	-7.03101033E+04	4	
2.95868120E-08	-9.14510050E-12	-7.24410560E+04	4.94299605E+00	-7.03101033E+04	4.94299605E+00	-7.03101033E+04	4	
ALF	J 9/79AL 1.F	1.	0.	0.G	300.000	5000.000	45.97994	1
4.12613950E+00	4.62680540E-04	-1.74777330E-07	3.00154840E-11	-1.53288410E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
-3.32759380E+04	2.06640736E+00	2.64729250E+00	6.08226860E-03	-8.59634290E-06	4.94299605E+00	-7.03101033E+04	4	
5.89798370E-09	-1.58867650E-12	-3.29492600E+04	9.31391236E+00	-3.19546746E+04	4.94299605E+00	-7.03101033E+04	4	
ALF+	J 6/76AL 1.F	1.E	-1.	0.G	300.000	5000.000	45.97939	1
3.35221860E+00	1.31038670E-03	-1.43183830E-07	-4.54423300E-11	7.34207490E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
8.22325000E+04	7.08370827E+00	2.72530530E+00	4.81203130E-03	-5.44117190E-06	4.94299605E+00	-7.03101033E+04	4	
2.74390840E-09	-3.58751920E-13	8.22504680E+04	9.72336097E+00	8.32340781E+04	4.94299605E+00	-7.03101033E+04	4	
ALF2	J 6/76AL 1.F	2.	0.	0.G	300.000	5000.000	64.97835	1
6.15793000E+00	9.81322870E-04	-4.45350280E-07	8.82059600E-11	-6.12622550E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
-8.55664790E+04	-3.95119222E+00	2.74084650E+00	1.44667450E-02	-2.15206190E-05	4.94299605E+00	-7.03101033E+04	4	
1.54119890E-08	-4.32297970E-12	-8.48345940E+04	1.26766819E+01	-8.35361263E+04	4.94299605E+00	-7.03101033E+04	4	
ALF2+	J 6/76AL 1.F	2.E	-1.	0.G	300.000	5000.000	64.97780	1
6.59253940E+00	1.03194890E-03	-4.57394400E-07	8.96205990E-11	-6.46098250E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
8.89919430E+03	-9.45969758E+00	3.12391760E+00	1.45230560E-02	-2.13154430E-05	4.94299605E+00	-7.03101033E+04	4	
1.51561330E-08	-4.23740960E-12	9.65450720E+03	7.47417652E+00	1.10710379E+04	4.94299605E+00	-7.03101033E+04	4	
ALF2-	J 6/76AL 1.F	2.E	1.	0.G	300.000	5000.000	64.97889	1
6.26667450E+00	8.37111720E-04	-3.68400210E-07	7.01504770E-11	-4.68762980E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
-1.11252900E+05	-5.02117975E+00	2.67153500E+00	1.56019440E-02	-2.44193220E-05	4.94299605E+00	-7.03101033E+04	4	
1.82531690E-08	-5.30647750E-12	-1.10508600E+05	1.23382336E+01	-1.09200801E+05	4.94299605E+00	-7.03101033E+04	4	
ALF20	J 6/76AL 1.F	2.0	1.	0.G	300.000	5000.000	80.97775	1
8.82056220E+00	1.25486940E-03	-5.45244650E-07	1.20368600E-10	-9.64835990E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
-1.36306680E+05	-1.60428721E+01	3.08740900E+00	2.38332390E-02	-3.60629830E-05	4.94299605E+00	-7.03101033E+04	4	
2.62689190E-08	-7.48567600E-12	-1.35065400E+05	1.18936719E+01	-1.33355812E+05	4.94299605E+00	-7.03101033E+04	4	
ALF20-	J 6/76AL 1.F	2.0	1.E	1.G	300.000	5000.000	80.97829	1
8.61427860E+00	1.57845960E-03	-7.00291150E-07	1.37292120E-10	-9.90139850E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
-1.60403360E+05	-1.58792509E+01	2.91975970E+00	2.40940130E-02	-3.60809440E-05	4.94299605E+00	-7.03101033E+04	4	
2.60678480E-08	-7.38083790E-12	-1.59181520E+05	1.18310821E+01	-1.57510833E+05	4.94299605E+00	-7.03101033E+04	4	
ALF3	J 9/79AL 1.F	3.	0.	0.G	200.000	6000.000	83.97675	1
8.72897229E+00	1.31428559E-03	-5.17599581E-07	8.86782789E-11	-5.52837363E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
-1.48390330E+05	-1.75036661E+01	3.10285412E+00	2.23455765E-02	-3.14588690E-05	4.94299605E+00	-7.03101033E+04	4	
2.11582073E-08	-5.53896073E-12	-1.47126797E+05	1.01597069E+01	-1.45447229E+05	4.94299605E+00	-7.03101033E+04	4	
ALF4-	J 6/76AL 1.F	4.E	1.	0.G	300.000	5000.000	102.97570	1
1.14714510E+01	1.75257860E-03	-7.80642270E-07	1.53444740E-10	-1.10863740E-14	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
-2.43360360E+05	-3.11980750E+01	2.58785930E+00	3.99304410E-02	-6.57369140E-05	4.94299605E+00	-7.03101033E+04	4	
5.11630550E-08	-1.53586950E-11	-2.41596490E+05	1.13015770E+01	-2.39537061E+05	4.94299605E+00	-7.03101033E+04	4	
ALH	J 6/63AL 1.H	1.	0.	0.G	300.000	5000.000	27.98948	1
3.33668980E+00	1.28785400E-03	-4.98699410E-07	9.22946330E-11	-6.34516940E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
3.00917610E+04	3.09548828E+00	3.65768570E+00	-1.97446980E-03	6.86633980E-06	4.94299605E+00	-7.03101033E+04	4	
-6.20414040E-09	1.86631030E-12	3.01464580E+04	2.08851108E+00	3.11985222E+04	4.94299605E+00	-7.03101033E+04	4	
ALI	J 9/79AL 1.I	1.	0.	0.G	200.000	6000.000	153.88601	1
4.30067835E+00	3.94526798E-04	-1.94717877E-07	4.31766594E-11	-2.50995942E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
6.87733839E+03	5.19554991E+00	3.37619386E+00	6.20358000E-03	-1.33437988E-05	4.94299605E+00	-7.03101033E+04	4	
1.28978040E-08	-4.59262508E-12	6.98468944E+03	9.20980278E+00	8.17245995E+03	4.94299605E+00	-7.03101033E+04	4	
ALI3	J 9/79AL 1.I	3.	0.	0.G	300.000	5000.000	407.69495	1
9.70924960E+00	3.36646920E-04	-1.50948540E-07	2.98131580E-11	-2.16179940E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
-2.62339960E+04	-1.06639943E+01	6.97612980E+00	1.32127780E-02	-2.38290730E-05	4.94299605E+00	-7.03101033E+04	4	
1.97963930E-08	-6.23362760E-12	-2.57415850E+04	2.14766716E+00	-2.32487352E+04	4.94299605E+00	-7.03101033E+04	4	
ALN	J12/79AL 1.N	1.	0.	0.G	300.000	5000.000	40.98828	1
4.14504680E+00	4.85609620E-04	-2.01264090E-07	4.12594880E-11	-2.88543080E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
6.15832400E+04	3.58234302E+00	2.64486500E+00	6.54168760E-03	-9.86253390E-06	4.94299605E+00	-7.03101033E+04	4	
7.18823230E-09	-2.04448450E-12	6.18973820E+04	1.08478644E+01	6.29028113E+04	4.94299605E+00	-7.03101033E+04	4	
ALO	J12/79AL 1.O	1.	0.	0.G	300.000	5000.000	42.98094	1
3.31390640E+00	1.04524210E-03	-2.74855330E-07	-1.79286060E-10	1.99878130E-14	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
7.09433360E+03	7.20963426E+00	2.81161030E+00	3.95842610E-03	-3.36953040E-06	4.94299605E+00	-7.03101033E+04	4	
6.73304970E-10	4.00894550E-13	7.06550370E+03	9.20895756E+00	8.05147516E+03	4.94299605E+00	-7.03101033E+04	4	
ALO+	J12/79AL 1.O	1.E	-1.	0.G	300.000	5000.000	42.98039	1
4.19084670E+00	6.93581980E-04	-3.44599990E-07	7.61723270E-11	-5.90324000E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
1.18074390E+05	3.52951981E+00	2.94144340E+00	5.25921680E-03	-7.34390730E-06	4.94299605E+00	-7.03101033E+04	4	
5.33167930E-09	-1.57833360E-12	1.18374690E+05	9.73538251E+00	1.19430345E+05	4.94299605E+00	-7.03101033E+04	4	
ALO-	J12/79AL 1.O	1.E	1.	0.G	300.000	5000.000	42.98149	1
4.03805550E+00	5.58371100E-04	-2.18886650E-07	3.85330240E-11	-2.10955500E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
-3.37100890E+04	2.24480660E+00	2.72267540E+00	4.94755180E-03	-5.75717540E-06	4.94299605E+00	-7.03101033E+04	4	
3.14244000E-09	-6.41528320E-13	-3.33912960E+04	8.83631380E+00	-3.24045842E+04	4.94299605E+00	-7.03101033E+04	4	
ALOCL	J 9/64AL 1.O	1.CL	1.	0.G	300.000	5000.000	78.43364	1
6.78052000E+00	7.96628220E-04	-3.42333550E-07	6.50226480E-11	-4.55191970E-15	2.10318640E-02	-3.65469310E-05	3	Chase (1985)
-4.40808320E+04	-9.30014037E+00	3.24444090E+00	1.41170050E-02	-1.93220380E-05	4.94299605E+00	-7.03101033E+04	4	
1.19627980E-08	-2.70691800E-12	-4.33123430E+04	8.00537213E+00	-4.18659024E+04	4.94299605E+00	-7.03101033E+04	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

ALOF	J12/75AL 1.0 1.F 1. 0.G	300.000 5000.000	61.97934	1	Chase (1985)
	6.45216220E+00 1.19265950E-03-5.28931370E-07	1.03678110E-10-7.47653670E-15		2	
	-7.21163630E+04-9.01812786E+00 2.03914610E+00	1.89487620E-02-2.89787700E-05		3	
	2.13609410E-08-6.15798730E-12-7.11823330E+04	1.23865981E+01-6.99488680E+04		4	
ALOH	J12/67AL 1.0 1.H 1. 0.G	300.000 5000.000	43.98888	1	Chase (1985)
	3.68606740E+00 3.36368220E-03-1.24662440E-06	2.13822050E-10-1.38983190E-14		2	
	-2.30461050E+04 3.69015562E+00 2.61322110E+00	2.77168940E-03 7.41578300E-06		3	
	-1.13546020E-08 4.55695590E-12-2.25867970E+04	1.00753303E+01-2.16392416E+04		4	
ALOH+	J12/67AL 1.0 1.H 1.E -1.G	300.000 5000.000	43.98833	1	Chase (1985)
	4.15019870E+00 2.89252120E-03-1.05654140E-06	1.79451670E-10-1.15870140E-14		2	
	6.38928880E+04 2.64013811E+00 1.96034390E+00	7.91911400E-03-2.28579590E-06		3	
	-4.01037890E-09 2.57075960E-12 6.45101850E+04	1.41061776E+01 6.54197350E+04		4	
ALOH-	J12/67AL 1.0 1.H 1.E 1.G	300.000 5000.000	43.98943	1	Chase (1985)
	4.30107180E+00 2.16685030E-03-7.39886450E-07	1.18210550E-10-7.22088410E-15		2	
	-2.91340950E+04 3.52700763E+00 2.91320480E+00	5.95307150E-03-3.05580540E-06		3	
	-1.25987090E-09 1.28860940E-12-2.87818270E+04	1.06224670E+01-2.76775938E+04		4	
AL02	J12/79AL 1.0 2. 0. 0.G	300.000 5000.000	58.98034	1	Chase (1985)
	6.60646410E+00 1.088022520E-03-5.22293440E-07	1.13242200E-10-8.52909680E-15		2	
	-1.25324320E+04-8.01717584E+00 3.25451480E+00	1.42758440E-02-2.11032480E-05		3	
	1.50562590E-08-4.21426140E-12-1.18125820E+04	8.30255496E+00-1.03664132E+04		4	
AL02-	J12/79AL 1.0 2.E 1. 0.G	300.000 5000.000	58.98089	1	Chase (1985)
	6.36874820E+00 1.27920300E-03-5.65039910E-07	1.10463790E-10-7.95124420E-15		2	
	-6.09720090E+04-8.79879498E+00 3.08120380E+00	1.30396540E-02-1.71199220E-05		3	
	1.09787000E-08-2.79421200E-12-6.02062030E+04	7.50156692E+00-5.88388468E+04		4	
AL02H	J12/68AL 1.0 2.H 1. 0.G	300.000 5000.000	59.98828	1	Chase (1985)
	6.42643460E+00 3.22303620E-03-1.21393480E-06	2.10745000E-10-1.38280000E-14		2	
	-5.76261540E+04-7.45759263E+00 2.48004560E+00	1.61492640E-02-1.60335240E-05		3	
	6.44661660E-09-4.09947690E-13-5.66827590E+04	1.23070710E+01-5.53546581E+04		4	
ALS	J12/79AL 1.S 1. 0. 0.G	200.000 6000.000	59.04754	1	Chase (1985)
	1.98171118E+00 3.97526437E-03-1.49428858E-06	2.26365870E-10-1.21036384E-14		2	
	2.82405754E+04 1.59882273E+01 2.71455183E+00	7.31180725E-03-1.26528925E-05		3	
	1.01796165E-08-2.87613387E-12 2.76434914E+04	1.05669599E+01 2.86847932E+04		4	
AL2	J 6/79AL 2. 0. 0. 0.G	300.000 5000.000	53.96308	1	Chase (1985)
	5.81580620E+00-1.32505370E-03 6.07518860E-07-1.06924190E-10	7.06114090E-15		2	
	5.67890470E+04-4.95471067E+00 1.80944810E+00	1.59365020E-02-2.72502580E-05		3	
	1.98711200E-08-5.36840460E-12 5.75311340E+04	1.40720809E+01 5.85749290E+04		4	
AL2Br6	J 9/79AL 2.BR 6. 0. 0.G	300.000 5000.000	533.38708	1	Chase (1985)
	2.12743310E+01 8.39396350E-04-3.75947780E-07	7.41701100E-11-5.37285510E-15		2	
	-1.19293250E+05-5.61068200E+01 1.41859790E+01	3.44525060E-02-6.25224370E-05		3	
	5.21732380E-08-1.64827090E-11-1.18025250E+05-2.29291060E+01	-1.12721454E+05		4	
AL2CL6	J 9/79AL 2.CL 6. 0. 0.G	300.000 5000.000	266.67928	1	Chase (1985)
	2.07940030E+01 1.39142470E-03-6.22136710E-07	1.22593770E-10-8.87275850E-15		2	
	-1.62404720E+05-6.24731881E+01 1.05091980E+01	4.90774360E-02-8.72087260E-05		3	
	7.17234320E-08-2.24243280E-11-1.60517840E+05-1.40840671E+01	-1.55842516E+05		4	
AL2F6	J 9/79AL 2.F 6. 0. 0.G	300.000 5000.000	167.95350	1	Chase (1985)
	1.88298460E+01 3.62022300E-03-1.60855520E-06	3.15662520E-10-2.27802870E-14		2	
	-3.23151100E+05-6.32400790E+01 3.16181180E+00	6.88988900E-02-1.09658600E-04		3	
	8.32933420E-08-2.45610490E-11-3.19942480E+05	1.22125640E+01-3.16753265E+05		4	
AL2I6	J 9/79AL 2.I 6. 0. 0.G	300.000 5000.000	815.38990	1	Chase (1985)
	2.15031910E+01 5.75941930E-04-2.58390280E-07	5.10459770E-11-3.70177380E-15		2	
	-6.54491310E+04-5.11660663E+01 1.62254980E+01	2.59384390E-02-4.76423520E-05		3	
	4.00836850E-08-1.27371840E-11-6.45194970E+04-2.65404143E+01	-5.89767000E+04		4	
AL2O	J12/79AL 2.0 1. 0. 0.G	300.000 5000.000	69.96248	1	Chase (1985)
	6.77206270E+00 8.25500920E-04-3.62910010E-07	6.95313000E-11-4.73452110E-15		2	
	-1.96431970E+04-8.77233125E+00 4.07326560E+00	1.13076130E-02-1.65651620E-05		3	
	1.17842840E-08-3.30055030E-12-1.90542300E+04	4.40834835E+00-1.74618202E+04		4	
AL2O+	J12/79AL 2.0 1.E -1. 0.G	300.000 5000.000	69.96193	1	Chase (1985)
	6.87978550E+00 7.07498770E-04-3.14192440E-07	6.16409830E-11-4.44786980E-15		2	
	7.62707560E+04-8.33181441E+00 4.10457360E+00	1.19783510E-02-1.85225890E-05		3	
	1.37566910E-08-3.98674230E-12 7.68527030E+04	5.10257249E+00 7.84705396E+04		4	
AL2O2	J12/79AL 2.0 2. 0. 0.G	300.000 5000.000	85.96188	1	Chase (1985)
	9.15909760E+00 9.68539270E-04-4.32585130E-07	8.51788400E-11-6.16153700E-15		2	
	-5.04280590E+04-1.91564680E+01 2.75964110E+00	2.99975990E-02-5.21904970E-05		3	
	4.22826860E-08-1.30753600E-11-4.92260320E+04	1.11007720E+01-4.74536598E+04		4	
AL2O2+	J12/79AL 2.0 2.E -1. 0.G	300.000 5000.000	85.96133	1	Chase (1985)
	9.27516930E+00 8.35872230E-04-3.73616080E-07	7.36051680E-11-5.32627940E-15		2	
	6.52640680E+04-1.86772586E+01 3.34219040E+00	2.81112490E-02-4.95471780E-05		3	
	4.05097520E-08-1.26103100E-11 6.63625060E+04	9.29024168E+00 6.82447923E+04		4	
Ar	6/88AR 1. 0. 0. 0.G	200.000 6000.000	39.94800	1	McBride (1993)
	2.50000000E+00 0.00000000E+00 0.00000000E+00	0.00000000E+00 0.00000000E+00		2	
	-7.45375000E+02 4.37967491E+00 2.50000000E+00	0.00000000E+00 0.00000000E+00		3	
	0.00000000E+00 0.00000000E+00-7.45375000E+02	4.37967491E+00 0.00000000E+00		4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

Ar+	L10/92AR 1.E	-1.	0.	0.G	298.150	6000.000	39.94745	1	Moore, C.E. (1971)
	2.86999547E+00	-1.42547242E-04	9.36688776E-09	2.92580859E-12	-3.58247941E-16			2	
	1.82702617E+05	3.53229975E+00	2.59316097E+00	-1.32892944E-03	5.26503944E-06			3	
	-5.97956691E-09	2.18967862E-12	1.82878368E+05	5.44980570E+00	1.83628186E+05			4	
B	J 6/83B 1.	0.	0.	0.G	200.000	6000.000	10.81100	1	Chase (1985)
	2.49860273E+00	1.40267322E-06	1.09458278E-09	-1.20006414E-12	2.43121994E-16			2	
	6.66075914E+04	4.21887979E+00	2.51054099E+00	-6.23801328E-05	1.42178099E-07			3	
	-1.41697796E-10	5.15018749E-14	6.66053894E+04	4.16367209E+00	6.73521350E+04			4	
B+	J 6/83B 1.E	-1.	0.	0.G	298.150	6000.000	10.81045	1	Chase (1985)
	2.51207118E+00	-2.60008491E-05	1.90411755E-08	-5.71840071E-12	6.06893037E-16			2	
	1.63627851E+05	2.35392699E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	1.63631960E+05	2.41907708E+00	1.64377336E+05			4	
B-	J 6/83B 1.E	1.	0.	0.G	298.150	6000.000	10.81155	1	Chase (1985)
	2.50007592E+00	-8.17294256E-08	3.29965783E-11	-5.74649652E-15	3.62366056E-19			2	
	6.26417693E+04	4.61598613E+00	2.50120271E+00	-5.73427208E-06	1.09670435E-08			3	
	-9.50303533E-12	3.08935774E-15	6.26415806E+04	4.61078158E+00	6.33871389E+04			4	
BCL	J12/64B 1.	0.	0.	0.G	300.000	5000.000	46.26370	1	Chase (1985)
	4.10205710E+00	4.86591930E-04	-1.88643260E-07	3.58333420E-11	-2.50990690E-15			2	
	1.56879580E+04	1.95525119E+00	2.83644630E+00	4.43688120E-03	-4.38875220E-06			3	
	1.51610780E-09	3.26461950E-14	1.60013610E+04	8.34533209E+00	1.70084902E+04			4	
BCL+	J 6/70B 1.CL 1.E	-1.	0.	0.G	300.000	5000.000	46.26315	1	Chase (1985)
	4.10608880E+00	4.72741700E-04	-1.79285840E-07	3.24161370E-11	-2.05457580E-15			2	
	1.47130970E+05	2.64272940E+00	2.81241970E+00	4.60063920E-03	-4.81199620E-06			3	
	1.96722160E-09	-1.38378020E-13	1.47448490E+05	9.15668240E+00	1.48452806E+05			4	
BCLF	J12/64B 1.CL 1.F	1.	0.	0.G	300.000	5000.000	65.26210	1	Chase (1985)
	5.70767570E+00	1.41002030E-03	-6.01141370E-07	1.13670440E-10	-7.93680630E-15			2	
	-3.96933270E+04	-1.53503845E+00	3.31202340E+00	7.41987630E-03	-4.34859490E-06			3	
	-1.13740570E-09	1.37638900E-12	-3.90175480E+04	1.09483562E+01	-3.77402953E+04			4	
BCL2	J 6/72B 1.CL 2.	0.	0.	0.G	300.000	5000.000	81.71640	1	Chase (1985)
	6.44598380E+00	5.79279480E-04	-2.60497050E-07	6.35963580E-11	-5.39822150E-15			2	
	-1.16613040E+04	-4.46086977E+00	3.29747860E+00	1.20825760E-02	-1.61237550E-05			3	
	9.62658560E-09	-2.05991990E-12	-1.09565370E+04	1.10425333E+01	-9.56076191E+03			4	
BCL2+	J12/70B 1.CL 2.E	1.	0.	0.G	300.000	5000.000	81.71585	1	Chase (1985)
	6.92666270E+00	6.77776330E-04	-3.21014960E-07	6.83444220E-11	-5.00735920E-15			2	
	7.88578220E+04	-8.93462664E+00	4.27049310E+00	1.06037910E-02	-1.42298380E-05			3	
	8.53728310E-09	-1.83496710E-12	7.94360160E+04	4.07645066E+00	8.10708542E+04			4	
BCL2-	J 6/72B 1.CL 2.E	1.	0.	0.G	300.000	5000.000	81.71695	1	Chase (1985)
	6.35182180E+00	7.70288480E-04	-4.46998630E-07	1.38311780E-10	-1.32219950E-14			2	
	-1.97054320E+04	-4.77472070E+00	3.23587910E+00	1.16902190E-02	-1.47782590E-05			3	
	8.21815460E-09	-1.56579130E-12	-1.89818150E+04	1.06900104E+01	-1.76125075E+04			4	
BCL3	J12/64B 1.CL 3.	0.	0.	0.G	300.000	5000.000	117.16910	1	Chase (1985)
	8.59853800E+00	1.55319230E-03	-6.70006020E-07	1.27891120E-10	-9.00000590E-15			2	
	-5.13570710E+04	-1.51584297E+01	3.73952650E+00	1.81058130E-02	-2.13404610E-05			3	
	1.08283350E-08	-1.73259670E-12	-5.02146090E+04	9.05312747E+00	-4.84628831E+04			4	
BF	J 6/72B 1.F 1.	0.	0.	0.G	300.000	5000.000	29.80940	1	Chase (1985)
	3.57718880E+00	1.01929080E-03	-4.12515640E-07	7.71964380E-11	-5.34987410E-15			2	
	-1.51272640E+04	3.26612227E+00	3.46136090E+00	-9.56854680E-04	6.01357440E-06			3	
	-6.49780570E-09	2.23553490E-12	-1.49698200E+04	4.46077947E+00	-1.39390003E+04			4	
BF2	J 6/72B 1.F 2.	0.	0.	0.G	300.000	5000.000	48.80781	1	Chase (1985)
	5.44474570E+00	1.75332110E-03	-7.84444740E-07	1.57198590E-10	-1.13110710E-14			2	
	-7.28603670E+04	-2.27331909E+00	3.03093030E+00	7.24110210E-03	-2.82509190E-06			3	
	-2.89204130E-09	2.00461020E-12	-7.21511020E+04	1.04457036E+01	-7.09553140E+04			4	
BF2+	J12/70B 1.F 2.E	1.	0.	0.G	300.000	5000.000	48.80726	1	Chase (1985)
	5.81276380E+00	1.81934240E-03	-7.71034570E-07	1.44897820E-10	-9.98091560E-15			2	
	3.67948010E+04	-7.00431185E+00	3.31464740E+00	8.64436540E-03	-6.75253960E-06			3	
	1.33836650E-09	4.51149100E-13	3.74836490E+04	5.90468985E+00	3.87993258E+04			4	
BF2-	J 6/72B 1.F 2.E	1.	0.	0.G	300.000	5000.000	48.80835	1	Chase (1985)
	5.31003480E+00	2.00204390E-03	-9.72355100E-07	2.16414430E-10	-1.66408810E-14			2	
	-9.83369280E+04	-2.32776093E+00	3.14245810E+00	6.41045790E-03	-1.23864610E-06			3	
	-4.12201000E-09	2.34723670E-12	-9.76729640E+04	9.22523217E+00	-9.64690963E+04			4	
BF3	J 6/69B 1.F 3.	0.	0.	0.G	300.000	5000.000	67.80621	1	Chase (1985)
	7.02419850E+00	3.22215590E-03	-1.37051540E-06	2.59196710E-10	-1.81223100E-14			2	
	-1.39180720E+05	-1.11843009E+01	2.44682440E+00	1.52763120E-02	-1.07846170E-05			3	
	6.89075020E-10	1.48931870E-12	-1.37901350E+05	1.25678211E+01	-1.36586061E+05			4	
BH	J12/64B 1.H 1.	0.	0.	0.G	300.000	5000.000	11.81894	1	Chase (1985)
	2.89190790E+00	1.58329460E-03	-5.82617290E-07	1.02420680E-10	-6.76695690E-15			2	
	5.23287140E+04	3.79624329E+00	3.68622060E+00	-1.30554350E-03	2.67421050E-06			3	
	-9.10737380E-10	-1.55911360E-13	5.21763300E+04	-5.52454012E-02	5.32391023E+04			4	
BHF2	J12/65B 1.H 1.F 2.	0.	0.	0.G	300.000	5000.000	49.81575	1	Chase (1985)
	5.31845270E+00	4.74444660E-03	-1.93378580E-06	3.55083820E-10	-2.42936670E-14			2	
	-9.03750120E+04	-3.04314020E+00	2.40536020E+00	9.27558440E-03	1.33864610E-06			3	
	-8.68078950E-09	4.12110150E-12	-8.93884090E+04	1.28880442E+01	-8.82623625E+04			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

BH2	J12/64B	1.H	2.	0.	0.G	300.000	5000.000	12.82688	1	Chase (1985)
									2	
									3	
									4	
BH3	J12/64B	1.H	3.	0.	0.G	300.000	5000.000	13.83482	1	Chase (1985)
									2	
									3	
									4	
BN	J 6/66B	1.N	1.	0.	0.G	300.000	5000.000	24.81774	1	Chase (1985)
									2	
									3	
									4	
BO	J 6/68B	1.0	1.	0.	0.G	300.000	5000.000	26.81040	1	Chase (1985)
									2	
									3	
									4	
BOCL	J12/65B	1.0	1.CL	1.	0.G	300.000	5000.000	62.26310	1	Chase (1985)
									2	
									3	
									4	
BOF	J12/65B	1.0	1.F	1.	0.G	200.000	6000.000	45.80880	1	Chase (1985)
									2	
									3	
									4	
BOF2	J12/66B	1.0	1.F	2.	0.G	300.000	5000.000	64.80721	1	Chase (1985)
									2	
									3	
									4	
BO2	J 6/68B	1.0	2.	0.	0.G	300.000	5000.000	42.80980	1	Chase (1985)
									2	
									3	
									4	
BO2-	J12/68B	1.0	2.E	1.	0.G	300.000	5000.000	42.81035	1	Chase (1985)
									2	
									3	
									4	
BS	J 6/72B	1.S	1.	0.	0.G	300.000	5000.000	42.87700	1	Chase (1985)
									2	
									3	
									4	
B2	J 3/79B	2.	0.	0.	0.G	200.000	6000.000	21.62200	1	Chase (1985)
									2	
									3	
									4	
B20	J 6/66B	2.0	1.	0.	0.G	300.000	5000.000	37.62140	1	Chase (1985)
									2	
									3	
									4	
B202	J12/64B	2.0	2.	0.	0.G	300.000	5000.000	53.62080	1	Chase (1985)
									2	
									3	
									4	
B203	J 6/71B	2.0	3.	0.	0.G	300.000	5000.000	69.62020	1	Chase (1985)
									2	
									3	
									4	
B303CL3	J 3/65B	3.0	3.CL	3.	0.G	300.000	5000.000	186.78930	1	Chase (1985)
									2	
									3	
									4	
B303F3	J 3/65B	3.0	3.F	3.	0.G	300.000	5000.000	137.42641	1	Chase (1985)
									2	
									3	
									4	
B303H3	J 3/65B	3.0	3.H	3.	0.G	200.000	6000.000	83.45502	1	Chase (1985)
									2	
									3	
									4	
Ba	J12/70BA	1.	0.	0.	0.G	300.000	5000.000	137.32700	1	Chase (1985)
									2	
									3	
									4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

BaBr	J12/74BA 1.BR 1.	0.	0.G	300.000	5000.000	217.23100	1	Chase (1985)
	4.36897740E+00	3.90758870E-04	-2.99017490E-07	1.06413010E-10	-9.84160490E-15		2	
	-1.46176850E+04	7.52526087E+00	4.17145530E+00	1.59608130E-03	-2.88865420E-06		3	
	2.47671470E-09	-7.98307000E-13	-1.45944950E+04	8.38620677E+00	-1.33008383E+04		4	
BaBr2	J12/74BA 1.BR 2.	0.	0.G	300.000	5000.000	297.13500	1	Chase (1985)
	6.95023380E+00	5.80660230E-05	-2.61954280E-08	5.19928280E-12	-3.78527700E-16		2	
	-5.31668420E+04	1.49002755E+00	6.34052750E+00	3.05619520E-03	-5.72858640E-06		3	
	4.88759680E-09	-1.56880810E-12	-5.30623160E+04	4.31943715E+00	-5.10777430E+04		4	
BaCl	J12/72BA 1.CL 1.	0.	0.G	300.000	5000.000	172.77970	1	Chase (1985)
	4.66752380E+00	-2.21872510E-04	8.12706800E-08	3.02169620E-11	-5.31833010E-15		2	
	-1.85421420E+04	4.46444204E+00	3.97811480E+00	2.18032180E-03	-3.43425650E-06		3	
	2.51822120E-09	-6.90580270E-13	-1.83669370E+04	7.92426104E+00	-1.71096446E+04		4	
BaCl2	J12/72BA 1.CL 2.	0.	0.G	300.000	5000.000	208.23240	1	Chase (1985)
	6.91386370E+00	9.82139630E-05	-4.32683480E-08	8.39690060E-12	-5.98920850E-16		2	
	-6.20760510E+04	-3.05863075E-01	6.05712380E+00	3.84261490E-03	-6.26832050E-06		3	
	4.61966650E-09	-1.27447680E-12	-6.19145360E+04	3.76179166E+00	-5.99846649E+04		4	
BaF	J12/72BA 1.F 1.	0.	0.G	300.000	5000.000	156.32540	1	Chase (1985)
	4.35871250E+00	3.01107380E-04	-2.28633150E-07	8.98655540E-11	-8.76575950E-15		2	
	-4.01013760E+04	4.60148543E+00	3.35375060E+00	4.38195800E-03	-6.64059290E-06		3	
	4.61432290E-09	-1.19715180E-12	-3.98929560E+04	9.45758923E+00	-3.87483866E+04		4	
BaF+	J12/72BA 1.F 1.E -1.	0.	0.G	300.000	5000.000	156.32485	1	Chase (1985)
	6.49455650E+00	-4.11300560E-03	2.58828080E-06	-5.04586980E-10	3.07195600E-14		2	
	1.59606510E+04	-7.88498453E+00	3.16174640E+00	4.88760790E-03	-7.12198820E-06		3	
	4.71449710E-09	-1.14589830E-12	1.69604640E+04	9.54623287E+00	1.80662310E+04		4	
BaF2	J12/72BA 1.F 2.	0.	0.G	300.000	5000.000	175.32381	1	Chase (1985)
	6.79771590E+00	2.29321960E-04	-1.00535210E-07	1.94285660E-11	-1.38075070E-15		2	
	-9.87631140E+04	-2.69528321E+00	5.09682390E+00	7.42262500E-03	-1.16828330E-05		3	
	8.32962180E-09	-2.22168560E-12	-9.84315950E+04	5.43692089E+00	-9.66698696E+04		4	
BaOH	J12/75BA 1.0 1.H 1.	0.	0.G	300.000	5000.000	154.33434	1	Chase (1985)
	5.51784680E+00	1.47809030E-03	-5.78233070E-07	1.40402220E-10	-1.20357650E-14		2	
	-2.89590740E+04	-1.49787288E+00	2.66818310E+00	1.68839760E-02	-3.10317770E-05		3	
	2.64210480E-08	-8.39535880E-12	-2.85546680E+04	1.13434092E+01	-2.72346238E+04		4	
BaOH+	J 6/76BA 1.0 1.H 1.E -1.G	0.	0.G	300.000	5000.000	154.33379	1	Chase (1985)
	5.51260190E+00	1.40138400E-03	-4.23502160E-07	6.05783630E-11	-3.35196530E-15		2	
	3.08713490E+04	-2.10767301E+00	2.70904900E+00	1.67265250E-02	-3.07679270E-05		3	
	2.62104480E-08	-8.33038390E-12	3.12550790E+04	1.04707909E+01	3.25822547E+04		4	
BaO2H2	J12/75BA 1.0 2.H 2.	0.	0.G	300.000	5000.000	171.34168	1	Chase (1985)
	9.08247350E+00	2.73683110E-03	-8.17536780E-07	1.15348840E-10	-6.28337560E-15		2	
	-7.81865860E+04	-1.46886716E+01	3.79093560E+00	3.20754490E-02	-5.93508060E-05		3	
	5.07763850E-08	-1.61811310E-11	-7.74835580E+04	8.94869323E+00	-7.53592938E+04		4	
BaS	J 9/77BA 1.S 1.	0.	0.G	300.000	5000.000	169.39300	1	Chase (1985)
	4.44025870E+00	7.42693980E-04	-1.17956810E-06	5.76186380E-10	-6.75463240E-14		2	
	3.11598200E+03	4.28598436E+00	3.48161710E+00	4.56581350E-03	-8.27264100E-06		3	
	6.93725940E-09	-2.20002430E-12	3.36364880E+03	9.04422506E+00	4.54421146E+03		4	
Be	J 9/83BE 1.	0.	0.G	200.000	6000.000	9.01218	1	Chase (1985)
	2.29438566E+00	4.11669841E-04	-2.64730832E-07	6.25681388E-11	-3.89281007E-15		2	
	3.82958055E+04	3.26731909E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00		3	
	0.00000000E+00	0.00000000E+00	3.82226460E+04	2.14617283E+00	3.89680210E+04		4	
Be+	J 9/83BE 1.E -1.	0.	0.G	298.150	6000.000	9.01163	1	Chase (1985)
	2.50168976E+00	-5.10373647E-06	5.27481090E-09	-2.16155049E-12	3.00713026E-16		2	
	1.45893277E+05	2.83066790E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00		3	
	0.00000000E+00	0.00000000E+00	1.45893693E+05	2.83922870E+00	5.00000000E+05		4	
BeB02	J 6/66BE 1.B 1.0 2.	0.	0.G	300.000	5000.000	51.82198	1	Chase (1985)
	6.91083760E+00	3.26686840E-03	-1.36781200E-06	2.55762110E-10	-1.77277410E-14		2	
	-6.05057150E+04	-9.16165811E+00	2.00691200E+00	1.80448240E-02	-1.69175810E-05		3	
	6.08653730E-09	-1.72762850E-13	-5.92341970E+04	1.58055570E+01	-5.79713193E+04		4	
BeBr	J 6/75BE 1.BR 1.	0.	0.G	300.000	5000.000	88.91618	1	Chase (1985)
	4.19438870E+00	3.99390230E-04	-1.48388730E-07	2.67622720E-11	-1.56261270E-15		2	
	1.31154640E+04	3.32294842E+00	2.65914570E+00	6.70272780E-03	-1.04037110E-05		3	
	7.76551940E-09	-2.25309180E-12	1.34330960E+04	1.07356520E+01	1.44462019E+04		4	
BeBr2	J 6/75BE 1.BR 2.	0.	0.G	300.000	5000.000	168.82018	1	Chase (1985)
	6.83448720E+00	7.54292870E-04	-3.33682060E-07	6.53023490E-11	-4.70410960E-15		2	
	-2.97571170E+04	-6.47179189E+00	4.64222830E+00	9.00844510E-03	-1.26985560E-05		3	
	7.75589850E-09	-2.39231940E-12	-2.92654350E+04	4.30011931E+00	-2.75769745E+04		4	
BeCL	J 9/66BE 1.CL 1.	0.	0.G	300.000	5000.000	44.46488	1	Chase (1985)
	4.10528780E+00	4.74617010E-04	-1.79965280E-07	3.25639030E-11	-2.06528400E-15		2	
	5.97530600E+03	2.46451734E+00	2.83219870E+00	4.45667640E-03	-4.44821610E-06		3	
	1.58525870E-09	4.52068940E-15	6.29062480E+03	8.89156044E+00	7.29696540E+03		4	
BeCL+	J 6/68BE 1.CL 1.E -1.	0.	0.G	300.000	5000.000	44.46433	1	Chase (1985)
	5.38275000E+00	-1.84711980E-03	1.11236830E-06	-1.69529940E-10	6.10070910E-15		2	
	1.15997170E+05	-5.06224147E+00	2.89659840E+00	5.12674920E-03	-6.44279110E-06		3	
	3.56326400E-09	-6.59250880E-13	1.16714660E+05	7.83727033E+00	1.17755958E+05		4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

BeCLF	J 6/65BE 1.CL 1.F 1. 0.G	300.000	5000.000	63.46329	1	Chase (1985)
6.44027910E+00	1.14636930E-03-4.85453600E-07	9.12878650E-11	-6.34435490E-15		2	
-7.10597710E+00	7.72869958E+00 4.10243810E+00	8.50174900E-03	-8.90939630E-06		3	
4.00762320E-09	5.16275390E-13-7.04687360E+04	4.09916292E+00	-6.89387557E+04		4	
BeCL2	J 6/65BE 1.CL 2. 0. 0.G	300.000	5000.000	79.91758	1	Chase (1985)
6.70431910E+00	8.71664680E-04-3.72550530E-07	7.05670060E-11	-4.93353600E-15		2	
-4.54945580E+04	8.42201233E+00 4.49271250E+00	8.05355450E-03	-8.83192390E-06		3	
4.08970490E-09	5.34980920E-13-4.49528810E+04	2.69582137E+00	-4.33256234E+04		4	
BeF	J12/71BE 1.F 1. 0. 0.G	300.000	5000.000	28.01059	1	Chase (1985)
3.70952950E+00	8.93836000E-04-3.61130680E-07	6.76010920E-11	-4.64208330E-15		2	
-2.16600520E+04	3.16419267E+00 3.27618620E+00	2.52337590E-04	4.09399440E-06		3	
-5.31281500E-09	1.99549000E-12-2.14459240E+04	5.86499677E+00	-2.04313003E+04		4	
BeF2	J 6/70BE 1.F 2. 0. 0.G	300.000	5000.000	47.00899	1	Chase (1985)
6.04576310E+00	1.56293740E-03-6.61081970E-07	1.24475510E-10	-8.67160630E-15		2	
-9.77791270E+04	7.91788256E+00 3.52342740E+00	9.38902840E-03	-9.56362080E-06		3	
4.29209890E-09	5.77511130E-13-9.71304610E+04	4.88397544E+00	-9.57389228E+04		4	
BeH	J 3/63BE 1.H 1. 0. 0.G	300.000	5000.000	10.02012	1	Chase (1985)
3.05702180E+00	1.49772230E-03-5.68729630E-07	1.02608170E-10	-6.91569790E-15		2	
-2.16600520E+04	3.40027448E+00 3.73123050E+00	1.91435480E-03	4.89103250E-06		3	
-3.29258830E-09	6.66385620E-13 3.75655600E+04	3.88608224E-01	3.86299590E+04		4	
BeH+	J 9/66BE 1.H 1.E -1. 0.G	300.000	5000.000	10.01957	1	Chase (1985)
2.90159920E+00	1.67517610E-03-6.68055030E-07	1.25109510E-10	-8.17414660E-15		2	
1.38168120E+05	3.55562865E+00 3.70957120E+00	1.58520310E-03	3.62287690E-06		3	
-1.89332210E-09	1.71732640E-13 1.38028660E+05	-2.82896920E-01	1.39092559E+05		4	
BeI	J12/75BE 1.I 1. 0. 0.G	300.000	5000.000	135.91665	1	Chase (1985)
4.26004930E+00	3.43208190E-04-1.27594770E-07	2.41897090E-11	-1.45701420E-15		2	
1.91103520E+04	4.04766768E+00 2.78261220E+00	6.84103480E-03	-1.13898960E-05		3	
8.99241280E-09	2.72776860E-12 1.93961830E+04	1.10789367E+01	2.04457353E+04		4	
BeI2	J12/75BE 1.I 2. 0. 0.G	300.000	5000.000	262.82112	1	Chase (1985)
7.00112620E+00	5.68788720E-04-2.52537550E-07	4.95410540E-11	-3.57472040E-15		2	
-9.90388590E+03	5.21025524E+00 4.93737860E+00	8.74047370E-03	-1.31147240E-05		3	
9.49284940E-09	2.69263360E-12-9.46160050E+03	4.82951136E+00	-7.69941366E+03		4	
BeN	J 6/63BE 1.N 1. 0. 0.G	300.000	5000.000	23.01892	1	Chase (1985)
3.78559370E+00	8.23865750E-04-3.27116020E-07	6.15518880E-11	-4.28090410E-15		2	
5.00661800E+04	3.10558513E+00 3.16842860E+00	1.02824830E-03	2.73760170E-06		3	
-4.34810990E-09	1.75344530E-12 5.03104510E+04	6.66252483E+00	5.13172421E+04		4	
BeO	J12/74BE 1.0 1. 0. 0.G	200.000	6000.000	25.01158	1	Chase (1985)
5.66778473E+00	4.07847614E-03 3.41112608E-06	-8.21052371E-10	6.13773279E-14		2	
1.45899580E+04	8.08580712E+00 3.78974248E+00	-3.24896226E-03	1.12988533E-05		3	
-1.18056315E-08	4.20675761E-12 1.53410696E+04	2.73905294E+00	1.64050557E+04		4	
BeOH	J12/75BE 1.0 1.H 1. 0.G	300.000	5000.000	26.01952	1	Chase (1985)
4.61167200E+00	2.39720130E-03-8.54891620E-07	1.43090620E-10	-9.11123990E-15		2	
-1.53618380E+04	1.98829219E+00 1.91391480E+00	1.35071590E-02	-1.85316870E-05		3	
1.29424710E-08	3.54389610E-12-1.48196830E+04	1.09928304E+01	-1.37885210E+04		4	
BeOH+	J12/75BE 1.0 1.H 1.E -1.G	300.000	5000.000	26.01897	1	Chase (1985)
4.62235270E+00	2.39025710E-03-8.55494730E-07	1.44416710E-10	-9.35602940E-15		2	
8.98294360E+04	2.72614681E+00 1.92809820E+00	1.35342400E-02	-1.86540260E-05		3	
1.30739210E-08	3.59005760E-12 9.03683050E+04	1.02257268E+01	9.14040565E+04		4	
BeO2H2	J12/75BE 1.0 2.H 2. 0.G	300.000	5000.000	43.02686	1	Chase (1985)
7.85504780E+00	4.64775800E-03-1.65028340E-06	2.76706230E-10	-1.78262980E-14		2	
-8.41062590E+04	1.84294661E+01 2.41843930E-01	3.99135680E-02	-6.45882010E-05		3	
5.10234760E-08	1.54792050E-11-8.27410450E+04	1.73136259E+01	-8.13720155E+04		4	
BeS	J 9/77BE 1.S 1. 0. 0.G	300.000	5000.000	41.07818	1	Chase (1985)
5.20407340E+00	3.87420220E-03 4.25788910E-06	-1.25605990E-09	1.13434030E-13		2	
3.02260840E+04	3.57801203E+00 2.90225380E+00	3.18974130E-03	-1.36518250E-06		3	
-1.50927100E-09	1.22759290E-12 3.07107600E+04	7.87585057E+00	3.17033766E+04		4	
Be2O	J 9/63BE 2.0 1. 0. 0.G	300.000	5000.000	34.02376	1	Chase (1985)
5.45497340E+00	2.19703850E-03-9.29195780E-07	1.74964100E-10	-1.21899820E-14		2	
-9.49589850E+03	5.67042283E+00 2.75278970E+00	8.96486990E-03	-5.58592470E-06		3	
-3.47691880E-10	1.10154720E-12-8.71747090E+03	8.45191877E+00	-7.54778448E+03		4	
Be2OF2	J 6/66BE 2.0 1.F 2. 0.G	300.000	5000.000	72.02057	1	Chase (1985)
1.03113430E+01	2.92581510E-03-1.24819870E-06	2.36521690E-10	-1.65591600E-14		2	
-1.48446230E+05	2.44876830E+01 4.86000260E+00	1.94389820E-02	-1.88187600E-05		3	
7.10095030E-09	3.72252580E-13-1.47039590E+05	3.24173340E+00	-1.44878984E+05		4	
Be2O2	J 9/63BE 2.0 2. 0. 0.G	300.000	5000.000	50.02316	1	Chase (1985)
7.17836520E+00	3.07969260E-03-1.31622730E-06	2.49706140E-10	-1.74963390E-14		2	
-5.19848760E+04	1.29255949E+01 1.71027390E+00	1.82449390E-02	-1.43772530E-05		3	
2.12688160E-09	1.46919930E-12-5.05123660E+04	1.52145101E+01	-4.93136425E+04		4	
Be3O3	J 9/63BE 3.0 3. 0. 0.G	300.000	5000.000	75.03475	1	Chase (1985)
9.19073220E+00	7.36237010E-03-3.12927290E-06	5.91625890E-10	-4.13601940E-14		2	
-1.30618490E+05	2.33168799E+01 2.00026920E+00	2.00051720E-02	5.75178470E-07		3	
-1.70928050E-08	8.48627850E-12-1.28268670E+05	1.56209531E+01	-1.26807812E+05		4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

Be404	J 9/63BE 4.0 4. 0. 0.G	300.000 5000.000 100.04633	1	Chase (1985)
1.45470300E+01	8.19037300E-03-3.51627890E-06	6.69234570E-10-4.70059630E-14	2	
-1.97048450E+05	-5.14967659E+01-1.38184380E+05	5.23848280E-02-4.08930180E-05	3	
4.73797070E-09	4.99541640E-12-1.92783560E+05	3.04130661E+01-1.91216780E+05	4	
Br	J 6/82BR 1. 0. 0. 0.G	200.000 6000.000 79.90400	1	Chase (1985)
2.08851053E+00	7.12118611E-04-2.70003073E-07	4.14986299E-11-2.31188294E-15	2	
1.28568767E+04	9.07351144E+00 2.48571711E+00	1.50647525E-04-5.37267333E-07	3	
7.20921065E-10	-2.50205558E-13 1.27092168E+04	6.86030804E+00 1.34535890E+04	4	
Br2	TPIS89BR 2. 0. 0. 0.G	200.000 6000.000 159.80800	1	Gurvich (1989)
5.18728187E+00	-1.38651104E-03 9.34745153E-07-2.07065391E-10	1.41808517E-14	2	
2.10705678E+03	7.76223394E-02 3.34331004E+00	6.35230769E-03-1.36418815E-05	3	
1.31726300E-08	-4.68373476E-12 2.53515408E+03	9.07940353E+00 3.71759731E+03	4	
C	L11/88C 1. 0. 0. 0.G	200.000 6000.000 12.01100	1	Moore, C.E. (1970)
2.60558298E+00	-1.95934335E-04 1.06737219E-07-1.64239390E-11	8.18705752E-16	2	Douglas (1955)
8.54129443E+04	4.19238681E+00 2.55423955E+00-3.21537724E-04	7.33792245E-07	3	
-7.32234889E-10	2.66521446E-13 8.54438832E+04	4.53130848E+00 8.61963002E+04	4	
C+	L 7/88C 1.E -1. 0. 0.G	298.150 6000.000 12.01045	1	Moore, C.E. (1970)
2.50853519E+00	-1.08599270E-05 5.37069210E-09-1.18270596E-12	9.71267564E-17	2	
2.16879493E+05	4.31739637E+00 2.61523966E+00-5.53783873E-04	1.06348636E-06	3	
-9.23756345E-10	3.00774568E-13 2.16862053E+05	3.82652926E+00 2.17624885E+05	4	
C-	TPIS91C 1.E 1. 0. 0.G	298.150 6000.000 12.01155	1	Gurvich (1991)
2.50000000E+00	0.00000000E+00 0.00000000E+00	0.00000000E+00 0.00000000E+00	2	
6.99315654E+04	3.96340421E+00 2.50000000E+00	0.00000000E+00 0.00000000E+00	3	
0.00000000E+00	0.00000000E+00 6.99315654E+04	3.96340421E+00 7.06769404E+04	4	
CCL	J12/69C 1.CL 1. 0. 0.G	300.000 5000.000 47.46370	1	Chase (1985)
4.09847270E+00	5.00778450E-04-2.00128330E-07	3.86809920E-11-2.54411130E-15	2	
5.90765990E+04	3.35017361E+00 3.19535570E+00	2.80763180E-03-1.60438450E-06	3	
-5.77440650E-10	6.14097320E-13 5.93250770E+04	8.03517321E+00 6.03875369E+04	4	
CCLF3	L12/77C 1.CL 1.F 3. 0.G	298.150 5000.000 104.45891	1	Chen (1976)
1.01650960E+01	2.84600420E-03-1.09260240E-06	1.83143740E-10-1.11940590E-14	2	
-8.88487500E+04	-2.57041070E+01 2.90119360E+00	2.05636580E-02-8.55086360E-06	3	
-1.03956450E-08	7.57218250E-12-8.68295630E+04	1.21150710E+01-8.51452700E+04	4	
CCL2	J12/68C 1.CL 2. 0. 0.G	300.000 5000.000 82.91640	1	Chase (1985)
3.71849990E+00	5.34497450E-03-2.34312840E-06	4.18061770E-10-2.67652950E-14	2	
2.75547930E+04	9.64597954E+00 2.85885050E+00	1.39579380E-02-2.00388980E-05	3	
1.35007260E-08	-3.16697150E-12 2.73639260E+04	1.22433131E+01 2.86848211E+04	4	
CCL2F2	L12/77C 1.CL 2.F 2. 0.G	298.150 5000.000 120.91321	1	Chen (1976)
1.07082480E+01	2.32321860E-03-9.00732230E-07	1.52617020E-10-9.44349580E-15	2	
-6.31026020E+04	-2.66228690E+01 3.81349660E+00	2.00368350E-02-9.89866930E-06	3	
-8.79953530E-09	7.12185520E-12-6.12535510E+04	8.99097859E+00-5.93299490E+04	4	
CCL3	J 6/70C 1.CL 3. 0. 0.G	300.000 5000.000 118.36910	1	Chase (1985)
8.78154730E+00	1.35161300E-03-5.82494530E-07	1.10986970E-10-7.79372640E-15	2	
6.63441510E+03	-1.53161324E+01 3.71533570E+00	1.94437960E-02-2.46278410E-05	3	
1.37864640E-08	-2.66389340E-12 7.78200200E+03	9.71604259E+00 9.56234693E+03	4	
CCL3F	L12/77C 1.CL 3.F 1. 0.G	298.150 5000.000 137.36750	1	Chen (1976)
1.12465300E+01	1.78376980E-03-6.92604430E-07	1.17407240E-10-7.26402920E-15	2	
-3.81083090E+04	-2.82759760E+01 4.82876870E+00	1.89817400E-02-1.03606620E-05	3	
-7.84721270E-09	6.84527520E-12-3.64461840E+04	4.63414709E+00-3.42694620E+04	4	
CCL4	L12/81C 1.CL 4. 0. 0.G	298.150 5000.000 153.82180	1	Rodgers (1974)
1.17390960E+01	1.28375530E-03-4.96502590E-07	8.35250200E-11-5.11072240E-15	2	
-1.54190900E+04	-3.07778070E+01 5.79662990E+00	1.79774390E-02-1.09565460E-05	3	
-6.66818070E-09	6.45548980E-12-1.39409650E+04	5.56947933E-01-1.15237980E+04	4	
CF	J 6/70C 1.F 1. 0. 0.G	300.000 5000.000 31.00940	1	Chase (1985)
3.68696790E+00	9.11434910E-04-3.64638550E-07	6.74828540E-11-4.52695960E-15	2	
2.94781250E+04	4.17450994E+00 3.46551430E+00-6.87798050E-04	5.67847660E-06	3	
-6.45829820E-09	2.29882480E-12 2.96555980E+04	5.88135474E+00 3.06967621E+04	4	
CF+	J12/70C 1.F 1.E -1. 0.G	298.150 6000.000 31.00885	1	Chase (1985)
3.67596084E+00	8.52823073E-04-3.06755661E-07	4.97430057E-11-2.83969038E-15	2	
1.37018878E+05	2.84608813E+00 3.58285095E+00-1.86390930E-03	8.53435341E-06	3	
-9.32378062E-09	3.33941713E-12 1.37198248E+05	4.07439000E+00 8.69748600E+03	4	
CF2	J 6/70C 1.F 2. 0. 0.G	300.000 5000.000 50.00781	1	Chase (1985)
5.22671420E+00	2.08376800E-03-9.90372780E-07	2.12648480E-10-1.58311140E-14	2	
-2.37558470E+04	-1.91090412E+00 2.76888210E+00	7.23729620E-03-1.60281520E-06	3	
-4.55123790E-09	2.66480110E-12-2.30157860E+04	1.11376959E+01-2.18904653E+04	4	
CF2+	J12/70C 1.F 2.E -1. 0.G	300.000 5000.000 50.00726	1	Chase (1985)
5.15542300E+00	2.05283100E-03-9.11739110E-07	1.82727610E-10-1.32136400E-14	2	
1.11431220E+05	-7.78766776E-01 2.97835220E+00	6.03366020E-03 6.58587850E-10	3	
-5.21294490E-09	2.66630210E-12 1.12126750E+05	1.09515564E+01 1.13273886E+05	4	
CF3	J 6/69C 1.F 3. 0. 0.G	300.000 5000.000 69.00621	1	Chase (1985)
7.20126220E+00	3.06639350E-03-1.31441810E-06	2.49969250E-10-1.75509280E-14	2	
-5.92386310E+04	-1.09457100E+01 2.06501680E+00	1.64241580E-02-1.08381460E-05	3	
-8.53179970E-10	2.38780700E-12-5.78119760E+04	1.57046930E+01-5.65626016E+04	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

CF3+	J12/71C	1.F	3.E	-1.	0.G	300.000	5000.000	69.00566	1	Chase (1985)
7.02254060E+00	3.24412710E-03	-1.38648750E-06	2.63236370E-10	-1.84644020E-14	2					
4.80223180E+04	-1.12065339E+01	2.26055760E+00	1.54223230E-02	-9.89566740E-06	3					
-7.83450460E-10	2.12118920E-12	4.93653380E+04	1.35784551E+01	5.06368231E+04	4					
CF4	L 6/83C	1.F	4.	0.	0.G	200.000	6000.000	86.00461	1	Rodgers (1974)
9.47215359E+00	3.59525216E-03	-1.40378502E-06	2.39188188E-10	-1.48558906E-14	2					
-1.15816337E+05	-2.49709091E+01	1.05143992E+00	2.78246468E-02	-2.46525260E-05	3					
6.74548304E-09	9.18909316E-13	-1.13574067E+05	1.81900899E+01	-1.12227900E+05	4					
CH	TPIS79C	1.H	1.	0.	0.G	200.000	6000.000	13.01894	1	Gurvich (1979)
2.52090627E+00	1.76537235E-03	-4.61475705E-07	5.92885472E-11	-3.34731962E-15	2					
7.11314363E+04	7.40532163E+00	3.48981665E+00	3.23835541E-04	-1.68899065E-06	3					
3.16217327E-09	-1.40609067E-12	7.07972934E+04	2.08401108E+00	7.18428386E+04	4					
CH+	TPIS91C	1.H	1.E	-1.	0.G	298.150	6000.000	13.01839	1	Gurvich (1991)
4.53726693E+00	-2.05165403E-03	1.69587170E-06	-3.51097709E-10	2.22129197E-14	2					
1.94661079E+05	-5.02782240E+00	3.53796552E+00	-7.59260194E-05	-6.09566708E-07	3					
2.00819522E-09	-1.00806821E-12	1.95057229E+05	5.23237674E-01	1.96106806E+05	4					
CHCL	TPIS79C	1.H	1.CL	1.	0.G	298.150	5000.000	48.47164	1	Gurvich (1979)
5.15660360E+00	4.58883250E-04	4.47490230E-07	-1.36067870E-10	1.02424450E-14	2					
3.53105770E+04	-1.75115341E+00	2.96136110E+00	6.11519160E-03	-4.52031800E-06	3					
1.30933890E-09	7.15780860E-14	3.59599830E+04	9.74350389E+00	3.70773980E+04	4					
CHCLF2	L12/77C	1.H	1.CL	1.F	2.G	298.150	5000.000	86.46845	1	Chen (1976)
7.90298270E+00	4.62519000E-03	-1.64898670E-06	2.59104290E-10	-1.48362120E-14	2					
-6.12342660E+04	-1.37342930E+01	2.46811200E+00	1.58839450E-02	-2.82090150E-06	3					
-1.04781320E-08	6.07048960E-12	-5.95708790E+04	1.51934280E+01	-5.81725370E+04	4					
CHCL2F	L12/77C	1.H	1.CL	2.F	1.G	298.150	5000.000	102.92274	1	Chen (1976)
8.50839230E+00	4.03457130E-03	-1.42682260E-06	2.22473030E-10	-1.26301730E-14	2					
-3.74279100E+04	-1.54116540E+01	3.11071590E+00	1.62958910E-02	-4.73311870E-06	3					
-9.47981600E-09	6.13237500E-12	-3.58622110E+04	1.29638680E+01	-3.42694620E+04	4					
CHCL3	X 6/81C	1.H	1.CL	3.	0.G	298.150	5000.000	119.37704	1	TRC(6/81)tuwv-7180
8.99380300E+00	3.56521920E-03	-1.25376480E-06	1.94791310E-10	-1.10320210E-14	2					
-1.56090000E+04	-1.76316890E+01	3.68198010E+00	1.66110210E-02	-6.61808010E-06	3					
-8.12915600E-09	5.94331350E-12	-1.41418440E+04	9.98351039E+00	-1.23792770E+04	4					
CHF3	L 6/81C	1.H	1.F	3.	0.G	298.150	5000.000	70.01415	1	Rodgers (1974)
7.38702490E+00	5.12669240E-03	-1.83717750E-06	2.90046430E-10	-1.66920890E-14	2					
-8.63674380E+04	-1.36102620E+01	1.78570940E+00	1.59611290E-02	-1.55750150E-06	3					
-1.13669110E-08	6.12752900E-12	-8.45911250E+04	1.64575900E+01	-8.33829360E+04	4					
CH2	L11/89C	1.H	2.	0.	0.G	200.000	6000.000	14.02688	1	Bunker (1983)
2.77723166E+00	3.83663476E-03	-1.34853220E-06	2.11641255E-10	-1.23445662E-14	2					Jacox (1988)
4.58590304E+04	6.87286429E+00	3.74484879E+00	1.17960823E-03	1.94502264E-06	3					TRC(4/89)w-1928
-2.52932506E-09	1.12447631E-12	4.55799523E+04	1.62850125E+00	4.67616252E+04	4					
CH2CLF	L12/77C	1.H	2.CL	1.F	1.G	298.150	5000.000	68.47798	1	Chen (1976)
5.95727830E+00	6.08797000E-03	-2.08137590E-06	3.13462150E-10	-1.70848780E-14	2					
-3.42807810E+04	-4.87988151E+00	2.09755330E+00	1.25518960E-02	2.71470360E-07	3					
-9.13198410E-09	4.47135730E-12	-3.29736170E+04	1.61681770E+01	-3.18036710E+04	4					
CH2CL2	L12/81C	1.H	2.CL	2.	0.G	298.150	5000.000	84.93228	1	Rodgers (1974)
6.49912830E+00	5.56723400E-03	-1.88874490E-06	2.82333930E-10	-1.52568690E-14	2					
-1.40488130E+04	-7.01185241E+00	2.36261270E+00	1.38855320E-02	-2.08721670E-06	3					
-8.66561580E-09	4.94943150E-12	-1.27612300E+04	1.50849150E+01	-1.14734760E+04	4					
CH2F2	L 6/81C	1.H	2.F	2.	0.G	298.150	5000.000	52.02369	1	Rodgers (1974)
5.29831120E+00	6.75680120E-03	-2.34015530E-06	3.57223810E-10	-1.97899860E-14	2					
-5.67992150E+04	-3.52851351E+00	1.92640780E+00	1.05290970E-02	3.46599150E-06	3					
-9.68559990E-09	3.81653220E-12	-5.55053950E+04	1.54769370E+01	-5.44486890E+04	4					
CH3	L11/89C	1.H	3.	0.	0.G	200.000	6000.000	15.03482	1	Jacox (1988)
2.96866033E+00	5.80717546E-03	-1.97778534E-06	3.07278752E-10	-1.78853897E-14	2					TRC(4/89)w-1928
1.65388869E+04	4.77944503E+00	3.67359040E+00	2.01095175E-03	5.73021856E-06	3					
-6.87117425E-09	2.54385734E-12	1.64449988E+04	1.60456433E+00	1.76679083E+04	4					
CH3CL	L12/81C	1.H	3.CL	1.	0.G	298.150	5000.000	50.48752	1	Rodgers (1974)
4.29529860E+00	7.28468220E-03	-2.41611910E-06	3.52058380E-10	-1.84061850E-14	2					
-1.17934650E+04	8.59301877E-01	2.06724450E+00	9.20915230E-03	3.04260540E-06	3					
-8.03420620E-09	3.21274430E-12	-1.08968830E+04	1.35839570E+01	-9.85813150E+03	4					
CH3F	L 6/81C	1.H	3.F	1.	0.G	298.150	5000.000	34.03322	1	Rodgers (1974)
3.62565230E+00	7.96836990E-03	-2.68453190E-06	3.98411080E-10	-2.13486390E-14	2					
-3.03724800E+04	3.6989799E+00	2.26510240E+00	6.07338550E-03	6.98254100E-06	3					
-8.13809110E-09	2.10363410E-12	-2.95776640E+04	1.18439540E+01	-2.85841050E+04	4					
CH2OH	L12/92C	1.H	3.0	1.	0.G	200.000	6000.000	31.03422	1	Burcat (1979)
4.67625639E+00	6.56406014E-03	-2.26525471E-06	3.55602481E-10	-2.08626190E-14	2					Jacox (1988)
-2.89248574E+03	4.87737005E-01	3.86388918E+00	5.59672304E-03	5.93271791E-06	3					Seetula (1992)
-1.04532012E-08	4.36967278E-12	-2.50501367E+03	5.47302243E+00	-1.07041786E+03	4					
CH3O	L10/92C	1.H	3.0	1.	0.G	200.000	6000.000	31.03422	1	Jacox (1988)
4.26676538E+00	7.85380110E-03	-2.83739943E-06	4.59039659E-10	-2.74426084E-14	2					Gurvich (1991)
-3.40073227E+02	3.85637447E-01	3.26524894E+00	3.30300117E-03	1.70493964E-05	3					
-2.27104476E-08	8.80756520E-12	3.33281488E+02	7.42568040E+00	1.56353171E+03	4					

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

CH4	L 8/88C 1.H 4. 0. 0.G	200.000 6000.000 16.04276	1	Gurvich (1991)
1.63552643E+00	1.00842795E-02-3.36916254E-06	5.34958667E-10-3.15518833E-14	2	
-1.00056455E+04	9.99313326E+00 5.14987613E+00-1.36709788E-02	4.91800599E-05	3	
-4.84743026E-08	1.66693956E-11-1.02466476E+04-4.64130376E+00-8.97226656E+03		4	
CH3OH	L 8/88C 1.H 4.0 1. 0.G	200.000 6000.000 32.04216	1	Chen, S. S. (1977) TRC(6/87)w-5030
3.60134486E+00	1.02430954E-02-3.59985517E-06	5.72505986E-10-3.39117640E-14	2	
-2.59971910E+04	4.70512253E+00 5.71539582E+00-1.52309129E-02	6.52441155E-05	3	
-7.10806889E-08	2.61352698E-11-2.56427656E+04-1.50409823E+00-2.41673893E+04		4	
CN	TPIS91C 1.N 1. 0. 0.G	200.000 6000.000 26.01774	1	Gurvich (1991)
3.74818333E+00	3.91753271E-05 2.99702996E-07-6.92704532E-11	4.46137691E-15	2	
5.17278419E+04	2.77469044E+00 3.61293502E+00-9.55513275E-04	2.14429765E-06	3	
-3.15163270E-10-4.64303546E-13	5.19007958E+04 3.98049947E+00 5.29536254E+04		4	
CN+	TPIS91C 1.N 1.E -1. 0.G	298.150 6000.000 26.01719	1	Gurvich (1991)
7.29006713E+00-2.46331139E-03	9.03359308E-07-1.35970586E-10	7.33709859E-15	2	
2.13579081E+05-1.91340387E+01	6.92808505E+00-2.81492178E-02	7.58511376E-05	3	
-7.24174336E-08	2.33891503E-11 2.15195507E+05-1.01730501E+01	2.16548044E+05	4	
CN-	L10/92C 1.N 1.E 1. 0.G	298.150 6000.000 26.01829	1	Gurvich (1991)
3.09051928E+00	1.33181759E-03-4.84902266E-07	7.96865228E-11-4.82770916E-15	2	
6.88195665E+03	5.63128351E+00 3.81962846E+00-2.48247316E-03	6.04567838E-06	3	
-4.52733194E-09	1.15679167E-12 6.80256336E+03 2.38904411E+00	7.87605980E+03	4	
CNN	L12/89C 1.N 2. 0. 0.G	200.000 6000.000 40.02448	1	Bondybey (1977) Jacox (1988) Gurvich (1991)
4.86658084E+00	2.38499612E-03-8.52577832E-07	1.38423853E-10-8.18423116E-15	2	
7.45586920E+04-6.77587146E-01	2.78240849E+00 1.25533110E-02-2.13082026E-05		3	
1.90941637E-08-6.59244187E-12	7.49551651E+04 9.10634736E+00 7.61890601E+04		4	
CO	TPIS79C 1.0 1. 0. 0.G	200.000 6000.000 28.01040	1	Gurvich (1979) TRC(4/84)tuv-1000
3.04848583E+00	1.35172818E-03-4.85794075E-07	7.88536486E-11-4.69807489E-15	2	
-1.42661171E+04	6.01709790E+00 3.57953347E+00-6.10353680E-04	1.01681433E-06	3	
9.07005884E-10-9.04424499E-13	-1.43440860E+04 3.50840928E+00-1.32936276E+04		4	
CO+	TPIS91C 1.0 1.E -1. 0.G	298.150 6000.000 28.00985	1	Gurvich (1991)
2.93059407E+00	1.56031391E-03-6.16238969E-07	1.09956019E-10-6.66111307E-15	2	
1.49144692E+05	7.33837920E+00 3.77057107E+00-2.01770020E-03	4.61076194E-06	3	
-2.99171866E-09	6.06057760E-13 1.49004267E+05 3.38125716E+00	1.50073892E+05	4	
COCL	J12/65C 1.0 1.CL 1. 0.G	300.000 5000.000 63.46310	1	Chase (1985)
5.42912360E+00	1.61215350E-03-6.60062800E-07	1.21271140E-10-8.28586010E-15	2	
-9.33050070E+03	3.82874056E-01 4.28637920E+00 5.08689800E-03	-5.07294110E-06	3	
2.96479830E-09-7.70934530E-13	-9.01252120E+03 6.25118670E+00-7.54776465E+03		4	
COCLF	J 6/61C 1.0 1.CL 1.F 1.G	300.000 5000.000 82.46150	1	Chase (1985)
7.88810810E+00	3.18164790E-03-1.37633160E-06	2.65440050E-10-1.89289690E-14	2	
-5.38837810E+04-8.68499361E+00	1.70666610E+00 2.27225650E-02-3.01156390E-05		3	
2.04835660E-08-5.65722280E-12	-5.26199020E+04 1.79876256E+01-5.13293738E+04		4	
COCL2	TPIS91C 1.0 1.CL 2. 0.G	200.000 6000.000 98.91580	1	Gurvich (1991)
7.86018378E+00	2.13271500E-03-8.22077158E-07	1.38951133E-10-8.58406653E-15	2	
-2.91056423E+04-1.19011907E+01	1.70787910E+00 2.89369464E-02-4.93289116E-05		3	
4.16910139E-08-1.37057391E-11	-2.78350932E+04 1.76202114E+01-2.63996315E+04		4	
COF	J12/65C 1.0 1.F 1. 0.G	300.000 5000.000 47.00880	1	Chase (1985)
4.89082140E+00	2.21797030E-03-9.25507250E-07	1.72701200E-10-1.19553430E-14	2	
-2.23579840E+04	9.92783959E-01 3.20197270E+00 5.58377700E-03	-1.49054810E-06	3	
-2.31260690E-09	1.36143530E-12-2.18170430E+04	1.00607391E+01-2.06312897E+04	4	
COF2	TPIS91C 1.0 1.F 2. 0.G	200.000 6000.000 66.00721	1	Gurvich (1991)
6.81631730E+00	3.16473282E-03-1.21776269E-06	2.05582261E-10-1.26893125E-14	2	
-7.95482716E+04-9.52864566E+00	2.12979489E+00 1.41019723E-02-5.94381359E-06		3	
-5.30544790E-09	3.97367469E-12-7.81745339E+04	1.51109093E+01-7.69738686E+04	4	
COS	J 3/61C 1.0 1.S 1. 0.G	300.000 5000.000 60.07640	1	Chase (1985)
5.23920000E+00	2.41005840E-03-9.60645220E-07	1.77783470E-10-1.22357040E-14	2	
-1.84804550E+04-3.07773889E+00	2.46253210E+00 1.19479920E-02-1.37943700E-05		3	
8.07077360E-09-1.83276530E-12	-1.78039870E+04 1.08058688E+01-1.66455205E+04		4	
CO2	L 7/88C 1.0 2. 0. 0.G	200.000 6000.000 44.00980	1	Gurvich (1991)
4.63659493E+00	2.74131991E-03-9.95828531E-07	1.60373011E-10-9.16103468E-15	2	
-4.90249341E+04-1.93534855E+00	2.35677352E+00 8.98459677E-03-7.12356269E-06		3	
2.45919022E-09-1.43699548E-13	-4.83719697E+04 9.90105222E+00-4.73281047E+04		4	
CO2+	L10/92C 1.0 2.E -1. 0.G	298.150 6000.000 44.00925	1	Gurvich (1991)
5.61292513E+00	1.89829994E-03-7.34596383E-07	1.23975665E-10-7.57692288E-15	2	
1.11621136E+05-5.65135703E+00	3.39305653E+00 5.82300415E-03 4.38012075E-08		3	
-4.68236271E-09	2.31552825E-12 1.12356151E+05 6.39038548E+00	1.13618832E+05	4	
COOH	TPIS91C 1.0 2.H 1. 0.G	200.000 6000.000 45.01774	1	Gurvich (1991)
5.39206247E+00	4.11221305E-03-1.48194817E-06	2.39875278E-10-1.43902965E-14	2	
-2.76708786E+04-2.23528631E+00	2.92207915E+00 7.62453820E-03 3.29884683E-06		3	
-1.07135249E-08	5.11587309E-12-2.68383588E+04	1.12925989E+01-2.56178656E+04	4	
CP	L 9/93C 1.P 1. 0. 0.G	200.000 6000.000 42.98476	1	Gurvich (1991)
4.16986061E+00-3.33893154E-04	6.30510095E-07-1.65248916E-10	1.25248542E-14	2	
6.12121016E+04	2.05762288E+00 3.70291400E+00-2.94026330E-03	1.25263783E-05	3	
-1.45948287E-08	5.61955320E-12 6.15029332E+04 5.34971467E+00	8.71534000E+03	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

CS	J12/76C	1.S	1.	0.	0.G	300.000	5000.000	44.07700	1	Chase (1985)
									2	
									3	
									4	
CS2	J12/76C	1.S	2.	0.	0.G	300.000	5000.000	76.14300	1	Chase (1985)
									2	
									3	
									4	
C2	TPIS91C	2.E	0.	0.	0.G	200.000	6000.000	24.02200	1	Gurvich (1991)
									2	
									3	
									4	
C2+	TPIS91C	2.E	-1.	0.	0.G	298.150	6000.000	24.02145	1	Gurvich (1991)
									2	
									3	
									4	
C2-	TPIS91C	2.E	1.	0.	0.G	298.150	6000.000	24.02255	1	Gurvich (1991)
									2	
									3	
									4	
C2CL2	J12/68C	2.CL	2.	0.	0.G	300.000	5000.000	94.92740	1	Chase (1985)
									2	
									3	
									4	
C2CL4	L10/87C	2.CL	4.	0.	0.G	298.150	5000.000	165.82800	1	Gurvich (1978)
									2	
									3	
									4	
C2CL6	L10/87C	2.CL	6.	0.	0.G	298.150	5000.000	236.73820	1	Chao (1974)
									2	
									3	
									4	
C2F2	J12/67C	2.F	2.	0.	0.G	300.000	5000.000	62.01881	1	Chase (1985)
									2	
									3	
									4	
C2F4	J 6/69C	2.F	4.	0.	0.G	300.000	5000.000	100.01561	1	Chase (1985)
									2	
									3	
									4	
C2H	L 1/91C	2.H	1.	0.	0.G	200.000	6000.000	25.02994	1	Peric (1991)
									2	Ervin (1990)
									3	Kanamori (1987)
									4	Kanamori (1988)
C2HCL	TPIS91C	2.H	1.CL	1.	0.G	298.150	5000.000	60.48264	1	Gurvich (1991)
									2	
									3	
									4	
C2HF	J12/67C	2.H	1.F	1.	0.G	300.000	5000.000	44.02834	1	Chase (1985)
									2	
									3	
									4	
CHCO, ketyl	L 6/89C	2.H	1.0	1.	0.G	200.000	6000.000	41.02934	1	Burcat (1982)
									2	Wagman (1982)
									3	
									4	
C2H2, acetylene	L 1/91C	2.H	2.	0.	0.G	200.000	6000.000	26.03788	1	Gurvich (1979)
									2	TRC(10/88)w-3040
									3	
									4	
C2H2, vinylidene	L12/89C	2.H	2.	0.	0.G	200.000	6000.000	26.03788	1	Chen, Y. (1989)
									2	Osamura (1981)
									3	
									4	
CH2CO, ketene	L 5/90C	2.H	2.0	1.	0.G	200.000	6000.000	42.03728	1	Moore, C.B. (1963)
									2	Wagman (1982)
									3	
									4	
C2H3, vinyl	L 2/92C	2.H	3.	0.	0.G	200.000	6000.000	27.04582	1	Ervin (1990)
									2	Taylor, P.R.: NASA
									3	Ames, private
									4	communication

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

CH3CN	L12/92C	2.H	3.N	1.	0.G	200.000	6000.000	41.05256	1	Spangenberg (1974)
5.08576974E+00	9.70797040E-03	-3.48484946E-06	5.62106760E-10	-3.36234670E-14					2	TRC(12/86)w-9270
5.45853074E+03	-3.26553903E+00	3.82484221E+00	4.10100359E-03	2.14545679E-05					3	
-2.87234543E-08	1.11804146E-11	6.28838522E+03	5.54024211E+00	7.74910368E+03					4	
CH3CO,acetyl	BUR 84C	2.H	3.0	1.	0.G	300.000	5000.000	43.04522	1	Burcat (1984)
5.61227890E+00	8.44988600E-03	-2.85414720E-06	4.23837630E-10	-2.26840370E-14					2	
-5.18786330E+03	-3.26178193E+00	3.12527850E+00	9.77822020E-03	4.52144830E-06					3	
-9.00946160E-09	3.19371790E-12	-4.10850780E+03	1.12420212E+01	-2.71844485E+03					4	
C2H4	L 1/91C	2.H	4.	0.	0.G	200.000	6000.000	28.05376	1	Chao (1975)
3.99182761E+00	1.04833910E-02	-3.71721385E-06	5.94628514E-10	-3.53630526E-14					2	Knippers (1985)
4.26865819E+03	-2.69052151E-01	3.95920148E+00	-7.57052247E-03	5.70990292E-05					3	TRC(4/87)w-2500
-6.91588753E-08	2.69884373E-11	5.08977593E+03	4.09733096E+00	6.31426266E+03					4	
C2H4O,ethanal	L 8/88C	2.H	4.0	1.	0.G	200.000	6000.000	44.05316	1	Chase (1985)
5.48888429E+00	1.20460231E-02	-4.33361545E-06	7.00269000E-10	-4.19481870E-14					2	Shimanouchi (1972)
-9.18047576E+03	-7.08063868E+00	3.75904931E+00	-9.44119292E-03	8.03096770E-05					3	
-1.00807756E-07	4.00398357E-11	-7.56081402E+03	7.84977030E+00	-6.33046566E+03					4	
CH3CHO,ethanal	L 8/88C	2.H	4.0	1.	0.G	200.000	6000.000	44.05316	1	Chao (1986)
5.40417899E+00	1.17229675E-02	-4.22626830E-06	6.83715733E-10	-4.09842676E-14					2	TRC(6/78)w-5300
-2.25931508E+04	-3.48117593E+00	4.72947627E+00	-3.19343161E-03	4.75353505E-05					3	
-5.74590474E-08	2.19312619E-11	-2.15728799E+04	4.10295455E+00	-1.99879488E+04					4	
CH3COOH	L12/92C	2.H	4.0	1.	0.G	200.000	6000.000	60.05256	1	Chao (1978)
7.67083678E+00	1.35152695E-02	-5.25874688E-06	8.93185062E-10	-5.53180891E-14					2	
-5.57560971E+04	-1.54676590E+01	2.78936844E+00	1.00001016E-02	3.42557978E-05					3	
-5.09017919E-08	2.06217504E-11	-5.34752292E+04	1.41059504E+01	-5.19873137E+04					4	
(HCOOH)2	BUR 92C	2.H	4.0	4.	0.G	200.000	5000.000	92.05136	1	Burcat (1992)
1.22073710E+01	1.36888510E-02	-4.68403690E-06	7.05116630E-10	-3.83692850E-14					2	
-1.03959380E+05	-3.57098080E+01	3.76923850E+00	2.72247160E-02	1.72380530E-06					3	
-2.07767240E-08	9.93799490E-12	-1.01049880E+05	1.05054940E+01	-9.87373140E+04					4	
C2H5	L12/92C	2.H	5.	0.	0.G	200.000	6000.000	29.06170	1	Chen, Y. (1990)
4.28800535E+00	1.24337374E-02	-4.41383829E-06	7.06526943E-10	-4.20341856E-14					2	
1.20564200E+04	8.45299623E-01	4.30646568E+00	-4.18658892E-03	4.97142807E-05					3	
-5.99126606E-08	2.30509004E-11	1.28416265E+04	4.70720924E+00	1.42712246E+04					4	
C2H6	L 8/88C	2.H	6.	0.	0.G	200.000	6000.000	30.06964	1	Pamidimukala (1982)
4.04666674E+00	1.53538766E-02	-5.47039321E-06	8.77826228E-10	-5.23167305E-14					2	
-1.24473512E+04	-9.68683607E-01	4.29142492E+00	-5.50154270E-03	5.99438288E-05					3	
-7.08466285E-08	2.68685771E-11	-1.15222055E+04	2.66682316E+00	-1.00849652E+04					4	
CH3N2CH3	L 8/88C	2.H	6.N	2.	0.G	200.000	6000.000	58.08312	1	Pamidimukala (1982)
7.44954851E+00	1.74406153E-02	-6.27382453E-06	1.01351178E-09	-6.06937494E-14					2	
1.41979978E+04	-1.41567638E+01	6.29613632E+00	-2.25815427E-03	6.21232803E-05					3	
-7.46292997E-08	2.80371947E-11	1.56928850E+04	-2.49925915E+00	1.78843203E+04					4	
CH3OCH3	L12/92C	2.H	6.0	1.	0.G	200.000	6000.000	46.06904	1	Chao (1986)
5.64844183E+00	1.63381899E-02	-5.86802367E-06	9.46836869E-10	-5.66504738E-14					2	TRC(6/91)w-6040
-2.51074690E+04	-5.96264939E+00	5.30562279E+00	-2.14254272E-03	5.30873244E-05					3	
-6.23147136E-08	2.30731036E-11	-2.39866295E+04	7.13264209E-01	-2.21432171E+04					4	
C2H5OH	L 8/88C	2.H	6.0	1.	0.G	200.000	6000.000	46.06904	1	Chao (1986)
6.56289770E+00	1.52034264E-02	-5.38922247E-06	8.62150224E-10	-5.12824683E-14					2	TRC(6/87)w-5030
-3.15257984E+04	-9.47557644E+00	4.85868178E+00	-3.74006740E-03	6.95550267E-05					3	
-8.86541147E-08	3.51684430E-11	-2.99961309E+04	4.80192294E+00	-2.82578288E+04					4	
CCN	L12/92C	2.N	1.	0.	0.G	200.000	6000.000	38.02874	1	Gurvich (1991)
5.53594940E+00	1.93336181E-03	-7.43007993E-07	1.25654167E-10	-7.70420035E-15					2	Jacox (1988)
9.49028065E+04	-3.70380637E+00	3.67600724E+00	7.88842348E-03	-9.55326639E-06					3	
7.31344088E-09	-2.48036202E-12	9.54195535E+04	5.81651950E+00	9.67950500E+04					4	
CNC	TPIS91C	2.N	1.	0.	0.G	200.000	6000.000	38.02874	1	Gurvich (1991)
5.93259696E+00	1.57914754E-03	-6.12333532E-07	1.03869610E-10	-6.43161897E-15					2	
8.03326833E+04	-6.60207157E+00	3.98958871E+00	5.21977832E-03	-5.81083706E-07					3	
-3.39416520E-09	1.76273084E-12	8.09656357E+04	3.88721926E+00	8.23761254E+04					4	
C2N2	TPIS79C	2.N	2.	0.	0.G	200.000	6000.000	52.03548	1	Gurvich (1979)
6.70544769E+00	3.64260339E-03	-1.30934250E-06	2.16411061E-10	-1.31187410E-14					2	
3.48608005E+04	-1.04803695E+01	2.32925325E+00	2.61537847E-02	-4.90003994E-05					3	
4.61917478E-08	-1.64323855E-11	3.56684424E+04	9.86336227E+00	3.71759731E+04					4	
C2O	L12/89C	2.0	1.	0.	0.G	200.000	6000.000	40.02140	1	Jacox (1988)
5.51576444E+00	1.87745704E-03	-7.01159757E-07	1.21505291E-10	-7.76778855E-15					2	Gurvich (1979)
3.30970458E+04	-4.27636138E+00	2.86345422E+00	1.19732969E-02	-1.81232501E-05					3	
1.53813634E-08	-5.28906524E-12	3.37500945E+04	8.89405881E+00	3.50037906E+04					4	
C3	TPIS79C	3.	0.	0.	0.G	200.000	6000.000	36.03300	1	Gurvich (1979)
4.80357768E+00	2.14511233E-03	-1.07292074E-06	2.60735259E-10	-2.01631960E-14					2	
9.93965416E+04	3.89369308E-01	5.43283963E+00	-4.46754383E-03	1.49321482E-05					3	
-1.47953138E-08	5.01421112E-12	9.94957222E+04	1.58720715E+00	1.01022009E+05					4	
C3H3,propargyl	BUR 92C	3.H	3.	0.	0.G	200.000	6000.000	39.05682	1	Burcat (1992)
6.64175821E+00	8.08587428E-03	-2.84787887E-06	4.53525977E-10	-2.68879815E-14					2	
3.89793699E+04	-1.04004255E+01	1.82840766E+00	2.37839036E-02	-2.19228176E-05					3	
1.00067444E-08	-1.38984644E-12	4.01863058E+04	1.38447957E+01	4.16139977E+04					4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

C3H4, allene	L12/92C	3.H	4.	0.	0.G	200.000	6000.000	40.06476	1	Butcher (1973b)
6.31694869E+00	1.11336262E-02	-3.96289018E-06	6.35633775E-10	-3.78749885E-14	2	Shimanouchi (1972)				
2.01174617E+04	-1.09718862E+01	2.61307487E+00	1.21223371E-02	1.85405400E-05	3	TRC(4/84)w-2750				
-3.45258475E-08	1.53353389E-11	2.15415642E+04	1.02503319E+01	2.29622672E+04	4					
C3H4, propyne	L12/92C	3.H	4.	0.	0.G	200.000	6000.000	40.06476	1	Shimanouchi (1972)
6.02531092E+00	1.13364427E-02	-4.02229048E-06	6.43751365E-10	-3.82990082E-14	2	Trambarulo (1950)				
1.95101792E+04	-8.58912592E+00	2.68040760E+00	1.57994429E-02	2.50775737E-06	3	TRC(10/85)w-3000				
-1.36584584E-08	6.61576607E-12	2.06916392E+04	9.89251047E+00	2.21913258E+04	4					
C3H4, cyclo-	L 5/90C	3.H	4.	0.	0.G	200.000	6000.000	40.06476	1	Dorofeeva (1986)
6.28078730E+00	1.12393819E-02	-4.01957526E-06	6.46920648E-10	-3.86433248E-14	2					
3.03415086E+04	-1.11419945E+01	2.24666553E+00	5.76238084E-03	4.42080305E-05	3					
-6.62906786E-08	2.81824730E-11	3.21284389E+04	1.33451837E+01	3.33272797E+04	4					
C3H5, allyl	BUR 92C	3.H	5.	0.	0.G	200.000	6000.000	41.07270	1	Burcat (1992)
5.54761132E+00	1.33152246E-02	-4.78333100E-06	7.71949814E-10	-4.61930808E-14	2	Tsang (1991)				
1.72714707E+04	-9.27486841E+00	3.78794693E+00	9.48414335E-03	2.42343368E-05	3					
-3.65604010E-08	1.48592356E-11	1.86261218E+04	7.82822499E+00	2.03259122E+04	4					
C3H6, propylene	L 7/90C	3.H	6.	0.	0.G	200.000	6000.000	42.08064	1	Chao (1975)
6.03870499E+00	1.62963895E-02	-5.82130624E-06	9.35936483E-10	-5.58602903E-14	2	TRC(4/87)w-2500				
-7.76595092E+02	-8.43824322E+00	3.83464524E+00	3.29078405E-03	5.05228184E-05	3					
-6.66251418E-08	2.63707585E-11	7.53838295E+02	7.53410995E+00	2.37055461E+03	4					
C3H6, cyclo-	L 1/93C	3.H	6.	0.	0.G	200.000	6000.000	42.08064	1	Butcher (1973a)
6.21663293E+00	1.6539614E-02	-5.90075961E-06	9.48095473E-10	-5.65661737E-14	2	Dorofeeva (1986)				
2.95937555E+03	-1.36040607E+01	2.83278555E+00	-5.21072462E-03	9.29582837E-05	3					
-1.22753146E-07	4.99191154E-11	5.19520057E+03	1.08306700E+01	6.41047999E+03	4					
C3H60	L 6/90C	3.H	6.0	1.	0.G	200.000	6000.000	58.08004	1	Oetting (1964)
7.94555710E+00	1.74061678E-02	-6.25436463E-06	1.00975457E-09	-6.04488953E-14	2	Swalen (1957)				
-1.52867683E+04	-1.84184133E+01	3.56851051E+00	5.02717292E-03	6.42315607E-05	3	TRC(6/84)w-6150				
-8.90229548E-08	3.62423766E-11	-1.29679205E+04	9.88838229E+00	-1.12718609E+04	4	Villarreal (1975)				
C3H7, n-propyl	L 6/90C	3.H	7.	0.	0.G	200.000	6000.000	43.08858	1	
6.96468462E+00	1.75451946E-02	-6.23370055E-06	9.98529735E-10	-5.94394793E-14	2	Tsang (1985)				
8.54244358E+03	-1.14831478E+01	4.03239996E+00	3.42728312E-03	6.14344420E-05	3					
-8.37646338E-08	3.40857776E-11	1.03393839E+04	8.77428079E+00	1.20873028E+04	4					
C3H7, i-propyl	L 9/85C	3.H	7.	0.	0.G	200.000	6000.000	43.08858	1	
5.75125882E+00	1.87605762E-02	-6.70191976E-06	1.07751871E-09	-6.43090885E-14	2	Tsang (1985)				
7.97977293E+03	-4.91359355E+00	5.40872872E+00	-8.55221825E-03	8.42178491E-05	3					
-1.00942683E-07	3.86914479E-11	9.42600956E+03	3.62322504E+00	1.12213468E+04	4					
C3H8	L 6/90C	3.H	8.	0.	0.G	200.000	6000.000	44.09652	1	Chao (1973)
6.66789363E+00	2.06120214E-02	-7.36553027E-06	1.18440761E-09	-7.06953210E-14	2	TRC(10/85)w-1350				
-1.62748521E+04	-1.31859503E+01	4.21102620E+00	1.71599803E-03	7.06183472E-05	3					
-9.19594116E-08	3.64421372E-11	-1.43812106E+04	5.60930491E+00	-1.25900384E+04	4					
C3H80, 1propanol	L 9/88C	3.H	8.0	1.	0.G	200.000	6000.000	60.09592	1	Chao (1986)
8.71010929E+00	2.08051473E-02	-7.38480898E-06	1.18188977E-09	-7.03597783E-14	2	TRC(6/87)tuvw-5000				
-3.51244024E+04	-1.88965453E+01	5.27799420E+00	8.08660546E-04	8.21548179E-05	3					
-1.08488185E-07	4.34886897E-11	-3.28348774E+04	5.70526835E+00	-3.06933301E+04	4					
C3H80, 2propanol	L 9/88C	3.H	8.0	1.	0.G	200.000	6000.000	60.09592	1	Chao (1986)
9.64271113E+00	2.00224413E-02	-7.11948364E-06	1.14136355E-09	-6.79921667E-14	2	TRC(6/87)w-5030				
-3.74840095E+04	-2.56346074E+01	4.30803027E+00	1.02498010E-02	6.19857805E-05	3					
-9.03311088E-08	3.74066537E-11	-3.49248843E+04	7.56826254E+00	-3.27980843E+04	4					
C302	L 7/88C	3.0	2.	0.	0.G	200.000	6000.000	68.03180	1	Chase (1985)
8.46175920E+00	4.81552825E-03	-1.80930759E-06	3.00787080E-10	-1.83722162E-14	2	Shimanouchi (1977)				
-1.43271654E+04	-1.70605688E+01	2.19668211E+00	3.14553138E-02	-5.07458623E-05	3					
4.35794398E-08	-1.47351787E-11	-1.29460980E+04	1.32985264E+01	-1.12622391E+04	4	TRC(4/84)w-1000				
C4	L 7/88C	4.	0.	0.	0.G	200.000	6000.000	48.04400	1	Gurvich (1979)
5.63091494E+00	4.83116397E-03	-1.50405642E-06	2.02872357E-10	-1.00345687E-14	2					
1.22500879E+05	-2.98954731E+00	3.32273482E+00	2.02596453E-02	-3.73466071E-05	3					
3.56878255E-08	-1.27727382E-11	1.22723638E+05	6.80994829E+00	1.24349329E+05	4					
C4H2	L 2/93C	4.H	2.	0.	0.G	200.000	6000.000	50.05988	1	Dorofeeva (1991)
8.66704895E+00	6.71505191E-03	-2.35355060E-06	3.73635366E-10	-2.21054043E-14	2					
5.10016978E+04	-2.18002050E+01	-4.07132393E-01	5.20775143E-02	-9.21138340E-05	3					
8.08657403E-08	-2.70422080E-11	5.25957367E+04	2.03240223E+01	5.41222513E+04	4					
C4H4, 1,3-cyclo-	L 5/90C	4.H	4.	0.	0.G	200.000	6000.000	52.07576	1	Dorofeeva (1986)
8.04207751E+00	1.25202174E-02	-4.52337047E-06	7.33120443E-10	-4.40110864E-14	2					
4.25108494E+04	-2.11284483E+01	1.27895318E+00	1.34203350E-02	4.11992063E-05	3					
-6.98956727E-08	3.07252120E-11	4.50864097E+04	1.76787788E+01	4.63045928E+04	4					
C4H6, butadiene	X10/89C	4.H	6.	0.	0.G	200.000	6000.000	54.09164	1	TRC(10/92)tuvw-2820
1.60010139E+01	3.91825115E-03	1.14355733E-06	-2.07925748E-10	7.57713551E-15	2					
6.51708221E+03	-6.28204145E+01	1.68530424E+00	1.96120012E-02	4.46523571E-05	3					
-8.31523114E-08	3.80651226E-11	1.16075709E+04	1.67545967E+01	1.32298837E+04	4					
C4H6, 2-butene	X10/89C	4.H	6.	0.	0.G	200.000	6000.000	54.09164	1	TRC(10/88)w-3040
6.93232090E+00	1.86425873E-02	-6.82359104E-06	1.11910485E-09	-6.76783113E-14	2					
1.40309558E+04	-1.22084283E+01	5.42481699E+00	2.65380004E-03	5.30443281E-05	3					
-6.71392095E-08	2.58190081E-11	1.54641216E+04	5.40967409E-01	1.75476366E+04	4					

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

C4H6, cyclo-	L 5/90C 4.H 6. 0. 0.G	200.000 6000.000	54.09164	1	Dorofeeva (1986)
7.84858253E+00	1.80812892E-02-6.53186644E-06	1.05842123E-09-6.35253939E-14		2	
1.46153461E+04	-2.08980257E+01 2.91633433E+00-3.20584810E-03 1.00263571E-04		3		
-1.34248167E-07	5.46670100E-11 1.74732236E+04	1.24817183E+01 1.88465706E+04	4		
C4H8, 1-butene	X 4/88C 4.H 8. 0. 0.G	200.000 6000.000	56.10752	1	TRC(4/88) tuvw-2600
8.02147991E+00	2.26010707E-02-8.31284033E-06	1.37803072E-09-8.42175459E-14	2		
-4.30852153E+03	-1.71170697E+01 4.42674073E+00	6.63946249E-03 6.80652815E-05	3		
-9.28753562E-08	3.73473949E-11-2.11532796E+03	7.54694860E+00-6.49467016E+01	4		
C4H8, cis2-buten	X 4/88C 4.H 8. 0. 0.G	200.000 6000.000	56.10752	1	TRC(4/88) tuvw-2600
7.08335025E+00	2.34982430E-02-8.64483079E-06	1.43160107E-09-8.73762642E-14	2		
-4.92320266E+03	-1.28709317E+01 5.44417817E+00-5.20451694E-03 9.62906577E-05		3		
-1.20068814E-07	4.68194825E-11-2.91741472E+03	3.46050733E+00-8.90010355E+02	4		
C4H8, tr2-butene	X 4/88C 4.H 8. 0. 0.G	200.000 6000.000	56.10752	1	TRC(4/88) tuvw-2600
7.62514670E+00	2.30451042E-02-8.49424864E-06	1.41152554E-09-8.64751757E-14	2		
-5.40102815E+03	-1.61987080E+01 5.57278967E+00	3.76541017E-03 6.52226708E-05	3		
-8.30909522E-08	3.20311342E-11-3.57903301E+03	5.37796708E-01-1.32298837E+03	4		
C4H8, isobutene	X 4/88C 4.H 8. 0. 0.G	200.000 6000.000	56.10752	1	TRC(4/88) tuvw-2600
7.58355330E+00	2.27459679E-02-8.36517549E-06	1.39076250E-09-8.53329969E-14	2		
-6.16356322E+03	-1.76540719E+01 3.68049727E+00	1.69414445E-02 3.51963555E-05	3		
-5.43166856E-08	2.20201636E-11-4.12099308E+03	8.11457149E+00-2.05664555E+03	4		
C4H8, cyclo-	L 5/90C 4.H 8. 0. 0.G	200.000 6000.000	56.10752	1	Dorofeeva (1986)
7.76331054E+00	2.30653350E-02-8.25983758E-06	1.33412389E-09-7.99363302E-14	2		
-1.17672008E+03	-2.19148211E+01 3.81144720E+00-9.68049998E-03 1.27917694E-04		3		
-1.63057125E-07	6.48314790E-11 1.87107930E+03	8.60998196E+00 3.41571542E+03	4		
(CH3COOH)2	L 6/90C 4.H 8.0 4. 0.G	200.000 6000.000	120.10512	1	Chao (1978)
1.58245208E+01	2.61835117E-02-9.46098358E-06	1.53337616E-09-9.20476545E-14	2		
-1.19039141E+05	-5.11097617E+01 7.75481743E+00	1.38918897E-02 8.32955609E-05	3		
-1.20021855E-07	4.90679645E-11-1.15185669E+05	-1.22446814E+00-1.11734228E+05	4		
C4H9, n-butyl	X10/84C 4.H 9. 0. 0.G	200.000 6000.000	57.11546	1	TRC(10/84) tuvw-1940
9.18975615E+00	2.36322267E-02-8.64270985E-06	1.42770515E-09-8.70203716E-14	2		
3.37702909E+03	-2.15600560E+01 5.82430540E+00	5.50309080E-03 7.49300330E-05	3		
-1.02086943E-07	4.13484714E-11 5.54078049E+03	2.17609509E+00 8.00167418E+03	4		
C4H9, i-butyl	X10/84C 4.H 9. 0. 0.G	200.000 6000.000	57.11546	1	TRC(10/84) tuvw-1940
9.43040607E+00	2.34271349E-02-8.53599182E-06	1.39748355E-09-8.44057456E-14	2		
2.14214862E+03	-2.42207994E+01 3.54885235E+00	1.78747638E-02 5.00782825E-05	3		
-7.94475071E-08	3.35802354E-11 4.74011588E+03	1.11849382E+01 6.89397210E+03	4		
C4H9, s-butyl	L 1/93C 4.H 9. 0. 0.G	200.000 6000.000	57.11546	1	Tsang (1985)
8.42611939E+00	2.39379265E-02-8.56035783E-06	1.37735160E-09-8.22496005E-14	2		
3.96484253E+03	-1.69876875E+01 5.03930607E+00	4.09387100E-04 9.15574112E-05	3		
-1.19411713E-07	4.75043987E-11 6.42327236E+03	8.24360444E+00 8.53928854E+03	4		
C4H9, t-butyl	L 1/93C 4.H 9. 0. 0.G	200.000 6000.000	57.11546	1	Tsang (1985)
6.63074656E+00	2.59353745E-02-9.37163111E-06	1.51845890E-09-9.11190863E-14	2		
2.00861323E+03	-9.20581440E+00 6.87327133E+00-1.85146306E-02 1.30560116E-04		3		
-1.50832755E-07	5.65358282E-11 4.10968938E+03	2.30016604E-01 6.21804532E+03	4		
C4H10, isobutane	L 6/90C 4.H 10. 0. 0.G	200.000 6000.000	58.12340	1	Chen, S. S. (1975)
9.76991245E+00	2.54997210E-02-9.14142932E-06	1.47328271E-09-8.80800188E-14	2		TRC(10/85)w-1350
-2.14052647E+04	-3.00329101E+01 4.45479276E+00	8.26057985E-03 8.29886664E-05	3		
-1.14647642E-07	4.64570101E-11-1.84593931E+04	4.92743175E+00-1.62354727E+04	4		
C4H10, n-butane	L 6/90C 4.H 10. 0. 0.G	200.000 6000.000	58.12340	1	Chen, S. S. (1975)
9.44535834E+00	2.57858073E-02-9.23619122E-06	1.48632755E-09-8.87897158E-14	2		TRC(10/85)w-1350
-2.01382165E+04	-2.63470076E+01 6.14746806E+00	1.55947389E-04 9.67913517E-05	3		
-1.25483910E-07	4.97816555E-11-1.75994402E+04	-1.09409879E+00-1.51289733E+04	4		
C4N2	J 3/61C 4.N 2. 0. 0.G	200.000 6000.000	76.05748	1	Chase (1985)
1.04854800E+01	5.69544889E-03-2.12745547E-06	3.52323196E-10-2.14631729E-14	2		
6.04620630E+04	-2.72266502E+01 2.28116845E+00	4.61273513E-02-8.53293243E-05	3		
7.93407779E-08	-2.80356399E-11 6.20401013E+04	1.12898174E+01 6.41601249E+04	4		
C5	L 7/88C 5. 0. 0.G	200.000 6000.000	60.05500	1	Gurvich (1979)
9.57456888E+00	3.86016798E-03-1.47558014E-06	2.48048833E-10-1.52660253E-14	2		
1.23053517E+05	-2.37137980E+01 3.35873023E+00	3.24350875E-02-5.93058470E-05	3		
5.60114864E-08	-2.03075176E-11 1.24376242E+05	6.04915848E+00 1.26396424E+05	4		
C5H6, 1,3cyclo-	L 5/90C 5.H 6. 0. 0.G	200.000 6000.000	66.10264	1	Dorofeeva (1986)
9.97582745E+00	1.89055233E-02-6.84110300E-06	1.10992117E-09-6.66791427E-14	2		Pedley (1986)
1.10816727E+04	-3.22096892E+01 8.61044032E-01	1.48045870E-02 7.21072084E-05	3		
-1.13378398E-07	4.86890482E-11 1.48017548E+04	2.13536259E+01 1.61524852E+04	4		
C5H8, cyclo-	L 1/93C 5.H 8. 0. 0.G	200.000 6000.000	68.11852	1	Dorofeeva (1986)
9.64282423E+00	2.42562834E-02-8.72089503E-06	1.41190868E-09-8.47267848E-14	2		TRC(10/84)w-2840
-1.29255032E+03	-3.01225606E+01 2.68980514E+00	2.09635533E-03 1.13034459E-04	3		
-1.54077581E-07	6.27623564E-11 2.45827067E+03	1.53075040E+01 4.07720960E+03	4		
C5H10, 1-pentene	X 4/87C 5.H 10. 0. 0.G	200.000 6000.000	70.13440	1	TRC(4/87)w-2500
1.17397055E+01	2.57467071E-02-9.25988701E-06	1.51497885E-09-9.17883939E-14	2		
-8.46274839E+03	-3.54375619E+01 5.88356456E+00	5.10401267E-03 9.78282156E-05	3		
-1.32389227E-07	5.32231507E-11-5.16823068E+03	3.41987031E+00-2.55938113E+03	4		

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

C5H10, cyclo-	L 6/90C 5.H 10.	0.	0.G	200.000	6000.000	70.13440	1	Dorofeeva (1986)
9.13295790E+00	3.01130430E-02	-1.09169137E-05	1.77298767E-09	-1.06575248E-13			2	
-1.51597372E+04	-2.92618028E+01	3.70327955E+00	-1.15565354E-02	1.64111439E-04			3	
-2.09368134E-07	8.31054507E-11	-1.10951786E+04	1.19777761E+01	-9.42929890E+03			4	
C5H11, pentyl	X10/84C 5.H 11.	0.	0.G	200.000	6000.000	71.14234	1	TRC(10/84) tuv-1941
1.12985135E+01	2.97314215E-02	-1.09772714E-05	1.82708895E-09	-1.11996026E-13			2	
-2.39764167E+02	-3.10395910E+01	7.17401432E+00	3.80921588E-03	1.04379065E-04			3	
-1.39634050E-07	5.60395117E-11	2.52870902E+03	-1.18868630E+00	5.50964519E+03			4	
C5H11, t-pentyl	L 1/93C 5.H 11.	0.	0.G	200.000	6000.000	71.14234	1	Tsang (1985)
9.23121001E+00	3.11688383E-02	-1.12478586E-05	1.82090658E-09	-1.09205395E-13			2	
-1.60069498E+04	-2.06141974E+01	6.44622533E+00	-9.54177763E-03	1.37891362E-04			3	
-1.69241631E-07	6.53097127E-11	1.50837506E+03	5.43091742E+00	3.92085643E+03			4	
C5H12, n-pentane	X10/85C 5.H 12.	0.	0.G	298.150	5000.000	72.15028	1	TRC(10/85) tuv-1350
1.35469980E+01	2.84217860E-02	-9.41746480E-06	1.38935890E-09	-7.42126090E-14			2	
-2.45776800E+04	-4.70211850E+01	1.89837500E+00	4.12030370E-02	1.23121750E-05			3	
-3.65895010E-08	1.50425090E-11	-2.00915000E+04	1.86790720E+01	-1.76512800E+04			4	
C5H12, i-pentane	X10/85C 5.H 12.	0.	0.G	298.150	5000.000	72.15028	1	TRC(10/85) tuv-1350
1.23277870E+01	3.06130870E-02	-9.84157850E-06	1.39197760E-09	-7.03373450E-14			2	
-2.50374800E+04	-4.11335040E+01	1.08328820E+00	4.45710760E-02	8.23899340E-06			3	
-3.52580470E-08	1.57857620E-11	-2.08075350E+04	2.17951450E+01	-1.84859760E+04			4	
CH3C(CH3)2CH3	X10/85C 5.H 12.	0.	0.G	298.150	5000.000	72.15028	1	TRC(10/85) tuv-1350
1.01104160E+01	3.53495660E-02	-1.10399670E-05	1.47777210E-09	-6.84670420E-14			2	
-2.58067110E+04	-3.37569940E+01	7.26389940E-01	4.81254760E-02	1.59174580E-06			3	
-2.66924580E-08	1.20782820E-11	-2.24079800E+04	1.83272040E+01	-2.01962590E+04			4	
C6H2	L 2/93C 6.H 2.	0.	0.G	200.000	6000.000	74.08188	1	Bjarnov (1974)
1.25238060E+01	8.78596282E-03	-3.13663173E-06	5.04345908E-10	-3.01109700E-14			2	Dorofeeva (1991)
7.60771037E+04	-3.88501245E+01	-5.94405026E-01	7.46613329E-02	-1.35847980E-04			3	
1.22198100E-07	-4.17696751E-11	7.84192204E+04	2.21178780E+01	8.05820187E+04			4	
C6H5, phenyl	L 1/91C 6.H 5.	0.	0.G	200.000	6000.000	77.10570	1	Burcat (1985)
1.07702200E+01	1.83848597E-02	-6.69985951E-06	1.09225620E-09	-6.58414439E-14			2	TRC(10/89) w-4270
3.52040328E+04	-3.50146837E+01	7.09725032E-01	1.93299484E-02	5.94079007E-05			3	
-9.85084147E-08	4.25424755E-11	3.91345677E+04	2.30299294E+01	4.05556070E+04			4	
C6D5	L12/84C 6.D 5.	0.	0.G	300.000	5000.000	82.13651	1	Burcat (1985)
1.47294920E+01	1.52105350E-02	-5.52416350E-06	8.79845750E-10	-5.09792170E-14			2	
3.02826290E+04	-5.57549640E+01	-1.25497820E+00	4.73287660E-02	-8.07598830E-06			3	
-2.99019720E-08	1.71490600E-11	3.53140630E+04	2.97801460E+01	3.69171280E+04			4	
C6H5O, phenoxy	L 6/90C 6.H 5.0	1.	0.G	200.000	6000.000	93.10510	1	Burcat (1985)
1.31515134E+01	1.90165507E-02	-6.94695592E-06	1.13442172E-09	-6.84634203E-14			2	
-4.72968266E+02	-4.67107225E+01	7.76296446E-02	3.30574915E-02	3.60356256E-05			3	
-7.93165426E-08	3.64328623E-11	4.06539383E+03	2.57598920E+01	5.73666999E+03			4	
C6H6	L 1/91C 6.H 6.	0.	0.G	200.000	6000.000	78.11364	1	Burcat (1985)
1.10771708E+01	2.07067895E-02	-7.51625100E-06	1.22209416E-09	-7.35312513E-14			2	TRC(10/86) w-3200
4.30988395E+03	-4.00116950E+01	5.03469664E-01	1.85142363E-02	7.37864409E-05			3	
-1.18106127E-07	5.07182527E-11	8.55266293E+03	2.16481796E+01	9.96811598E+03			4	
C6D6	L12/84C 6.D 6.	0.	0.G	300.000	5000.000	84.15061	1	Burcat (1985)
1.56198640E+01	1.71239340E-02	-6.20127590E-06	9.84930580E-10	-5.68915570E-14			2	
-1.44330520E+02	-6.38881890E+01	-2.07012180E+00	5.29381970E-02	-9.60748280E-06			3	
-3.28023720E-08	1.90125280E-11	5.40689840E+03	3.06938730E+01	6.99716330E+03			4	
C6H5OH, phenol	L 6/90C 6.H 6.0	1.	0.G	200.000	6000.000	94.11304	1	Burcat (1985)
1.41553674E+01	1.99349498E-02	-7.18217132E-06	1.16228680E-09	-6.97145840E-14			2	
-1.81287342E+04	-5.17991412E+01	-2.91049229E-01	4.08567842E-02	2.42823545E-05			3	
-7.14476757E-08	3.46003044E-11	-1.34129231E+04	2.68748886E+01	-1.15940687E+04			4	
C6H10, cyclo-	L 1/93C 6.H 10.	0.	0.G	200.000	6000.000	82.14540	1	Dorofeeva (1986)
1.17733889E+01	3.09482743E-02	-1.12347262E-05	1.82632045E-09	-1.09855683E-13			2	
-7.20263233E+03	-4.26557933E+01	2.36627804E+00	1.06814158E-02	1.18222243E-04			3	
-1.65679913E-07	6.76133786E-11	-2.48250358E+03	1.67692033E+01	-5.53249680E+02			4	
C6H12, 1-hexene	X 4/87C 6.H 12.	0.	0.G	200.000	6000.000	84.16128	1	TRC(4/87) tuv-2500
1.51268820E+01	2.94975192E-02	-1.05411189E-05	1.72131394E-09	-1.04218853E-13			2	
-1.24861590E+04	-5.19351758E+01	7.31539830E+00	3.70903758E-03	1.27255723E-04			3	
-1.71562233E-07	6.89824521E-11	-8.20916239E+03	-5.95782436E-01	-5.04539654E+03			4	
C6H12, cyclo-	L 6/90C 6.H 12.	0.	0.G	200.000	6000.000	84.16128	1	Dorofeeva (1986)
1.32147562E+01	3.58242410E-02	-1.32110595E-05	2.1722254E-09	-1.31730540E-13			2	
-2.28091954E+04	-5.53526464E+01	4.04348764E+00	-6.19527424E-03	1.76621086E-04			3	
-2.22967809E-07	6.63667390E-11	-1.69202872E+04	8.52566766E+00	-1.48294969E+04			4	
C6H13, n-hexyl	X10/83C 6.H 13.	0.	0.G	200.000	6000.000	85.16922	1	TRC(10/83) tuv-1930
1.40301977E+01	3.47114029E-02	-1.26836103E-05	2.09365902E-09	-1.27627985E-13			2	
-4.06907890E+03	-4.39643824E+01	8.76344954E+00	2.16243850E-03	1.31674084E-04			3	
-1.73827452E-07	6.92515009E-11	-5.42628115E+02	-5.91726978E+00	2.89830000E+04			4	
C7H7, benzyl	L 1/93C 7.H 7.	0.	0.G	200.000	6000.000	91.13258	1	Brouwer (1988)
1.40435627E+01	2.34946209E-02	-8.53786999E-06	1.38914523E-09	-8.36183659E-14			2	Hippler (1990)
1.85643697E+04	-5.16632394E+01	4.81145711E-01	3.85126943E-02	3.28618341E-05			3	
-7.69728603E-08	3.54230267E-11	2.33070210E+04	2.35487000E+01	2.53171865E+04			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

C7H8	L 1/93C 7.H 8.	0.	0.G	200.000	6000.000	92.14052	1	Hitchcock (1975)
	1.29394750E+01	2.66921558E-02	-9.68420108E-06	1.57392140E-09	-9.46670482E-14		2	Rudolph (1967)
	-6.77035769E+02	-4.67255302E+01	1.61191400E+00	2.11188902E-02	8.53221453E-05		3	TRC(10/85)w-3000
	-1.32566876E-07	5.59406109E-11	4.09651976E+03	2.02973614E+01	6.03402967E+03		4	
C7H80,cresol mx	L 1/93C 7.H 8.0	1.	0.G	200.000	6000.000	108.13992	1	Kudchadker (1978)
	1.65179499E+01	2.54721604E-02	-9.18781249E-06	1.48772675E-09	-8.92617180E-14		2	
	-2.36116775E+04	-6.19386224E+01	7.98026029E-01	4.67284934E-02	2.73617362E-05		3	
	-2.75823278E-08	3.68948350E-11	-1.83324087E+04	2.42303179E+01	-1.59117014E+04		4	
C7H14,1-heptene	X 4/87C 7.H 14.	0.	0.G	200.000	6000.000	98.18816	1	TRC(4/87)tuvw-2500
	1.84972484E+01	3.32575990E-02	-1.18150330E-05	1.92513278E-09	-1.16441886E-13		2	
	-1.65142044E+04	-6.83095138E+01	8.70575623E+00	2.79788048E-03	1.55212260E-04		3	
	-2.49720114E-07	8.40527224E-11	-1.12661735E+04	-4.45341873E+00	-7.34824099E+03		4	
C7H15,n-heptyl	X10/83C 7.H 15.	0.	0.G	200.000	6000.000	99.19610	1	TRC(10/83)tuvw-1930
	1.64117107E+01	4.03602901E-02	-1.47823188E-05	2.44414560E-09	-1.49160374E-13		2	
	-7.76310920E+03	-5.49531828E+01	1.02804136E+01	7.01553566E-04	1.59551347E-04		3	
	-2.49720114E-07	8.40527224E-11	-1.12661735E+04	-4.45341873E+00	-7.34824099E+03		4	
C7H16,n-heptane	X10/85C 7.H 16.	0.	0.G	200.000	6000.000	100.20404	1	TRC(10/85)tuvw-1460
	1.85354704E+01	3.91420468E-02	-1.38030268E-05	2.22403874E-09	-1.33452580E-13		2	
	-3.19500783E+04	-7.01902840E+01	1.11532484E+01	-9.49415433E-03	1.95571181E-04		3	
	-2.49720114E-07	8.40527224E-11	-1.12661735E+04	-4.45341873E+00	-7.34824099E+03		4	
C8H8,styrene	X 4/89C 8.H 8.	0.	0.G	200.000	6000.000	104.15152	1	TRC(4/89)tuvw-4490
	1.58813334E+01	2.68374055E-02	-9.90244561E-06	1.63759141E-09	-9.98448972E-14		2	
	1.00844780E+04	-6.09419319E+01	1.18175769E+00	3.34876025E-02	6.92366253E-05		3	
	-1.24490419E-07	5.49384735E-11	1.56037692E+04	2.26624980E+01	1.78362886E+04		4	
C8H10,ethylbenz	X10/86C 8.H 10.	0.	0.G	200.000	6000.000	106.16740	1	TRC(10/86)tuvw-3200
	1.55760759E+01	3.23064579E-02	-1.19002723E-05	1.96792542E-09	-1.19911164E-13		2	
	-4.41157516E+03	-5.91043877E+01	3.51534963E+00	1.78145681E-02	1.18934012E-04		3	
	-1.17563976E-07	7.32061099E-11	1.02038695E+03	1.41539629E+01	3.59852836E+03		4	
C8H16,1-octene	X 4/87C 8.H 16.	0.	0.G	200.000	6000.000	112.21504	1	TRC(4/87)tuvw-2500
	2.20134086E+01	3.67972174E-02	-1.29830482E-05	2.10854637E-09	-1.27294158E-13		2	
	-2.06109835E+04	-8.55337170E+01	1.01487860E+01	1.25107538E-03	1.85252736E-04		3	
	-2.49094162E-07	1.00250395E-10	-1.43267453E+04	-8.50774418E+00	-1.00535089E+04		4	
C8H17,n-octyl	X10/83C 8.H 17.	0.	0.G	200.000	6000.000	113.22298	1	TRC(10/83)tuvw-1930
	1.87968043E+01	4.60048523E-02	-1.68790126E-05	2.79422477E-09	-1.70663886E-13		2	
	-1.14592578E+04	-6.59622206E+01	1.18082518E+01	-8.50348136E-04	1.87697700E-04		3	
	-2.45690702E-07	9.75813027E-11	-6.66450442E+03	-1.47298487E+01	3.81030000E+04		4	
C8H18,isoctane	X 4/85C 8.H 18.	0.	0.G	200.000	6000.000	114.23092	1	TRC(4/85)tuvw-1490
	1.59899273E+01	5.53184790E-02	-1.95267072E-05	3.11779172E-09	-1.85312577E-13		2	
	-3.58757973E+04	-6.01161414E+01	8.15737338E-01	7.32643959E-02	1.78300688E-05		3	
	-6.93589620E-08	3.21629382E-11	-3.04772862E+04	2.41509994E+01	-2.69420567E+04		4	
C8H18,n-octane	X 4/85C 8.H 18.	0.	0.G	200.000	6000.000	114.23092	1	TRC(4/85)tuvw-1490
	2.21755407E+01	4.24426161E-02	-1.49161103E-05	2.40376673E-09	-1.44359037E-13		2	
	-3.61030944E+04	-8.0854457E+01	1.25244908E+01	-1.01018365E-02	2.21991595E-04		3	
	-2.84862420E-07	1.12409624E-10	-2.98433034E+04	-1.97108554E+01	3.77800000E+04		4	
C9H19,n-nonyl	X10/83C 9.H 19.	0.	0.G	298.150	5000.000	127.24986	1	TRC(10/83)tuvw-1930
	1.91952670E+01	5.54392490E-02	-2.14366010E-05	3.78851440E-09	-2.50029870E-13		2	
	-1.43737110E+04	-6.00562950E+01	2.87564850E+00	7.57927890E-02	1.34624310E-05		3	
	-6.40883970E-08	2.86941720E-11	-8.68345310E+03	2.42622320E+01	-4.45371290E+03		4	
C10H8,naphthale	L 8/93C 10.H 8.	0.	0.G	200.000	6000.000	128.17352	1	Chen (1979)
	1.86129899E+01	3.04494141E-02	-1.11224799E-05	1.81615406E-09	-1.09601224E-13		2	
	8.91552944E+03	-8.00230479E+01	-1.04919326E+00	4.62970611E-02	7.07592203E-05		3	
	-1.38408186E-07	6.20475748E-11	1.59846388E+04	3.02121571E+01	2.07130760E+04		4	
C10H21,n-decyl	X10/83C 10.H 21.	0.	0.G	298.150	5000.000	141.27674	1	TRC(10/83)tuvw-1930
	2.13221280E+01	6.15735240E-02	-2.38494830E-05	4.22091160E-09	-2.78893070E-13		2	
	-1.79678090E+04	-7.56437890E+01	3.08970070E+00	8.41179490E-02	1.59018380E-05		3	
	-7.23879340E-08	3.22669250E-11	-1.16149410E+04	2.52811840E+01	-6.94456890E+03		4	
C12H9,o-biphenyl	L12/84C 12.H 9.	0.	0.G	200.000	6000.000	153.20346	1	Burcat (1985)
	2.25693421E+01	3.45619386E-02	-1.27020788E-05	2.08111827E-09	-1.25849480E-13		2	
	4.05905091E+04	-9.57792390E+01	4.07649156E-01	5.42797841E-02	7.12514701E-05		3	
	-1.44404490E-07	6.48500575E-11	4.85349837E+04	2.81982515E+01	2.65893350E+04		4	
0-C12D9	L12/84C 12.D 9.	0.	0.G	300.000	5000.000	162.25892	1	Burcat (1985)
	3.01231990E+01	2.83282550E-02	-1.03665400E-05	1.65933380E-09	-9.65271160E-14		2	
	3.32077890E+04	-1.35191307E+02	-7.32993960E-01	8.98368950E-02	-1.37312750E-05		3	
	-5.94270200E-08	3.37024300E-11	4.29430940E+04	3.00419560E+01	4.64864100E+04		4	
C12H10,biphenyl	L12/84C 12.H 10.	0.	0.G	200.000	6000.000	154.21140	1	Burcat (1985)
	2.28964892E+01	3.68452570E-02	-1.35016270E-05	2.20802808E-09	-1.33358223E-13		2	
	1.07394499E+04	-1.00510148E+02	1.94566186E-01	5.35264368E-02	8.54996701E-05		3	
	-1.63903606E-07	7.29977217E-11	1.90020431E+04	2.72151271E+01	2.67835110E+04		4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

C12D10	L12/84C 12.D 10.	0.	0.G	300.000	5000.000	164.27302	1	Burcat (1985)
3.09050600E+01	3.03499880E-02	-1.10950480E-05	1.77558100E-09	-1.03323270E-13			2	
2.88344530E+03	-1.42438937E+02	-1.57934860E+00	9.50595740E-02	-1.45320710E-05			3	
-6.26455970E-08	3.55300790E-11	1.31374220E+04	3.15298410E+01	1.66475020E+04			4	
Jet-A(g)	L 6/88C 12.H 23.	0.	0.G	273.150	5000.000	167.31462	1	Gracia-Salcedo (1988)
2.48802010E+01	7.82500480E-02	-3.15509730E-05	5.78789000E-09	-3.98279680E-13			2	
-4.31106840E+04	-9.36552550E+01	2.08692170E+00	1.33149650E-01	-8.11574520E-05			3	
2.94092860E-08	-6.51952130E-12	-3.59128140E+04	2.73552890E+01	-3.00344960E+04			4	
Ca	L 3/93CA 1.	0.	0.G	200.000	6000.000	40.07800	1	Chase (1985)
1.92707623E+00	1.34909167E-03	-1.07515862E-06	3.25457865E-10	-2.64671538E-14			2	Sugar (1979)
2.08196210E+04	7.42878398E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00			3	
0.00000000E+00	0.00000000E+00	2.06389279E+04	4.38454833E+00	2.13843029E+04			4	
Ca+	J 9/83CA 1.E -1.	0.	0.G	298.150	6000.000	40.07745	1	Chase (1985)
2.64221438E+00	-1.60517359E-04	-2.70843966E-08	5.13522496E-11	-5.96487048E-15			2	
9.22596379E+04	4.25372623E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00			3	
0.00000000E+00	0.00000000E+00	9.23242106E+04	5.07767498E+00	9.30695856E+04			4	
CaBr	J12/74CA 1.BR 1.	0.	0.G	300.000	5000.000	119.98200	1	Chase (1985)
4.32173630E+00	4.09036740E-04	-2.45415310E-07	6.90268740E-11	-5.36841960E-15			2	
-7.24627320E+03	5.67668059E+00	3.85118770E+00	3.02714810E-03	-5.50978070E-06			3	
4.67645710E-09	-1.49599600E-12	-7.18372390E+03	7.77803289E+00	-5.94108833E+03			4	
CaBr2	J 6/74CA 1.BR 2.	0.	0.G	300.000	5000.000	199.88600	1	Chase (1985)
7.41516390E+00	9.65490130E-05	-4.24638160E-08	8.22868650E-12	-5.86170570E-16			2	
-4.85368240E+04	-4.48080162E+00	6.60571570E+00	3.60588920E-03	-5.83146500E-06			3	
4.26348010E-09	-1.16672780E-12	-4.83829630E+04	-6.31052281E-01	-4.62968444E+04			4	
CaCL	J 6/77CA 1.CL 1.	0.	0.G	300.000	5000.000	75.53070	1	Chase (1985)
4.30671160E+00	4.00849630E-04	-2.33136610E-07	6.39217970E-11	-4.86623830E-15			2	
-1.38926560E+04	4.37337421E+00	3.67305150E+00	3.31441640E-03	-5.16824350E-06			3	
3.71112670E-09	-9.96870310E-13	-1.37841440E+04	7.33679641E+00	-1.25805061E+04			4	
CaCL2	J 6/77CA 1.CL 2.	0.	0.G	300.000	5000.000	110.98340	1	Chase (1985)
7.36500140E+00	1.53271080E-04	-6.72752850E-08	1.30141310E-11	-9.25679680E-16			2	
-5.89547310E+04	-7.18852085E+00	6.16133630E+00	5.30604290E-03	-8.46494630E-06			3	
6.11288970E-09	-1.65223620E-12	-5.87229350E+04	-1.44829735E+00	-5.67135827E+04			4	
CaF	J12/68CA 1.F 1.	0.	0.G	300.000	5000.000	59.07640	1	Chase (1985)
4.19886210E+00	4.92440930E-04	-2.61021230E-07	6.47916350E-11	-4.73039510E-15			2	
-3.40211290E+04	3.46314749E+00	3.05089900E+00	5.15494390E-03	-7.35082960E-06			3	
4.78764580E-09	-1.15231550E-12	-3.37923450E+04	8.98800879E+00	-3.27096252E+04			4	
CaF2	J12/68CA 1.F 2.	0.	0.G	300.000	5000.000	78.07481	1	Chase (1985)
6.65434310E+00	3.90526920E-04	-1.70810700E-07	3.29528400E-11	-2.33877410E-15			2	
-9.64452790E+04	-5.31072110E+00	4.23081520E+00	1.02558050E-02	-1.54443450E-05			3	
1.05467910E-08	-2.68439160E-12	-9.59552610E+04	6.36780660E+00	-9.43548797E+04			4	
CaI	J 6/74CA 1.I 1.	0.	0.G	300.000	5000.000	166.98247	1	Chase (1985)
4.31984710E+00	4.34666910E-04	-2.74419200E-07	8.00804410E-11	-6.54516080E-15			2	
-1.90648040E+03	6.71480235E+00	4.02391010E+00	2.25599780E-03	-4.09398330E-06			3	
3.48400510E-09	-1.11629960E-12	-1.87705110E+03	7.99031065E+00	-6.06862329E+02			4	
CaI2	J 6/74CA 1.I 2.	0.	0.G	300.000	5000.000	293.88694	1	Chase (1985)
7.42386650E+00	8.85553580E-05	-3.98468930E-08	7.89183570E-12	-5.73526580E-16			2	
-3.32877520E+04	-2.97844542E+00	6.56417270E+00	4.26846500E-03	-7.92475830E-06			3	
6.72056000E-09	-2.14854610E-12	-3.31382820E+04	1.02209228E+00	-3.10492020E+04			4	
CaO	J12/74CA 1.O 1.	0.	0.G	300.000	5000.000	56.07740	1	Chase (1985)
9.17458650E+00	-1.06432340E-02	7.69689680E-06	-1.90704430E-09	1.55092310E-13			2	
2.32480410E+03	-2.44275825E+01	2.67186020E+00	6.43240250E-03	-9.57270300E-06			3	
6.76204240E-09	-1.81730490E-12	4.27345310E+03	9.65422679E+00	5.28389925E+03			4	
CaOH	J12/75CA 1.O 1.H 1.	0.G	300.000	5000.000	57.08534	1	Chase (1985)	
5.27547590E+00	1.80256200E-03	-6.84356480E-07	1.30601960E-10	-8.91315800E-15			2	
-2.49846810E+04	-2.31108541E+00	2.10048520E+00	1.86951590E-02	-3.35066440E-05			3	
2.80256380E-08	-8.79926890E-12	-2.45309150E+04	1.20387635E+01	-2.33185135E+04			4	
CaOH+	J12/75CA 1.O 1.H 1.E -1.G	0.	0.G	300.000	5000.000	57.08479	1	Chase (1985)
5.40510870E+00	1.52450030E-03	-4.78308080E-07	7.13472160E-11	-4.12983490E-15			2	
4.26859330E+04	-3.66981133E+00	2.15664600E+00	1.85186760E-02	-3.32682220E-05			3	
2.78722200E-08	-8.76080100E-12	4.31683950E+04	1.10927661E+01	4.43915181E+04			4	
CaO2H2	J12/75CA 1.O 2.H 2.	0.G	300.000	5000.000	74.09268	1	Chase (1985)	
8.85820360E+00	2.99419090E-03	-9.32192990E-07	1.37883860E-10	-7.91119850E-15			2	
-7.62794960E+04	-1.71393039E+01	2.32221660E+00	3.75156820E-02	-6.79965130E-05			3	
5.72902630E-08	-1.80814750E-11	-7.53228630E+04	1.24879611E+01	-7.34591048E+04			4	
CaS	J 9/77CA 1.S 1.	0.	0.G	298.150	5000.000	72.14400	1	Chase (1985)
5.35707752E+00	-4.18392513E-03	4.68291375E-06	-1.40725075E-09	1.28892668E-13			2	
1.34741825E+04	-1.43173210E+00	3.22586008E+00	5.30640418E-03	-8.76527639E-06			3	
6.42601054E-09	-1.61529035E-12	1.37334866E+04	8.34892080E+00	9.35841600E+03			4	
Ca2	J 9/83CA 2.	0.	0.G	200.000	6000.000	80.15600	1	Chase (1985)
3.16700199E+00	-6.16814444E-04	2.03540960E-07	-2.77128180E-11	1.65003046E-15			2	
4.04382380E+04	1.37113509E+01	4.94590110E+00	4.30621337E-03	-3.23384227E-05			3	
4.51640811E-08	-1.93501071E-11	3.96175492E+04	2.54511315E+00	4.10779763E+04			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

CL	J 6/82CL 1.	0.	0.	0.G	200.000	6000.000	35.45270	1	Chase (1985)
	2.94658358E+00-3.85985408E-04	1.36139388E-07	-2.17032923E-11	1.28751025E-15				2	
	1.36970327E+04	3.11330136E+00	2.26062480E+00	1.54154399E-03	-6.80283622E-07			3	
	-1.59972975E-09	1.15416636E-12	1.38552986E+04	6.57020799E+00	1.45891941E+04			4	
CL+	J 6/82CL 1.E	-1.	0.	0.G	298.150	6000.000	35.45215	1	Chase (1985)
	3.12286072E+00-6.36624037E-04	2.48337920E-07	-3.72507849E-11	1.98433686E-15				2	
	1.64912234E+05	2.49731343E+00	1.71435396E+00	6.62489248E-03	-1.35523086E-05			3	
	1.14999760E-08-3.58760566E-12	1.65123809E+05	8.91739546E+00	1.65830698E+05				4	
CL-	J 6/82CL 1.E	1.	0.	0.G	298.150	6000.000	35.45325	1	Chase (1985)
	2.50000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	-2.88834132E+04	4.20062933E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00-2.88834132E+04	4.20062933E+00	-2.81380382E+04				4	
CLCN	J 6/66CL 1.C	1.N	1.	0.G	300.000	5000.000	61.47044	1	Chase (1985)
	5.49200210E+00	2.09872480E-03	-7.74159140E-07	1.38238820E-10	-9.23348640E-15			2	
	1.47491610E+04-3.73046245E+00	3.33908540E+00	1.03974680E-02	-1.37046500E-05				3	
	9.50619620E-09-2.59251978E-12	1.52375390E+04	6.83103255E+00	1.65917045E+04				4	
CLF	J 6/77CL 1.F	1.	0.	0.G	300.000	5000.000	54.45110	1	Chase (1985)
	2.84862330E+00	3.17332790E-03	-2.05233870E-06	5.21627330E-10	-3.74722620E-14			2	
	-6.92788240E+03	9.31699651E+00	2.64455690E+00	6.24812560E-03	-9.03543510E-06			3	
	3.34005750E-09-1.74351780E-12	7.04691060E+03	9.63042791E+00	-6.04884780E+03				4	
CLF3	J 9/65CL 1.F	3.	0.	0.G	300.000	5000.000	92.44791	1	Chase (1985)
	8.95359670E+00	1.17221630E-03	-5.08961880E-07	9.75634890E-11	-6.88587310E-15			2	
	-2.20759680E+04-1.80815549E+01	2.89491190E+00	2.47185500E-02	-3.51393230E-05				3	
	2.25595910E-08-5.32619780E-12	2.07986400E+04	1.13816921E+01	-1.91052460E+04				4	
CLO	J 6/61CL 1.0	1.	0.	0.G	300.000	5000.000	51.45210	1	Chase (1985)
	4.09126190E+00	5.00031260E-04	-1.87782060E-07	3.50976710E-11	-2.42050380E-15			2	
	1.08532230E+04	3.61889244E+00	2.81793640E+00	4.45313330E-03	-4.41248930E-06			3	
	1.59209420E-09-1.44862420E-14	1.11713970E+04	1.00579823E+01	1.21736480E+04				4	
CL02	L 7/93CL 1.0	2.	0.	0.G	200.000	6000.000	67.45150	1	Gurvich (1989)
	5.76647681E+00	1.41132506E-03	-5.43714031E-07	1.00734295E-10	-6.43543762E-15			2	
	1.06324182E+04-2.86560082E+00	3.29338614E+00	6.19311337E-03	1.05685372E-06				3	
	-8.16191254E-09	4.34694600E-12	1.13760776E+04	1.03017024E+01	1.26285253E+04			4	
CL2	TPIS89CL 2.	0.	0.	0.G	200.000	6000.000	70.90540	1	McBride (1993a)
	4.74727508E+00-4.88581710E-04	2.68444871E-07	-2.43476083E-11	-1.03683148E-15				2	
	-1.51101862E+03-3.44551305E-01	2.73638114E+00	7.83525700E-03	-1.45104963E-05				3	
	1.25730834E-08-4.13247145E-12	1.05880114E+03	9.44555879E+00	0.00000000E+00				4	
CL20	J12/65CL 2.0	1.	0.	0.G	300.000	5000.000	86.90480	1	Chase (1985)
	6.43400620E+00	6.27288090E-04	-2.69332520E-07	5.10763940E-11	-3.56915450E-15			2	
	8.48605300E+03-4.93672407E+00	3.25452380E+00	1.27994490E-02	-1.78824600E-05				3	
	1.12643830E-08-2.59642520E-12	9.16574230E+03	1.05712106E+01	1.05680184E+04				4	
Cr	J 6/79CR 1.	0.	0.	0.G	200.000	6000.000	51.99610	1	Chase (1985)
	3.08497752E+00-1.44703683E-03	1.08492194E-06	-2.35643635E-10	1.86355816E-14				2	
	4.68928202E+04	3.65913914E+00	2.50259371E+00	-2.76560170E-05	1.03974095E-07			3	
	-1.61996406E-10	8.89391985E-14	4.70600237E+04	6.71107210E+00	4.78055833E+04			4	
CrN	J12/73CR 1.N	1.	0.	0.G	300.000	5000.000	66.00284	1	Chase (1985)
	3.86496020E+00	8.51604560E-04	-4.40707580E-07	1.06676010E-10	-8.37314220E-15			2	
	5.94774370E+04	5.29506757E+00	2.93046360E+00	3.03770420E-03	-1.27139640E-06			3	
	-1.17812490E-09	8.55513490E-13	5.97442030E+04	1.01918812E+01	6.07397802E+04			4	
CrO	J12/73CR 1.0	1.	0.	0.G	300.000	5000.000	67.99550	1	Chase (1985)
	4.01398180E+00	6.27002450E-04	-2.79567940E-07	6.00031000E-11	-4.40579160E-15			2	
	2.13466930E+04	5.55171510E+00	2.84149960E+00	4.09533580E-03	-3.57764630E-06			3	
	8.17104390E-10	2.40720090E-13	2.16460670E+04	1.15179922E+01	2.26454051E+04			4	
CrO2	J12/73CR 1.0	2.	0.	0.G	300.000	5000.000	83.99490	1	Chase (1985)
	5.84999980E+00	1.27251010E-03	-5.49205480E-07	1.04974910E-10	-7.39954860E-15			2	
	-1.10421830E+04-1.74497632E+00	3.30126450E+00	8.16258570E-03	-5.89076800E-06				3	
	1.61708560E-11	1.08162670E-12	-1.03535690E+04	1.13991138E+01	-9.05799743E+03			4	
CrO3	J12/73CR 1.0	3.	0.	0.G	300.000	5000.000	99.99430	1	Chase (1985)
	8.16289460E+00	2.04508390E-03	-8.85941310E-07	1.69762820E-10	-1.19877650E-14			2	
	-3.80925570E+04-1.58958945E+01	1.90728580E+00	2.30496080E-02	-2.65012940E-05				3	
	1.28624130E-08-1.83819910E-12	3.66086800E+04	1.53451415E+01	-3.52251261E+04				4	
Cs	L 3/93CS 1.	0.	0.	0.G	200.000	6000.000	132.90543	1	Chase (1985)
	2.82023315E+00-3.34840327E-04	-9.82915709E-08	1.27564369E-10	-1.46119271E-14				2	Moore, C.E. (1971)
	8.30639354E+03	5.00894042E+00	2.50004554E+00	-4.66833356E-07	1.68005061E-09			3	
	-2.48218029E-12	1.27712190E-15	8.45540436E+03	6.87573539E+00	9.20078273E+03			4	
Cs+	J12/83CS 1.E	-1.	0.	0.G	298.150	6000.000	132.90488	1	Chase (1985)
	2.50000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	Moore, C.E. (1971)
	5.43873989E+04	6.18275754E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	5.43873989E+04	6.18275754E+00	5.51327739E+04			4	
CsCL	J 6/68CS 1.CL	1.	0.	0.G	300.000	5000.000	168.35813	1	Chase (1985)
	4.47984550E+00	1.09491640E-04	-3.99899140E-09	2.06419950E-13	2.21846400E-17			2	
	-3.02358090E+04	5.21731708E+00	4.18230300E+00	1.37595530E-03	-2.05869330E-06			3	
	1.48364740E-09-3.97645460E-13	3.01779270E+04	6.63848788E+00	-2.88852607E+04				4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

CsF	J 6/68CS 1.F 1. 0. 0.G	300.000	5000.000	151.90383	1	Chase (1985)
4.43733090E+00	1.27150000E-04-2.05476500E-08	2.98133570E-12-1.47742450E-16			2	
-4.42279950E+04	3.87355582E+00 3.74498730E+00	3.01005160E-03-4.58838160E-06			3	
3.21796940E-09-8.37860170E-13-4.40906960E+04		7.19487312E+00-4.28749148E+04			4	
CsO	J12/68CS 1.0 1. 0. 0.G	300.000	5000.000	148.90483	1	Chase (1985)
4.46602820E+00	1.15632320E-04-5.99891870E-09	1.31766990E-13 5.76397450E-17			2	
6.19503090E+03	5.21454869E+00 3.98574190E+00	2.12792510E-03-3.21702550E-06			3	
2.27642950E-09-5.97219760E-13 6.28989400E+03		7.51602259E+00 7.54861703E+03			4	
CsOH	J 6/71CS 1.0 1.H 1. 0.G	300.000	5000.000	149.91277	1	Chase (1985)
5.70056490E+00	1.18203840E-03-3.19390940E-07	3.86429170E-11-1.66356360E-15			2	
-3.29192050E+04-2.11870021E+00 4.54860030E+00		7.96123330E-03-1.33264970E-05			3	
1.03142340E-08-2.89737770E-12-3.28108900E+04		2.86187969E+00-3.11995968E+04			4	
CsOH+	J12/71CS 1.0 1.H 1.E -1.G	300.000	5000.000	149.91222	1	Chase (1985)
5.72925630E+00	1.15713240E-03-3.10444310E-07	3.70962910E-11-1.55094630E-15			2	
5.16264830E+04-5.76482232E-01 4.84871580E+00		6.89083460E-03-1.18393280E-05			3	
9.43353720E-09-2.72226850E-12 5.16781670E+04		3.08484850E+00 5.33428450E+04			4	
Cs2	J12/68CS 2. 0. 0. 0.G	300.000	5000.000	265.81086	1	Chase (1985)
6.86645178E+00-3.99014326E-03 1.31948084E-06-1.63413186E-10		6.88125908E-15			2	
1.00054293E+04-4.29749465E+00 4.74588225E+00-2.63862819E-03		1.14139305E-05			3	
-1.60430500E-08 6.56112294E-12 1.15444856E+04 7.60679272E+00		1.29144271E+04			4	
Cs2CL2	J 6/71CS 2.CL 2. 0. 0.G	300.000	5000.000	336.71626	1	Chase (1985)
9.94243750E+00	6.26593030E-05-2.63310970E-08	4.89121420E-12-3.35541520E-16			2	
-8.23458550E+04-1.05980604E+01 9.29526420E+00		2.85056000E-03-4.55760190E-06			3	
3.25577310E-09-8.60673620E-13-8.22228620E+04-7.51835332E+00		-7.93590189E+04			4	
Cs2F2	J 6/68CS 2.F 2. 0. 0.G	300.000	5000.000	303.80767	1	Chase (1985)
9.87937250E+00	1.26748290E-04-5.09052530E-08	8.97117620E-12-5.80909600E-16			2	
-1.10050570E+05-1.40548217E+01 8.44255610E+00		6.49210010E-03-1.08327570E-05			3	
8.17910540E-09-2.31739780E-12-1.09781650E+05-7.24824483E+00		-1.07056586E+05			4	
Cs2O	J12/68CS 2.0 1. 0. 0.G	300.000	5000.000	281.81026	1	Chase (1985)
6.89794670E+00	1.01650980E-04-3.80620620E-08	6.14663930E-12-3.57582160E-16			2	
-1.31699890E+04-1.16591689E+00 5.75536390E+00		4.91160730E-03-7.70725180E-06			3	
5.41569570E-09-1.40808980E-12-1.29468290E+04 4.30015461E+00		-1.10706171E+04			4	
Cs2O2H2	J 6/71CS 2.0 2.H 2. 0.G	300.000	5000.000	299.82554	1	Chase (1985)
9.58093620E+00	5.32605090E-03-1.87805450E-06	3.09259250E-10-1.94295330E-14			2	
-8.60258390E+04-1.32145943E+01 7.52281910E+00		7.90783720E-03 3.54302990E-06			3	
-1.04563280E-08 4.80140322E-12-8.53384120E+04-1.90663311E+00		-8.27310993E+04			4	
Cs2S04	J 6/79CS 2.S 1.0 4. 0.G	300.000	5000.000	361.87446	1	Chase (1985)
1.54190450E+01	4.05276500E-03-1.79103410E-06	3.50246530E-10-2.52157360E-14			2	
-1.40367750E+05-4.14921849E+01 4.29653850E+00		4.48543000E-02-6.09879230E-05			3	
4.05163880E-08-1.06734950E-11-1.37825590E+05 1.34096371E+01		-1.35014739E+05			4	
Cu	J 9/84CU 1. 0. 0. 0.G	200.000	6000.000	63.54600	1	Chase (1985)
3.13522595E+00-1.13337547E-03 5.72023041E-07-7.66326177E-11		2.83881466E-15			2	
3.96177240E+04 2.25331944E+00 2.50006597E+00-6.77306412E-07		2.44116818E-09			3	
-3.61314758E-12 1.86304322E-15 3.98583358E+04 5.76884604E+00		4.06037157E+04			4	
Cu+	J 9/84CU 1.E -1. 0. 0.G	298.150	6000.000	63.54545	1	Chase (1985)
2.49981754E+00	3.57922146E-07-2.21769848E-10	4.86937918E-14-2.39019610E-18			2	
1.30263854E+05 1.24951186E+01 2.50000000E+00		0.00000000E+00 0.00000000E+00			3	
0.00000000E+00 0.00000000E+00 1.30263788E+05		1.24941209E+01 1.31009163E+05			4	
CuCl	J 3/66CU 1.CL 1. 0. 0.G	300.000	5000.000	98.99870	1	Chase (1985)
4.39029880E+00	1.83494840E-04-5.71107030E-08	1.12933210E-11-8.19755200E-16			2	
9.60972660E+03 3.39216514E+00 3.34916000E+00		5.10283020E-03-9.12780020E-06			3	
7.60141550E-09-2.39844890E-12 9.79675620E+03		8.26947304E+00 1.09553590E+04			4	
CuF	J12/77CU 1.F 1. 0. 0.G	300.000	5000.000	82.54440	1	Chase (1985)
4.12273990E+00	6.31634630E-04-3.34728200E-07	8.08373670E-11-5.78348170E-15			2	
-2.80059530E+03 3.48564565E+00 2.76545050E+00		6.85118050E-03-1.13388190E-05			3	
8.90965780E-09-2.69276920E-12-2.55485650E+03		9.87277405E+00-1.50966578E+03			4	
CuF2	J12/77CU 1.F 2. 0. 0.G	300.000	5000.000	101.54281	1	Chase (1985)
6.81842360E+00-1.64979080E-04 2.02917740E-07-2.54531130E-11		1.20657320E-16			2	
-3.43227440E+04-7.12862916E+00 3.11076960E+00		1.43258070E-02-2.28117430E-05			3	
1.72788930E-08-5.07269770E-12-3.35004530E+04 1.09995699E+01		-3.21060286E+04			4	
CuO	J12/77CU 1.0 1. 0. 0.G	300.000	5000.000	79.54540	1	Chase (1985)
4.27236250E+00	4.47132760E-04-2.39569790E-07	6.04053160E-11-4.24560160E-15			2	
3.55353490E+04 3.72701889E+00 3.70935200E+00		3.19650590E-03-5.29701090E-06			3	
4.21642380E-09-1.28918550E-12 3.56274700E+04		6.33140079E+00 3.68364130E+04			4	
Cu2	J 9/66CU 2. 0. 0. 0.G	300.000	5000.000	127.09200	1	Chase (1985)
4.42397340E+00	2.02489520E-04-6.44897930E-08	1.40654120E-11-7.60204940E-16			2	
5.70381310E+04 3.78535579E+00 3.92443580E+00		2.72749490E-03-4.91949560E-06			3	
4.18219650E-09-1.33935330E-12 5.71191870E+04		6.08380829E+00 5.83746552E+04			4	
Cu3CL3	J 3/66CU 3.CL 3. 0. 0.G	300.000	5000.000	296.99610	1	Chase (1985)
1.56261270E+01	4.33738330E-04-1.94670060E-07	3.84669380E-11-2.78997000E-15			2	
-3.58818530E+04-3.77523345E+01 1.14429000E+01		2.06908060E-02-3.82640030E-05			3	
3.23410530E-08-1.03098840E-11-3.51516100E+04-1.82687865E+01		-3.10992833E+04			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

D	J 3/82D	1.	0.	0.	0.G	200.000	6000.000	2.01410	1	Chase (1985)
	2.50000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
	2.59212596E+04	5.91714338E-01	2.50000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
	0.00000000E+00	0.00000000E+00	2.59212596E+04	5.91714338E-01	2.66666346E+04				4	
D+	J 3/82D	1.E	-1.	0.	0.G	298.150	6000.000	2.01355	1	Chase (1985)
	2.50000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
	1.84511964E+05	-1.01841452E-01	2.50000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
	0.00000000E+00	0.00000000E+00	1.84511964E+05	-1.01841452E-01	1.85257339E+05				4	
D-	J 3/82D	1.E	1.	0.	0.G	298.150	6000.000	2.01465	1	Chase (1985)
	2.50000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
	1.64237667E+04	-1.01024344E-01	2.50000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
	0.00000000E+00	0.00000000E+00	1.64237667E+04	-1.01024344E-01	1.71691417E+04				4	
DCL	J 6/77D	1.CL	1.	0.	0.G	300.000	5000.000	37.46680	1	Chase (1985)
	2.95720340E+00	1.59181600E-03	-6.33202720E-07	1.17556580E-10	-8.15999110E-15				2	
	-1.21735150E+04	5.89879666E+00	3.02692130E+00	-2.50133260E-03	6.04661240E-06				3	
	-4.48375190E-09	1.13676410E-12	-1.23019210E+04	1.89177776E+00	-1.12270035E+04				4	
DF	J 3/79D	1.F	1.	0.	0.G	300.000	5000.000	21.01251	1	Chase (1985)
	2.72646200E+00	1.50912930E-03	-5.17049380E-07	8.54853710E-11	-5.41960240E-15				2	
	-3.39369400E+04	5.82982015E+00	3.49813860E+00	2.21767930E-04	-1.33202400E-06				3	
	2.56194930E-09	-1.15122410E-12	-3.41832320E+04	1.65507895E+00	-3.31376542E+04				4	
DOCL	J 3/79D	1.0	1.CL	1.	0.G	300.000	5000.000	53.46620	1	Chase (1985)
	4.43507610E+00	2.53223870E-03	-1.03123310E-06	1.90054540E-10	-1.26823840E-14				2	
	-1.09194020E+04	2.72715963E+00	2.47904180E+00	1.08458960E-02	-1.52283050E-05				3	
	1.14373140E-08	-3.42049250E-12	-1.05180920E+04	1.21267106E+01	-9.41045332E+03				4	
D2	TPIS89D	2.	0.	0.	0.G	200.000	6000.000	4.02820	1	McBride (1993)
	2.73068929E+00	1.48004781E-03	-4.79314840E-07	7.89496274E-11	-4.88380823E-15				2	
	-7.95267504E+02	1.64266094E+00	3.49546974E+00	2.56348159E-04	-1.31762502E-06				3	
	2.42912018E-09	-1.05982498E-12	-1.04631580E+03	-2.51905534E+00	0.00000000E+00				4	
D2+	J 9/77D	2.E	-1.	0.	0.G	300.000	5000.000	4.02766	1	Chase (1985)
	3.58918000E+00	8.92146510E-04	-2.42644840E-07	5.75844090E-11	-6.73805600E-15				2	
	1.79037520E+05	-2.05817714E+00	3.80751400E+00	-3.11062600E-03	1.01629820E-05				3	
	-9.83632710E-09	3.26598530E-12	1.79170960E+05	-2.28662654E+00	1.80239805E+05				4	
D2-	J 9/77D	2.E	1.	0.	0.G	300.000	5000.000	4.02875	1	Chase (1985)
	3.75310420E+00	9.80189910E-04	-3.63879600E-07	7.07004820E-11	-5.06742720E-15				2	
	2.70647080E+04	-2.81955268E+00	3.21448000E+00	7.83581650E-04	3.58926850E-06				3	
	-5.23941900E-09	2.08713650E-12	2.72930090E+04	3.68154876E-01	2.83085763E+04				4	
D20	J 6/77D	2.0	1.	0.	0.G	300.000	5000.000	20.02760	1	Chase (1985)
	2.72645950E+00	3.98451730E-03	-1.49326260E-06	2.63497720E-10	-1.76495570E-14				2	
	-3.09026380E+04	7.31820104E+00	3.85411310E+00	1.47122880E-04	3.00690060E-06				3	
	-1.77476280E-09	2.30188620E-13	-3.11516510E+04	1.73341954E+00	-2.99728411E+04				4	
D2S	J 6/77D	2.S	1.	0.	0.G	300.000	5000.000	36.09420	1	Chase (1985)
	3.66629010E+00	3.49922640E-03	-1.42072840E-06	2.66856390E-10	-1.86847390E-14				2	
	-4.21473080E+03	3.79969952E+00	3.80708240E+00	3.75963110E-04	5.75307990E-06				3	
	-5.34857400E-09	1.40540830E-12	-4.06612190E+03	3.87928732E+00	-2.87340817E+03				4	
F	J 6/82F	1.	0.	0.	0.G	200.000	6000.000	18.99840	1	Chase (1985)
	2.66749541E+00	-1.66693548E-04	6.42448457E-08	-1.08588758E-11	6.70845755E-16				2	
	8.78895350E+03	4.00729173E+00	2.41951429E+00	2.94132793E-03	-8.92799246E-06				3	
	9.92060935E-09	-3.79860044E-12	8.75732351E+03	4.74771017E+00	9.54836785E+03				4	
F+	J 6/82F	1.E	-1.	0.	0.G	298.150	6000.000	18.99785	1	Chase (1985)
	2.68834861E+00	-1.76182961E-04	6.06940639E-08	-8.91530067E-12	5.47552167E-16				2	
	2.11744095E+05	4.27480802E+00	3.08421084E+00	-9.00062139E-04	-1.64599174E-07				3	
	1.10121336E-09	-5.56270920E-13	2.11619101E+05	2.14597617E+00	2.12499113E+05				4	
F-	J 6/82F	1.E	1.	0.	0.G	298.150	6000.000	18.99895	1	Chase (1985)
	2.50000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00				2	
	-3.14241522E+04	3.26488271E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00				3	
	0.00000000E+00	0.00000000E+00	-3.14241522E+04	3.26488271E+00	-3.06787772E+04				4	
FCN	J 6/69F	1.C	1.N	1.	0.G	300.000	5000.000	45.01614	1	Chase (1985)
	5.08985570E+00	2.41706840E-03	-9.76827660E-07	1.78134420E-10	-1.21185670E-14				2	
	2.57807810E+03	-2.87278107E+00	3.25169410E+00	8.30731440E-03	-8.36663580E-06				3	
	4.41256440E-09	-9.08824230E-13	3.05511980E+03	6.44214763E+00	4.32821878E+03				4	
FO	J12/66F	1.0	1.	0.	0.G	300.000	5000.000	34.99780	1	Chase (1985)
	3.91927740E+00	7.04423450E-04	-2.66482040E-07	4.96175990E-11	-3.36885710E-15				2	
	1.17981930E+04	3.32875823E+00	2.96800240E+00	2.64833930E-03	-3.73680050E-07				3	
	-1.90062250E-09	1.06142830E-12	1.20878440E+04	8.39349733E+00	1.30839080E+04				4	
F02	J 9/66F	1.0	2.	0.	0.G	300.000	5000.000	50.99720	1	Chase (1985)
	5.70409350E+00	1.38628890E-03	-5.83553740E-07	1.09372140E-10	-7.58691810E-15				2	
	-3.96786780E+02	-2.06791742E+00	3.78050730E+00	6.81745950E-03	-5.81336050E-06				3	
	1.75625040E-09	6.77574300E-14	1.27694680E+02	7.83568288E+00	1.51000973E+03				4	
F2	TPIS89F	2.	0.	0.	0.G	200.000	6000.000	37.99681	1	McBride (1993)
	3.86166219E+00	7.88367679E-04	-1.81982940E-07	-9.17436560E-12	2.65193472E-15				2	
	-1.23238655E+03	2.04119869E+00	3.20832415E+00	1.25919179E-03	3.89747979E-06				3	
	-7.22184984E-09	3.31837862E-12	-1.03425794E+03	5.61903603E+00	0.00000000E+00				4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

F2O	J12/69F	2.0	1.	0.	0.G	300.000	5000.000	53.99621	1	Chase (1985)
		6.00518710E+00	1.10284020E-03	-4.75479370E-07		9.06831450E-11	-6.37570980E-15		2	
		9.19060650E+02	-5.22210571E+00	2.61092190E+00		1.22312800E-02	-1.34414150E-05		3	
		5.89094120E-09	-5.74871750E-13	1.73471960E+03		1.17878819E+01	2.94942436E+03		4	
FS2F, fluorodisu	J 6/76F	2.S	2.	0.	0.G	200.000	6000.000	102.12881	1	Chase (1985)
		9.11491404E+00	9.25549788E-04	-3.66972859E-07		6.31489899E-11	-3.94877764E-15		2	
		-4.34448561E+04	-1.73685774E+01	2.22664682E+00		3.28125204E-02	-5.92797021E-05		3	
		5.02331280E-08	-1.62599019E-11	-4.21538019E+04		1.51239428E+01	-4.04636521E+04		4	
Fe	J 3/78FE	1.	0.	0.	0.G	200.000	6000.000	55.84700	1	Chase (1985)
		3.26197970E+00	-1.05582533E-03	5.92906998E-07		-1.07189455E-10	7.48064402E-15		2	
		4.90969873E+04	3.52443894E+00	1.70744428E+00		1.06339224E-02	-2.76118171E-05		3	
		2.80917854E-08	-1.01219824E-11	4.91843725E+04		9.80811099E+00	4.99728787E+04		4	
Fe+	J 6/84FE	1.E	-1.	0.	0.G	298.150	6000.000	55.84645	1	Chase (1985)
		3.33602399E+00	-2.72549262E-04	8.05440344E-09		1.51229089E-11	-1.43376595E-15		2	
		1.41036455E+05	2.86476964E+00	2.76418106E+00		2.86948238E-03	-7.61235651E-06		3	
		8.18183334E-09	-3.11792199E-12	1.41159039E+05		5.53997977E+00	1.42058161E+05		4	
Fe-	J 6/84FE	1.E	1.	0.	0.G	298.150	6000.000	55.84755	1	Chase (1985)
		3.36310586E+00	-8.29375042E-04	3.12426241E-07		-5.20068355E-11	3.17875241E-15		2	
		4.63564307E+04	2.76802425E+00	1.52174510E+00		9.79673193E-03	-2.11078670E-05		3	
		1.84820903E-08	-5.89537134E-12	4.65710215E+04		1.08683385E+01	4.73074180E+04		4	
FeC505	J 3/78FE	1.C	5.0	5.	0.G	300.000	5000.000	195.89900	1	Chase (1985)
		2.11640210E+01	1.03331030E-02	-4.33109360E-06		8.20474970E-10	-5.77738740E-14		2	
		-9.48889340E+04	-7.20736520E+01	6.60654600E+00		7.50421290E-02	-1.22012750E-04		3	
		1.00553780E-07	-3.22609730E-11	-9.19514380E+04		-2.57600621E+00	-8.75408014E+04		4	
FeCl	J 6/65FE	1.CL	1.	0.	0.G	300.000	5000.000	91.29970	1	Chase (1985)
		4.69406690E+00	1.16040780E-04	-2.08401750E-08		1.76265560E-12	5.23138140E-16		2	
		2.87903440E+04	4.19355506E+00	3.78858260E+00		4.36780110E-03	-6.69223280E-06		3	
		4.17074540E-09	-8.46867730E-13	2.89200970E+04		8.35336756E+00	3.01925149E+04		4	
FeCl2	J12/70FE	1.CL	2.	0.	0.G	300.000	5000.000	126.75240	1	Chase (1985)
		6.94926010E+00	5.33716410E-04	7.02212070E-08		-6.14754900E-11	6.79331430E-15		2	
		-1.90458320E+04	-3.75951441E+00	5.45575050E+00		7.96329270E-03	-1.25939640E-05		3	
		8.99767340E-09	-2.32423630E-12	-1.88442970E+04		3.02284219E+00	-1.69583047E+04		4	
FeCl3	J 6/65FE	1.CL	3.	0.	0.G	300.000	5000.000	162.20510	1	Chase (1985)
		9.77711060E+00	2.44213620E-04	-1.03139940E-07		1.92074260E-11	-1.31792990E-15		2	
		-3.34395700E+04	-1.45491463E+01	7.56148730E+00		9.73382490E-03	-1.55433050E-05		3	
		1.11863680E-08	-3.00229980E-12	-3.30136240E+04		-3.98583203E+00	-3.04431637E+04		4	
FeO	J 9/66FE	1.0	1.	0.	0.G	300.000	5000.000	71.84640	1	Chase (1985)
		4.20498170E+00	2.68384520E-04	-8.94267360E-08		3.18559110E-11	-3.39225430E-15		2	
		2.88291700E+04	4.83043159E+00	2.82452560E+00		4.30492070E-03	-4.10847810E-06		3	
		1.32011890E-09	7.13162170E-14	2.91940350E+04		1.18911760E+01	3.01938519E+04		4	
Fe(OH)2	J12/66FE	1.0	2.H	2.	0.G	200.000	6000.000	89.86168	1	Chase (1985)
		8.96262012E+00	4.20137342E-03	-1.61017443E-06		2.68347076E-10	-1.63497305E-14		2	
		-4.27994358E+04	-1.86912367E+01	-1.67667734E+00		6.16931464E-02	-1.20738995E-04		3	
		1.09814026E-07	-3.72856831E-11	-4.11289708E+04		2.96771710E+01	-3.97541166E+04		4	
Fe2CL4	J12/70FE	2.CL	4.	0.	0.G	300.000	5000.000	253.50480	1	Chase (1985)
		1.53575000E+01	6.42078610E-04	2.08177300E-08		-5.15805590E-11	6.06734950E-15		2	
		-5.65100370E+04	-3.18965871E+01	1.27382420E+01		1.32355580E-02	-2.16418730E-05		3	
		1.59936670E-08	-4.35070970E-12	-5.61065790E+04		-1.98247491E+01	-5.18820452E+04		4	
Fe2CL6	J 6/65FE	2.CL	6.	0.	0.G	200.000	6000.000	324.41020	1	Chase (1985)
		2.15645031E+01	4.62349015E-04	-1.84952078E-07		3.20143043E-11	-2.01002737E-15		2	
		-8.52432375E+04	-5.86538185E+01	1.42211808E+01		4.35485968E-02	-9.60390188E-05		3	
		9.37463081E-08	-3.36051626E-11	-8.41996265E+04		-2.59244694E+01	-7.87030865E+04		4	
H	L 5/93H	1.	0.	0.	0.G	200.000	6000.000	1.00794	1	Moore, C.E. (1972)
		2.50000286E+00	-5.65334214E-09	3.63251723E-12		-9.19949720E-16	7.95260746E-20		2	Herzberg (1970)
		2.54736589E+04	-4.46698494E-01	2.50000000E+00		0.00000000E+00	0.00000000E+00		3	
		0.00000000E+00	0.00000000E+00	2.54736599E+04		-4.46682853E-01	2.62190349E+04		4	
H+	L 7/88H	1.E	-1.	0.	0.G	298.150	6000.000	1.00739	1	Moore, C.E. (1972)
		2.50000000E+00	0.00000000E+00	0.00000000E+00		0.00000000E+00	0.00000000E+00		2	
		1.84021428E+05	-1.14064664E+00	2.50000000E+00		0.00000000E+00	0.00000000E+00		3	
		0.00000000E+00	0.00000000E+00	1.84021428E+05		-1.14064664E+00	1.84766803E+05		4	
H-	L 7/88H	1.E	1.	0.	0.G	298.150	6000.000	1.00849	1	Chase (1985)
		2.50000000E+00	0.00000000E+00	0.00000000E+00		0.00000000E+00	0.00000000E+00		2	
		1.59761670E+04	-1.13901387E+00	2.50000000E+00		0.00000000E+00	0.00000000E+00		3	
		0.00000000E+00	0.00000000E+00	1.59761670E+04		-1.13901387E+00	1.67215420E+04		4	
HALO	J 3/64H	1.AL	1.0	1.	0.G	200.000	6000.000	43.98888	1	Chase (1985)
		5.09075339E+00	2.42514117E-03	-9.39932946E-07		1.59391004E-10	-9.86747317E-15		2	
		2.05009459E+03	-4.61450791E+00	3.29221159E+00		-2.68200399E-03	2.86841292E-05		3	
		-3.79708866E-08	1.54020350E-11	2.97771050E+03		6.96160970E+00	4.02573333E+03		4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

HBO	J12/75H 1.B 1.0 1. 0.G	300.000 5000.000	27.81834	1	Chase (1985)
	3.74851810E+00 3.661086590E-03-1.46354090E-06	2.65199030E-10-1.78342750E-14		2	
	-2.52257980E+04 1.74647757E+00 2.21431060E+00	9.37185130E-03-1.07110740E-05		3	
	7.67697740E-09-2.35863710E-12-2.48492460E+04	9.37201677E+00-2.38530740E+04		4	
HBO+	J12/75H 1.B 1.0 1.E -1.G	300.000 5000.000	27.81779	1	Chase (1985)
	3.94750800E+00 3.43154360E-03-1.27870840E-06	2.21806040E-10-1.47571920E-14		2	
	1.41359980E+05 1.99889589E+00 2.25442830E+00	8.03018720E-03-5.97490720E-06		3	
	2.42819500E-09-4.30511240E-13 1.41860690E+05	1.08122075E+01 1.42831572E+05		4	
HBO-	J12/75H 1.B 1.0 1.E 1.G	300.000 5000.000	27.81889	1	Chase (1985)
	4.08692650E+00 2.97847560E-03-1.23871070E-06	2.46933350E-10-1.84550480E-14		2	
	-3.09300260E+04 2.78014255E+00 3.97079550E+00	-2.21001070E-03 1.45354130E-05		3	
	-1.56389250E-08 5.39789660E-12-3.05894990E+04	4.82496975E+00-2.94037719E+04		4	
HBO2	J12/64H 1.B 1.0 2. 0.G	300.000 5000.000	43.81774	1	Chase (1985)
	4.73895190E+00 4.77187710E-03-1.80634940E-06	3.14928890E-10-2.07383120E-14		2	
	-6.92488380E+04 9.86391767E-03 2.87078660E+00	7.88626440E-03-4.07368420E-07		3	
	-4.70590220E-09 2.35488930E-12-6.86241110E+04	1.01805186E+01-6.74294533E+04		4	
HBS	J12/75H 1.B 1.S 1. 0.G	300.000 5000.000	43.88494	1	Chase (1985)
	4.44122650E+00 2.99798250E-03-1.19382300E-06	2.11958320E-10-1.34660970E-14		2	
	4.44029750E+03-6.46783174E-01 1.55959030E+00	1.39668380E-02-1.79885950E-05		3	
	1.23151410E-08-3.40909570E-12 5.08909360E+03	1.35018986E+01 6.03866710E+03		4	
HBS+	L12/75H 1.B 1.S 1.E -1.G	300.000 5000.000	43.88439	1	Chase (1985)
	4.70975420E+00 2.81870360E-03-1.16330880E-06	2.17688390E-10-1.51086860E-14		2	
	1.34191390E+05-8.37472195E-01 2.25115610E+00	1.20771680E-02-1.53221560E-05		3	
	1.04940900E-08-2.93252920E-12 1.34754760E+05	1.12707699E+01 1.35846718E+05		4	
HBr	L12/85H 1.BR 1. 0.G	300.000 5000.000	80.91194	1	Chase (1985)
	2.79358040E+00 1.56559250E-03-5.61710640E-07	9.57831420E-11-6.18139900E-15		2	
	-5.23383840E+03 7.65553403E+00 3.60566900E+00	-5.95294310E-04 6.50295680E-07		3	
	9.37812190E-10-7.11418520E-13-5.43894550E+03	3.49634113E+00-4.38311167E+03		4	
HCN	L12/85H 1.C 1.N 1. 0.G	200.000 6000.000	27.02568	1	Gurvich (1979)
	3.80231733E+00 3.14630009E-03-1.06315698E-06	1.66185395E-10-9.79891789E-15		2	
	1.49104829E+04 1.57503584E+00 2.25901123E+00	1.00510591E-02-1.33514911E-05		3	
	1.00920882E-08-3.00882048E-12 1.52158495E+04	8.91634590E+00 1.62366754E+04		4	
HCO	L12/89H 1.C 1.0 1. 0.G	300.000 6000.000	29.01834	1	Jacox (1988)
	3.64896209E+00 3.08090819E-03-1.12429876E-06	1.86308085E-10-1.13951828E-14		2	Gurvich (1979)
	3.71209048E+03 5.06147406E+00 4.22118584E+00	-3.24392532E-03 1.37799446E-05		3	
	-1.33144093E-08 4.33768865E-12 3.83956496E+03	3.39437243E+00 5.05141013E+03		4	
HCO+	J 6/77H 1.D 1.0 1.E -1.G	300.000 5000.000	29.01779	1	Chase (1985)
	3.74118800E+00 3.34415170E-03-1.23971210E-06	2.11893880E-10-1.37041500E-14		2	
	9.88840780E+04 2.07861350E+00 2.47397360E+00	8.67155900E-03-1.00315000E-05		3	
	6.71705270E-09-1.78726740E-12 9.91466080E+04	8.17571180E+00 1.00193449E+05		4	
HCCN	TPIS91H 1.C 2.N 1. 0.G	300.000 6000.000	39.03668	1	Gurvich (1991)
	6.56314169E+00 3.48040967E-03-1.24603080E-06	2.00764486E-10-1.20044547E-14		2	
	7.11347086E+04-9.86556141E+00 1.87184307E+00	2.60611314E-02-4.62723965E-05		3	
	4.18609731E-08-1.45352705E-11 7.20340360E+04	1.22173228E+01 7.34175107E+04		4	
HCL	J 9/64H 1.CL 1. 0.G	300.000 5000.000	36.46064	1	Chase (1985)
	2.76658840E+00 1.43818830E-03-4.69930000E-07	7.34994080E-11-4.37311060E-15		2	
	-1.19174680E+04 6.47150629E+00 3.52481710E+00	2.99848620E-05-8.62218910E-07		3	
	2.09797210E-09-9.86581910E-13-1.21505090E+04	2.40892359E+00-1.11021897E+04		4	
HD	J 6/77H 1.D 1. 0.G	300.000 5000.000	3.02204	1	Chase (1985)
	2.84645440E+00 1.06319610E-03-2.44338050E-07	2.90508340E-11-1.16215310E-15		2	
	-7.61824650E+02 9.80143004E-01 3.43254770E+00	6.51070280E-04-1.93326660E-06		3	
	2.41017360E-09-8.67323970E-13-1.00092720E+03	-2.38902346E+00 3.86979786E+01		4	
HD+	J 9/77H 1.D 1.E -1. 0.G	300.000 5000.000	3.02149	1	Chase (1985)
	3.29097640E+00 1.15515290E-03-3.44494630E-07	7.67226820E-11-8.09481330E-15		2	
	1.78942790E+05-4.78608910E-01 3.88271360E+00	-3.07793810E-03 8.19144730E-06		3	
	-6.81194990E-09 1.98598980E-12 1.78945630E+05	-2.80336148E+00 1.80026303E+05		4	
HD-	J 9/77H 1.D 1.E 1. 0.G	300.000 5000.000	3.02259	1	Chase (1985)
	3.49399490E+00 1.24486670E-03-4.72887140E-07	9.10596370E-11-6.48629260E-15		2	
	2.71577340E+04-2.23110490E+00 3.64288770E+00	-2.12912890E-03 8.92841230E-06		3	
	-9.34812040E-09 3.25649710E-12 2.72692710E+04	-2.25562690E+00 2.83227106E+04		4	
HDO	J 6/77H 1.D 1.0 1. 0.G	300.000 5000.000	19.02144	1	Chase (1985)
	2.66726880E+00 3.55752090E-03-1.20260030E-06	1.96072090E-10-1.23526200E-14		2	
	-3.03728690E+04 7.98359910E+00 4.07544220E+00	-1.38202850E-03 5.70255340E-06		3	
	-4.41636460E-09 1.22630620E-12-3.07076080E+04	9.71067969E-01-2.95117089E+04		4	
HF	J 6/77H 1.F 1. 0.G	300.000 5000.000	20.00634	1	Chase (1985)
	2.99191100E+00 7.14894750E-04-6.86309730E-08	-1.16171300E-11 1.94123750E-15		2	
	-3.36213640E+04 3.82549503E+00 3.43799860E+00	5.35715980E-04-1.52296550E-06		3	
	1.75644910E-09-5.78699400E-13-3.38189720E+04	1.20618153E+00-3.27803794E+04		4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

HI	J 9/61H 1.I 1. 0. 0.G	300.000 5000.000 127.91241	1	Chase (1985)
2.91040080E+00	1.56881880E-03-5.92276320E-07	1.05370940E-10-7.03751160E-15	2	
2.25086590E+03	7.86447051E+00 3.69637220E+00-1.42247550E-03	3.01311880E-06	3	
-1.26664030E-09	-3.50987650E-14 2.10735810E+03	4.08812111E+00 3.17030779E+03	4	
HNC	L11/92H 1.N 1.C 1. 0.G	200.000 6000.000 27.02568	1	Jacox (1988)
4.22248103E+00	2.59458278E-03-8.58480969E-07	1.30745002E-10-7.50339765E-15	2	Gurvich (1991)
2.20127593E+04	-7.79447358E-02 2.30186735E+00	1.54157529E-02-3.13262156E-05	3	
3.08816551E-08	-1.11912353E-11 2.22277183E+04	8.14751135E+00 2.33781812E+04	4	
HNCO	J12/70H 1.N 1.C 1.0 1.G	200.000 6000.000 43.02508	1	Chase (1985)
5.29404664E+00	4.03039650E-03-1.41290348E-06	2.24428234E-10-1.32859380E-14	2	
-1.41653759E+04	-3.08763130E+00 2.24322454E+00	1.44986380E-02-1.52609054E-05	3	
8.36364453E-09	-1.72191967E-12-1.34257512E+04	1.2165469E+01-1.22316288E+04	4	
HNO	L12/89H 1.N 1.0 1. 0.G	200.000 6000.000 31.01408	1	Jacox (1988)
3.16554762E+00	3.00005132E-03-3.94350282E-07-3.85787491E-11	7.08091931E-15	2	Gurvich (1989)
1.11944169E+04	7.64764695E+00 4.53525882E+00-5.68546910E-03	1.85199976E-05	3	
-1.71883674E-08	5.55833090E-12 1.10398805E+04	1.74314734E+00 1.22716461E+04	4	
HNO3	TPIS89H 1.N 1.0 2. 0.G	200.000 6000.000 47.01348	1	Gurvich (1989)
5.79182658E+00	3.65162663E-03-1.29293451E-06	2.06892932E-10-1.23154855E-14	2	
-1.15655526E+04	-4.05538525E+00 3.21415925E+00	8.12777920E-03 1.65999516E-06	3	
-9.52815563E-09	4.87131816E-12-1.07532360E+04	9.82200021E+00-9.43554377E+03	4	
HNO3	L 4/90H 1.N 1.0 3. 0.G	200.000 6000.000 63.01288	1	Gurvich (1989)
8.00379234E+00	4.49837533E-03-1.73648758E-06	2.93685555E-10-1.81478673E-14	2	
-1.92563022E+04	-1.60985546E+01 1.74492946E+00	1.88040888E-02-8.15963597E-06	3	
-5.78584532E-09	4.43768803E-12-1.73805296E+04	1.69545524E+01-1.61059245E+04	4	
HOCL	J 3/70H 1.0 1.CL 1. 0.G	300.000 5000.000 52.46004	1	Chase (1985)
4.22501050E+00	2.31826750E-03-8.38423800E-07	1.41763980E-10-8.74699940E-15	2	
-1.03686570E+04	3.59007556E+00 2.93205370E+00	6.93777440E-03-6.71918450E-06	3	
3.15688660E-09	-4.69658800E-13-1.00867990E+04	9.95256576E+00-8.95759158E+03	4	
HOF	J12/72H 1.0 1.F 1. 0.G	300.000 5000.000 36.00574	1	Chase (1985)
4.04643360E+00	2.44862830E-03-8.62835530E-07	1.42099040E-10-8.93569150E-15	2	
-1.32090670E+04	3.34993279E+00 3.23109290E+00	3.73898570E-03 6.30097620E-07	3	
-3.62150020E-09	1.78671330E-12-1.29547790E+04	7.75090349E+00-1.18259888E+04	4	
H02	L 5/89H 1.0 2. 0. 0.G	200.000 6000.000 33.00674	1	Jacox (1988)
4.17228728E+00	1.88117647E-03-3.46277408E-07	1.94657853E-11 1.76254294E-16	2	Hills (1984)
6.18102964E+01	2.95767746E+00 4.30179801E+00-4.74912051E-03	2.11582891E-05	3	
-2.42763894E-08	9.29225124E-12 2.94808040E+02	3.71666245E+00 1.50965000E+03	4	
HS03F	J 6/72H 1.S 1.0 3.F 1.G	300.000 5000.000 100.07054	1	Chase (1985)
1.03641900E+01	5.38611640E-03-2.12315720E-06	3.82083430E-10-2.58070900E-14	2	
-9.43983340E+04	-2.60055034E+01 2.11924450E+00	3.15457100E-02-3.13178880E-05	3	
1.24615070E-08	-8.25146300E-13-9.23615960E+04	1.55596956E+01-9.05800898E+04	4	
H2	TPIS78H 2. 0. 0. 0.G	200.000 6000.000 2.01588	1	McBride (1993)
2.93286579E+00	8.26607967E-04-1.46402335E-07	1.54100359E-11-6.88804432E-16	2	
-8.13065597E+02	-1.02432887E+00 2.34433112E+00	7.98052075E-03-1.94781510E-05	3	
2.01572094E-08	-7.37611761E-12-9.17935173E+02	6.83010238E-01 0.00000000E+00	4	
H2+	TPIS78H 2.E -1. 0. 0.G	298.150 6000.000 2.01533	1	Gurvich (1978)
3.44204765E+00	5.99083239E-04 6.69133685E-08-3.43574373E-11	1.97626599E-15	2	
1.78649686E+05	-2.79499055E+00 3.77256072E+00-1.95746589E-03	4.54812047E-06	3	
-2.82152141E-09	5.33969209E-13 1.78694104E+05-3.96609192E+00	1.79766749E+05	4	
H2-	J 9/77H 2.E 1. 0. 0.G	300.000 5000.000 2.01643	1	Chase (1985)
3.29210760E+00	1.43586260E-03-5.47055930E-07	1.04338830E-10-7.38279980E-15	2	
2.72161810E+04	-1.98277664E+00 3.83801420E+00-3.17947680E-03	1.00430110E-05	3	
-9.55181160E-09	3.12813300E-12 2.72348560E+04-3.99862254E+00	2.83091721E+04	4	
HCHO, formaldehy	L 8/88H 2.C 1.0 1. 0.G	200.000 6000.000 30.02628	1	Gurvich (1978)
3.16952654E+00	6.19320583E-03-2.25056377E-06	3.65975680E-10-2.20149470E-14	2	TRC(6/87)w-5030
-1.44784444E+04	6.04209449E+00 4.79372315E+00-9.90833369E-03	3.73220008E-05	3	
-3.79285261E-08	1.31772652E-11-1.43089567E+04	6.02812900E-01-1.30590979E+04	4	
HCOOH	L 8/88H 2.C 1.0 2. 0.G	200.000 6000.000 46.02568	1	Chao (1978)
5.69579404E+00	7.72237361E-03-3.18037808E-06	5.57949466E-10-3.52618226E-14	2	
-4.81599723E+04	-6.01680080E+00 3.23262453E+00	2.81129582E-03 2.44034975E-05	3	
-3.17501066E-08	1.20631660E-11-4.67785606E+04	9.86205647E+00-4.55312460E+04	4	
H2F2	J 6/77H 2.F 2. 0. 0.G	300.000 5000.000 40.01269	1	Chase (1985)
4.91603890E+00	3.98576540E-03-1.35587070E-06	2.19309210E-10-1.37160050E-14	2	
-7.05947770E+04	-6.29605759E-01 2.67633120E+00	1.22979910E-02-1.24559650E-05	3	
6.36025230E-09	-1.12708230E-12-7.01237150E+04	1.03109299E+01-6.88771705E+04	4	
H2O	L 8/89H 2.0 1. 0. 0.G	200.000 6000.000 18.01528	1	Cox (1989)
2.67703787E+00	2.97318329E-03-7.73769690E-07	9.44336689E-11-4.26900959E-15	2	Haar (1984)
-2.98858938E+04	6.88255571E+00 4.19864056E+00-2.03643410E-03	6.52040211E-06	3	TRC(10/88)tuw-25
-5.48797062E-09	1.77197817E-12-3.02937267E+04	8.49032208E-01-2.90848168E+04	4	Woolley (1987)
H2O+	TPIS89H 2.0 1.E -1. 0.G	298.150 6000.000 18.01473	1	Gurvich (1989)
3.31570460E+00	2.10648728E-03-3.76341449E-07	3.47525900E-11-1.70335651E-15	2	
1.16991617E+05	4.03220429E+00 4.02465853E+00-1.08850969E-03	5.13575400E-06	3	
-4.40026592E-09	1.40726274E-12 1.16869757E+05	6.99971245E-01 1.18058671E+05	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

H2O2	L 2/93H 2.0 2. 0. 0.G	200.000 6000.000	34.01468	1	Gurvich (1978)
	4.57333537E+00 4.04984070E-03-1.29479479E-06	1.97281710E-10-1.13402846E-14		2	TRC(6/88)w-31
	-1.80548121E+04 7.04278488E-01 4.27611269E+00-5.42822417E-04	1.67335701E-05		3	
	-2.15770813E-08 8.62454363E-12-1.77542989E+03	3.43505074E+00-1.63942313E+04		4	
H2S	J 6/77H 2.S 1. 0. 0.G	300.000 5000.000	34.08188	1	Chase (1985)
	2.74521990E+00 4.04346070E-03-1.53845100E-06	2.75202490E-10-1.85920950E-14		2	
	-3.41994440E+03 8.05467450E+00 3.93234760E+00-5.02609050E-04	4.59284730E-06		3	
	-3.18072140E-09 6.64975610E-13-3.65053590E+03	2.31579050E+00-2.46584037E+03		4	
H2SO4	J 9/77H 2.S 1.0 4. 0.G	300.000 5000.000	98.07948	1	Chase (1985)
	1.08895320E+01 7.50041780E-03-2.92104780E-06	5.25955130E-10-3.57894150E-14		2	
	-9.24713640E+04-2.94047820E+01 1.07256800E+00	4.37692260E-02-5.53332430E-05		3	
	3.55182530E-08-9.06773580E-11-9.02597850E+04	1.89395820E+01-8.84175226E+04		4	
H3B306	J12/64H 3.B 3.0 6. 0.G	300.000 5000.000	131.45322	1	Chase (1985)
	2.01535790E+01 1.30162860E-02-5.06696190E-06	9.03082530E-10-6.05324100E-14		2	
	-2.81040920E+05-7.96763324E+01-2.27051160E+00	8.70248940E-02-9.15877140E-05		3	
	3.94453920E-08-3.66660350E-12-2.75695230E+05	3.25296526E+01-2.73237150E+05		4	
H3F3	J 6/77H 3.F 3. 0. 0.G	300.000 5000.000	60.01903	1	Chase (1985)
	8.53073730E+00 6.71659390E-03-2.54567000E-06	4.47809290E-10-2.98942750E-14		2	
	-1.08717940E+05-1.62112010E+01 2.07178640E+00	3.72793820E-02-5.81502920E-05		3	
	4.59061980E-08-1.3987790E+01-1.07578590E+05	1.39817790E+01-1.05733574E+05		4	
H3O+	TPIS89H 3.0 1.E -1. 0.G	298.150 6000.000	19.02267	1	Gurvich (1989)
	2.49647716E+00 5.72844920E-03-1.83953281E-06	2.73577439E-10-1.54093985E-14		2	
	7.09729113E+04 7.45850768E+00 3.79295270E+00-9.10854000E-04	1.16363549E-05		3	
	-1.21364887E-08 4.26159663E-12 7.07512401E+04	1.47156845E+00 7.19224584E+04		4	
(HCOOH)2	L 8/88H 4.C 2.0 4. 0.G	200.000 6000.000	92.05136	1	Chao (1978)
	1.16290939E+01 1.48350345E-02-5.39529341E-06	8.78326929E-10-5.28913475E-14		2	
	-1.03759144E+05-3.25539738E+01 5.12766711E+00	1.68445826E-02 2.91126977E-05		3	
	-5.07453596E-08 2.15546828E-11-1.01180748E+05	4.89874978E+00-9.87361420E+04		4	
H4F4	J 6/77H 4.F 4. 0. 0.G	200.000 6000.000	80.02537	1	Chase (1985)
	1.25199698E+01 8.00005980E-03-2.76976303E-06	4.35659635E-10-2.55951507E-14		2	
	-1.46732646E+05-3.23317811E+01 3.79006866E+00	4.68050125E-02-6.97456832E-05		3	
	5.26555513E-08-1.53446182E-11-1.45071082E+05	9.07837207E+00-1.42380123E+05		4	
H5F5	J 6/77H 5.F 5. 0. 0.G	300.000 5000.000	100.03172	1	Chase (1985)
	1.55441350E+01 1.12023770E-02-4.24631630E-06	7.47031830E-10-4.98723600E-14		2	
	-1.84546860E+05-4.32813901E+01 4.68417500E+00	6.26053080E-02-9.77989800E-05		3	
	7.72573220E-08-2.35504610E-11-1.82631590E+05	7.48167503E+00-1.79174885E+05		4	
H6F6	J 6/77H 6.F 6. 0. 0.G	300.000 5000.000	120.03806	1	Chase (1985)
	1.90509240E+01 1.34450930E-02-5.09652930E-06	8.96615810E-10-5.98590720E-14		2	
	-2.23981100E+05-5.70591470E+01 5.99633170E+00	7.52257730E-02-1.17517160E-04		3	
	9.28217600E-08-2.82904570E-11-2.21678470E+05	3.96435298E+00-2.17415294E+05		4	
H7F7	J 6/77H 7.F 7. 0. 0.G	300.000 5000.000	140.04440	1	Chase (1985)
	2.25575360E+01 1.56881520E-02-5.94695760E-06	1.04625320E-09-6.98503510E-14		2	
	-2.60642480E+05-7.09521060E+01 7.30097910E+00	8.78997660E-02-1.37369080E-04		3	
	1.08526180E-07-3.30827150E-11-2.57951770E+05	3.62476052E-01-2.52882912E+05		4	
He	L10/90HE 1. 0. 0. 0.G	200.000 6000.000	4.00260	1	McBride (1993)
	2.50000000E+00 0.00000000E+00 0.00000000E+00	0.00000000E+00 0.00000000E+00		2	
	-7.45375000E+02 9.28723974E-01 2.50000000E+00	0.00000000E+00 0.00000000E+00		3	
	0.00000000E+00 0.00000000E+00-7.45375000E+02	9.28723974E-01 0.00000000E+00		4	
He+	L10/92HE 1.E -1. 0. 0.G	298.150 6000.000	4.00205	1	Moore, C.E. (1971)
	2.50000000E+00 0.00000000E+00 0.00000000E+00	0.00000000E+00 0.00000000E+00		2	
	2.85315086E+05 1.62166556E+00 2.50000000E+00	0.00000000E+00 0.00000000E+00		3	
	0.00000000E+00 0.00000000E+00 2.85315086E+05	1.62166556E+00 2.86060462E+05		4	
Hg	J 9/84HG 1. 0. 0. 0.G	200.000 6000.000	200.59000	1	Chase (1985)
	2.50953611E+00-1.98827279E-05 1.38910849E-08-3.93542920E-12	3.90959219E-16		2	
	6.63358064E+03 6.74847966E+00 2.50000000E+00	0.00000000E+00 0.00000000E+00		3	
	0.00000000E+00 0.00000000E+00 6.63690008E+03	6.80020154E+00 7.38227508E+03		4	
HgBr2	J 3/62HG 1.BR 2. 0. 0.G	300.000 5000.000	360.39800	1	Chase (1985)
	7.42269900E+00 7.86876630E-05-2.99103070E-08	4.84982280E-12-2.79309330E-16		2	
	-1.25220200E+04-3.86733971E+00 6.71889210E+00	2.57827430E-03-2.91802370E-06		3	
	9.58184420E-10 1.38723070E-13-1.23714340E+04-4.13670823E-01	1.02774216E+04		4	
I	J 6/82I 1. 0. 0. 0.G	200.000 6000.000	126.90447	1	Chase (1985)
	2.61667712E+00-2.66010320E-04 1.86060150E-07-3.81927472E-11	2.52036053E-15		2	
	1.20582790E+04 6.87896653E+00 2.50041683E+00-4.48046831E-06	1.69962536E-08		3	
	-2.67708030E-11 1.48927452E-14 1.20947990E+04	7.49816581E+00 1.28402035E+04		4	
I2	TPIS89I 2. 0. 0. 0.G	200.000 6000.000	253.80894	1	Gurvich (1985)
	4.56588102E+00-3.42229361E-04 4.84410977E-07-1.42632157E-10	1.14951099E-14		2	
	6.15085432E+03 5.41958286E+00 3.87234634E+00	3.64265414E-03-7.95349191E-06		3	
	7.82149773E-09-2.80608071E-12 6.24706424E+03	8.49410267E+00 7.50737217E+03		4	
K	L 4/93K 1. 0. 0. 0.G	200.000 6000.000	39.09830	1	Chase (1985)
	2.26026721E+00 5.62341179E-04-4.48551838E-07	1.36243498E-10-1.02926268E-14		2	Corliss (1979)
	1.00348812E+04 6.31568201E+00 2.50000712E+00-7.25113166E-08	2.59068481E-10		3	
	-3.79460911E-13 1.93210641E-16 9.95880307E+03	5.04054517E+00 1.07041786E+04		4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

K+	J12/83K	1.E	-1.	0.	0.G	298.150	6000.000	39.09775	1	Chase (1985)
						0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
						0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
						0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
KB02	J 6/71K	1.B	1.0	2.	0.G	300.000	5000.000	81.90810	1	Chase (1985)
						1.98518850E-10	-1.37041680E-14		2	
						1.21692020E-02	-1.18042180E-05		3	
						7.57324310E+00	-8.10696887E+04		4	
KCN	J 3/66K	1.C	1.N	1.	0.G	300.000	5000.000	65.11604	1	Chase (1985)
						1.31992470E-10	-9.19083230E-15		2	
						5.52659560E-03	-9.11571210E-06		3	
						1.86346868E-01	9.56151829E+03		4	
KCL	J 3/66K	1.CL	1.	0.	0.G	300.000	5000.000	74.55100	1	Chase (1985)
						9.26482420E-13	-1.04079170E-17		2	
						2.10891690E-03	-3.18365300E-06		3	
						5.51200445E+00	-2.58205302E+04		4	
KF	J 6/69K	1.F	1.	0.	0.G	300.000	5000.000	58.09670	1	Chase (1985)
						5.88395870E-12	-3.46940460E-16		2	
						3.78684220E-03	-5.58649950E-06		3	
						6.31338537E+00	-3.93019270E+04		4	
KF2-	J12/68K	1.F	2.E	1.	0.G	300.000	5000.000	77.09565	1	Chase (1985)
						2.14076850E-11	-1.48270700E-15		2	
						8.63837180E-03	-1.34036730E-05		3	
						4.77224810E-01	-8.35354910E+04		4	
KH	J 3/63K	1.H	1.	0.	0.G	300.000	5000.000	40.10624	1	Chase (1985)
						5.26173000E-11	-3.78726830E-15		2	
						3.98710600E-03	-3.34105480E-06		3	
						6.72517899E+00	1.47948627E+04		4	
KO	J12/67K	1.0	1.	0.	0.G	300.000	5000.000	55.09770	1	Chase (1985)
						7.13083000E-12	-5.03696870E-16		2	
						3.12420170E-03	-4.80200390E-06		3	
						6.56692389E+00	8.55511701E+03		4	
KO-	J12/67K	1.0	1.E	1.	0.G	300.000	5000.000	55.09825	1	Chase (1985)
						7.55985110E-12	-5.34422750E-16		2	
						3.23764800E-03	-4.96905000E-06		3	
						5.31662592E+00	-1.66063485E+04		4	
KOH	J12/70K	1.0	1.H	1.	0.G	300.000	5000.000	56.10564	1	Chase (1985)
						4.45669930E-11	-2.08702790E-15		2	
						9.72179450E-03	-1.59888040E-05		3	
						2.93540136E+00	-2.79788313E+04		4	
KOH+	J12/71K	1.0	1.H	1.E	-1.G	300.000	5000.000	56.10509	1	Chase (1985)
						4.17279320E-11	-1.87939130E-15		2	
						8.46316250E-03	-1.42478550E-05		3	
						2.87334569E+00	5.98849275E+04		4	
K2	J12/83K	2.	0.	0.	0.G	200.000	6000.000	78.19660	1	Chase (1985)
						1.74220367E-10	9.70302874E-15		2	
						4.35676221E-04	3.26618741E-06		3	
						4.37318917E+00	1.48742534E+04		4	
K2C2N2	J 3/66K	2.C	2.N	2.	0.G	300.000	5000.000	130.23208	1	Chase (1985)
						2.61563960E-10	-1.82068650E-14		2	
						1.15163620E-02	-1.94765330E-05		3	
						-2.12679591E+01	-1.00610098E+03		4	
K2CL2	J 3/66K	2.CL	2.	0.	0.G	300.000	5000.000	149.10200	1	Chase (1985)
						9.9346140E-12	-7.27030090E-16		2	
						6.01540470E-03	-1.13039390E-05		3	
						-8.53754725E+00	-7.42866401E+04		4	
K2F2	J 6/69K	2.F	2.	0.	0.G	300.000	5000.000	116.19341	1	Chase (1985)
						1.63372270E-11	-1.12872560E-15		2	
						8.92408310E-03	-1.47198520E-05		3	
						-8.24238276E+00	-1.03765274E+05		4	
K2O2H2	J12/70K	2.0	2.H	2.	0.G	300.000	5000.000	112.21128	1	Chase (1985)
						3.18660660E-10	-2.01525080E-14		2	
						1.03007030E-02	-2.51732960E-07		3	
						-2.97285644E+00	-7.87554000E+04		4	
K2S04	J 6/78K	2.S	1.0	4.	0.G	300.000	5000.000	174.26020	1	Chase (1985)
						3.54972430E-10	-2.55587540E-14		2	
						4.87732370E-02	-6.84200800E-05		3	
						1.23448286E+01	-1.31594543E+05		4	
Kr	L10/90KR	1.	0.	0.	0.G	200.000	6000.000	83.80000	1	McBride (1993)
						0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
						0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
						0.00000000E+00	0.00000000E+00	0.00000000E+00	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

Kr+	L10/92KR 1.E -1. 0. 0.G	298.150	6000.000	83.79945	1	Moore, C.E. (1971)
	2.18968725E+00 4.63775689E-04-1.29507482E-07	1.31159688E-11-3.84977987E-16			2	
	1.62583110E+05 8.62427685E+00 2.48153546E+00	1.49864676E-04-4.15576590E-07			3	
	4.40237547E-10-1.19374746E-13 1.62460592E+05	6.95257995E+00 1.63204264E+05			4	
Li	J12/83LI 1. 0. 0.G	200.000	6000.000	6.94100	1	Chase (1985)
	2.50413107E+00 3.45604704E-05-6.44790018E-08	2.75752966E-11-1.78783935E-15			2	
	1.84074474E+04 2.40802074E+00 2.50000000E+00	0.00000000E+00 0.00000000E+00			3	
	0.00000000E+00 0.00000000E+00 1.84139020E+04	2.44762297E+00 1.91592770E+04			4	
Li+	J12/83LI 1.E -1. 0. 0.G	298.150	6000.000	6.94045	1	Chase (1985)
	2.50000000E+00 0.00000000E+00 0.00000000E+00	0.00000000E+00 0.00000000E+00			2	
	8.17271940E+04 1.75435723E+00 2.50000000E+00	0.00000000E+00 0.00000000E+00			3	
	0.00000000E+00 0.00000000E+00 8.17271940E+04	1.75435723E+00 8.24725690E+04			4	
LiAlF4	J12/79LI 1.AL 1.F 4. 0.G	300.000	5000.000	109.91615	1	Chase (1985)
	1.40377420E+01 2.24826420E-03-1.00100020E-06	1.96702490E-10-1.42088860E-14			2	
	-2.27627570E+05-4.23601480E+01 2.54034210E+00	5.19858810E-02-8.61880310E-05			3	
	7.41968160E-08-2.03670510E-11-2.25357400E+05	1.25719320E+01-2.22927352E+05			4	
LiB02	J 6/71LI 1.B 1.0 2. 0.G	300.000	5000.000	49.75080	1	Chase (1985)
	7.42660960E+00 2.70437570E-03-1.12847410E-06	2.10623980E-10-1.45849090E-14			2	
	-8.03702850E+04-1.06007918E+01 3.74354740E+00	1.44752570E-02-1.52096880E-05			3	
	4.32443970E-10 3.70556670E-13-4.19872650E+04	8.01202564E+00-7.77985412E+04			4	
LiCl	J 6/62LI 1.CL 1. 0. 0.G	300.000	5000.000	42.39370	1	Chase (1985)
	4.27121430E+00 3.14002910E-04-1.01231300E-07	1.84518530E-11-1.23987310E-15			2	
	-2.48844420E+04 1.04172158E+00 2.99069060E+00	5.03386420E-03-6.56719790E-06			3	
	3.80501600E-09-7.61174550E-12-2.46031820E+04	7.32818448E+00-2.35386288E+04			4	
LiF	J12/68LI 1.F 1. 0. 0.G	300.000	5000.000	25.93940	1	Chase (1985)
	4.04302480E+00 5.70410540E-04-2.14541440E-07	4.06090130E-11-2.83579200E-15			2	
	-4.22993180E+04 6.97695282E-01 2.85288690E+00	3.95327810E-03-3.17249850E-06			3	
	4.32443970E-10 3.70556670E-13-4.19872650E+04	6.79102868E+00-4.09879652E+04			4	
LiF0	J 9/65LI 1.F 1.0 1. 0.G	300.000	5000.000	41.93880	1	Chase (1985)
	5.99261090E+00 1.11392000E-03-4.78884930E-07	9.10683320E-11-6.38491230E-15			2	
	-1.31009890E+04-5.33660340E+00 2.50017900E+00	1.26617170E-02-1.41575890E-05			3	
	6.45063740E-09-7.42614310E-13-1.22655340E+04	1.21440181E+01-1.10700161E+04			4	
LiF2-	J12/68LI 1.F 2.E 1. 0.G	300.000	5000.000	44.93835	1	Chase (1985)
	6.34485900E+00 1.25712720E-03-5.35228300E-07	1.01130250E-10-7.05817440E-15			2	
	-8.76678900E+04-9.29840302E+00 3.47181360E+00	1.06367130E-02-1.17776460E-05			3	
	5.67654870E-09-8.46598400E-13-8.69631110E+04	5.14092778E+00-8.55484576E+04			4	
LiH	J 9/67LI 1.H 1. 0. 0.G	300.000	5000.000	7.94894	1	Chase (1985)
	3.58842970E+00 1.07276910E-03-4.01945880E-07	7.38285570E-11-4.92696440E-15			2	
	1.57176250E+04-3.75038965E-01 3.42094860E+00	6.80673660E-04 5.65273810E-06			3	
	-6.21803480E-09 2.15317550E-12 1.58849450E+04	1.06574194E+00 1.69133172E+04			4	
LiN	J12/66LI 1.N 1. 0. 0.G	300.000	5000.000	20.94774	1	Chase (1985)
	4.22580770E+00 3.96671870E-04-1.24939930E-07	2.31747590E-11-1.58519170E-15			2	
	3.89169520E+04 7.008851481E-01 2.88943000E+00	5.22125340E-03-6.59690210E-06			3	
	3.72889970E-09-7.23551430E-13 3.92163230E+04	7.28887145E+00 4.02586191E+04			4	
LiO	J 3/64LI 1.0 1. 0. 0.G	300.000	5000.000	22.94040	1	Chase (1985)
	4.18762050E+00 4.11865740E-04-1.45202960E-07	2.72530700E-11-1.88647750E-15			2	
	8.77952590E+03 1.23142599E+00 2.83890070E+00	5.15386260E-03-6.30823820E-06			3	
	3.41143850E-09-6.16313430E-13 9.08843140E+03	7.91311789E+00 1.01146405E+04			4	
LiO-	J12/67LI 1.0 1.E 1. 0.G	300.000	5000.000	22.94095	1	Chase (1985)
	4.18102170E+00 4.17850000E-04-1.50248450E-07	2.83977320E-11-1.97891810E-15			2	
	-9.38497020E+03-1.42392244E-01 2.85158660E+00	5.01698800E-03-5.95474750E-06			3	
	3.03994510E-09-4.78729690E-13-9.07780760E+03	6.45947076E+00-8.05144594E+03			4	
LiOH	J 6/71LI 1.0 1.H 1. 0.G	300.000	5000.000	23.94834	1	Chase (1985)
	5.50969570E+00 1.36854640E-03-3.94414690E-07	5.23321950E-11-2.59586760E-15			2	
	-2.98992310E+04-6.50701600E+00 3.34623000E+00	1.17872530E-02-1.82526570E-05			3	
	1.30856140E-08-3.43287420E-12-2.95646360E+04	3.46123330E+00-2.81800732E+04			4	
LiOH+	J12/71LI 1.0 1.H 1.E -1.G	300.000	5000.000	23.94779	1	Chase (1985)
	5.53292690E+00 1.37779310E-03-4.06593090E-07	5.55909100E-11-2.86046240E-15			2	
	9.18885790E+04-4.99359277E+00 3.63797390E+00	1.08971540E-02-1.72296700E-05			3	
	1.26679270E-08-3.41652590E-12 9.21611930E+04	3.63776083E+00 9.36013974E+04			4	
LiON	J 9/66LI 1.0 1.N 1. 0.G	300.000	5000.000	36.94714	1	Chase (1985)
	5.81234960E+00 1.28706260E-03-5.46677100E-07	1.03149870E-10-7.19304470E-15			2	
	1.96923020E+04-4.34470559E+00 3.67011640E+00	7.25681770E-03-5.86811460E-06			3	
	1.16283120E-09 4.27041220E-13 2.02717030E+04	6.68249511E+00 2.16391463E+04			4	
Li2	J12/83LI 2. 0. 0.G	200.000	6000.000	13.88200	1	Chase (1985)
	5.58393935E+00-7.87699402E-04-3.84878120E-07	2.91133039E-10-3.39438475E-14			2	
	2.40394686E+04-8.50679127E+00 3.21590490E+00	7.09389748E-03-1.50723370E-05			3	
	1.48684882E-08-5.43740256E-12 2.47988772E+04	3.80489004E+00 2.59666535E+04			4	
Li2CL2	J 6/62LI 2.CL 2. 0. 0.G	300.000	5000.000	84.78740	1	Chase (1985)
	9.52456140E+00 5.24588340E-04-2.23379490E-07	4.19511140E-11-2.90213060E-15			2	
	-7.49902630E+04-2.00316716E+01 5.28013510E+00	1.83841000E-02-2.87694480E-05			3	
	2.03133590E-08-5.34332470E-12-7.41600030E+04	2.79279422E-01-7.19851709E+04			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

Li2F2	J12/68LI 2.F 2.	0.	0.G	300.000	5000.000	51.87881	1	Chase (1985)
8.95666360E+00	1.17192690E-03	-5.09905040E-07	9.79175340E-11	-6.92156020E-15			2	
-1.16372280E+05	-2.08863311E+01	2.40075080E+00	2.70662370E-02	-3.92561800E-05			3	
2.57225990E-08	-6.22372250E-12	-1.15010910E+05	1.08917789E+01	-1.13391048E+05			4	
Li2O	J 3/64LI 2.0 1.	0.	0.G	300.000	5000.000	29.88140	1	Chase (1985)
6.61987480E+00	9.68794480E-04	-4.14905060E-07	7.86373370E-11	-5.49692920E-15			2	
-2.22553250E+04	-1.08215590E+01	3.97217080E+00	9.24609210E-03	-9.35961490E-06			3	
3.46391600E-09	-7.56588800E-14	-2.15969880E+04	2.55230409E+00	-2.00776073E+04			4	
Li2O2	J 3/64LI 2.0 2.	0.	0.G	300.000	5000.000	45.88080	1	Chase (1985)
9.52752600E+00	5.30210130E-04	-2.30058620E-07	4.40308310E-11	-3.10187020E-15			2	
-3.21824840E+04	-2.18591120E+01	5.53752320E+00	1.73442230E-02	-2.71979710E-05			3	
1.93056290E-08	-5.22372250E-12	-3.14020440E+04	-2.76831291E+00	-2.91846934E+04			4	
Li2O2H2	J 6/71LI 2.0 2.H 2.	0.	0.G	300.000	5000.000	47.89668	1	Chase (1985)
8.99361290E+00	6.00396330E-03	-2.18101810E-06	3.68887260E-10	-2.37380140E-14			2	
-8.88441500E+04	-2.13586495E+01	2.86466370E+00	2.52373090E-02	-2.26327910E-05			3	
3.7193527130E-09	2.29254980E-13	-8.73388110E+04	9.54312960E+00	-8.55480943E+04			4	
Li2SO4	J12/78LI 2.S 1.0 4.	0.	0.G	300.000	5000.000	109.94560	1	Chase (1985)
1.49295950E+01	4.60974740E-03	-2.03795560E-06	3.98625790E-10	-2.87030300E-14			2	
-1.30635280E+05	-4.91664911E+01	7.11457250E-01	5.94511790E-02	-8.63634900E-05			3	
6.11710870E-08	-1.70989230E-11	-1.27508240E+05	2.03803279E+01	-1.25304083E+05			4	
Li3Cl3	J 6/62LI 3.CL 3.	0.	0.G	300.000	5000.000	127.18110	1	Chase (1985)
1.43194400E+01	1.88540070E-03	-8.19783300E-07	1.57354940E-10	-1.11194720E-14			2	
-1.25588510E+05	-4.27110226E+01	4.57459590E+00	3.97492390E-02	-5.65082130E-05			3	
3.62941450E-08	-8.57847000E-12	-1.23533610E+05	4.68059658E+00	-1.20834437E+05			4	
Li3F3	J12/68LI 3.F 3.	0.	0.G	300.000	5000.000	77.81821	1	Chase (1985)
1.43644220E+01	1.82854980E-03	-7.92211590E-07	1.51545290E-10	-1.06756730E-14			2	
-1.87237360E+05	-4.50609130E+01	4.64139750E+00	3.98786960E-02	-5.72489910E-05			3	
3.71935440E-08	-8.92301250E-12	-1.85198520E+05	2.16235968E+00	-1.82478706E+05			4	
Mg	J 9/83MG 1.	0.	0.G	200.000	6000.000	24.30500	1	Chase (1985)
2.31664484E+00	3.65866339E-04	-2.33227803E-07	5.37117570E-11	-2.99513065E-15			2	
1.70119233E+04	4.63449516E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00			3	
0.00000000E+00	0.00000000E+00	1.69465876E+04	3.63433014E+00	1.76919626E+04			4	
Mg+	J 9/83MG 1.E -1.	0.	0.G	298.150	6000.000	24.30445	1	Chase (1985)
2.50416574E+00	-9.19340966E-06	6.96171478E-09	-2.17494938E-12	2.40903346E-16			2	
1.06420941E+05	4.30504485E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00			3	
0.00000000E+00	0.00000000E+00	1.06422335E+05	4.32744346E+00	1.07167710E+05			4	
MgBr	J 6/75MG 1.BR 1.	0.	0.G	300.000	5000.000	104.20900	1	Chase (1985)
4.40998540E+00	1.60217360E-04	-4.15012230E-08	5.93703420E-12	-4.82315730E-17			2	
-5.59619090E+03	4.22960309E+00	3.51072850E+00	4.45285100E-03	-8.01240750E-06			3	
6.70669000E-09	-2.12327180E-12	-5.43682570E+03	8.43148999E+00	-4.25072458E+03			4	
MgBr2	J 6/74MG 1.BR 2.	0.	0.G	300.000	5000.000	184.11300	1	Chase (1985)
7.32151000E+00	2.06437250E-04	-9.24892080E-08	1.82558380E-11	-1.32311700E-15			2	
-3.86713040E+04	-5.67846591E+00	5.71391020E+00	7.73216170E-03	-1.38657930E-05			3	
1.14779000E-08	-3.60578840E-12	-3.83794830E+04	1.86860229E+00	-3.64337335E+04			4	
MgCl	J 3/66MG 1.CL 1.	0.	0.G	300.000	5000.000	59.75770	1	Chase (1985)
4.37758330E+00	1.88341780E-04	-5.44885920E-08	9.94810310E-12	-6.69496110E-16			2	
-6.58308260E+03	2.98938866E+00	3.38005340E+00	4.28133890E-03	-6.44573330E-06			3	
4.44722910E-09	-1.14217270E-12	-6.38265600E+03	7.78898816E+00	-5.23329928E+03			4	
MgCl+	J 6/68MG 1.CL 1.E -1.	0.	0.G	300.000	5000.000	59.75715	1	Chase (1985)
6.35123440E+00	-3.79671900E-03	2.47129450E-06	-5.08236530E-10	3.36726250E-14			2	
7.64808790E+04	-8.29036231E+00	3.60122300E+00	3.47918590E-03	-5.13531430E-06			3	
3.44463370E-09	-8.38482060E-13	7.73146880E+04	6.13385929E+00	7.85040728E+04			4	
MgClF	J 3/66MG 1.CL 1.F 1.	0.	0.G	200.000	6000.000	78.75610	1	Chase (1985)
6.57082252E+00	4.48876208E-04	-1.77994819E-07	3.06318205E-11	-1.91554544E-15			2	
-7.05235977E+04	-5.83555414E+00	3.15704293E+00	1.64534790E-02	-3.01126869E-05			3	
2.57974606E-08	-8.42487547E-12	-6.98910040E+04	1.02255402E+01	-6.84374665E+04			4	
MgCl2	J12/69MG 1.CL 2.	0.	0.G	300.000	5000.000	95.21040	1	Chase (1985)
7.24019130E+00	2.88562390E-04	-1.24011870E-07	2.35271010E-11	-1.64432050E-15			2	
-4.94423260E+04	-8.18090146E+00	5.40955290E+00	7.72062810E-03	-1.16200940E-05			3	
7.94178890E-09	-2.02525020E-12	-4.90705370E+04	6.47158084E-01	-4.72024455E+04			4	
MgF	J 6/76MG 1.F 1.	0.	0.G	300.000	5000.000	43.30340	1	Chase (1985)
4.19221190E+00	4.03626440E-04	-1.50976310E-07	2.81692210E-11	-1.82758920E-15			2	
-2.98137100E+04	2.43696200E+00	2.65707520E+00	6.68261350E-03	-1.03311560E-05			3	
7.68717660E-09	-2.22450570E-12	-2.94948900E+04	9.85508030E+00	-2.84827958E+04			4	
MgF+	J12/75MG 1.F 1.E -1.	0.	0.G	300.000	5000.000	43.30285	1	Chase (1985)
4.36810570E+00	4.11759660E-03	-2.93947970E-06	7.27118430E-10	-5.98448020E-14			2	
5.95360000E+04	-1.34577810E+00	3.43876540E+00	2.22526540E-03	-5.46212020E-06			3	
1.40842760E-08	-8.07269060E-12	6.05156660E+04	5.77835440E+00	6.16156042E+04			4	
MgF2	J 6/75MG 1.F 2.	0.	0.G	300.000	5000.000	62.30181	1	Chase (1985)
6.36420730E+00	7.26278270E-04	-3.22800460E-07	6.33636660E-11	-4.57384370E-15			2	
-8.94644290E+04	-5.91513070E+00	3.34790580E+00	1.31152970E-02	-2.05416070E-05			3	
1.53957840E-08	-4.49090410E-12	-8.88388740E+04	8.65190220E+00	-8.74109410E+04			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

MgF2+	J12/75MG 1.F 2.E -1. 0.G	300.000	5000.000	62.30126	1	Chase (1985)
6.89106730E+00	7.17812830E-04	-3.29411720E-07	6.58811280E-11	-4.58732280E-15	2	
6.89931450E+00	7.1301390E+00	3.52128840E+00	1.52695560E-02	-2.51800890E-05	3	
1.96354990E-08	-5.90549190E-12	6.96583880E+04	7.39020950E+00	7.12004950E+04	4	
MgH	J12/66MG 1.H 1. 0. 0.G	300.000	5000.000	25.31294	1	Chase (1985)
3.46385910E+00	1.24040550E-03	-5.02782100E-07	9.81188340E-11	-6.61830680E-15	2	
1.91763100E+04	2.99775186E+00	3.51023970E+00	-1.23683520E-03	6.42469980E-06	3	
-6.60548460E-09	2.20036250E-12	1.92938930E+04	3.37365416E+00	2.03302445E+04	4	
MgI	J12/74MG 1.I 1. 0. 0.G	200.000	6000.000	151.20947	1	Chase (1985)
4.41245599E+00	1.78910914E-04	-5.22986679E-08	9.68713486E-12	-4.67113786E-16	2	
1.62581907E+03	5.16451018E+00	3.39596606E+00	6.11494866E-03	-1.31544146E-05	3	
1.27259311E-08	-4.53414297E-12	1.76933628E+03	9.69586508E+00	2.96042364E+03	4	
MgI2	J12/74MG 1.I 2. 0. 0.G	300.000	5000.000	278.11394	1	Chase (1985)
7.37111620E+00	1.49419540E-04	-6.70677380E-08	1.32575590E-11	-9.62005020E-16	2	
-2.15119230E+04	-3.93845663E+00	6.10814260E+00	6.14621180E-03	-1.11665270E-05	3	
9.32665250E-09	-2.94871660E-12	-2.12863230E+04	1.97126687E+00	-1.92736169E+04	4	
MgN	J 3/64MG 1.N 1. 0. 0.G	300.000	5000.000	38.31174	1	Chase (1985)
4.22144170E+00	3.64892400E-04	-1.29957300E-07	2.44189400E-11	-1.69177590E-15	2	
3.33829310E+04	2.73205196E+00	2.88945490E+00	5.17571750E-03	-6.58490160E-06	3	
MgO	J12/74MG 1.0 1. 0. 0.G	300.000	5000.000	40.30440	1	Chase (1985)
7.94944280E+00	-1.26407550E-03	-2.40097300E-07	1.62732770E-10	-1.76119090E-14	2	
3.49443840E+03	-2.18011730E+01	5.33534970E+00	-1.33391340E-02	3.56675260E-05	3	
-2.60574710E-08	4.98411960E-12	5.73155730E+03	-2.13277681E+00	6.99538853E+03	4	
MgOH	J12/75MG 1.0 1.H 1. 0.G	300.000	5000.000	41.31234	1	Chase (1985)
5.26714240E+00	1.67827200E-03	-5.43091730E-07	8.25633490E-11	-4.71335130E-15	2	
-2.15093360E+04	-3.39516556E+00	1.76243570E+00	1.91670050E-02	-3.32193180E-05	3	
2.71589780E-08	-8.38892750E-12	-2.05491820E+04	1.27344625E+01	-1.98155784E+04	4	
MgOH+	J12/75MG 1.0 1.H 1.E -1.G	300.000	5000.000	41.31179	1	Chase (1985)
5.28244790E+00	1.66404370E-03	-5.40166510E-07	8.34678240E-11	-5.00361680E-15	2	
6.85958160E+04	-4.15038868E+00	1.78314210E+00	1.92285270E-02	-3.35031430E-05	3	
2.74913640E-08	-8.51510070E-12	6.91505840E+04	1.19305235E+01	7.02911854E+04	4	
MgO2H2	J12/75MG 1.0 2.H 2. 0.G	300.000	5000.000	58.31968	1	Chase (1985)
8.51783840E+00	3.37913800E-03	-1.10220330E-06	1.71111790E-10	-1.03022860E-14	2	
-7.16267310E+04	-1.76294649E+01	1.54947500E+00	3.82704800E-02	-6.65093280E-05	3	
5.45362940E-08	-1.68913380E-11	-7.05167540E+04	1.44170361E+01	-6.88415815E+04	4	
MgS	J 9/77MG 1.S 1. 0. 0.G	300.000	5000.000	56.37100	1	Chase (1985)
1.03585650E+01	-5.53070850E-03	2.09511990E-06	-3.52248380E-10	2.22827360E-14	2	
1.33293460E+04	-3.31905223E+01	7.80892150E+00	-3.24935950E-02	9.25172570E-05	3	
-9.09652030E-08	2.97526310E-11	1.59322900E+04	-1.10479053E+01	1.74679365E+04	4	
Mg2	J 9/83MG 2. 0. 0. 0.G	200.000	6000.000	48.61000	1	Chase (1985)
1.55499308E+00	3.13771932E-03	-3.15497401E-06	1.11815199E-09	-1.08539001E-13	2	
3.41094885E+04	1.94547704E+01	5.66548917E+00	-1.81207983E-02	4.05706233E-05	3	
-4.00720091E-08	1.45040463E-11	3.34280130E+04	5.33095711E-01	3.45979248E+04	4	
Mg2F4	J12/75MG 2.F 4. 0. 0.G	300.000	5000.000	124.60361	1	Chase (1985)
1.46720160E+01	1.52993180E-03	-6.83471170E-07	1.34604690E-10	-9.73833980E-15	2	
-2.11437660E+05	-4.42782440E+01	4.22990530E+00	4.92908490E-02	-8.64496720E-05	3	
7.04593710E-08	-2.18871100E-11	-2.09492990E+05	5.00323612E+00	-2.06675889E+05	4	
MoO3	TPIS82MO 1.0 3. 0. 0.G	298.150	5000.000	143.93820	1	Gurvich (1982)
8.55990790E+00	1.51369070E-03	-6.13732600E-07	1.07588900E-10	-6.22775550E-15	2	
-4.67652700E+04	-1.67028250E+01	3.65431210E+00	1.44909920E-02	-7.66813900E-06	3	
-6.09846400E-09	5.18258090E-12	-4.54830940E+04	8.50521889E+00	-4.38287210E+04	4	
Mo2O6	TPIS82MO 2.0 6. 0. 0.G	298.150	5000.000	287.87640	1	Gurvich (1982)
1.39233320E+01	1.29087490E-02	-7.39293860E-06	1.74541090E-09	-1.44106680E-13	2	
-1.42928310E+05	-3.64486140E+01	7.75467210E+00	3.26250640E-02	-1.66599060E-05	3	
-1.50396000E-08	1.23603580E-11	-1.41833380E+05	-6.45092731E+00	-1.38247070E+05	4	
Mo3O9	TPIS82MO 3.0 9. 0. 0.G	298.150	5000.000	431.81460	1	Gurvich (1982)
2.22622990E+01	1.85849670E-02	-1.05893570E-05	2.49267520E-09	-2.05425360E-13	2	
-2.36200380E+05	-7.10881860E+01	1.35774240E+01	4.53893100E-02	-2.13059540E-05	3	
-2.28677660E-08	1.77523270E-11	-2.34596880E+05	-2.85771390E+01	-2.28762570E+05	4	
Mo4O12	TPIS82MO 4.0 12. 0. 0.G	298.150	5000.000	575.75280	1	Gurvich (1982)
3.04317470E+01	2.47326460E-02	-1.41185490E-05	3.32712920E-09	-2.74390160E-13	2	
-3.25903630E+05	-1.07280337E+02	1.87274780E+01	6.11594990E-02	-2.91419130E-05	3	
-3.06580500E-08	2.40118200E-11	-3.23765940E+05	-5.00883840E+01	-3.15779310E+05	4	
Mo5O15	TPIS82MO 5.0 15. 0. 0.G	298.150	5000.000	719.69100	1	Gurvich (1982)
3.86225430E+01	3.07427420E-02	-1.75360470E-05	4.13062300E-09	-3.40557710E-13	2	
-4.13241560E+05	-1.43736757E+02	2.38870540E+01	7.61410000E-02	-3.51747290E-05	3	
-3.98648650E-08	3.06311230E-11	-4.10521060E+05	-7.16041770E+01	-4.00401060E+05	4	
N	L 6/88N 1. 0. 0. 0.G	200.000	6000.000	14.00674	1	Moore, C.E. (1975)
2.41594293E+00	1.74890600E-04	-1.19023667E-07	3.02262387E-11	-2.03609790E-15	2	Cox (1989)
5.61337748E+04	4.64960986E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	5.61046378E+04	4.19390932E+00	5.68500128E+04	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

N+	L 7/88N 1.E -1. 0. 0.G	298.150	6000.000	14.00619	1	Moore, C.E. (1975)
	2.51112967E+00 3.46441751E-06-1.59426938E-08	7.24865663E-12	-6.44501426E-16		2	
	2.25624340E+05 4.92767646E+00 2.80269445E+00-1.44758911E-03	2.77118380E-06			3	
	-2.40187352E-09 7.80839931E-13 2.25575244E+05 3.57977820E+00	2.26366632E+05			4	
N-	L 7/88N 1.E 1. 0. 0.G	298.150	6000.000	14.00729	1	Chase (1985)
	2.50897099E+00-9.58412751E-06 3.85210062E-09-6.68935998E-13	4.20991172E-17			2	
	5.62083017E+04 4.94953217E+00 2.62723403E+00-5.93445018E-04	1.12028916E-06			3	
	-9.62585603E-10 3.11119557E-13 5.61880871E+04 4.40111191E+00	5.69531625E+04			4	
NCO	L12/89N 1.C 1.0 1. 0.G	200.000	6000.000	42.01714	1	Jacox (1988) Gurvich (1979)
	5.15255717E+00 2.30945594E-03-8.83699519E-07	1.48525346E-10	-9.08857905E-15		2	
	1.94963750E+04 -2.56406350E+00 2.75452392E+00 9.23008037E-03	-9.28006629E-06			3	
	5.62521381E-09-1.61200144E-12 2.01842954E+04 9.85368773E+00	2.13441716E+04			4	
ND	J 6/77N 1.D 1. 0. 0.G	298.150	5000.000	16.02084	1	Chase (1985)
	2.82970340E+00 1.65841750E-03-6.32873330E-07	1.14776850E-10	-7.83185840E-15		2	
	4.42559510E+04 6.00662489E+00 3.72064880E+00-1.53418480E-03	3.18774260E-06			3	
	-1.50914010E-09 9.71261140E-14 4.40727560E+04 1.64955279E+00	4.51390710E+04			4	
ND2	J 6/77N 1.D 2. 0. 0.G	298.150	5000.000	18.03494	1	Chase (1985)
	3.35153910E+00 3.37631620E-03-1.32134570E-06	2.68006790E-10	-2.09101740E-14		2	
	2.10777490E+04 4.37387609E+00 4.02697800E+00-1.40851280E-03	7.77658150E-06			3	
	-6.49675750E-09 1.75541700E-12 2.10980280E+04 1.75483929E+00	2.22927630E+04			4	
ND3	J 6/77N 1.D 3. 0. 0.G	298.150	5000.000	20.04905	1	Chase (1985)
	3.19615660E+00 6.73117580E-03-2.64234000E-06	4.76308680E-10	-3.28048280E-14		2	
	-8.39665270E+03 4.16290449E+00 2.94278390E+00 5.10352910E-03	2.73928210E-06			3	
	-4.68476620E-09 1.62766740E-12-8.16515630E+03 6.15521769E+00	-7.04511980E+03			4	
NF	TPIS89N 1.F 1. 0. 0.G	200.000	6000.000	33.00514	1	Gurvich (1989)
	4.06042292E+00 3.50654850E-04-6.95721815E-08	1.45925454E-11	-1.56372401E-15		2	
	2.66711982E+04 2.08874790E+00 3.59927999E+00-2.18190788E-03	1.14106853E-05			3	
	-1.40068494E-08 5.53332638E-12 2.69702525E+04 5.35573588E+00	2.80221438E+04			4	
NF2	TPIS78N 1.F 2. 0. 0.G	298.150	5000.000	52.00355	1	Gurvich (1978)
	5.67109980E+00 1.52490640E-03-6.64320500E-07	1.29882090E-10	-9.34891620E-15		2	
	2.17289180E+03-3.21733831E+00 2.18233810E+00 1.30700080E-02	-1.51478870E-05			3	
	8.23364600E-09-1.68588640E-12 3.02632470E+03 1.42967350E+01	4.13964480E+03			4	
NF3	L12/86N 1.F 3. 0. 0.G	298.150	5000.000	71.00195	1	Gurvich (1978)
	7.84199640E+00 2.69275920E-03-1.08013060E-06	2.12212560E-10	-1.52881240E-14		2	
	-1.86684320E+04-1.49708930E+01 3.47412870E-01 3.07504790E-02	-4.25860860E-05			3	
	2.88432090E-08-7.70346550E-12-1.69875040E+04 2.18734930E+01	-1.58399670E+04			4	
NH	L11/89N 1.H 1. 0. 0.G	200.000	6000.000	15.01468	1	Anderson (1989) Gurvich (1978)
	2.78372645E+00 1.32985886E-03-4.24785565E-07	7.83494425E-11	-5.50451298E-15		2	
	4.21345163E+04 5.74084857E+00 3.49295037E+00 3.11795722E+00	1.48906628E-06			3	
	2.48167403E-09-1.03570916E-12 4.18942940E+04 1.84834974E+00	4.29408348E+04			4	
NH+	L 2/89N 1.H 1.E -1. 0.G	298.150	6000.000	15.01413	1	Anderson (1989) Gurvich (1989) Gibson (1985)
	2.95918980E+00 1.34991719E-03-4.61487782E-07	8.26977666E-11	-5.55758913E-15		2	
	1.99524505E+05 5.59978007E+00 4.61611136E+00-3.13435677E-03	2.91705130E-06			3	
	2.57384848E-10-7.31431347E-13 1.99085043E+05-2.92758474E+00	2.00347960E+05			4	
NHF	TPIS78N 1.H 1.F 1. 0.G	298.150	5000.000	34.01308	1	Gurvich (1978)
	3.70551560E+00 3.05928380E-03-1.19481890E-06	2.15320410E-10	-1.44712850E-14		2	
	1.21713170E+04 5.63012479E+00 3.50790490E+00 1.46885700E-03	5.13893190E-06			3	
	-7.07642930E-09 2.73156520E-12 1.23266210E+04 7.16279689E+00	1.34705930E+04			4	
NHF2	TPIS78N 1.H 1.F 2. 0.G	298.150	5000.000	53.01149	1	Gurvich (1978)
	5.28756150E+00 4.63323300E-03-1.87737490E-06	3.46993030E-10	-2.40367500E-14		2	
	-1.44236330E+04-1.64463031E+00 2.20674810E+00 1.18774010E-02	-5.50126930E-06			3	
	-2.19112190E-09 1.97461810E-12-1.35221410E+04 1.45510290E+01	-1.23881340E+04			4	
NH2	L12/89N 1.H 2. 0. 0.G	200.000	6000.000	16.02262	1	Gurvich (1978) Jacox (1988)
	2.84768992E+00 3.14280035E-03-8.98641458E-07	1.30318284E-10	-7.48812926E-15		2	
	2.18239049E+04 6.47165433E+00 4.20556857E+00-2.13561363E-03	7.26851301E-06			3	
	-5.93069876E-09 1.80690978E-12 2.15352231E+04-1.46662770E-01	2.27475415E+04			4	
NH2F	TPIS78N 1.H 2.F 1. 0.G	298.150	5000.000	35.02102	1	Gurvich (1978)
	3.03158860E+00 6.42239370E-03-2.48327540E-06	4.43703310E-10	-2.99811000E-14		2	
	-1.03021670E+04 8.27719459E+00 3.64634270E+00-1.12299140E-03	1.71560860E-05			3	
	-1.90333680E-08 6.73845950E-12-1.01750020E+04 6.55726579E+00	-9.02048620E+03			4	
NH3	TPIS89N 1.H 3. 0. 0.G	200.000	6000.000	17.03056	1	Gurvich (1989) Haar (1968)
	2.71709692E+00 5.56856338E-03-1.76886396E-06	2.67417260E-10	-1.52731419E-14		2	
	-6.58451989E+03 6.09289837E+00 4.30177808E+00-4.77127330E-03	2.19341619E-05			3	
	-2.29856489E-08 8.28992268E-12-6.74806394E+03-6.90644393E-01	-5.52528050E+03			4	
NH20H	TPIS89N 1.H 3.0 1. 0.G	200.000	6000.000	33.02996	1	Gurvich (1989)
	3.88112362E+00 8.152708719E-03-2.82615742E-06	4.37931330E-10	-2.52724921E-14		2	
	-7.58782727E+03 3.79156901E+00 3.21016076E+00 6.19671780E-03	1.10594913E-05			3	
	-1.96668207E-08 8.82516311E-12-7.30912839E+03 7.93293640E+00	-6.01358348E+03			4	
NH4+	TPIS89N 1.H 4.E -1. 0.G	298.150	6000.000	18.03795	1	Gurvich (1989)
	1.31570311E+00 9.64926653E-03-3.29049595E-06	5.12045396E-10	-2.98499060E-14		2	
	7.67277044E+04 1.20930980E+01 5.02209278E+00-1.17098960E-02	3.97600112E-05			3	
	-3.69419871E-08 1.20264483E-11 7.63029754E+04-4.20522298E+00	7.75637944E+04			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

NO	TPIS89N 1.0 1. 0. 0.G	200.000 6000.000 30.00614	1	Gurvich (1989)
3.26071234E+00	1.19101135E-03-4.29122646E-07	6.94481463E-11-4.03295681E-15	2	
9.92143132E+03	6.36900518E+00 4.21859896E+00-4.63988124E-03	1.10443049E-05	3	
-9.34055507E-09	2.80554874E-12 9.84509964E+03	2.28061001E+00 1.09770882E+04	4	
NO+	TPIS89N 1.0 1.E -1. 0.G	298.150 6000.000 30.00559	1	Gurvich (1989)
2.94587702E+00	1.40325260E-03-4.95503196E-07	7.95948973E-11-4.72076668E-15	2	
1.18244340E+05	6.70644634E+00 3.69301231E+00-1.34229158E-03	2.67343395E-06	3	
-1.02609308E-09	-6.95610492E-14 1.18103055E+05	3.09126691E+00 1.19166025E+05	4	
NOCL	L12/86N 1.0 1.CL 1. 0.G	298.150 5000.000 65.45884	1	Gurvich (1978)
5.86956760E+00	9.32184760E-04-2.52355420E-07	8.09444930E-11-9.02037270E-15	2	
4.37178100E+03	-2.64405161E+00 3.84293630E+00	7.30757200E-03-9.14007260E-06	3	
6.66117580E-09	-2.05029050E-12 4.93648720E+03	7.74079999E+00 6.33842060E+03	4	
NOF	TPIS78N 1.0 1.F 1. 0.G	298.150 5000.000 49.00454	1	Gurvich (1978)
4.98781620E+00	2.43822500E-03-1.11040450E-06	2.45413670E-10-1.88888130E-14	2	
-9.53283150E+03	4.59172027E-01 3.01678900E+00	9.40745900E-03-1.14103680E-05	3	
7.75157000E-09	-2.22328880E-12-9.04875930E+03	1.03043410E+01-7.81775470E+03	4	
NOF3	TPIS78N 1.0 1.F 3. 0.G	298.150 5000.000 87.00135	1	Gurvich (1978)
9.81602980E+00	3.54622150E-03-1.55212690E-06	3.01635030E-10-2.16229090E-14	2	
-1.60181200E+04	-2.45950120E+01 1.57858830E-01	4.18848250E-02-6.27310050E-05	3	
4.61904830E-08	-1.34120260E-11-2.39304230E+04	2.24234230E+01-2.24910790E+04	4	
NO2	L 7/88N 1.0 2. 0. 0.G	200.000 6000.000 46.00554	1	Gurvich (1989)
4.88474429E+00	2.17241639E-03-8.28079020E-07	1.57477293E-10-1.05110549E-14	2	
2.31648462E+03	-1.17357075E-01 3.94403907E+00-1.58547444E-03	1.66578984E-05	3	
-2.04754478E-08	7.83503265E-12 2.89659865E+03	6.31196225E+00 4.11245173E+03	4	
NO2-	TPIS89N 1.0 2.E 1. 0.G	298.150 6000.000 46.00609	1	Gurvich (1989)
5.05329280E+00	2.07555672E-03-8.70003077E-07	1.61074250E-10-1.03448062E-14	2	
-2.59043616E+04	-1.54065058E+00 3.09783648E+00	3.70486312E-03 5.92938975E-06	3	
-1.09497307E-08	4.62721721E-12-2.51798339E+04	9.48237148E+00-2.40586126E+04	4	
NO2CL	L12/86N 1.0 2.CL 1. 0.G	298.150 5000.000 81.45824	1	Gurvich (1978)
7.12026010E+00	3.18695570E-03-1.37798970E-06	2.66531630E-10-1.90437960E-14	2	
-1.06153470E+03	-9.45476081E+00 2.55980390E+00	1.79693190E-02-2.02652550E-05	3	
1.16991830E-08	-2.78633720E-12 9.87906800E+01	1.35899630E+01 1.50341440E+03	4	
NO2F	L12/86N 1.0 2.F 1. 0.G	298.150 5000.000 65.00394	1	Gurvich (1978)
6.71038200E+00	3.62401660E-03-1.56660230E-06	3.02666410E-10-2.16088660E-14	2	
-1.56110410E+04	-8.88169701E+00 1.44668080E+00	2.08840580E-02-2.38855280E-05	3	
1.39438940E-08	-3.34025010E-12-1.42842970E+04	1.76606690E+01-1.31097730E+04	4	
NO3	J12/64N 1.0 3. 0. 0.G	200.000 6000.000 62.00494	1	Chase (1985)
7.48347734E+00	2.57772041E-03-1.00945831E-06	1.72314072E-10-1.07154015E-14	2	
5.70919428E+03	-1.41618155E+01 2.17359310E+00	1.04902697E-02 1.10472650E-05	3	
-2.81561854E-08	1.36583958E-11 7.39219877E+03	1.46022098E+01 8.55492386E+03	4	
NO3-	TPIS89N 1.0 3.E 1. 0.G	298.150 6000.000 62.00549	1	Gurvich (1989)
6.88404739E+00	3.16062982E-03-1.23048782E-06	2.09257989E-10-1.29795471E-14	2	
-4.00548152E+04	-1.17087097E+01 1.21258521E+00	1.71545193E-02-1.05270457E-05	3	
-1.16074097E-09	2.33114998E-12-3.84077713E+04	1.79933865E+01-3.73779731E+04	4	
NO3F	L12/86N 1.0 3.F 1. 0.G	298.150 5000.000 81.00334	1	Gurvich (1978)
9.28947900E+00	4.60181370E-03-2.21870670E-06	4.51297580E-10-3.32406540E-14	2	
-1.64685160E+03	-2.00889250E+01 2.03635710E+00	2.87840980E-02-3.48403410E-05	3	
2.17601730E-08	-5.64964360E-12 1.85068170E+02	1.64435420E+01 1.80409650E+03	4	
N2	TPIS78N 2. 0. 0. 0.G	200.000 6000.000 28.01348	1	McBride (1993)
2.95257626E+00	1.39690057E-03-4.92631691E-07	7.86010367E-11-4.60755321E-15	2	
-9.23948645E+02	5.87189252E+00 3.53100528E+00-1.23660987E-04	-5.02999437E-07	3	
2.43530612E-09	-1.40881235E-12-1.04697628E+03	2.96747468E+00 0.00000000E+00	4	
N2+	TPIS89N 2.E -1. 0. 0.G	298.150 6000.000 28.01293	1	Gurvich (1989)
3.58661363E+00	2.53071949E-04 1.84778214E-07-4.55257223E-11	3.26818029E-15	2	
1.80390994E+05	3.09584142E+00 3.77540711E+00-2.06459157E-03	4.75752301E-06	3	
-3.15664228E-09	6.70509973E-13 1.80481115E+05	2.69322178E+00 1.81551099E+05	4	
N2-	J 9/77N 2.E 1. 0. 0.G	298.150 5000.000 28.01403	1	Chase (1985)
3.11567530E+00	1.45886880E-03-6.01731480E-07	1.13484230E-10-7.96585180E-15	2	
1.68590580E+04	6.38985179E+00 3.88268480E+00-3.19244460E-03	8.52278380E-06	3	
-7.34037460E-09	2.20568150E-12 1.67969350E+04	3.11180099E+00 1.78744680E+04	4	
NCN	L12/89N 2.C 1. 0. 0.G	200.000 6000.000 40.02448	1	Jacox (1988)
5.73815514E+00	1.77244606E-03-6.85751131E-07	1.15711980E-10-7.07567907E-15	2	Gurvich (1991)
5.82214890E+04	-6.30533665E+00 3.24134033E+00	8.50091346E-03-7.61608140E-06	3	
3.64986585E-09	-8.42551872E-13 5.89477370E+04	6.70956450E+00 6.02315091E+04	4	
cis-N2D2	J 6/77N 2.D 2. 0. 0.G	200.000 6000.000 32.04168	1	Chase (1985)
4.51455308E+00	5.18901318E-03-1.93684288E-06	3.20575967E-10-1.95208624E-14	2	
2.30230396E+04	-9.52662441E-01 3.87335899E+00-2.62328791E-03	2.63075819E-05	3	
-3.13008744E-08	1.18109999E-11 2.36948344E+04	4.74949141E+00 2.49092250E+04	4	
N2F2	L12/86N 2.F 2. 0. 0.G	298.150 5000.000 66.01029	1	Gurvich (1978)
7.66719230E+00	2.59486270E-03-1.13460230E-06	2.20352680E-10-1.57886580E-14	2	
4.81399990E+03	-1.28292930E+01 2.80589260E+00	1.92519670E-02-2.36977440E-05	3	
1.46168610E-08	-3.64516030E-12 5.99444190E+03	1.14841490E+01 7.50450950E+03	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

N2F4	L12/86N 2.F 4. 0. 0.G	298.150	5000.000	104.00709	1	Gurvich (1978)
1.29150660E+01	3.50813620E-03-1.55468900E-06	3.04562180E-10	-2.19523540E-14		2	
-7.20081890E+03	-3.77109010E+01 9.87812940E-01	5.00295240E-02	-7.36767080E-05		3	
5.25234550E-08	-1.47129610E-11-4.61010860E+03	2.04857180E+01	-2.64600820E+03		4	
N2H2	L 5/90N 2.H 2. 0. 0.G	200.000	6000.000	30.02936	1	Gurvich (1989)
4.31115086E+00	9.00187272E-03-3.14911866E-06	4.81449690E-10	-2.71897983E-14		2	
2.47864167E+04	1.64091085E+01 4.91066016E+00	-1.07791866E-02	3.86516441E-05		3	
-3.86501628E-08	1.34852100E-11 2.42242727E+04	9.10279703E-02	2.54807559E+04		4	
NH2NO2	TPIS89N 2.H 2.0 2. 0.G	200.000	6000.000	62.02816	1	Gurvich (1989)
7.38890998E+00	7.65188026E-03-2.75087039E-06	4.44622886E-10	-2.66488122E-14		2	
-6.21767034E+03	-1.32737000E+01 2.17310105E+00	1.43162299E-02	1.09031619E-05		3	
-2.76714677E-08	1.29868687E-11-4.45906121E+03	1.53831166E+01	-3.12706341E+03		4	
N2H4	L 5/90N 2.H 4. 0. 0.G	200.000	6000.000	32.04524	1	Gurvich (1989)
4.93957357E+00	8.75017187E-03-2.99399058E-06	4.67278418E-10	-2.73068599E-14		2	
9.28265548E+03	-2.69439772E+00 3.83472149E+00	-6.49129555E-04	3.76848463E-05		3	
-5.00709182E-08	2.03362064E-11 1.00893925E+04	5.75272030E+00	1.14474575E+04		4	
N2O	L 7/88N 2.0 1. 0. 0.G	200.000	6000.000	44.01288	1	Gurvich (1989)
4.82318873E+00	2.62685279E-03-9.58426058E-07	1.59991296E-10	-9.77416939E-15		2	
8.07335662E+03	-2.20236600E+00 2.25716860E+00	1.13046338E-02	-1.36710350E-05		3	
9.68162098E-09	-2.93055583E-12 8.74177146E+03	1.07579154E+01	9.81416824E+03		4	
N2O+	J12/70N 2.0 1.E -1. 0.G	298.150	6000.000	44.01233	1	Chase (1985)
5.52859730E+00	1.95956970E-03-7.5378228E-07	1.27045911E-10	-7.80207625E-15		2	
1.58375902E+05	-4.41896705E+00 3.28688978E+00	7.40234563E-03	-4.86688552E-06		3	
7.33141038E-10	2.98161683E-13 1.59054547E+05	7.40146499E+00	1.60322136E+05		4	
N2O3	L 4/90N 2.0 3. 0. 0.G	200.000	6000.000	76.01168	1	Gurvich (1989)
9.08583845E+00	3.37756330E-03-1.31583890E-06	2.30762329E-10	-1.47151267E-14		2	
7.27160146E+03	-1.55361904E+01 5.81083964E+00	1.43330962E-02	-1.96208597E-05		3	
1.73060735E-08	-6.46553954E-12 8.19184453E+03	1.20461321E+00	1.04192062E+04		4	
N2O4	TPIS89N 2.0 4. 0. 0.G	200.000	6000.000	92.01108	1	Gurvich (1989)
1.15752899E+01	4.01616086E-03-1.57178323E-06	2.68274309E-10	-1.66922019E-14		2	
-2.92191226E+03	-3.19488439E+01 3.02002308E+00	2.95904321E-02	-3.01342458E-05		3	
1.42360407E-08	-2.44100049E-12-6.40040162E+02	1.18059606E+01	1.33632866E+03		4	
N2O5	L 4/90N 2.0 5. 0. 0.G	200.000	6000.000	108.01048	1	Gurvich (1989)
1.31108082E+01	4.87435791E-03-1.87548389E-06	3.16374121E-10	-1.95926845E-14		2	
-3.11634700E+03	-3.46877692E+01 3.68767444E+00	3.92120798E-02	-5.53770029E-05		3	
4.20097833E-08	-1.31260710E-11-8.30291184E+02	1.21967066E+01	1.59961321E+03		4	
N3	TPIS89N 3. 0. 0. 0.G	200.000	6000.000	42.02022	1	Gurvich (1989)
4.64110696E+00	2.76960700E-03-1.04917582E-06	1.75340720E-10	-1.07482704E-14		2	
5.06984238E+04	-9.40135456E-01 2.86063038E+00	4.24883549E-03	5.14572136E-06		3	
-1.01478406E-08	4.41878398E-12 5.13692093E+04	9.11596131E+00	5.24384480E+04		4	
N3H	L 7/88N 3.H 1. 0. 0.G	200.000	6000.000	43.02816	1	Gurvich (1989)
5.14700291E+00	4.30561265E-03-1.52704575E-06	2.46295774E-10	-1.47144164E-14		2	
3.34283986E+04	-2.25529103E+00 2.88510881E+00	9.44343451E-03	-3.87919336E-06		3	
-1.89404011E-09	1.60184132E-12 3.41172038E+04	9.71687818E+00	3.53598709E+04		4	
Na	L 4/93NA 1. 0. 0. 0.G	200.000	6000.000	22.98977	1	Chase (1985)
2.39858879E+00	2.15466997E-04-1.49077568E-07	3.66821795E-11	-1.66036037E-15		2	Martin (1981)
1.21943069E+04	4.79181133E+00 2.50000005E+00	-4.98492323E-10	1.76034086E-12		3	
-2.54461602E-15	1.27603872E-18 1.21597752E+04	4.24402786E+00	1.29051502E+04		4	
Na+	J12/83NA 1.E -1. 0. 0.G	298.150	6000.000	22.98922	1	Chase (1985)
2.50000000E+00	0.00000000E+00 0.00000000E+00	0.00000000E+00	0.00000000E+00		2	
7.25413250E+04	3.55084508E+00 2.50000000E+00	0.00000000E+00	0.00000000E+00		3	
0.00000000E+00	0.00000000E+00 7.25413250E+04	3.55084508E+00	7.32867000E+04		4	
NaAlF4	J12/79NA 1.AL 1.F 4. 0.G	300.000	5000.000	125.96492	1	Chase (1985)
1.42715530E+01	1.98001910E-03-8.81514840E-07	1.73221480E-10	-1.25129150E-14		2	
-2.26123470E+05	-4.12755180E+01 4.30521450E+00	4.49680340E-02	-7.43237870E-05		3	
5.80808610E-08	-1.74995560E-11-2.24149880E+05	6.37184599E+00	-2.21417721E+05		4	
NaB02	J3/671NA 1.B 1.0 2. 0.G	300.000	5000.000	66.79957	1	Chase (1985)
7.49652500E+00	2.63098620E-03-1.09791360E-06	2.04939980E-10	-1.41931460E-14		2	
-8.05785910E+04	-9.44630176E+00 4.06547490E+00	1.34549260E-02	-1.38666930E-05		3	
6.63950420E-09	-1.07286710E-12-7.97001570E+04	7.93481634E+00	-7.79999032E+04		4	
NaBr	J 9/64NA 1.BR 1. 0. 0.G	300.000	5000.000	102.89377	1	Chase (1985)
4.44331350E+00	1.57836570E-04-2.79896190E-08	5.38490380E-12	-3.80940540E-16		2	
-1.86594890E+04	3.60858216E+00 3.90108900E+00	2.50254010E-03	-3.88510880E-06		3	
2.83184970E-09	-7.72205280E-13-1.85561610E+04	6.18879326E+00	-1.73109142E+04		4	
NaCN	J3/66 NA 1.C 1.N 1. 0.G	300.000	5000.000	49.00751	1	Chase (1985)
5.79897750E+00	1.68279460E-03-6.74379240E-07	1.22345020E-10	-8.29660910E-15		2	
9.49334440E+03	-4.34426035E+00 4.97725580E+00	5.32259370E-03	-7.55524410E-06		3	
6.18397940E-09	-2.00714270E-12 9.67314900E+03	3.88207220E-01	1.13382134E+04		4	
NaCl	J12/64NA 1.CL 1. 0. 0.G	300.000	5000.000	58.44247	1	Chase (1985)
4.42829310E+00	1.56272410E-04-2.81083830E-08	4.71635710E-12	-2.88325570E-16		2	
-2.31709000E+04	2.30097464E+00 3.70322860E+00	3.19976080E-03	-4.89245020E-06		3	
3.46392180E-09	-9.13575210E-13-2.30282760E+04	5.77347954E+00	-2.18187495E+04		4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

NaF	J12/68NA 1.F 1. 0. 0.G	200.000	6000.000	41.98817	1	Chase (1985)
4.33376796E+00	2.56807777E-04	-6.94232621E-08	1.19679617E-11	-7.49308393E-16	2	
-3.62797872E+04	1.30046354E+00	2.74871833E+00	8.03243289E-03	-1.51563523E-05	3	
1.33592246E-08	-4.45165244E-12	-3.60002074E+04	8.68107812E+00	-3.49332673E+04	4	
NaF2-	J12/68NA 1.F 2.E 1. 0.G	300.000	5000.000	60.98712	1	Chase (1985)
7.12231930E+00	4.18840550E-04	-1.79722990E-07	3.40412290E-11	-2.37519350E-15	2	
-8.27557300E+04	-1.07866746E+01	4.58268890E+00	1.06052110E-02	-1.57205010E-05	3	
1.05672970E-08	-2.64159200E-12	-8.22344970E+04	1.48920754E+00	-8.05160536E+04	4	
NaH	J 3/63NA 1.H 1. 0. 0.G	300.000	5000.000	23.99771	1	Chase (1985)
3.81305790E+00	8.56438000E-04	-3.12268160E-07	5.85024710E-11	-4.05139240E-15	2	
1.36830620E+04	4.84168212E-01	3.12039500E+00	1.39962170E-03	2.21412340E-06	3	
-3.99507950E-09	1.67261780E-12	1.39400650E+04	4.39456127E+00	1.49450759E+04	4	
NaI	L 6/72NA 1.I 1. 0. 0.G	300.000	5000.000	149.89424	1	Rice (1957)
4.45845700E+00	1.42412780E-04	-1.69262750E-08	3.89600870E-12	-2.79663110E-16	2	Honig (1954)
-1.20668430E+04	4.47595877E+00	4.04062750E+00	1.96871110E-03	-3.05454240E-06	3	Lewis (1961)
2.25563230E-09	-6.22868320E-13	-1.19880410E+04	6.45980107E+00	-1.07186481E+04	4	
NaO	J12/67NA 1.0 1. 0. 0.G	300.000	5000.000	38.98917	1	Chase (1985)
4.39241580E+00	2.13205740E-04	-4.52205980E-08	7.97518210E-12	-5.17359890E-16	2	
8.71189950E+03	2.38808971E+00	3.44210070E+00	4.16172410E-03	-6.31183680E-06	3	
4.44791990E-09	-1.17204860E-12	8.90114770E+03	6.95032541E+00	1.00648575E+04	4	
NaO-	J12/67NA 1.0 1.E 1. 0.G	300.000	5000.000	38.98972	1	Chase (1985)
4.38680080E+00	2.23446720E-04	-4.82124720E-08	8.57208620E-12	-5.60943340E-16	2	
-1.59462680E+04	1.01363492E+00	3.41868550E+00	4.21173820E-03	-6.31046460E-06	3	
4.38735150E-09	-1.13726390E-12	-1.57522340E+04	5.66855652E+00	-1.45933736E+04	4	
NaOH	J12/70NA 1.0 1.H 1. 0.G	300.000	5000.000	39.99711	1	Chase (1985)
5.64693770E+00	1.22273850E-03	-3.32710360E-07	4.06662980E-11	-1.77906880E-15	2	
-2.55082220E+04	-5.03687458E+00	4.00503880E+00	9.99220430E-03	-1.64342130E-05	3	
1.24765850E-08	-3.46376100E-12	-2.53004710E+04	2.30643612E+00	-2.37844210E+04	4	
NaOH+	J12/71NA 1.0 1.H 1.E -1.G	300.000	5000.000	39.99656	1	Chase (1985)
5.66885470E+00	1.22539300E-03	-3.40295630E-07	4.28532680E-11	-1.95937600E-15	2	
7.98065140E+04	-3.42468266E+00	4.35052040E+00	8.74650150E-03	-1.46426730E-05	3	
1.13515010E-08	-3.21100260E-12	7.99463990E+04	2.34484074E+00	8.15238108E+04	4	
Na2	J12/83NA 2. 0. 0. 0.G	200.000	6000.000	45.97954	1	Chase (1985)
5.96201900E+00	-1.06049506E-03	-4.39279769E-07	3.05174810E-10	-3.39488816E-14	2	
1.49990927E+04	-6.69613634E+00	4.11568261E+00	2.52904040E-03	-5.62168645E-06	3	
6.46171665E-09	-2.75128310E-12	1.57824616E+04	3.68672446E+00	1.70837638E+04	4	
Na2C2N2	J3/66 NA 2.C 2.N 2. 0.G	300.000	5000.000	98.01502	1	Chase (1985)
1.25727860E+01	3.39473180E-03	-1.36169340E-06	2.47209590E-10	-1.67732540E-14	2	
-5.04910210E+03	-3.10741978E+01	1.03680290E+01	1.33485470E-02	-1.99103340E-05	3	
1.61564750E-08	-5.12645500E-12	-4.59375270E+03	-2.05494428E+01	-1.05562247E+03	4	
Na2CL2	J12/64NA 2.CL 2. 0. 0.G	300.000	5000.000	116.88494	1	Chase (1985)
9.82620010E+00	1.91847630E-04	-8.16087430E-08	1.52981810E-11	-1.05589940E-15	2	
-7.10771490E+04	-1.70361008E+01	7.95839530E+00	8.39623600E-03	-1.38171160E-05	3	
1.02776660E-08	-2.86449940E-12	-7.07259390E+04	-8.17532466E+00	-6.80830721E+04	4	
Na2F2	J12/68NA 2.F 2. 0. 0.G	300.000	5000.000	83.97634	1	Chase (1985)
9.43355300E+00	6.36115880E-04	-2.76247200E-07	5.29171900E-11	-3.73103530E-15	2	
-1.04801140E+05	-1.97529921E+01	4.82121910E+00	1.98363960E-02	-3.06176140E-05	3	
2.13370400E-08	-5.53443140E-12	-1.03890050E+05	2.36625455E+00	-1.01801889E+05	4	
Na2O	L10/74NA 2.0 1. 0. 0.G	300.000	5000.000	61.97894	1	Hildenbrand (1970)
7.14705820E+00	3.98330990E-04	-1.74089110E-07	3.35651620E-11	-2.38108010E-15	2	
-7.21912610E+03	-9.63481051E+00	4.77871770E+00	9.94877160E-03	-1.48144560E-05	3	
1.00032390E-08	-2.51378740E-12	-6.73602060E+03	1.79947629E+00	-4.98135741E+03	4	
Na2O2H2	J12/73NB 2.0 2.H 2. 0.G	300.000	5000.000	79.99422	1	Chase (1985)
9.41607430E+00	5.51965220E-03	-1.96596110E-06	3.26803440E-10	-2.07124850E-14	2	
-7.63663690E+04	-1.88543496E+01	5.97129300E+00	1.40492750E-02	-6.24451420E-06	3	
-3.39357460E-09	-2.89337690E-12	-7.54129380E+04	-9.37386378E-01	-7.30686609E+04	4	
Na2SO4	J 6/78NA 2.S 1.0 4. 0.G	300.000	5000.000	142.04314	1	Chase (1985)
1.52061280E+01	4.29842640E-03	-1.90084090E-06	3.71875300E-10	-2.67804570E-14	2	
-1.29673570E+05	-4.76569217E+01	2.07274980E+00	5.45820470E-02	-7.85435330E-05	3	
5.51042210E-08	-1.52666760E-11	-1.26769850E+05	1.66688263E+01	-1.24317797E+05	4	
Nb	J12/73NB 1. 0. 0. 0.G	300.000	5000.000	92.90638	1	Chase (1985)
4.22059050E+00	-1.81874390E-03	8.23739430E-07	-1.18328990E-10	5.36370530E-15	2	
8.69607130E+04	-1.18468643E+00	3.47550740E+00	2.05385640E-03	-6.96702630E-06	3	
6.80205590E-09	-2.25177180E-12	8.70877490E+04	2.24243697E+00	8.81660848E+04	4	
NbO	J12/73NB 1.0 1. 0. 0.G	300.000	5000.000	108.90578	1	Chase (1985)
3.88117290E+00	8.19781220E-04	-4.25353900E-07	1.02649360E-10	-8.04198010E-15	2	
2.26371320E+04	6.22364151E+00	2.92144850E+00	3.13240820E-03	-1.49003690E-06	3	
-9.93452600E-10	7.99840200E-13	2.29078860E+04	1.12362937E+01	2.39033917E+04	4	
NbO2	J12/73NB 1.0 2. 0. 0.G	200.000	6000.000	124.90518	1	Chase (1985)
6.05147948E+00	9.75153707E-04	-3.82697108E-07	6.54150420E-11	-4.07159079E-15	2	
-2.61008645E+04	-2.40015663E+00	3.57672681E+00	6.35895628E-03	-5.96442209E-07	3	
-6.34228956E-09	3.70832821E-12	-2.53873185E+04	1.06257008E+01	-2.40543339E+04	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

Ne	L10/90NE 1.	0.	0.	0.G	200.000	6000.000	20.17970	1	McBride (1993)
	2.50000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2	
	-7.45375000E+02	3.35532272E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		3	
	0.00000000E+00	0.00000000E+00	-7.45375000E+02	3.35532272E+00	0.00000000E+00	0.00000000E+00		4	
Ne+	L10/92NE 1.E	-1.	0.	0.G	298.150	6000.000	20.17915	1	Moore, C.E. (1971)
	2.90399557E+00	-3.63794635E-04	1.31873359E-07	-2.14209210E-11	1.28778499E-15			2	
	2.50143726E+05	2.56310321E+00	1.94106917E+00	4.40016552E-03	-8.57047417E-06			3	
	6.99691689E-09	-2.11573625E-12	2.50294275E+05	6.99178683E+00	2.51005687E+05			4	
Ni	J12/76NI 1.	0.	0.	0.G	300.000	5000.000	58.69340	1	Chase (1985)
	3.20614900E+00	-2.09699230E-04	-2.28364480E-08	1.50852110E-11	-1.00044450E-15			2	
	5.07081260E+04	3.53171623E+00	2.77666540E+00	-7.52206380E-04	4.32561130E-06			3	
	-5.47312870E-09	2.11075650E-12	5.09090830E+04	6.16823253E+00	5.17319098E+04			4	
NiCL	J 9/77NI 1.CL 1.	0.	0.	0.G	300.000	5000.000	94.14610	1	Chase (1985)
	5.58365140E+00	-1.43295780E-03	8.52077230E-07	-1.48863930E-10	8.15516240E-15			2	
	2.00565050E+04	-1.63732144E+00	3.48977570E+00	3.18379300E-03	-1.91489120E-06			3	
	-3.57363170E-10	4.60747680E-13	2.07259350E+04	9.54974436E+00	2.18905147E+04			4	
NiCL2	J12/76NI 1.CL 2.	0.	0.	0.G	300.000	5000.000	129.59880	1	Chase (1985)
	7.38745300E+00	8.46375950E-04	-4.31495420E-07	9.35908460E-11	-7.19151390E-15			2	
	-1.12358570E+04	-7.18895104E+00	4.56061770E+00	1.36137130E-02	-2.36601330E-05			3	
	1.96162640E-08	-6.24172910E-12	-1.06835710E+04	6.23619416E+00	-8.89195306E+03			4	
NiO	L 1/80NI 1.0 1.	0.	0.	0.G	200.000	5000.000	74.69280	1	Pedley (1983) Wagman (1982)
	4.10461140E+00	4.86591600E-04	-1.87867840E-07	3.55318550E-11	-2.47151660E-15			2	
	3.64456450E+04	4.07692910E+00	2.99196820E+00	3.33092080E-03	-1.53524710E-06			3	
	-1.56408330E-09	1.21285010E-12	3.67420940E+04	9.82153990E+00	3.77657540E+04			4	
NiS	J12/76NI 1.S 1.	0.	0.	0.G	300.000	5000.000	90.75940	1	Chase (1985)
	4.91604720E+00	3.13774510E-04	-2.97018130E-07	8.01797240E-11	-6.72574180E-15			2	
	4.13210320E+04	1.81898797E+00	3.11681070E+00	4.01735280E-03	-1.55839110E-06			3	
	-1.50635360E-09	9.36838810E-13	4.18968570E+04	1.14677351E+01	4.29883902E+04			4	
O	L 1/90O 1.	0.	0.	0.G	200.000	6000.000	15.99940	1	Moore, C.E. (1976) Brix (1954)
	2.54363697E+00	-2.73162486E-05	-4.19029520E-09	4.95481845E-12	-4.79553694E-16			2	
	2.92260120E+04	4.92229457E+00	3.16826710E+00	-3.27931884E-03	6.64306396E-06			3	
	-6.12806624E-09	2.11265971E-12	2.91222592E+04	2.05193346E+00	2.99687009E+04			4	
O+	L 1/90O 1.E -1.	0.	0.	0.G	298.150	6000.000	15.99885	1	Moore, C.E. (1971) Moore, C.E. (1976)
	2.48773317E+00	2.17660016E-05	-1.08955806E-08	1.25909212E-12	1.37316720E-16			2	
	1.87939965E+05	4.46134078E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	1.87935291E+05	4.39337676E+00	1.88680666E+05			4	
O-	TPIS890 1.E 1.	0.	0.	0.G	298.150	6000.000	15.99995	1	Gurvich (1989)
	2.54474868E+00	-4.66695419E-05	1.84912310E-08	-3.18159131E-12	1.98962894E-16			2	
	1.14822713E+04	4.52131018E+00	2.90805921E+00	-1.69804907E-03	2.98069956E-06			3	
	-2.43835127E-09	7.61229313E-13	1.14138341E+04	2.80339097E+00	1.22272740E+04			4	
OD	J 6/77O 1.D 1.	0.	0.	0.G	300.000	5000.000	18.01350	1	Chase (1985)
	2.78291070E+00	1.57395670E-03	-5.70207870E-07	9.88644090E-11	-6.50620140E-15			2	
	3.57598130E+03	6.67567116E+00	4.03467510E+00	-2.45613130E-03	3.96102010E-06			3	
	-1.85349960E-09	1.92953410E-13	3.27705070E+03	3.94185974E-01	4.40224516E+03			4	
OH	TPIS780 1.H 1.	0.	0.	0.G	200.000	6000.000	17.00734	1	Gurvich (1978)
	2.83864607E+00	1.10725586E-03	-2.93914978E-07	4.20524247E-11	-2.42169092E-15			2	
	3.94395852E+03	5.84452662E+00	3.99201543E+00	-2.40131752E-03	4.61793841E-06			3	
	-3.88113333E-09	1.36411470E-12	3.61508056E+03	-1.03925458E-01	4.73234213E+03			4	
OH+	TPIS780 1.H 1.E -1.	0.	0.	0.G	298.150	6000.000	17.00679	1	Gurvich (1978)
	2.68358997E+00	1.57006432E-03	-5.39972805E-07	9.37643859E-11	-5.70068055E-15			2	
	1.54395744E+05	6.44375888E+00	3.50502572E+00	2.41313749E-04	-1.42200949E-06			3	
	2.64780232E-09	-1.17038711E-12	1.54127124E+05	1.97907627E+00	1.55174989E+05			4	
OH-	L 3/93O 1.H 1.E 1.	0.	0.	0.G	298.150	6000.000	17.00789	1	Gurvich (1989)
	2.83405701E+00	1.07058023E-03	-2.62459398E-07	3.08376435E-11	-1.31383862E-15			2	
	-1.80186974E+04	4.49464762E+00	3.43279956E+00	6.19656310E-04	-1.89930992E-06			3	
	2.37365946E-09	-8.55103755E-13	1.82613086E+04	1.06053670E+00	-1.72227709E+04			4	
O2	TPIS890 2.	0.	0.	0.G	200.000	6000.000	31.99880	1	McBride (1993)
	3.66096083E+00	6.56365523E-04	-1.41149485E-07	2.05797658E-11	-1.29913248E-15			2	
	-1.21597725E+03	3.41536184E+00	3.78245636E+00	-2.99673415E-03	9.84730200E-06			3	
	-9.68129508E-09	3.24372836E-12	-1.06394356E+03	3.65767573E+00	0.00000000E+00			4	
O2+	TPIS890 2.E -1.	0.	0.	0.G	298.150	6000.000	31.99825	1	Gurvich (1989)
	3.31675922E+00	1.11522244E-03	-3.83492556E-07	5.72784687E-11	-2.77648381E-15			2	
	1.39876823E+05	5.44726469E+00	4.61017167E+00	-6.35951952E-03	1.42425624E-05			3	
	-1.20997923E-08	3.70956878E-12	1.39742229E+05	-2.01326941E-01	1.40937762E+05			4	
O2-	L 4/89O 2.E 1.	0.	0.	0.G	298.150	6000.000	31.99935	1	Gurvich (1989)
	3.95666294E+00	5.98141823E-04	-2.12133905E-07	3.63267581E-11	-2.24989228E-15			2	
	-7.06287229E+03	2.27871017E+00	3.66442522E+00	-9.28741138E-04	6.45477082E-06			3	
	-7.74703380E-09	2.93332662E-12	-6.87076983E+03	4.35140681E+00	-5.77639825E+03			4	
O3	L 5/90O 3.	0.	0.	0.G	200.000	6000.000	47.99820	1	Gurvich (1989)
	1.23302914E+01	-1.19324783E-02	7.98741278E-06	-1.77194552E-09	1.26075824E-13			2	
	1.26755831E+04	-4.08823374E+01	3.40738221E+00	2.05379063E-03	1.38486052E-05			3	
	-2.23311542E-08	9.76073226E-12	1.58644979E+04	8.28247580E+00	1.70545228E+04			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

P	J12/82P	1.	0.	0.	0.G	200.000	6000.000	30.97376	1	Chase (1985)
		2.80721555E+00-5	3.0841988E-04	2.44543046E-07	-2.05708252E-11	-2.94546619E-16			2	
		3.71892748E+04	3.67764723E+00	2.50004278E+00	-4.38968637E-07	1.58131741E-09			3	
		-2.33900457E-12	1.20510940E-15	3.73073754E+04	5.38414719E+00	3.80527536E+04			4	
P+	L12/66P	1.E	-1.	0.	0.G	300.000	5000.000	30.97321	1	Moore, C.E. (1971)
		2.90215470E+00-5	8.8788990E-04	3.12981190E-07	-5.97275390E-11	3.93049250E-15			2	
		1.59944127E+05	3.83370632E+00	4.37904170E+00	-6.46667230E-03	8.93409620E-06			3	
		-5.48580210E-09	1.20988570E-12	1.59647807E+05	-3.29374038E+00	1.60734657E+05			4	
PCL3	J 6/70P	1.CL	3.	0.	0.G	300.000	5000.000	137.33186	1	Chase (1985)
		4.45661160E+00	6.02784010E-04	-2.58468780E-07	4.89042800E-11	-3.40832850E-15			2	
		-3.77045574E+04	-1.69296498E+01	5.25905370E+00	1.78805660E-02	-2.73175850E-05			3	
		1.88982400E-08	-4.87384960E-12	-3.68644304E+04	3.25232968E+00	-3.47080119E+04			4	
PF	J 6/77P	1.F	1.	0.	0.G	300.000	5000.000	49.97217	1	Chase (1985)
		4.28444030E+00	4.65131920E-05	1.29231550E-07	-3.54596860E-11	2.93086420E-15			2	
		-7.67566495E+03	2.40196395E+00	2.67608630E+00	5.57221620E-03	-7.28377960E-06			3	
		4.58194390E-09	-1.11881060E-12	-7.28916135E+03	1.04341832E+01	-6.29944377E+03			4	
PF+	J 6/77P	1.F	1.E	-1.	0.G	300.000	5000.000	49.97162	1	Chase (1985)
		4.08161840E+00	4.95069100E-04	-2.03198080E-07	3.92348470E-11	-2.78303370E-15			2	
		1.07145847E+05	3.44441678E+00	3.94021220E+00	-5.37845820E-04	3.93561060E-06			3	
		-4.67261940E-09	1.74458380E-12	1.07252597E+05	4.51850338E+00	1.08429826E+05			4	
PF-	J 6/77P	1.F	1.E	1.	0.G	300.000	5000.000	49.97271	1	Chase (1985)
		4.30376910E+00	2.63926300E-04	-9.87743030E-08	1.87118210E-11	-1.21102520E-15			2	
		-2.10581444E+04	2.41229141E+00	3.59513760E+00	3.03129090E-03	-4.40629140E-06			3	
		3.15834750E-09	-8.92062670E-13	-2.09040944E+04	5.86990641E+00	-1.97305817E+04			4	
PF2	J 6/77P	1.F	2.	0.	0.G	300.000	5000.000	68.97057	1	Chase (1985)
		6.09265880E+00	1.03133240E-03	-4.53710200E-07	8.70455830E-11	-5.97140520E-15			2	
		-6.07553254E+04	-3.78513004E+00	2.44285260E+00	1.51863310E-02	-2.21969240E-05			3	
		1.56489320E-08	-4.32983720E-12	-5.99609804E+04	1.40371170E+01	-5.87248863E+04			4	
PF2+	J 6/77P	1.F	2.E	-1.	0.G	300.000	5000.000	68.97002	1	Chase (1985)
		6.07261540E+00	1.05882490E-03	-4.67581660E-07	8.96122980E-11	-6.04542170E-15			2	
		5.47769396E+04	-4.35167158E+00	2.47021360E+00	1.49226760E-02	-2.15731390E-05			3	
		1.50543860E-08	-4.12671090E-12	5.55655406E+04	1.32636740E+01	5.68025058E+04			4	
PF3	J12/69P	1.F	3.	0.	0.G	300.000	5000.000	87.96897	1	Chase (1985)
		8.43477330E+00	1.73939200E-03	-7.51198080E-07	1.43442470E-10	-1.00939790E-14			2	
		-1.18180783E+05	-1.64636020E+01	2.36218780E+00	2.28200450E-02	-2.76566420E-05			3	
		1.44909620E-08	-2.46023600E-12	-1.16776903E+05	1.36864320E+01	-1.15275206E+05			4	
PF5	J12/69P	1.F	5.	0.	0.G	300.000	5000.000	125.96578	1	Chase (1985)
		1.28461840E+01	3.51044850E-03	-1.51986040E-06	2.91019040E-10	-2.05347080E-14			2	
		-1.96362263E+05	-3.94755420E+01	1.05232490E+00	4.44540040E-02	-5.39014290E-05			3	
		2.84166860E-08	-4.91432680E-12	-1.93632313E+05	1.90890100E+01	-1.91765100E+05			4	
PH	J 6/67P	1.H	1.	0.	0.G	300.000	5000.000	31.98170	1	Chase (1985)
		3.07454420E+00	1.16989470E-03	-3.03816540E-07	4.44363140E-11	-2.70009750E-15			2	
		2.74268316E+04	5.76804846E+00	3.68034330E+00	-1.27560180E-03	2.59324420E-06			3	
		-8.43541070E-10	-1.72086090E-13	2.73339656E+04	2.91864116E+00	2.83957262E+04			4	
PH3	J 6/62P	1.H	3.	0.	0.G	300.000	5000.000	33.99758	1	Chase (1985)
		3.34487940E+00	6.57709410E-03	-2.63367550E-06	4.77446600E-10	-3.23543900E-14			2	
		-8.16176752E+02	3.95479617E+00	3.15819350E+00	2.49414920E-03	9.02552530E-06			3	
		-1.02279040E-08	3.28342500E-12	-4.61237252E+02	6.23722477E+00	6.52312908E+02			4	
PO	J 6/71P	1.0	1.	0.	0.G	300.000	5000.000	46.97316	1	Chase (1985)
		3.84279220E+00	7.23644560E-04	-2.89341990E-07	5.30135540E-11	-3.54953730E-15			2	
		-4.79945495E+03	4.55237735E+00	3.96130800E+00	-2.12353990E-03	7.52012190E-06			3	
		-7.59509120E-09	2.56375910E-12	-4.69896895E+03	4.58369215E+00	-3.55964877E+03			4	
P02	J 9/62P	1.0	2.	0.	0.G	300.000	5000.000	62.97256	1	Chase (1985)
		5.69132780E+00	1.48068660E-03	-6.54256920E-07	1.27932310E-10	-9.20992770E-15			2	
		-3.97947254E+04	-2.81972206E+00	2.33452730E+00	1.25021000E-02	-1.43361950E-05			3	
		7.67621660E-09	-1.54016940E-12	-3.89688654E+04	1.40544350E+01	-3.78293636E+04			4	
P2	J 6/61P	2.	0.	0.	0.G	300.000	5000.000	61.94752	1	Chase (1985)
		4.16117330E+00	3.96208000E-04	-1.55803390E-07	2.90934740E-11	-2.00424580E-15			2	
		1.59468693E+04	2.24109239E+00	2.83911070E+00	4.82661930E-03	-5.49474880E-06			3	
		2.58005070E-09	-3.22364530E-13	1.62597073E+04	8.84241009E+00	1.72771170E+04			4	
P4	J 6/61P	4.	0.	0.	0.G	300.000	5000.000	123.89505	1	Chase (1985)
		9.22627890E+00	8.68941280E-04	-3.77583380E-07	7.23796660E-11	-5.10661090E-15			2	
		4.09054959E+03	-1.96417049E+01	3.53533000E+00	2.41252920E-02	-3.64627590E-05			3	
		2.49169060E-08	-6.32985630E-12	5.23553359E+03	7.75589569E+00	7.08599199E+03			4	
P4010	J12/65P	4.0	10.	0.	0.G	300.000	5000.000	283.88905	1	Chase (1985)
		2.89396590E+01	1.24520960E-02	-5.48543200E-06	1.07047430E-09	-7.69568570E-14			2	
		-3.60148633E+05	-1.23859447E+02	-4.41428830E+00	1.37590810E-01	-1.92685980E-04			3	
		1.32720680E-07	-3.63113780E-11	-3.52629523E+05	4.01782260E+01	-3.49287392E+05			4	
Pb	J 3/83PB	1.	0.	0.	0.G	200.000	6000.000	207.20000	1	Chase (1985)
		4.16342379E+00	-3.49637723E-03	2.28263170E-06	-4.76749242E-10	3.22223800E-14			2	
		2.21687499E+04	-2.13525305E+00	2.50229005E+00	-2.44053643E-05	9.17082578E-08			3	
		-1.42817771E-10	7.83762196E-14	2.27314919E+04	6.84009322E+00	2.34770299E+04			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

PbBr	J12/73PB 1.BR 1.	0.	0.G	300.000	5000.000	287.10400	1	Chase (1985)
	4.72687660E+00-4.39183900E-04	3.32155820E-07	-6.53072400E-11	4.27261120E-15			2	
	7.09889590E+03	5.86735159E+00	4.19068400E+00	1.34111780E-03	-2.09789940E-06		3	
	1.55109080E-09-4.26179120E-13	7.23694690E+03	8.57477819E+00	8.53033705E+03			4	
PbBr2	J12/73PB 1.BR 2.	0.	0.G	300.000	5000.000	367.00800	1	Chase (1985)
	6.94729060E+00	6.01990010E-05	-2.65566850E-08	5.15960120E-12	-3.68370500E-16		2	
	-1.46454410E+04	1.18015799E+00	6.39020910E+00	2.52890500E-03	-4.19037430E-06		3	
	3.13675230E-09-8.79767450E-13	-1.45417920E+04	3.81752929E+00	-1.25553875E+04			4	
PbBr4	J12/73PB 1.BR 4.	0.	0.G	300.000	5000.000	526.81600	1	Chase (1985)
	1.28569730E+01	1.63239400E-04	-7.19703900E-08	1.39757490E-11	-9.97361870E-16		2	
	-5.87720950E+04-2.21457500E+01	1.13793660E+01	6.66258720E-03	-1.09406480E-05			3	
	8.10947390E-09-2.24955750E-12	-5.84954310E+04	-1.51401680E+01	-5.48882380E+04			4	
PbCl	J 6/73PB 1.CL 1.	0.	0.G	300.000	5000.000	242.65270	1	Chase (1985)
	4.70165350E+00-4.22551710E-04	3.26847790E-07	-6.51621470E-11	4.29786020E-15			2	
	3.77979910E+02	4.43744174E+00	3.89729120E+00	2.48674640E-03	-3.91571440E-06		3	
	2.84942830E-09-7.72665800E-13	5.68625790E+02	8.42847364E+00	1.81180238E+03			4	
PbCl+	J 6/73PB 1.CL 1.E -1.	0.	0.G	300.000	5000.000	242.65215	1	Chase (1985)
	6.84916970E+00	9.74023070E-05	-4.88211340E-09	-2.54722460E-12	6.24708770E-16		2	
	8.83258470E+04	5.21310064E+00	3.96048080E+00	2.25113840E-03	-3.55593020E-06		3	
	2.61309650E-09-7.19012840E-13	8.84213700E+04	7.58774284E+00	8.96756515E+04			4	
PbCl2	J 6/73PB 1.CL 2.	0.	0.G	300.000	5000.000	278.10540	1	Chase (1985)
	1.26696730E+00	2.06013080E-04	-1.00234340E-07	1.92627720E-11	-8.79414190E-16		2	
	-2.30163620E+04-9.63755109E-01	5.63994070E+00	5.46221340E-03	-8.80568720E-06			3	
	6.41972300E-09-1.75185910E-12	-2.27923360E+04	4.72790485E+00	-2.09339476E+04			4	
PbCl2+	J 6/73PB 1.CL 2.E -1.	0.	0.G	300.000	5000.000	278.10485	1	Chase (1985)
	4.84188370E+00	1.97924730E-04	-9.65628220E-08	2.01064400E-11	-1.32465790E-15		2	
	9.60940180E+04-8.16043488E-01	5.56538760E+00	5.74684170E-03	-9.24450410E-06			3	
	6.72568880E-09-1.83138580E-12	9.63349850E+04	5.24905399E+00	9.81804864E+04			4	
PbCl4	J12/73PB 1.CL 4.	0.	0.G	300.000	5000.000	349.01080	1	Chase (1985)
	1.26696730E+01	3.75122560E-04	-1.64653700E-07	3.18488550E-11	-2.26509470E-15		2	
	-7.03291510E+04-2.66238322E+01	9.62829790E+00	1.34564380E-02	-2.15717310E-05			3	
	1.56382150E-08-4.24149220E-12	-6.97464870E+04	-1.21348482E+01	-6.64393967E+04			4	
PbF	J12/73PB 1.F 1.	0.	0.G	300.000	5000.000	226.19840	1	Chase (1985)
	4.60521960E+00-3.26222170E-04	2.82982530E-07	-5.71205940E-11	3.73978130E-15			2	
	-1.10869170E+04	3.74059421E+00	3.24544820E+00	4.69361660E-03	-6.97800280E-06		3	
	4.74593040E-09-1.19839280E-12	-1.07770730E+04	1.04437320E+01	-9.65366318E+03			4	
PbF2	J12/73PB 1.F 2.	0.	0.G	300.000	5000.000	245.19681	1	Chase (1985)
	6.63545930E+00	4.11731090E-04	-1.80046090E-07	3.47289840E-11	-2.46452690E-15		2	
	-5.44250590E+04-2.94686193E+00	4.12956940E+00	1.05616260E-02	-1.58081440E-05			3	
	1.07257480E-08-2.70938900E-12	-5.39161210E+04	9.14042487E+00	-5.23352056E+04			4	
PbF4	J12/73PB 1.F 4.	0.	0.G	300.000	5000.000	283.19361	1	Chase (1985)
	1.21277740E+01	9.84210460E-04	-4.30061590E-07	8.29024210E-11	-5.88002020E-15		2	
	-1.40203450E+05-2.97909440E+01	6.27453870E+00	2.45762820E-02	-3.65675370E-05			3	
	2.46632660E-08-6.18760080E-12	-1.39009170E+05	-1.52958550E+00	-1.36323331E+05			4	
PbI	J12/73PB 1.I 1.	0.	0.G	300.000	5000.000	334.10447	1	Chase (1985)
	4.71861120E+00-4.18822360E-04	3.09708470E-07	-5.92033630E-11	3.87739700E-15			2	
	1.15341100E+04	6.83919406E+00	4.30733950E+00	8.56682320E-04	-1.31645540E-06		3	
	9.71872390E-10-2.65267440E-13	1.16457440E+04	8.94132936E+00	1.29582187E+04			4	
PbI2	J12/73PB 1.I 2.	0.	0.G	300.000	5000.000	461.00894	1	Chase (1985)
	6.97611080E+00	2.74745710E-05	-1.22042160E-08	2.38624890E-12	-1.71337680E-16		2	
	-2.47078980E+03	3.47173649E+00	6.71692250E+00	1.18498790E-03	-1.97915550E-06		3	
	1.49273780E-09-4.21896460E-13	-2.42295050E+03	4.69675599E+00	-3.82366018E+02			4	
PbI4	J12/73PB 1.I 4.	0.	0.G	300.000	5000.000	714.81788	1	Chase (1985)
	1.29276610E+01	8.29982860E-05	-3.67816670E-08	7.17642940E-12	-5.14309570E-16		2	
	-3.08776290E+04-1.76557593E+01	1.21502660E+01	3.53870810E-03	-5.87824340E-06			3	
	4.40721590E-09-1.23740500E-12	-3.07335650E+04	-1.39781323E+01	-2.69974873E+04			4	
PbO	J12/71PB 1.0 1.	0.	0.G	300.000	5000.000	223.19940	1	Chase (1985)
	4.11362420E+00	5.37788570E-04	-2.37633940E-07	4.24256880E-11	-1.22940440E-15		2	
	7.15192600E+03	5.15041319E+00	2.65398670E+00	6.66441150E-03	-1.03123630E-05		3	
	7.66632590E-09-2.21738640E-12	7.44375130E+03	1.21567130E+01	8.45424386E+03			4	
PbS	J 6/73PB 1.S 1.	0.	0.G	300.000	5000.000	239.26600	1	Chase (1985)
	4.09115220E+00	8.38853590E-04	-5.71572070E-07	1.61604760E-10	-1.25118970E-14		2	
	1.46016950E+04	6.70074801E+00	3.47745320E+00	3.97002950E-03	-6.10966890E-06		3	
	4.30086820E-09-1.13115490E-12	1.46847510E+04	9.47780941E+00	1.58519958E+04			4	
Pb2	J 9/62S 2.	0.	0.G	300.000	5000.000	414.40000	1	Chase (1985)
	4.45983400E+00	2.40063810E-04	-1.92598630E-08	3.64569370E-12	-2.53809340E-16		2	
	3.86540490E+04	8.32496049E+00	4.05012220E+00	2.02300010E-03	-2.97013460E-06		3	
	2.17859570E-09-5.97553270E-13	3.87316400E+04	1.02719920E+01	4.00068822E+04			4	
S	J 9/82S 1.	0.	0.G	200.000	6000.000	32.06600	1	Chase (1985)
	2.87936498E+00-5.11050388E-04	2.53806719E-07	-4.45455458E-11	2.66717362E-15			2	
	3.25013791E+04	3.98140647E+00	2.31725616E+00	4.78018342E-03	-1.42082674E-05		3	
	1.56569538E-08-5.96588299E-12	3.25068976E+04	6.06242434E+00	3.33128471E+04			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

S+	J 9/82S 1.E -1. 0. 0.G	298.150	6000.000	32.06545	1	Chase (1985)
	2.46524359E+00 1.14257212E-04-1.19572699E-07	4.38771359E-11-3.80523639E-15			2	
	1.53485422E+05 5.60821364E+00 2.50000000E+00	0.00000000E+00 0.00000000E+00			3	
	0.00000000E+00 0.00000000E+00 1.53478145E+05	5.43627012E+00 1.54223520E+05			4	
S-	J 9/82S 1.E 1. 0. 0.G	298.150	6000.000	32.06655	1	Chase (1985)
	2.72948060E+00-2.24894928E-04	8.58648854E-08-1.44256169E-11	8.87491196E-16		2	
	7.65980069E+03 4.39902733E+00 2.51353070E+00	1.93516857E-03-5.38438357E-06			3	
	5.40313356E-09-1.89053684E-12 7.64303006E+03	5.13282009E+00 8.44066578E+03			4	
SCL	J 6/78S 1.CL 1. 0. 0.G	300.000	5000.000	102.971870	1	Chase (1985)
	4.59472600E+00-5.97717860E-05 4.52264950E-08	-9.37184350E-12 8.07357270E-16			2	
	1.74524260E+04 2.37985153E+00 3.70558800E+00	5.27186230E-03-1.13718200E-05			3	
	1.04978270E-08-3.53184080E-12 1.75611590E+04	6.27945123E+00 1.88189067E+04			4	
SCL2	J 6/78S 1.CL 2. 0. 0.G	300.000	5000.000	102.97140	1	Chase (1985)
	6.62714620E+00 4.27470190E-04-1.88168810E-07	3.57611550E-11-2.38494000E-15			2	
	-4.20002190E+03-4.23237025E+00 3.59663710E+00	1.43271930E-02-2.51991970E-05			3	
	2.05728820E-08-6.39769080E-12-3.63758370E+03	1.00605557E+01-2.11344531E+03			4	
SCL2+	J 6/78S 1.CL 2.E -1. 0. 0.G	300.000	5000.000	102.97085	1	Chase (1985)
	6.58025700E+00 5.21764000E-04-2.50769790E-07	5.09881240E-11-3.27302920E-15			2	
	1.06354860E+05-3.29493834E+00 3.59587270E+00	1.42916650E-02-2.50849980E-05			3	
	2.04468930E-08-6.35046690E-12 1.06902830E+05	1.07558337E+01 1.08425944E+05			4	
SD	J 6/77S 1.D 1. 0. 0.G	300.000	5000.000	34.08010	1	Chase (1985)
	3.34719880E+00 1.21296460E-03-4.77301380E-07	8.83236690E-11-6.07405910E-15			2	
	1.56271470E+04 4.87764189E+00 4.72855970E+00	-5.09398810E-03 9.91346050E-06			3	
	-7.32908130E-09 1.94616080E-12 1.53995790E+04	-1.56847961E+00 1.66570071E+04			4	
SF	J 6/77S 1.F 1. 0. 0.G	300.000	5000.000	51.06440	1	Chase (1985)
	4.36908850E+00 1.92044240E-04-6.66303650E-08	1.24485900E-11-7.65374940E-16			2	
	2.20185260E+02 2.07596854E+00 3.42081750E+00	4.55111980E-03-7.93725640E-06			3	
	6.50047110E-09-2.02896650E-12 3.96095030E+02	6.54700574E+00 1.56005789E+03			4	
SF+	J 6/77S 1.F 1.E -1. 0. 0.G	300.000	5000.000	51.06385	1	Chase (1985)
	4.28072480E+00 1.03674330E-04 5.54416650E-08	-1.14332950E-11 5.58469060E-16			2	
	1.17921920E+05 2.45939453E+00 2.66666480E+00	5.69754910E-03-7.60574220E-06			3	
	4.91194550E-09-1.24145140E-12 1.18310330E+05	1.05150192E+01 1.19300559E+05			4	
SF-	J12/76S 1.F 1.E 1. 0. 0.G	300.000	5000.000	51.06495	1	Chase (1985)
	4.12706720E+00 6.25693400E-04-3.12469860E-07	7.17224760E-11-4.70614040E-15			2	
	-2.37348810E+04 2.55369406E+00 2.75979360E+00	6.86582200E-03-1.13145190E-05			3	
	8.87463700E-09-2.67842700E-12-2.34863060E+04	8.99350676E+00-2.24419989E+04			4	
SF2	J12/76S 1.F 2. 0. 0.G	300.000	5000.000	70.06281	1	Chase (1985)
	6.11941960E+00 1.00514240E-03-4.46533130E-07	8.76240100E-11-6.32365120E-15			2	
	-3.77142410E+04-4.55717403E+00 2.41030560E+00	1.56901210E-02-2.31780180E-05			3	
	1.65834970E-08-4.64657610E-12-3.69163730E+04	1.35066804E+01-3.56790061E+04			4	
SF2+	J12/76S 1.F 2.E -1. 0. 0.G	300.000	5000.000	70.06226	1	Chase (1985)
	6.12090000E+00 9.99848170E-04-4.39929320E-07	8.43681370E-11-5.77953780E-15			2	
	8.24445850E+04-3.86307537E+00 2.42714900E+00	1.55175460E-02-2.30602590E-05			3	
	1.64996120E-08-4.62464180E-12 8.32395570E+04	1.41278866E+01 8.44796050E+04			4	
SF2-	J12/76S 1.F 2.E 1. 0. 0.G	300.000	5000.000	70.06335	1	Chase (1985)
	6.58471230E+00 4.78860900E-04-2.14054400E-07	4.21757030E-11-3.05239100E-15			2	
	-5.00057050E+04-5.73334798E+00 3.29005030E+00	1.56386120E-02-2.72366040E-05			3	
	2.21827990E-08-6.88621560E-12-4.93919250E+04	9.81747752E+00-4.79204012E+04			4	
SF3	J 6/77S 1.F 3. 0. 0.G	300.000	5000.000	89.06121	1	Chase (1985)
	8.80768970E+00 1.36716760E-03-6.08083330E-07	1.18830220E-10-8.44709150E-15			2	
	-6.34404940E+04-1.67648869E+01 1.87777280E+00	3.12340350E-02-5.15713790E-05			3	
	4.02473220E-08-1.21105940E-11-6.20679390E+04	1.63694361E+01-6.05016370E+04			4	
SF3+	J12/76S 1.F 3.E -1. 0. 0.G	300.000	5000.000	89.06066	1	Chase (1985)
	8.13850160E+00 2.12889140E-03-9.48368220E-07	1.86074360E-10-1.32717290E-14			2	
	4.44867300E+04-1.54212422E+01 1.00185080E+00	2.97551550E-02-4.33567940E-05			3	
	3.05549640E-08-8.46334790E-12 4.60441840E+04	1.94445008E+01 4.73387417E+04			4	
SF3-	J12/76S 1.F 3.E 1. 0. 0.G	300.000	5000.000	89.06176	1	Chase (1985)
	8.80958260E+00 1.36436780E-03-6.07573210E-07	1.19405320E-10-8.62593320E-15			2	
	-9.63202650E+04-1.74943707E+01 1.87887610E+00	3.12261740E-02-5.15517490E-05			3	
	4.02267880E-08-1.21029320E-11-9.49470550E+04	1.56459843E+01-9.33806370E+04			4	
SF4	J 6/76S 1.F 4. 0. 0.G	300.000	5000.000	108.05961	1	Chase (1985)
	1.11243830E+01 2.14579940E-03-9.54524440E-07	1.87461110E-10-1.35359530E-14			2	
	-9.55816690E+04-2.88756477E+01 1.28196450E+00	4.35698990E-02-7.01251680E-05			3	
	5.36772440E-08-1.59143560E-11-9.35867010E+04	1.84198703E+01-9.17889260E+04			4	
SF4+	J12/76S 1.F 4.E -1. 0. 0.G	300.000	5000.000	108.05906	1	Chase (1985)
	1.13519410E+01 1.88756620E-03-8.39040620E-07	1.64149380E-10-1.17351950E-14			2	
	4.62247670E+04-2.85715083E+01 1.96158130E+00	4.21320940E-02-6.91555650E-05			3	
	5.37206660E-08-1.61058950E-11 4.80947400E+04	1.63799007E+01 5.00397986E+04			4	
SF4-	J12/76S 1.F 4.E 1. 0. 0.G	300.000	5000.000	108.06016	1	Chase (1985)
	1.20033260E+01 1.20077130E-03-5.73982740E-07	1.22993850E-10-9.29527340E-15			2	
	-1.10603080E+05-3.16592651E+01 4.07937620E+00	3.78395030E-02-6.69046570E-05			3	
	5.48224340E-08-1.70928440E-11-1.09146420E+05	5.64178773E+00-1.06739135E+05			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

SF5	J12/77S 1.F 5. 0. 0.G	300.000 5000.000	127.05802	1	Chase (1985)
	1.36105630E+01 2.65231300E-03-1.16914630E-06	2.42451320E-10-1.83147180E-14		2	
	-1.14002930E+05-4.30151012E+01-1.71476620E+00	6.87160080E-02-1.14079330E-04		3	
	8.93363790E-08-2.69404290E-11-1.10961780E+05	3.02724678E+01-1.09262883E+05		4	
SF5+	J12/77S 1.F 5.E -1. 0.G	300.000 5000.000	127.05747	1	Chase (1985)
	1.36842160E+01 2.51770230E-03-1.08543930E-06	2.25337450E-10-1.72239170E-14		2	
	1.60049080E+04-4.41997237E+01-1.71648610E+00	6.89400460E-02-1.14710510E-04		3	
	8.99778650E-08-2.71663260E-11 1.90611490E+04	2.94445133E+01 2.07650756E+04		4	
SF5-	J12/77S 1.F 5.E 1. 0.G	300.000 5000.000	127.05856	1	Chase (1985)
	1.43219100E+01 1.93130330E-03-8.62199360E-07	1.69723950E-10-1.22748600E-14		2	
	-1.57343150E+05-4.51592537E+01 1.84776490E+00	5.83763690E-02-1.01313140E-04		3	
	8.19569770E-08-2.53195050E-11-1.54993260E+05	1.38538843E+01-1.52592788E+05		4	
SF6	J 6/76S 1.F 6. 0. 0.G	300.000 5000.000	146.05642	1	Chase (1985)
	1.51629500E+01 4.38423180E-03-1.9486370E-06	3.82471960E-10-2.76050500E-14		2	
	-1.52268010E+05-5.44157194E+01-3.83880880E+00	8.32217210E-02-1.31816890E-04		3	
	9.96361640E-08-2.92487670E-11-1.48364770E+05	3.71611426E+01-1.46791868E+05		4	
SF6-	J 6/77S 1.F 6.E 1. 0.G	300.000 5000.000	146.05697	1	Chase (1985)
	1.54286460E+01 4.08453170E-03-1.81649030E-06	3.56673280E-10-2.57500000E-14		2	
	-1.66898840E+05-5.43961218E+01-3.26092720E+00	8.26953690E-02-1.32998120E-04		3	
	1.01737680E-07-3.01463830E-11-1.63108600E+05	3.54233442E+01-1.61393505E+05		4	
SH	J 6/77S 1.H 1. 0. 0.G	300.000 5000.000	33.07394	1	Chase (1985)
	3.00145370E+00 1.33949570E-03-4.67896630E-07	7.88040150E-11-5.02804530E-15		2	
	1.59053200E+04 6.28462715E+00 4.44203220E+00	-2.43591970E-03 1.90645760E-06		3	
	9.91666300E-10-9.57407620E-13 1.55232580E+04	-1.14449035E+00 1.67577318E+04		4	
SN	J 6/61S 1.N 1. 0. 0.G	300.000 5000.000	46.07274	1	Chase (1985)
	3.84939760E+00 7.27567880E-04-2.93702030E-07	5.50136280E-11-3.81235510E-15		2	
	3.04599620E+04 4.43127355E+00 3.94229710E+00	-2.00355150E-03 7.35346440E-06		3	
	-7.51685600E-09 2.55910980E-12 3.05639490E+04	4.58030805E+00 3.17016142E+04		4	
SO	J 6/77S 1.0 1. 0. 0.G	300.000 5000.000	48.06540	1	Chase (1985)
	4.01428730E+00 2.70228170E-04 8.28966670E-08	-3.43237410E-11 3.11214440E-15		2	
	-7.10519560E+02 3.49973505E+00 3.14902330E+00	1.18393470E-03 2.57406860E-06		3	
	-4.44434190E-09 1.87351590E-12-4.04075710E+02	8.31987915E+00 6.02271219E+02		4	
SOF2	J 6/77S 1.0 1.F 2. 0. 0.G	300.000 5000.000	86.06221	1	Chase (1985)
	8.08742120E+00 2.10957160E-03-9.08669120E-07	1.73448340E-10-1.22141580E-14		2	
	-6.82381590E+04-1.38555915E+01 2.47490660E+00	2.09524260E-02-2.41642770E-05		3	
	1.21203770E-08-1.93387310E-12-6.68976020E+04	1.41973405E+01-6.54188894E+04		4	
S02	J 6/71S 1.0 2. 0. 0.G	300.000 5000.000	64.06480	1	Chase (1985)
	5.24513640E+00 1.97042040E-03-8.03757690E-07	1.51499690E-10-1.05580040E-14		2	
	-3.75582270E+04-1.07404892E+00 3.26653380E+00	5.32379020E-03 6.84375520E-07		3	
	-5.28100470E-09 2.55904540E-12-3.69081480E+04	9.66465108E+00-3.57007867E+04		4	
S02CLF	J 6/71S 1.0 2.CL 1.F 1.G	300.000 5000.000	118.51590	1	Chase (1985)
	1.01182860E+01 3.14889940E-03-1.34715140E-06	2.55803100E-10-1.79382560E-14		2	
	-7.05092910E+04-2.31278508E+01 2.98175280E+00	2.64491670E-02-2.92001820E-05		3	
	1.39576110E-08-2.03044870E-12-6.87614970E+04	1.27316812E+01-6.69282620E+04		4	
S02CL2	J 6/71S 1.0 2.CL 2. 0.G	300.000 5000.000	134.97020	1	Chase (1985)
	1.05509370E+01 2.67343010E-03-1.14282300E-06	2.16862000E-10-1.51991510E-14		2	
	-4.62950560E+04-2.43078570E+01 4.38516770E+00	2.32121570E-02-2.65321120E-05		3	
	1.34999230E-08-2.28192810E-12-4.48029740E+04	6.57867880E+00-4.26726368E+04		4	
S02F	J 6/71S 1.0 2.F 2. 0.G	300.000 5000.000	102.06161	1	Chase (1985)
	9.60788850E+00 3.71110260E-03-1.58991140E-06	3.02324640E-10-2.12285770E-14		2	
	-9.47547680E+04-2.28489419E+01 1.73246800E+00	2.85017600E-02-2.94537980E-05		3	
	1.24013000E-08-1.17155330E-12-9.27813930E+04	1.69484101E+01-9.12343116E+04		4	
S03	J 9/65S 1.0 3. 0. 0.G	300.000 5000.000	80.06420	1	Chase (1985)
	7.07573760E+00 3.17633870E-03-1.35357600E-06	2.56309120E-10-1.79360440E-14		2	
	-5.02113760E+04-1.11875176E+01 2.57803850E+00	1.45563350E-02-9.17641730E-06		3	
	-7.92030220E-10 1.97094730E-12-4.89317530E+04	1.22651384E+01-4.75978348E+04		4	
S2	J 9/77S 2. 0. 0. 0.G	300.000 5000.000	64.13200	1	Chase (1985)
	3.98860690E+00 5.57750510E-04-5.01892780E-08	-1.54703190E-11 2.66617710E-15		2	
	1.41980150E+04 4.49119159E+00 2.85857540E+00	5.17583550E-03-6.54934340E-06		3	
	3.39986430E-09-4.01567660E-13 1.44124020E+04	9.89127849E+00 1.54434020E+04		4	
S2CL	J 6/78S 2.CL 1. 0. 0.G	200.000 6000.000	99.58470	1	Chase (1985)
	6.62320418E+00 4.18284634E-04-1.75659120E-07	3.09718384E-11-1.75155922E-15		2	
	7.37495900E+03-2.98511892E+00 2.97426932E+00	1.90782904E-02-3.76265413E-05		3	
	3.40374979E-08-1.15684664E-11 7.98922980E+03	1.38424354E+01 9.45335323E+03		4	
S2CL2	L 4/93S 2.CL 2. 0. 0.G	200.000 6000.000	135.03740	1	Chase (1985)
	9.46841020E+00 1.12186352E-03-6.92784280E-07	1.38654463E-10-9.29397839E-15		2	
	-5.05019524E+03-1.52950441E+01 3.47905708E+00	3.25370028E-02-6.63904620E-05		3	
	6.21124845E-08-2.17112325E-11-4.02225567E+03	1.22791824E+01-2.01286666E+03		4	
S2F2,thiothony	J 6/76S 2.F 2. 0. 0.G	200.000 6000.000	102.12881	1	Chase (1985)
	8.94018671E+00 1.10450187E-03-4.36227657E-07	7.46298478E-11-4.62043951E-15		2	
	-5.12574746E+04-1.66739136E+01 1.49372393E+00	3.42575635E-02-5.94656831E-05		3	
	4.87690344E-08-1.53761684E-11-4.98103490E+04	1.87375139E+01-4.82786117E+04		4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

S20	J 9/65S 2.0 1. 0. 0.G	300.000 5000.000 80.13140	1	Chase (1985)
5.90375240E+00	1.23699750E-03-5.45707900E-07	1.06598420E-10-7.66882430E-15	2	
-8.77520900E+03	2.26999836E+00 2.84142570E+00	1.21884100E-02-1.60002410E-05	3	
1.03092890E-08	2.64491200E-12-8.06030150E+03	1.29180736E+01-6.79363039E+03	4	
S8	J 9/77S 8. 0. 0. 0.G	200.000 6000.000 256.52800	1	Chase (1985)
2.07249521E+01	1.34686111E-03-5.37225946E-07	9.28122853E-11-5.81951340E-15	2	
5.53344324E+03	6.74805287E+01 4.19700496E+00	9.15503597E-02-1.91263611E-04	3	
1.80177196E-07	6.30393695E-11 8.12071691E+03	7.58043917E+00 1.20776811E+04	4	
Si	J 3/83SI 1. 0. 0. 0.G	200.000 6000.000 28.08550	1	Chase (1985)
2.58061157E+00	2.06044654E-04 1.93051677E-07-4.56485107E-11	3.36411716E-15	2	
5.33829933E+04	5.60657423E+00 3.76476150E+00-7.12070985E-03	1.57318301E-05	3	
-1.53824969E-08	5.53194933E-12 5.32050782E+04	3.02168772E-01 5.41222513E+04	4	
Si+	J 3/83SI 1.E -1. 0. 0.G	298.150 6000.000 28.08495	1	Chase (1985)
2.64794579E+00	1.60109008E-04 6.54024155E-08-1.16224655E-11	7.55961272E-16	2	
1.48703413E+05	4.73171848E+00 4.24419073E+00-7.51160863E-03	1.33368333E-05	3	
-1.09406149E-08	3.41357223E-12 1.48408792E+05-2.78917334E+00	1.49438151E+05	4	
SiBr	J12/76SI 1.BR 1. 0. 0.G	300.000 5000.000 107.98950	1	Chase (1985)
4.66816920E+00	1.01694130E-04 7.08389920E-08-1.43348560E-11	1.40767390E-15	2	
2.69334590E+03	3.22497259E+00 3.97197880E+00	4.77452790E-03-1.11306840E-05	3	
1.06812020E-08	3.67263830E-12 2.69863040E+04	6.11195719E+00 2.83037975E+04	4	
SiBr2	J12/77SI 1.BR 2. 0. 0.G	300.000 5000.000 187.89350	1	Chase (1985)
6.72247700E+00	3.80579290E-04-2.01385890E-07	4.43511720E-11-2.92396510E-15	2	
-8.35929800E+03	1.81955711E+00 4.67197290E+00	1.02928970E-02-1.87140190E-05	3	
1.56379000E-08	4.94565210E-12-8.00391630E+03	7.72665519E+00-6.29024918E+03	4	
SiBr3	J12/77SI 1.BR 3. 0. 0.G	300.000 5000.000 267.79750	1	Chase (1985)
9.58549680E+00	4.79238460E-04-2.14605950E-07	4.23382690E-11-3.06707940E-15	2	
-2.72445060E+04	1.27013080E+01 5.77296020E+00	1.83717870E-02-3.30193320E-05	3	
2.73678640E-08	8.60307870E-12-2.65545540E+04	5.18627029E+00-2.42584791E+04	4	
SiBr4	J12/76SI 1.BR 4. 0. 0.G	300.000 5000.000 347.70150	1	Chase (1985)
1.24560870E+01	6.28443840E-04-2.81289510E-07	5.54744140E-11-4.01759590E-15	2	
-5.38505210E+04	2.58609090E+01 7.61089370E+00	2.32393840E-02-4.15457460E-05	3	
3.43052410E-08	1.07550760E-11-5.29682090E+04	3.09903931E+00-4.99704412E+04	4	
SiC	J 3/67SI 1.C 1. 0. 0.G	300.000 5000.000 40.09650	1	Chase (1985)
5.57990330E+00	1.34093440E-03 7.54830470E-07-1.65437780E-10	1.26633450E-14	2	
8.50461200E+04	5.65019631E+00-2.19246960E+00	4.13427000E-02-7.82741130E-05	3	
6.06941200E-08	1.67292070E-11 8.59531430E+04	2.87692430E+01 8.65575097E+04	4	
SiC2	J 3/67SI 1.C 2. 0. 0.G	300.000 5000.000 52.10750	1	Chase (1985)
5.70115230E+00	2.12206900E-03-1.14577690E-06	3.10387680E-10-2.77638970E-14	2	
7.20233910E+04	4.97373211E+00 3.88063330E+00	6.79477670E-03-5.02779620E-06	3	
1.05732320E-09	2.55131420E-13 7.25582490E+04	4.55056719E+00 7.39750561E+04	4	
SiC4H12	J12/60SI 1.C 4.H 12. 0.G	298.150 5000.000 88.22478	1	Chase (1985)
1.156337018E+01	3.28112064E-02-1.26370891E-05	2.26868511E-09-1.54269477E-13	2	
-4.01381366E+04	3.36341195E+01 4.94618626E+00	4.11429743E-02-2.93233742E-07	3	
-2.29003694E-08	1.09566773E-11-3.77310492E+04	3.18631099E+00 0.00000000E+00	4	
SiCL	J12/76SI 1.CL 1. 0. 0.G	300.000 5000.000 63.53820	1	Chase (1985)
4.39828940E+00	1.67407870E-04-5.36062470E-08	9.57315490E-12-4.45308920E-16	2	
2.25131450E+04	3.44495821E+00 3.73965330E+00	3.11647160E-03-5.24743830E-06	3	
4.20125430E-09	1.28872220E-12 2.26382610E+04	6.56734951E+00 2.38530893E+04	4	
SiCL2	J12/77SI 1.CL 2. 0. 0.G	300.000 5000.000 98.99090	1	Chase (1985)
6.63078890E+00	4.38532790E-04-1.98113510E-07	3.70058730E-11-2.07143940E-15	2	
-2.23607190E+04	4.27487020E+00 3.71099610E+00	1.39663520E-02-2.47110540E-05	3	
2.02592190E-08	6.31937030E-12-2.18259490E+04	9.46158180E+00-2.02800229E+04	4	
SiCL3	J12/77SI 1.CL 3. 0. 0.G	300.000 5000.000 134.44360	1	Chase (1985)
9.35946310E+00	7.38348380E-04-3.29940490E-07	6.49899730E-11-4.70232410E-15	2	
-4.99300680E+04	1.56480110E+01 4.26270270E+00	2.40508690E-02-4.21848820E-05	3	
3.43739300E-08	1.06744620E-11-4.89812050E+04	8.40523855E+00-4.69511053E+04	4	
SiCL4	J12/70SI 1.CL 4. 0. 0.G	300.000 5000.000 169.89630	1	Chase (1985)
1.20896550E+01	1.01907350E-03-4.41678650E-07	8.44815730E-11-5.94915800E-15	2	
-8.35902500E+04	2.99269336E+01 6.10400100E+00	2.49331140E-02-3.67032630E-05	3	
2.44487480E-08	6.03701550E-12-8.23592730E+04	9.76400498E-01-7.97099719E+04	4	
SiF	J12/76SI 1.F 1. 0. 0.G	300.000 5000.000 47.08390	1	Chase (1985)
4.12278350E+00	4.68048910E-04-1.86776750E-07	3.52420930E-11-2.30150460E-15	2	
-3.72586190E+03	3.38858659E+00 3.24535350E+00	2.97023310E-03-2.48579900E-06	3	
5.63048360E-10	1.44160340E-13-3.49442720E+03	7.88443459E+00-2.41558858E+03	4	
SiF2	J12/77SI 1.F 2. 0. 0.G	300.000 5000.000 66.08231	1	Chase (1985)
6.05621040E+00	1.07219520E-03-4.71297580E-07	9.01747640E-11-6.13709050E-15	2	
-7.27270830E+04	4.35994749E+00 2.51482400E+00	1.45041570E-02-2.05947790E-05	3	
1.41301760E-08	3.81323260E-12-7.19424330E+04	1.30046349E+01-7.07038037E+04	4	
SiF3	J12/77SI 1.F 3. 0. 0.G	300.000 5000.000 85.08071	1	Chase (1985)
8.34881910E+00	1.87723690E-03-8.31771250E-07	1.62907180E-10-1.17385330E-14	2	
-1.33399870E+05	1.48343890E+01 2.34802200E+00	2.46650330E-02-3.51093500E-05	3	
2.42326900E-08	6.59094160E-12-1.32068720E+05	1.45901830E+01-1.30537786E+05	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

SiF4	J 6/76SI 1.F 4.	0.	0.G	300.000	5000.000	104.07911	1	Chase (1985)
1.04784730E+01	2.85867560E-03	-1.26463140E-06		2.47468630E-10	-1.78242960E-14		2	
-1.97905500E+05	-2.75074780E+01	2.18930680E+00		3.37020070E-02	-4.67231790E-05		3	
3.15846380E-08	-8.45061140E-12	-1.96032890E+05		1.33004710E+01	-1.94236568E+05		4	
SiH	J12/76SI 1.H 1.	0.	0.G	300.000	5000.000	29.09344	1	Chase (1985)
3.04531940E+00	1.55875260E-03	-6.20726770E-07		1.15182700E-10	-7.62897730E-15		2	
4.43311260E+04	6.04465545E+00	4.33629540E+00	-5.	0.5124220E-03	1.14230960E-05		3	
-9.38906520E-09	2.77181490E-12	4.41507140E+04		1.88214679E-01	4.53027449E+04		4	
SiH+	J12/71SI 1.H 1.E -1.	0.	0.G	300.000	5000.000	29.09289	1	Chase (1985)
2.98285950E+00	1.54552220E-03	-5.90385550E-07		1.05174000E-10	-6.82202340E-15		2	
1.37079540E+05	5.00430507E+00	3.72925880E+00	-1.	7.8816110E-03	4.24692570E-06		3	
-2.55801300E-09	4.06337400E-13	1.36970710E+05		1.58387307E+00	1.38035768E+05		4	
SiHBr3	J12/76SI 1.H 1.BR 3.	0.	0.G	300.000	5000.000	268.80544	1	Chase (1985)
1.02748310E+01	2.86661040E-03	-1.21125810E-06		2.30049160E-10	-1.62335040E-14		2	
-3.98465760E+04	-1.80340580E+01	4.33701100E+00		2.88729900E-02	-4.69541200E-05		3	
3.75230380E-08	-1.16349190E-11	-3.86638340E+04		1.03216712E+01	-3.64336173E+04		4	
SiHCL3	J12/76SI 1.H 1.CL 3.	0.	0.G	300.000	5000.000	135.45154	1	Chase (1985)
9.93356350E+00	3.24812200E-03	-1.37871710E-06		2.62660730E-10	-1.85748860E-14		2	
-6.33708490E+04	-2.04722040E+01	2.67420420E+00		3.43803850E-02	-5.49538560E-05		3	
4.31033320E-08	-1.31570120E-11	-6.16017230E+04		1.43335095E+01	-5.96828537E+04		4	
SiHF3	J 6/76SI 1.H 1.F 3.	0.	0.G	300.000	5000.000	86.08865	1	Chase (1985)
8.75488280E+00	4.55277560E-03	-1.94775310E-06		3.73007940E-10	-2.64739730E-14		2	
-1.47656580E+05	-1.88269773E+01	9.06548160E-01		3.32652670E-02	-4.39288250E-05		3	
2.93283670E-08	-7.86491880E-12	-1.45841960E+05		1.99732657E+01	-1.44426999E+05		4	
SiHI3	J12/76SI 1.H 1.I 3.	0.	0.G	300.000	5000.000	409.80685	1	Chase (1985)
1.05336040E+01	2.58880000E-03	-1.09219030E-06		2.07206870E-10	-1.46098540E-14		2	
-1.23973450E+04	-1.60995034E+01	5.52112250E+00		2.48410540E-02	-4.08339840E-05		3	
3.30683930E-08	-1.03737740E-11	-1.14071890E+04		7.78466951E+00	-8.95727317E+03		4	
SiH2	TPIS79SI 1.H 2.	0.	0.G	298.150	5000.000	30.10138	1	Gurvich (1979)
5.85938550E+00	1.63825650E-03	-8.43962520E-07		1.83233300E-10	-1.41143650E-14		2	
2.71656990E+04	-1.00646350E+01	5.31078530E+00	-1.	4.4699450E-02	5.14271460E-05		3	
-5.47334740E-08	1.92882860E-11	2.82133940E+04	-2.	8.2242261E+00	2.95089590E+04		4	
SiH2Br2	J12/76SI 1.H 2.BR 2.	0.	0.G	300.000	5000.000	189.90938	1	Chase (1985)
8.16926010E+00	5.02856010E-03	-2.10975640E-06		3.98721550E-10	-2.80358380E-14		2	
-2.58424750E+04	-1.13711914E+01	2.00074270E+00		3.02826310E-02	-4.46873360E-05		3	
3.44114310E-08	-1.05487200E-11	-2.45075070E+04		1.85667366E+01	-2.28968040E+04		4	
SiH2CL2	J12/76SI 1.H 2.CL 2.	0.	0.G	300.000	5000.000	101.00678	1	Chase (1985)
7.91214040E+00	5.31278910E-03	-2.23367290E-06		4.22748120E-10	-2.97556840E-14		2	
-4.14685030E+04	-1.28867627E+01	1.02649380E+00		3.30135890E-02	-4.79610620E-05		3	
3.62256760E-08	-1.09204470E-11	-3.99633870E+04		2.06288573E+01	-3.85472871E+04		4	
SiH2F2	J 6/76SI 1.H 2.F 2.	0.	0.G	300.000	5000.000	68.09819	1	Chase (1985)
6.139818570E+00	6.21464900E-03	-2.62723520E-06		4.99090850E-10	-3.52216410E-14		2	
-9.79187450E+04	-1.16725693E+01	1.93759980E-01		3.00798800E-02	-3.58741360E-05		3	
2.26685580E-08	-5.91859250E-12	-9.62303270E+04		2.28607537E+01	-9.51105435E+04		4	
SiH2I2	J12/76SI 1.H 2.I 2.	0.	0.G	300.000	5000.000	283.91032	1	Chase (1985)
8.35730990E+00	4.81635860E-03	-2.01614450E-06		3.80436990E-10	-2.67205840E-14		2	
-7.54176670E+03	-1.02973549E+01	2.65628130E+00		2.86261760E-02	-4.30037000E-05		3	
3.37080310E-08	-1.04755470E-11	-6.32526120E+03		1.72709251E+01	-4.57921431E+03		4	
SiH3	TPIS79SI 1.H 3.	0.	0.G	298.150	5000.000	31.10932	1	Gurvich (1979)
4.12703760E+00	6.1838860E-03	-2.61220960E-06		4.95796950E-10	-3.49605200E-14		2	
2.34068010E+04	1.51802637E-01	3.05068070E+00		3.31032030E-03	1.10939970E-05		3	
-1.44834900E-08	5.18803540E-12	2.40514240E+04		7.29481489E+00	2.51799610E+04		4	
SiH3Br	J12/76SI 1.H 3.BR 1.	0.	0.G	300.000	5000.000	111.01332	1	Chase (1985)
6.13503630E+00	7.11129140E-03	-2.97350750E-06		5.60618570E-10	-3.93508470E-14		2	
-1.18799000E+04	-6.17826569E+00	1.00603350E+00		2.53078760E-02	-3.03964330E-05		3	
2.10821500E-08	-6.20553980E-12	-1.06053360E+04		1.94675446E+01	-9.41037333E+03		4	
SiH3CL	J12/76SI 1.H 3.CL 1.	0.	0.G	300.000	5000.000	66.56202	1	Chase (1985)
5.99197180E+00	7.27189380E-03	-3.04415900E-06		5.74396200E-10	-4.03409290E-14		2	
-1.95149300E+04	-6.86764367E+00	5.83079850E-01		2.61617280E-02	-3.08540730E-05		3	
2.08783950E-08	-6.01536780E-12	-1.81619790E+04		2.02365379E+01	-1.70595010E+04		4	
SiH3F	J 6/76SI 1.H 3.F 1.	0.	0.G	300.000	5000.000	50.10772	1	Chase (1985)
5.57361190E+00	7.74100750E-03	-3.25027580E-06		6.14547920E-10	-4.32237740E-14		2	
-4.76884860E+04	-6.21002302E+00	3.73697260E-01		2.33710360E-02	-2.19259730E-05		3	
1.14386680E-08	-2.62175980E-12	-4.62686760E+04		2.04541297E+01	-4.52908362E+04		4	
SiH3I	J12/76SI 1.H 3.I 1.	0.	0.G	300.000	5000.000	158.01379	1	Chase (1985)
6.26866630E+00	6.96523050E-03	-2.91027400E-06		5.48414670E-10	-3.84800880E-14		2	
-2.73735270E+03	-5.82845156E+00	1.36593200E+00		2.45925750E-02	-2.99917950E-05		3	
2.12151430E-08	-6.34829710E-12	-1.52583550E+03		1.86403979E+01	-2.51567625E+02		4	
SiH4	J 6/76SI 1.H 4.	0.	0.G	300.000	5000.000	32.11726	1	Chase (1985)
4.20920380E+00	9.08226280E-03	-3.79053960E-06		7.13698880E-10	-5.00462860E-14		2	
2.13446270E+03	-2.72768704E+00	1.59226390E+00		1.28410930E-02	-1.94562780E-06		3	
-4.31063720E-09	1.98748800E-12	3.10559420E+03		1.18336025E+01	4.12630413E+03		4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

SiI	J12/76SI 1.I	1.	0.	0.G	300.000	5000.000	154.98997	1	Chase (1985)
4.97495320E+00-4.	08019210E-04	1.91996740E-07-3.	88865530E-11	3.85524220E-15	2				
3.62617270E+04	2.30166920E+00	2.80447120E+00	1.22053060E-02-2.	58769970E-05	3				
2.31709660E-08-7.	57984720E-12	3.65294880E+04	1.18753077E+01	3.77217187E+04	4				
SiI2	J12/77SI 1.I	2.	0.	0.G	200.000	6000.000	281.89444	1	Chase (1985)
6.74311855E+00	3.61983156E-04-1.	95278644E-07	4.35823201E-11-2.	89986792E-15	2				
9.06975364E+03	1.29097213E-02	4.32155105E+00	1.44273380E-02-3.	10517647E-05	3				
2.98319286E-08-1.	05785473E-11	9.41218202E+03	1.08178567E+01	1.11215213E+04	4				
SiN	J 3/67SI 1.N	1.	0.	0.G	300.000	5000.000	42.09224	1	Chase (1985)
3.98586210E+00-8.	79270560E-06	5.42695390E-07-1.	79510170E-10-9.	63370690E-14	2				
4.35248090E+04	3.17468002E+00	3.10519650E+00	1.48524490E-03	1.85610600E-06	3				
-3.77348830E-09	1.68353310E-12	4.37857090E+04	7.88856052E+00	4.47872738E+04	4				
SiO	J 9/67SI 1.0	1.	0.	0.G	300.000	5000.000	44.08490	1	Chase (1985)
3.74788350E+00	8.19919430E-04-3.	25253960E-07	5.73249620E-11-3.	51089440E-15	2				
-1.33174300E+04	3.66100339E+00	3.25282760E+00	4.18231260E-04	3.78062020E-06	3				
-5.10244830E-09	1.94713170E-12-1.	30903400E+04	6.66174329E+00-1.	20776829E+04	4				
SiO2	J 9/67SI 1.0	2.	0.	0.G	300.000	5000.000	60.08430	1	Chase (1985)
5.86203950E+00	1.77197840E-03-7.	51941940E-07	1.41805840E-10-9.	88564170E-15	2				
-3.87678160E+04-6.	84718711E+00	3.26280580E+00	8.50165840E-03-5.	73881440E-06	3				
1.28965730E-11	9.75449760E-13-3.	80359710E+04	6.66807529E+00-3.	67355093E+04	4				
SiS	J12/71SI 1.S	1.	0.	0.G	300.000	5000.000	60.15150	1	Chase (1985)
4.17357720E+00	3.92825950E-04-1.	50051720E-07	2.32425570E-11-6.	05688670E-16	2				
1.14177530E+04	2.86888232E+00	2.84306930E+00	5.11502810E-03-6.	33160730E-06	3				
3.43873260E-09-6.	26233850E-13	1.17189310E+04	9.44619192E+00	1.27444997E+04	4				
Si2	J 3/67SI 2.	0.	0.	0.G	300.000	5000.000	56.17100	1	Chase (1985)
5.04741390E+00	5.39900340E-04-4.	30783760E-07	1.13552060E-10-9.	62628710E-15	2				
6.91331850E+04-1.	91029481E+00	3.81553930E+00-1.	90965420E-04	5.92334160E-06	3				
-5.76496030E-09	1.47750040E-12	6.97846550E+04	5.74071859E+00	7.09554076E+04	4				
Si2C	J 3/67SI 2.C	1.	0.	0.G	300.000	5000.000	68.18200	1	Chase (1985)
6.25109880E+00	1.32241760E-03-7.	28052140E-07	2.32694240E-10-2.	32851480E-14	2				
6.23009990E+04-7.	28347851E+00	4.04389380E+00	7.34569570E-03-6.	64125490E-06	3				
2.48850470E-09-1.	81965550E-13	6.29354170E+04	4.18441209E+00	6.44137539E+04	4				
Si2N	J 3/67SI 2.N	1.	0.	0.G	300.000	5000.000	70.17774	1	Chase (1985)
6.67099120E+00	9.19178820E-04-3.	95171300E-07	7.43971450E-11-5.	02846910E-15	2				
4.56201540E+04-7.	79827766E+00	3.66867350E+00	1.13018400E-02-1.	36371190E-05	3				
7.16880500E-09-1.	23783100E-12	4.63180830E+04	7.12270964E+00	4.78073289E+04	4				
Si3	J 3/67SI 3.	0.	0.	0.G	300.000	5000.000	84.25650	1	Chase (1985)
7.42133600E+00-1.	17099480E-04	8.98207750E-08	7.19359640E-12-2.	56708370E-15	2				
7.41466990E+04-1.	03521110E+01	4.59791290E+00	1.07152740E-02-1.	61004220E-05	3				
1.09692070E-08-2.	78328750E-12	7.47663240E+04	3.45533009E+00	7.64915691E+04	4				
Sr	L 4/93SR 1.	0.	0.	0.G	200.000	6000.000	87.62000	1	Chase (1985)
2.05239982E+00	1.19516449E-03-1.	07453395E-06	3.57530976E-10-3.	05613280E-14	2				Moore, C.E. (1971)
1.91041043E+04	7.88029928E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00	3				
0.00000000E+00	0.00000000E+00	1.89791788E+04	5.55782092E+00	1.97245538E+04	4				
SrBr	J12/74SR 1.BR	1.	0.	0.G	300.000	5000.000	167.52400	1	Chase (1985)
4.34361580E+00	3.98959430E-04-2.	59761260E-07	7.93207470E-11-6.	60838300E-15	2				
-1.20250730E+04	6.87371079E+00	4.09700710E+00	1.93210600E-03-3.	50688920E-06	3				
2.99661940E-09-9.	63316960E-13-1.	20006440E+04	7.93438499E+00-1.	07187613E+04	4				
SrCL	J12/72SR 1.CL	1.	0.	0.G	300.000	5000.000	123.07270	1	Chase (1985)
4.33444180E+00	3.89521120E-04-2.	44613120E-07	7.32843650E-11-5.	97333250E-15	2				
-1.62087810E+04	5.52525593E+00	3.90361850E+00	2.46344280E-03-3.	87769650E-06	3				
2.83033750E-09-7.	73041200E-13-1.	61397400E+04	7.51664683E+00-1.	48954147E+04	4				
SrCL2	J12/72SR 1.CL	2.	0.	0.G	300.000	5000.000	158.52540	1	Chase (1985)
6.89643620E+00	1.17887180E-04-5.	18540800E-08	1.00488310E-11-7.	15843480E-16	2				
-5.90069040E+04-1.	35434839E+00	5.89071410E+00	4.49427890E-03-7.	29894040E-06	3				
5.35881350E-09-1.	47306310E-12-5.	88164040E+04	3.42525071E+00-5.	69149221E+04	4				
SrF	J12/72SR 1.F	1.	0.	0.G	300.000	5000.000	106.61840	1	Chase (1985)
4.24571640E+00	4.66335870E-04-2.	69258960E-07	7.35600800E-11-5.	72137600E-15	2				
-3.67402990E+04	4.46607864E+00	3.27139470E+00	4.62133540E-03-6.	90077500E-06	3				
4.72335820E-09-1.	20468070E-12-3.	65556300E+04	9.10702064E+00-3.	54270622E+04	4				
SrF+	J12/72SR 1.F	1.E	-1.	0.G	300.000	5000.000	106.61785	1	Chase (1985)
5.61355180E+00-2.	18109170E-03	1.22152480E-06-1.	63329710E-10	3.25845090E-15	2				
2.18821400E+04-3.	90142038E+00	3.10937910E+00	5.02700350E-03-7.	26893380E-06	3				
4.79485010E-09-1.	16838470E-12	2.26072020E+04	9.07411032E+00	2.37024013E+04	4				
SrF2	J12/72SR 1.F	2.	0.	0.G	300.000	5000.000	125.61681	1	Chase (1985)
6.75478910E+00	2.77619640E-04-1.	21588780E-07	2.34787800E-11-1.	66751920E-15	2				
-9.42336320E+04-3.	64195385E+00	4.81355160E+00	8.38216020E-03-1.	29995310E-05	3				
9.13643920E-09-2.	39898770E-12-9.	38505430E+04	5.66408025E+00-9.	21407511E+04	4				
SrI2	J 6/74SR 1.I	2.	0.	0.G	300.000	5000.000	341.42894	1	Chase (1985)
7.46036780E+00	4.54034760E-05-2.	00932740E-08	3.91555060E-12-2.	80309800E-16	2				
-3.53003330E+04-1.	70876927E+00	7.04504070E+00	1.88416990E-03-3.	11751490E-05	3				
2.32993910E-09-6.	52321330E-13-3.	52230130E+04	2.57821783E-01-3.	30620353E+04	4				

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

SrO	J 6/74SR 1.0 1. 0. 0.G	300.000 5000.000	103.61940	1	Chase (1985)
9.64030240E+00-1.12851500E-02 7.88423220E-06-1.90358770E-09 1.51465470E-13				2	
-4.74994870E+03-2.57981700E+01 2.7329970E+00 6.73994180E-03-1.08004850E-05				3	
8.17679370E-09-2.36198710E-12-2.64435740E+03 1.05012900E+01-1.61032207E+03				4	
SrOH	J12/75SR 1.0 1.H 1. 0.G	300.000 5000.000	104.62734	1	Chase (1985)
5.35708400E+00 1.73507350E-03-6.83396470E-07 1.41070680E-10-1.04150390E-14				2	
-2.63891730E+04-1.38738754E+00 2.52764940E+00 1.73648540E-02-3.17357230E-05				3	
2.69096460E-08-8.52700990E-12-2.60126780E+04 1.12603266E+01-2.47184763E+04				4	
SrOH+	J 6/76SR 1.0 1.H 1.E -1.G	300.000 5000.000	104.62679	1	Chase (1985)
5.49519810E+00 1.42140660E-03-4.32450190E-07 6.23424290E-11-3.47974840E-15				2	
3.68741070E+04-2.77068360E+00 2.61018070E+00 1.70676770E-02-3.12755560E-05				3	
2.65708540E-08-8.43013950E-12 3.72752290E+04 1.02040867E+01 3.85842705E+04				4	
SrO2H2	J12/75SR 1.0 2.H 2. 0.G	300.000 5000.000	121.63468	1	Chase (1985)
9.02326740E+00 2.80491020E-03-8.47910070E-07 1.21324930E-10-6.71541830E-15				2	
-7.44850350E+04-1.560762668E+01 3.36588500E+00 3.37099400E-02-6.20281710E-05				3	
5.28432690E-08-1.67960460E-11-7.37093680E+04 9.78559688E+00-7.16590447E+04				4	
SrS	J 9/77SR 1.S 1. 0. 0.G	300.000 5000.000	119.68600	1	Chase (1985)
8.98347000E+00-1.09956910E-02 8.65884170E-06-2.29554820E-09 1.96596830E-13				2	
1.03014190E+04-2.00762668E+01 3.48633180E+00 4.38413110E-03-7.50675530E-06				3	
5.81928180E-09-1.63532040E-12 1.18348540E+04 8.35263069E+00 1.30135709E+04				4	
Ta	J12/72TA 1. 0. 0. 0.G	300.000 5000.000	180.94790	1	Chase (1985)
1.51090940E+00 2.70295010E-03-1.07055940E-06 2.02388530E-10-1.39701730E-14				2	
9.35177620E+04 1.29827060E+01 2.83816310E+00-2.78785630E-03 6.89733340E-06				3	
-4.55717510E-09 9.41252680E-13 9.32787930E+04 6.66893679E+00 9.40534557E+04				4	
TaO	J12/73TA 1.0 1. 0. 0.G	300.000 5000.000	196.94730	1	Chase (1985)
3.49966030E+00 1.51125350E-03-6.53845780E-07 1.77843140E-10-1.69194050E-14				2	
2.19941510E+04 8.52695899E+00 2.93401080E+00 3.05920380E-03-1.93963640E-06				3	
1.62888300E-10 3.01525350E-13 2.21544720E+04 1.14546460E+01 2.31485470E+04				4	
TaO2	J12/73TA 1.0 2. 0. 0.G	300.000 5000.000	212.94670	1	Chase (1985)
5.97016690E+00 1.17921280E-03-5.65174130E-07 1.31137870E-10-1.05644370E-14				2	
-2.61694810E+04-1.07399801E+00 3.18038260E+00 9.47028050E-03-8.73468680E-06				3	
2.45226890E-09 3.36534210E-13-2.54517620E+04 1.31303530E+01-2.41547719E+04				4	
Ti	J 6/79TI 1. 0. 0. 0.G	200.000 6000.000	47.88000	1	Chase (1985)
3.03774314E+00-1.11117144E-03 7.58571090E-07-1.27073773E-10 6.90819279E-15				2	
5.61236728E+04 4.73001888E+00 4.14448119E+00-6.80469009E-03 1.18967765E-05				3	
-9.75223462E-09 3.09064423E-12 5.59438352E+04-3.48187822E-01 5.69642709E+04				4	
Ti+	J 3/84TI 1.E -1. 0. 0.G	298.150 6000.000	47.87945	1	Chase (1985)
3.67371639E+00-1.48559525E-03 7.82266735E-07-1.43853227E-10 8.95284394E-15				2	
1.35855735E+05 1.53150176E+00 2.79511128E+00 2.52231176E-03-5.63121401E-06				3	
4.16371169E-09-1.01443322E-12 1.35995999E+05 5.61951576E+00 1.36899469E+05				4	
Ti-	J 3/84TI 1.E 1. 0. 0.G	298.150 6000.000	47.88055	1	Chase (1985)
2.58526086E+00-9.08419479E-05 3.64323275E-08-6.31640098E-12 3.97035041E-16				2	
5.45643467E+04 7.45711070E+00 3.58958633E+00-4.91444420E-03 9.06483220E-06				3	
-7.66228403E-09 2.44724157E-12 5.43869787E+04 2.76915652E+00 5.53048827E+04				4	
TiCl	J12/68TI 1.CL 1. 0. 0.G	300.000 5000.000	83.33270	1	Chase (1985)
5.29697600E+00-1.64016920E-04 1.57197610E-07-3.85670890E-11 3.07396630E-15				2	
1.68576740E+04-4.94472671E-01 2.85430890E+00 7.95933450E-03-9.82111620E-06				3	
5.24199810E-09-9.79861770E-13 1.74412160E+04 1.17302246E+01 1.85691235E+04				4	
TiCl2	J12/68TI 1.CL 2. 0. 0.G	300.000 5000.000	118.78540	1	Chase (1985)
7.76248520E+00-9.38724250E-04 8.01215180E-07-1.90480300E-10 1.49615450E-14				2	
-3.09158050E+04-1.07526011E+01 4.97234750E+00 1.12773350E-02-2.05819160E-05				3	
1.71866500E-08-5.40495900E-12-3.03662850E+04 2.55909638E+00-2.85329650E+04				4	
TiCl3	J12/68TI 1.CL 3. 0. 0.G	300.000 5000.000	154.23810	1	Chase (1985)
1.00081030E+01 4.19363740E-04-2.15048730E-07 4.53370180E-11-3.45468380E-15				2	
-6.80612500E+04-1.95106532E+01 2.88015570E+00 3.35589330E-02-5.99574600E-05				3	
4.88636640E-08-1.50909920E-11-6.67760230E+04 1.39582088E+01-6.48659962E+04				4	
TiCl4	J12/67TI 1.CL 4. 0. 0.G	300.000 5000.000	189.69080	1	Chase (1985)
1.23860300E+01 7.09313160E-04-3.17460780E-07 6.26039580E-11-4.53370380E-15				2	
-9.56690780E+04-2.84715956E+01 6.94967570E+00 2.60496590E-02-4.65203020E-05				3	
3.83848340E-08-1.20279150E-11-9.46778310E+04-2.92575094E+00-9.17887862E+04				4	
TiO	J12/73TI 1.0 1. 0. 0.G	300.000 5000.000	63.87940	1	Chase (1985)
4.13601760E+00 7.39264580E-04-4.54444640E-07 1.30436580E-10-1.15225570E-14				2	
5.19834830E+03 4.12237043E+00 3.11988810E+00 3.12024870E-03-1.32970730E-06				3	
-1.33383620E-09 9.63158280E-13 5.48687190E+03 9.44261203E+00 6.54182283E+03				4	
TiOCl	J 9/63TI 1.0 1.CL 1. 0. 0.G	300.000 5000.000	99.33210	1	Chase (1985)
6.83199240E+00 7.63593870E-04-3.39530890E-07 6.66670690E-11-4.81329460E-15				2	
-3.15823110E+04-7.75381613E+00 3.40938560E+00 1.51705540E-02-2.44284830E-05				3	
1.87345210E-08-5.56806840E-12-3.08878460E+04 8.69442617E+00-2.93784839E+04				4	
TiOCl2	J 9/63TI 1.0 1.CL 2. 0. 0.G	300.000 5000.000	134.78480	1	Chase (1985)
9.33686550E+00 7.59699870E-04-3.38273780E-07 6.64838630E-11-4.80337930E-15				2	
-6.85726450E+04-1.51441772E+01 5.44081400E+00 1.77050490E-02-2.95252410E-05				3	
2.32473280E-08-7.04797770E-12-6.78068540E+04 3.45077325E+00-6.56159812E+04				4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

TiO2	J12/73TI 1.0	2.	0.	0.G	300.000	5000.000	79.87880	1	Chase (1985)
5.84550610E+00	1.39382130E-03	-6.64030620E-07	1.38573800E-10	-9.88421840E-15				2	
-3.87005930E+04	-2.79599903E+00	3.01427170E+00	1.09421010E-02	-1.28785880E-05				3	
7.11895290E-09	-1.49275100E-12	-3.80205010E+04	1.13643975E+01	-3.67358715E+04				4	
V	J 6/73V 1.	0.	0.	0.G	300.000	5000.000	50.94150	1	Chase (1985)
2.91778520E+00	4.62368900E-04	-4.97320300E-07	1.67752330E-10	-1.52025520E-14				2	
6.10642730E+04	5.10621469E+00	4.51736930E+00	-7.92906600E-03	1.33808390E-05				3	
-8.82829010E-09	1.89453070E-12	6.09014170E+04	-1.96971791E+00	6.19975154E+04				4	
VCL4	L 2/76V 1.CL 4.	0.	0.	0.G	300.000	5000.000	192.75230	1	Nagarajan (1963)
1.27186470E+01	1.65001760E-05	1.41614980E-07	-3.47618330E-11	2.28897630E-15				2	Blankenship (1962)
-6.71879920E+04	-2.88480103E+01	7.11664620E+00	2.54232170E-02	-4.54990170E-05				3	Creighton (1966)
3.75838860E-08	-1.17803440E-11	-6.61238930E+04	-2.33095475E+00	-6.32053523E+04				4	
VN	J12/73V 1.N 1.	0.	0.	0.G	300.000	5000.000	64.94824	1	Chase (1985)
4.18522800E+00	6.15147200E-04	-3.57763350E-07	1.07488620E-10	-9.72755050E-15				2	
6.15115400E+04	3.77618661E+00	2.72335900E+00	4.16429890E-03	-2.19128120E-06				3	
-1.23518720E-09	1.07918330E-12	6.19278930E+04	1.14173579E+01	6.29036613E+04				4	
VO	J12/73V 1.0 1.	0.	0.	0.G	300.000	5000.000	66.94090	1	Chase (1985)
3.91147020E+00	7.75477920E-04	-4.22637860E-07	1.16088380E-10	-1.00707240E-14				2	
1.40652040E+04	5.07185409E+00	2.94384410E+00	2.90592340E-03	-9.95165750E-07				3	
-1.40865920E-09	9.24385080E-13	1.43527460E+04	1.01864310E+01	1.53484728E+04				4	
V02	J12/73V 1.0 2.	0.	0.	0.G	300.000	5000.000	82.94030	1	Chase (1985)
5.94701470E+00	1.16867790E-03	-5.05363790E-07	9.67236110E-11	-6.82458830E-15				2	
-2.99838020E+04	-2.73802511E+00	3.19378590E+00	9.29794570E-03	-8.34224690E-06				3	
2.10491700E-09	4.45826450E-13	-2.92754910E+04	1.12872190E+01	-2.79793321E+04				4	
Xe	L12/91XE 1.	0.	0.	0.G	200.000	6000.000	131.29000	1	McBride (1993)
2.50005322E+00	-1.05136544E-07	6.75326897E-11	-1.70944909E-14	1.47681049E-18				2	
-7.45394186E+02	6.16412898E+00	2.50000000E+00	-8.99141330E-14	2.52196860E-16				3	
-2.92186662E-19	1.18949218E-22	-7.45375000E+02	6.16441993E+00	0.00000000E+00				4	
Xe+	L10/92XE 1.E -1.	0.	0.	0.G	298.150	6000.000	131.28945	1	Moore, C.E. (1971)
2.58350579E+00	-1.53488750E-04	8.09594639E-08	-1.14289234E-11	4.82081406E-16				2	
1.40730117E+05	7.09057067E+00	2.50007477E+00	-6.25614186E-07	1.86430963E-09				3	
-2.35599457E-12	1.07219368E-15	1.40761095E+05	7.55040436E+00	1.41506477E+05				4	
Zn	L 7/93ZN 1.	0.	0.	0.G	200.000	6000.000	65.39000	1	Moore (1971)
2.51233674E+00	-2.92859430E-05	2.43130241E-08	-8.39058754E-12	1.02676892E-15				2	Cox (1989)
1.49341449E+04	5.05331145E+00	2.50000000E+00	-4.89383187E-12	1.38012101E-14				3	
-1.58679678E-17	6.38498776E-21	1.49380507E+04	5.11886101E+00	6.19742800E+03				4	
Zn+	L 7/93ZN 1.	0.	0.	0.G	200.000	6000.000	65.39000	1	Moore (1971)
2.48069577E+00	3.36021020E-05	-1.60287169E-08	1.43795031E-12	2.92898690E-16				2	
1.23956404E+05	5.91921683E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00				3	
0.00000000E+00	0.00000000E+00	1.23948976E+05	5.81200819E+00	6.19742800E+03				4	
Zn-	J12/78ZN 1.E 1.	0.	0.	0.G	298.150	6000.000	65.39055	1	Chase (1985)
2.50000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00				2	
1.24688733E+04	5.81202078E+00	2.50000000E+00	0.00000000E+00	0.00000000E+00				3	
0.00000000E+00	0.00000000E+00	1.24688733E+04	5.81202078E+00	6.19742800E+03				4	
Zr	L 7/93ZR 1.	0.	0.	0.G	200.000	6000.000	91.22400	1	Chase (1985)
2.54294206E+00	6.22889707E-04	-1.07432636E-07	2.38744516E-11	-2.17632296E-15				2	Moore (1971)
7.27918166E+04	7.57951451E+00	1.23655929E+00	1.28280820E-02	-2.72138432E-05				3	
2.33237341E-08	-7.09443491E-12	7.26245603E+04	1.19581447E+01	6.81561100E+03				4	
ZrN	J 6/63ZR 1.N 1.	0.	0.	0.G	200.000	6000.000	105.23074	1	Chase (1985)
4.14378922E+00	4.04307213E-04	-1.44633107E-07	2.47606374E-11	-1.54280202E-15				2	
8.44614200E+04	4.15937906E+00	3.07188717E+00	2.64300474E-03	3.18499428E-07				3	
-3.63350581E-09	2.02679564E-12	8.47684947E+04	9.80588987E+00	8.86287000E+03				4	
ZrO	L 7/93ZR 1.0 1.	0.	0.	0.G	200.000	6000.000	107.22340	1	Gurvich (1982)
7.30529618E+00	-2.91043337E-03	1.15742561E-06	-1.76849844E-10	9.78260272E-15				2	
7.67802110E+03	-1.42675735E+01	4.12291715E+00	-1.31886296E-02	6.92922931E-05				3	
-9.58720065E-08	4.10306470E-11	9.00749202E+03	5.56945394E+00	8.96949600E+03				4	
ZrO2	J12/65ZR 1.0 2.	0.	0.	0.G	300.000	5000.000	123.22280	1	Chase (1985)
6.14185450E+00	9.77036950E-04	-4.33371820E-07	8.49545890E-11	-6.12666480E-15				2	
-3.64461780E+04	-2.70978912E+00	3.21037790E+00	1.16289760E-02	-1.55753600E-05				3	
1.00442430E-08	-2.54388900E-12	-3.57756120E+04	1.17738677E+01	-3.44205252E+04				4	
AL(cr)	CODA89AL 1.	0.	0.	0.C	200.000	933.610	26.98154	1	McBride (1993)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00				2	
0.00000000E+00	0.00000000E+00	1.01040191E+00	1.20769743E-02	-2.62083556E-05				3	
2.64282413E-08	-9.01916513E-12	-6.54454196E+02	-5.00471254E+00	0.00000000E+00				4	
AL(L)	CODA89AL 1.	0.	0.	0.C	933.610	6000.000	26.98154	1	McBride (1993)
3.81862551E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00				2	
-9.49651808E+01	-1.75229704E+01	3.81862551E+00	0.00000000E+00	0.00000000E+00				3	
0.00000000E+00	0.00000000E+00	-9.49651808E+01	-1.75229704E+01	0.00000000E+00				4	
ALBr3(s)	J 9/79AL 1.BR 3.	0.	0.	0.C	300.000	370.600	266.69354	1	Chase (1985)
5.84479560E+00	2.09263340E-02	0.00000000E+00	0.00000000E+00	0.00000000E+00				2	
-6.41705100E+04	-1.78769010E+01	5.84479560E+00	2.09263340E-02	0.00000000E+00				3	
0.00000000E+00	0.00000000E+00	-6.41705100E+04	-1.78769010E+01	-6.14977775E+04				4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

ALBr3(L)	J 9/79AL 1.BR 3.	0.	0.C	370.600	5000.000	266.69354	1	Chase (1985)
1.50297500E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-6.47837290E+04	-6.07991010E+01	1.50297500E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-6.47837290E+04	-6.07991010E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
ALCL3(s)	J 9/79AL 1.CL 3.	0.	0.C	300.000	465.700	133.33964	1	Chase (1985)
7.80933750E+00	1.05709850E-02	-3.28592480E-09	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-8.76667830E+04	-3.45017220E+01	7.80933750E+00	1.05709850E-02	-3.28592480E-09	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-8.76667830E+04	-3.45017220E+01	-8.48686125E+04	0.00000000E+00	0.00000000E+00	4	
ALCL3(L)	J 9/79AL 1.CL 3.	0.	0.C	465.700	5000.000	133.33964	1	Chase (1985)
1.50966790E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-8.56620790E+04	-6.52184190E+01	1.50966790E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-8.56620790E+04	-6.52184190E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
ALF3(a)	J 9/79AL 1.F 3.	0.	0.C	300.000	728.000	83.97675	1	Chase (1985)
-3.08352720E+00	7.03503170E-02	-1.22494050E-04	7.62413620E-08	1.58436870E-12	0.00000000E+00	0.00000000E+00	2	
-1.82940320E+05	9.35706830E+00	-3.08352720E+00	7.03503170E-02	-1.22494050E-04	0.00000000E+00	0.00000000E+00	3	
1.62413620E-08	1.58436870E-12	-1.82940320E+05	9.35706830E+00	-1.81663648E+05	0.00000000E+00	0.00000000E+00	4	
ALF3(b)	J 9/79AL 1.F 3.	0.	0.C	728.000	2523.000	83.97675	1	Chase (1985)
1.04194700E+01	2.33765010E-03	-8.80830770E-07	2.85578830E-10	-3.46072630E-14	0.00000000E+00	0.00000000E+00	2	
-1.84922050E+05	-5.23714020E+01	9.50345050E+00	5.13025090E-03	-3.71167640E-06	0.00000000E+00	0.00000000E+00	3	
1.20523570E-09	0.00000000E+00	-1.84922050E+05	-5.23714020E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
ALF3(L)	J 9/79AL 1.F 3.	0.	0.C	2523.000	5000.000	83.97675	1	Chase (1985)
1.50966790E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.79986860E+05	-8.00491030E+01	1.50966790E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.79986860E+05	-8.00491030E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
ALI3(s)	J 9/79AL 1.I 3.	0.	0.C	300.000	464.140	407.69495	1	Chase (1985)
8.52416000E+00	1.12577990E-02	1.64430050E-07	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-3.94766660E+04	-2.83445950E+01	8.52416000E+00	1.12577990E-02	1.64430050E-07	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-3.94766660E+04	-2.83445950E+01	-3.64333629E+04	0.00000000E+00	0.00000000E+00	4	
ALI3(L)	J 9/79AL 1.I 3.	0.	0.C	464.140	5000.000	407.69495	1	Chase (1985)
1.45934560E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-3.91633320E+04	-5.62483220E+01	1.45934560E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-3.91633320E+04	-5.62483220E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
ALN(s)	J12/79AL 1.N 1.	0.	0.C	300.000	3000.000	40.98828	1	Chase (1985)
4.08412120E+00	3.18814960E-03	-1.90297650E-06	5.25234110E-10	-5.51330660E-14	0.00000000E+00	0.00000000E+00	2	
-3.97818430E+04	-2.21901450E+01	-1.54500310E+00	2.76322490E-02	-4.35394640E-05	0.00000000E+00	0.00000000E+00	3	
3.30926660E-08	-9.80105240E-12	-3.86886140E+04	4.64928220E+00	-3.82449879E+04	0.00000000E+00	0.00000000E+00	4	
AL203(a)	J12/79AL 2.0 3.	0.	0.C	300.000	2327.000	101.96128	1	Chase (1985)
1.18336660E+01	3.77088780E-03	-1.78631910E-07	-5.60088070E-10	1.40768250E-13	0.00000000E+00	0.00000000E+00	2	
-2.105711310E+05	-6.35998350E+01	-4.91383090E+00	7.93984430E-02	-1.32379180E-04	0.00000000E+00	0.00000000E+00	3	
1.04467500E-07	-3.15663300E-11	-2.0262220E+05	1.54780730E+01	-2.01540284E+05	0.00000000E+00	0.00000000E+00	4	
AL203(L)	J12/79AL 2.0 3.	0.	0.C	2327.000	6000.000	101.96128	1	Chase (1985)
2.31482410E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-2.11405200E+05	-1.38602050E+02	2.31482410E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-2.11405200E+05	-1.38602050E+02	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
AL2SiO5(an)	J 9/67AL 2.SI 1.0 5.	0.	0.C	300.000	3000.000	162.04558	1	Chase (1985)
1.73517420E+01	8.74381350E-03	-3.70847180E-06	1.06882830E-09	-1.17639500E-13	0.00000000E+00	0.00000000E+00	2	
-3.17941510E+05	-9.17387440E+01	-9.28663420E+00	1.34767200E-01	-2.32370000E-04	0.00000000E+00	0.00000000E+00	3	
1.87609190E-07	-5.73814830E-11	-3.13276640E+05	3.27158590E+01	-3.11764784E+05	0.00000000E+00	0.00000000E+00	4	
AL6Si2O13(s)	J 9/67AL 6.SI 2.0 13.	0.	0.C	300.000	3000.000	426.05243	1	Chase (1985)
4.52383640E+01	2.76614240E-02	-1.46755120E-05	3.88858480E-09	-3.66604820E-13	0.00000000E+00	0.00000000E+00	2	
-8.36864170E+05	-2.37395650E+02	-1.10346710E+01	2.66756430E-01	-4.15247630E-04	0.00000000E+00	0.00000000E+00	3	
3.13769720E-07	-9.24975970E-11	-8.25658700E+05	3.22547910E+01	-8.20184486E+05	0.00000000E+00	0.00000000E+00	4	
B(b)	J6/83 B 1.	0.	0.C	200.000	2350.000	10.81100	1	McBride (1993)
1.83494094E+00	1.79198702E-03	-7.97879498E-07	2.02764512E-10	-1.92028345E-14	0.00000000E+00	0.00000000E+00	2	
-7.83202899E+02	-1.06433298E+01	-1.15931693E+00	1.13777145E-02	-1.06985988E-05	0.00000000E+00	0.00000000E+00	3	
2.76106443E-09	7.31746996E-13	-7.13339210E+01	4.36439895E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
B(L)	J6/83 B 1.	0.	0.C	2350.000	6000.000	10.81100	1	McBride (1993)
3.81862551E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
3.36099275E+03	-2.07326473E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
BN(s)	J 6/66B 1.N 1.	0.	0.C	200.000	6000.000	24.81774	1	Chase (1985)
2.68739930E+00	4.24674311E-03	-1.92817705E-06	3.60170748E-10	-2.36706055E-14	0.00000000E+00	0.00000000E+00	2	
-3.14630126E+04	-1.54187735E+01	-6.92827700E-01	1.17984401E-02	-3.39339835E-06	0.00000000E+00	0.00000000E+00	3	
-7.14136993E-09	4.77162137E-12	-3.04539002E+04	2.41361166E+00	2.62755200E+03	0.00000000E+00	0.00000000E+00	4	
B2O3(L)	J 6/71B 2.0 3.	0.	0.C	300.000	5000.000	69.62020	1	Chase (1985)
1.56001140E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.56844560E+05	-8.31264440E+01	3.14332740E+01	-2.15780390E-01	6.40579860E-04	0.00000000E+00	0.00000000E+00	3	
-7.05724200E-07	2.65091500E-10	-1.54901390E+05	-1.28038800E+02	-1.50730324E+05	0.00000000E+00	0.00000000E+00	4	
B3O3H3(cr)	J 3/65B 3.H 3.0 3.	0.	0.C	298.150	2000.000	83.45502	1	Chase (1985)
-1.28470517E+01	9.19581322E-02	-8.10609436E-05	3.27322840E-08	-5.01611948E-12	0.00000000E+00	0.00000000E+00	2	
-1.51109722E+05	7.01536150E+01	8.15951373E+00	-7.06683350E-03	9.24924694E-05	0.00000000E+00	0.00000000E+00	3	
-1.02833905E-07	3.50150571E-11	-1.54569630E+05	-2.75254035E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

Ba(cr)	SRD 93BA 1.	0.	0.	0.C	298.150	1000.000	137.32700	1	Alcock (1993)
0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	2	McBride (1993)
0.0000000E+00	0.0000000E+00	2.7733444E+00	2.03752236E-03	0.0000000E+00				3	
0.0000000E+00	0.0000000E+00	-9.17433810E+02	-8.90970626E+00	0.0000000E+00				4	
Ba(L)	SRD 93BA 1.	0.	0.	0.C	1000.000	6000.000	137.32700	1	Alcock (1993)
4.81086679E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	2	McBride (1993)
-9.92062381E+02	-2.00027571E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	3	
0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	4	
BaBr2(s)	J12/74BA 1.BR 2.	0.	0.	0.C	300.000	1130.000	297.13500	1	Chase (1985)
8.21359240E+00	3.11437150E-03	-2.40116290E-07	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	2	
-9.36849820E+04	-2.97718080E+01	8.49822320E+00	2.51392240E-03	2.43906580E-07				3	
-2.96954400E-10	1.28749890E-13	-9.37822410E+04	-3.13127320E+01	-9.11351313E+04				4	
BaBr2(L)	J12/74BA 1.BR 2.	0.	0.	0.C	1130.000	5000.000	297.13500	1	Chase (1985)
1.26109310E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	2	
-9.29364180E+04	-5.39166730E+01	1.26109310E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	3	
0.0000000E+00	0.0000000E+00	-9.29364180E+04	-5.39166730E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	4	
BaCl2(a)	J12/72BA 1.CL 2.	0.	0.	0.C	300.000	1198.000	208.23240	1	Chase (1985)
1.10964040E+01	-1.11350020E-03	-8.18019370E-07	-2.36513760E-10	1.83268400E-12				2	
-1.06937770E+05	-4.89267460E+01	7.72024720E+00	6.92241780E-03	-1.09609270E-05				3	
9.69916210E-09	-2.61984430E-12	-1.05792020E+05	-3.07683050E+01	-1.03261458E+05				4	
BaCl2(b)	J12/72BA 1.CL 2.	0.	0.	0.C	1198.000	1235.000	208.23240	1	Chase (1985)
1.48955920E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	2	
-1.09941350E+05	-7.52727020E+01	1.48955920E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	3	
0.0000000E+00	0.0000000E+00	-1.09941350E+05	-7.52727020E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	4	
BaCl2(L)	J12/72BA 1.CL 2.	0.	0.	0.C	1235.000	5000.000	208.23240	1	Chase (1985)
1.30839670E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	2	
-1.05780590E+05	-6.08186470E+01	1.30839670E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	3	
0.0000000E+00	0.0000000E+00	-1.05780590E+05	-6.08186470E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	4	
BaF2(a)	J12/72BA 1.F 2.	0.	0.	0.C	300.000	1480.000	175.32381	1	Chase (1985)
-2.84392880E+00	-2.19972130E-02	4.42010610E-05	5.58246900E-09	-1.39069120E-11				2	
-1.37899190E+05	4.44729320E+01	4.32032900E+00	2.76261470E-02	-5.94303480E-05				3	
0.06301470E-08	-2.21107930E-11	-1.47452460E+05	-1.91219160E+01	-1.45352145E+05				4	
BaF2(b,c)	J12/72BA 1.F 2.	0.	0.	0.C	1480.000	1641.000	175.32381	1	Chase (1985)
1.29480940E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	2	
-1.50331750E+05	-6.53836630E+01	1.29480940E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	3	
0.0000000E+00	0.0000000E+00	-1.50331750E+05	-6.53836630E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	4	
BaF2(L)	J12/72BA 1.F 2.	0.	0.	0.C	1641.000	5000.000	175.32381	1	Chase (1985)
1.20065520E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	2	
-1.45977150E+05	-5.67012820E+01	1.20065520E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	3	
0.0000000E+00	0.0000000E+00	-1.45977150E+05	-5.67012820E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	4	
BaO(s)	J 6/74BA 1.0 1.	0.	0.	0.C	300.000	2286.000	153.32640	1	Chase (1985)
5.59705660E+00	1.72428640E-03	-6.02495130E-07	1.74000170E-10	-1.85947910E-14				2	
-6.77196870E+04	-2.38485210E+01	3.92000670E+00	8.91156480E-03	-1.25312820E-05				3	
9.18687030E-09	-2.61290690E-12	-6.73943690E+04	-1.58424680E+01	-6.59233196E+04				4	
BaO(L)	J 6/74BA 1.0 1.	0.	0.	0.C	2286.000	5000.000	153.32640	1	Chase (1985)
8.05167150E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	2	
-6.32237370E+04	-3.68186010E+01	8.05167150E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	3	
0.0000000E+00	0.0000000E+00	-6.32237370E+04	-3.68186010E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	4	
BaO2H2(s)	J12/75BA 1.0 2.H 2.	0.	0.	0.C	300.000	681.150	171.34168	1	Chase (1985)
-1.54291680E-01	7.51087380E-02	-1.49150720E-04	1.34625140E-07	-4.27154090E-11				2	
-1.16035520E+05	-3.10750780E+00	-1.54291680E-01	7.51087380E-02	-1.49150720E-04				3	
1.34625140E-07	-4.27154090E-11	-1.16035520E+05	-3.10750780E+00	-1.13815035E+05				4	
BaO2H2(L)	J12/75BA 1.0 2.H 2.	0.	0.	0.C	681.150	5000.000	171.34168	1	Chase (1985)
1.69588330E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	2	
-1.17974980E+05	-8.33516110E+01	1.69588330E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	3	
0.0000000E+00	0.0000000E+00	-1.17974980E+05	-8.33516110E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	4	
BaS(s)	J 9/77BA 1.S 1.	0.	0.	0.C	300.000	3000.000	169.39300	1	Chase (1985)
5.90966310E+00	1.15935610E-03	-1.92798100E-07	6.66090070E-11	-8.32804110E-15				2	
-5.76245380E+04	-2.47107370E+01	5.36586760E+00	1.24182840E-03	3.98045900E-06				3	
-6.62154280E-09	2.96788980E-12	-5.74362700E+04	-2.16381020E+01	-5.57577584E+04				4	
Be(a)	SRD 93BE 1.	0.	0.	0.C	298.150	1543.000	9.01218	1	Alcock (1993)
8.06036468E-01	5.37325946E-03	-4.86241757E-06	2.39834017E-09	-4.37186552E-13				2	McBride (1993)
-4.10525129E+02	-4.79961716E+00	1.34774902E+00	1.92340834E-02	-3.54163423E-05				3	
3.08895143E-08	-1.00814744E-11	-1.96446005E+02	4.40835822E+00	0.00000000E+00				4	
Be(b)	SRD 93BE 1.	0.	0.	0.C	1543.000	1563.000	9.01218	1	Alcock (1993)
3.60815009E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	McBride (1993)
-8.52229192E+02	-2.00291024E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
Be(L)	SRD 93BE 1.	0.	0.	0.C	1563.000	6000.000	9.01218	1	Alcock (1993)
3.54560882E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	McBride (1993)
2.07475580E+02	-1.89534126E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

BeAl ₂ O ₄ (s)	J12/79BE 1.AL 2.0 4.	0.C	300.000	2146.000	126.97286	1	Chase (1985)
2.02655590E+01-1.04666490E-02	2.30439540E-05-1.54936830E-08	3.60249400E-12				2	
-2.83363010E+05-1.07472220E+02	-8.05473800E+00	1.13572400E-01-1.87827280E-04				3	
1.48068570E-07-4.48072780E-11	-2.77980440E+05	2.71357190E+01-2.76722007E+05				4	
BeAl ₂ O ₄ (L)	J12/79BE 1.AL 2.0 4.	0.C	2146.000	5000.000	126.97286	1	Chase (1985)
2.96362910E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-2.80569820E+05-1.71169540E+02	2.96362910E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-2.80569820E+05-1.71169540E+02	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
BeBr ₂ (s)	J 6/75BE 1.BR 2.	0.	0.C	300.000	168.82018	1	Chase (1985)
-2.27183290E+00	3.71850840E-02-4.33216390E-05	2.30580060E-08-4.57496410E-12				2	
-4.29712510E+04	1.67088690E+01	5.85510580E+00	7.29917640E-03	1.26780450E-06		3	
-9.17810970E-09	4.83067700E-12-4.48404830E+04	-2.34448860E+01-4.27750136E+04				4	
BeCl ₂ (s)	J 6/65BE 1.CL 2.	0.	0.C	300.000	79.91758	1	Chase (1985)
3.00657450E+00	1.95395590E-02-4.89136050E-06	-2.96041580E-08	2.35348610E-11			2	
-6.07221000E+04-1.25797720E+01	3.00657450E+00	1.95395590E-02-4.89136050E-06				3	
-2.96041580E-08	2.35348610E-11-6.07221000E+04	-1.25797720E+01-5.90478272E+04				4	
BeCl ₂ (L)	J 6/70BE 1.F 2.	0.	0.C	688.000	79.91758	1	Chase (1985)
1.46037190E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-6.44984170E+04-7.64487840E+01	1.46037190E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-6.44984170E+04-7.64487840E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
BeF ₂ (Lqz)	J 6/70BE 1.F 2.	0.	0.C	300.000	47.00899	1	Chase (1985)
2.05937700E+01-6.63969300E-02	-1.20323980E-04	8.98005550E-07-9.66692640E-10				2	
-1.26937080E+05-9.17851130E+01	2.05937700E+01-6.63969300E-02	-1.20323980E-04				3	
8.98005550E-07-9.66692640E-10	-1.26937080E+05-9.17851130E+01	1.23492663E+05				4	
BeF ₂ (hqz)	J 6/70BE 1.F 2.	0.	0.C	826.000	47.00899	1	Chase (1985)
5.69655760E+00	4.02583580E-03	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.25288840E+05-2.70913890E+01	5.69655760E+00	4.02583580E-03	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.25288840E+05-2.70913890E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
BeF ₂ (L)	J 6/70BE 1.F 2.	0.	0.C	826.000	47.00899	1	Chase (1985)
6.04896390E+00	4.33284980E-03	1.87544030E-07-3.60194820E-10	9.13388220E-14			2	
-1.25113610E+05-2.90262480E+01	7.74233610E+00-6.96800650E-04	2.67434060E-06				3	
3.12625420E-09-2.54562790E-12	-1.25465300E+05-3.74403040E+01	0.00000000E+00				4	
BeI ₂ (s)	J12/75BE 1.I 2.	0.	0.C	300.000	262.82112	1	Chase (1985)
2.67722950E+00	2.69230920E-02-2.88952040E-05	4.00766040E-09	6.40517020E-12			2	
-2.44469680E+04-7.55309190E+00	2.67722950E+00	2.69230920E-02-2.88952040E-05				3	
4.00766040E-09	6.40517020E-12-2.44469680E+04	-7.55309190E+00-2.6964492E+04				4	
BeI ₂ (L)	J12/75BE 1.I 2.	0.	0.C	753.000	262.82112	1	Chase (1985)
1.35871960E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-2.59933120E+04-6.33135730E+01	1.35871960E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-2.59933120E+04-6.33135730E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
BeO(a)	J12/74BE 1.0 1.	0.	0.C	200.000	25.01158	1	Chase (1985)
3.22375488E+00	4.89276244E-03-3.05832591E-06	9.91401433E-10-1.23442571E-13				2	
-7.45140761E+04-1.85239582E+01	-3.06995225E+00	3.22099414E-02-4.85141436E-05				3	
3.51263133E-08-9.82600858E-12	-7.33202340E+04	1.14094979E+01-2.83503400E+03				4	
BeO(b)	J12/74BE 1.0 1.	0.	0.C	2373.001	25.01158	1	Chase (1985)
1.23933471E+01-1.03223075E-02	6.52733591E-06-1.73093889E-09	1.70986494E-13				2	
-7.81759610E+04-7.05417631E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
BeO(L)	J12/74BE 1.0 1.	0.	0.C	2821.220	25.01158	1	Chase (1985)
9.56123164E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-7.42016413E+04-5.80635442E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
BeO ₂ H ₂ (b)	J12/75BE 1.0 2.H 2.	0.	0.C	300.000	43.02686	1	Chase (1985)
-7.01683250E+00	8.30056540E-02-1.41520290E-04	1.14216650E-07-3.51055350E-11				2	
-1.09507110E+05	2.66160610E+01-7.01683250E+00	8.30056540E-02-1.41520290E-04				3	
1.14216650E-07-3.51055350E-11	-1.09507110E+05	2.66160610E+01-1.08951020E+05				4	
BeS(s)	J 9/77BE 1.S 1.	0.	0.C	300.000	41.07818	1	Chase (1985)
3.47870360E+00	6.51062330E-03-4.13140450E-06	1.24499300E-09-1.38219470E-13				2	
-2.95665300E+04-1.73913260E+01	-2.87300050E+00	3.80787040E-02-6.25067050E-05				3	
4.89042780E-08-1.46385810E-11	-2.85551820E+04	1.18429220E+01-2.81817977E+04				4	
Be ₂ C(s)	BAR 73BE 2.C 1.	0.	0.C	300.000	30.03536	1	Barin (1973)
4.43741700E+00	2.56945380E-03	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.55073240E+04-2.40861210E+01	4.43741700E+00	2.56945380E-03	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.55073240E+04-2.40861210E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
Be ₂ C(L)	BAR 73BE 2.C 1.	0.	0.C	2400.000	30.03536	1	Barin (1973)
1.10708970E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.49696410E+04-6.57751160E+01	1.10708970E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.49696410E+04-6.57751160E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
Br ₂ (cr)	L 1/93BR 2.	0.	0.C	200.000	159.80800	1	McBride (1993)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
0.00000000E+00	0.00000000E+00	9.12545994E+00-8.26160881E-02	6.99861517E-04			3	
-2.40843064E-06	3.21106016E-09-3.30408820E+03	-3.01727996E+01	0.00000000E+00			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

Br2(L)	L 1/93BR 2.	0.	0.	0.C	265.900	332.503	159.80800	1	McBride (1993)
		0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	2	
		0.0000000E+00	0.0000000E+00	1.04252937E+01	1.11181227E-01	1.06856988E-03		3	
		3.25976572E-06	-3.27490398E-09	-3.50620403E+03	-4.90757083E+01	0.0000000E+00		4	
Br2(L)	L 1/93BR 2.	0.	0.	0.C	332.503	6000.000	159.80800	1	McBride (1993)
		9.05669727E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	2	
		-2.69988017E+03	-3.32936281E+01	9.05669727E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	3	
		0.0000000E+00	0.0000000E+00	-2.69988017E+03	-3.32936281E+01	0.0000000E+00		4	
C(gr)	X 4/83C 1.	0.	0.	0.C	200.000	5000.000	12.01100	1	McBride (1993)
		1.45571829E+00	1.71702216E-03	-6.97562786E-07	1.35277032E-10	-9.67590652E-15		2	TRC(4/83)tc-,uc-,
		-6.95138814E+02	-8.52583033E+00	-3.10872072E-01	4.40353686E-03	1.90394118E-06		3	vc-1000to1002
		-6.38546966E-09	2.98964248E-12	-1.08650794E+02	1.11382953E+00	0.0000000E+00		4	
C6H6(L)	X10/86C 6.H 6.	0.	0.	0.C	278.680	500.000	78.11364	1	TRC(10/86)tc-,
		0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00		2	uc-,vc-3201
		0.0000000E+00	0.0000000E+00	6.36690229E+01	-6.00534398E-01	2.66792810E-03		3	TRC(4/83)p-3200
		-5.06308828E-06	3.63955562E-09	-1.67085472E+03	-2.43891797E+02	5.90293355E+03		4	
C7H8(L)	X10/86C 7.H 8.	0.	0.	0.C	178.150	500.000	92.14052	1	TRC(10/86)tc-,
		0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00		2	uc-,vc-3201
		0.0000000E+00	0.0000000E+00	2.93676022E+01	-1.94722686E-01	9.74773096E-04		3	TRC(4/83)p-3200
		-1.91472689E-06	1.48097019E-09	-4.16318442E+03	-1.12019966E+02	1.46490894E+03		4	
C8H18(L),n-octa	X10/76C 8.H 18.	0.	0.	0.C	220.000	300.000	114.23092	1	TRC(10/76)tc-,
		7.14133930E+01	-5.02079500E-01	1.83419900E-03	-2.04501650E-06	0.0000000E+00		2	uc-,vc-1492
		-4.12437250E+04	-2.77222400E+02	7.14133930E+01	-5.02079500E-01	1.83419900E-03		3	TRC(10/82) p-1490
		-2.04501650E-06	0.0000000E+00	-4.12437250E+04	-2.77222400E+02	-3.01032790E+04		4	
Jet-A(L)	L 6/88C 12.H 23.	0.	0.	0.C	220.000	550.000	167.31462	1	Gracia-Salcedo (1988)
		0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00		2	
		0.0000000E+00	0.0000000E+00	1.90496130E+01	-1.69185320E-02	6.30220350E-04		3	
		-1.33365770E-06	9.43356380E-10	-4.48039640E+04	-6.76902000E+01	-3.64987440E+04		4	
Ca(a)	SRD 93CA 1.	0.	0.	0.C	298.150	716.000	40.07800	1	Alcock (1993)
		0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00		2	McBride (1993)
		0.0000000E+00	0.0000000E+00	3.03325649E+00	-1.41800064E-03	7.24487574E-06		3	
		-6.68790594E-09	2.49903889E-12	-8.93310508E+02	-1.20114288E+01	0.0000000E+00		4	
Ca(b)	SRD 93CA 1.	0.	0.	0.C	716.000	1115.000	40.07800	1	Alcock (1993)
		5.70111768E+00	-5.81056490E-03	4.02212518E-06	0.0000000E+00	0.0000000E+00		2	McBride (1993)
		-1.51676361E+03	-2.60758134E+01	5.70111768E+00	-5.81056490E-03	4.02212518E-06		3	
		0.0000000E+00	0.0000000E+00	-1.51676361E+03	-2.60758134E+01	0.0000000E+00		4	
Ca(L)	SRD 93CA 1.	0.	0.	0.C	115.000	6000.000	40.07800	1	Alcock (1993)
		4.57032345E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00		2	McBride (1993)
		-9.82243308E+02	-2.11988643E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00		3	
		0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00		4	
CaBr2(s)	J 6/74CA 1.BR 2.	0.	0.	0.C	300.000	1015.000	199.88600	1	Chase (1985)
		6.62997070E+00	4.02839100E-03	0.0000000E+00	0.0000000E+00	0.0000000E+00		2	
		-8.39396740E+04	-2.25238430E+01	5.26933940E+00	2.36978050E-02	-4.97999090E-05		3	
		4.67072240E-08	-1.52160970E-11	-8.44473670E+04	-1.96594450E+01	-8.21778817E+04		4	
CaBr2(L)	J 6/74CA 1.BR 2.	0.	0.	0.C	1015.000	5000.000	199.88600	1	Chase (1985)
		1.35871960E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00		2	
		-8.54287380E+04	-6.31516590E+01	1.35871960E+01	0.0000000E+00	0.0000000E+00		3	
		0.0000000E+00	0.0000000E+00	-8.54287380E+04	-6.31516590E+01	0.0000000E+00		4	
CaCO3(cal)	BAR 89CA 1.C 1.0 3.	0.	0.	0.C	298.150	1200.000	100.08720	1	Barin (1989)
		1.44388162E+01	-1.39777807E-03	2.04333103E-06	0.0000000E+00	0.0000000E+00		2	
		-1.50400710E+05	-7.28445489E+01	-1.76968953E+00	6.18884685E-02	-8.02380139E-05		3	
		4.61909015E-08	-2.98729740E-12	-1.46691812E+05	6.32412532E+00	0.0000000E+00		4	
CaCl2(s)	J 6/70CA 1.CL 2.	0.	0.	0.C	300.000	1045.000	110.98340	1	Chase (1985)
		8.73324080E+00	2.39551410E-04	9.44673770E-07	4.58518630E-10	-5.97495290E-14		2	
		-9.83080800E+04	-3.72366670E+01	6.35546750E+00	1.37843100E-02	-2.44214030E-05		3	
		1.95512800E-08	-4.95341690E-12	-9.80417830E+04	-2.68141460E+01	-9.57136949E+04		4	
CaCl2(L)	J 6/70CA 1.CL 2.	0.	0.	0.C	1045.000	5000.000	110.98340	1	Chase (1985)
		1.23321410E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00		2	
		-9.80239520E+04	-5.80474680E+01	1.23321410E+01	0.0000000E+00	0.0000000E+00		3	
		0.0000000E+00	0.0000000E+00	-9.80239520E+04	-5.80474680E+01	0.0000000E+00		4	
CaF2(a)	J12/68CA 1.F 2.	0.	0.	0.C	200.000	1424.000	78.07481	1	Chase (1985)
		1.03439908E+00	2.18402489E-02	-2.04796113E-05	1.03381996E-08	-1.91843768E-12		2	
		-1.48010445E+05	-2.08048925E+00	-3.91537176E-01	5.74664742E-02	-1.30834259E-04		3	
		1.32738284E-07	-4.81641634E-11	-1.48963614E+05	-1.91796873E+00	1.16566240E+04		4	
CaF2(b)	J12/68CA 1.F 2.	0.	0.	0.C	1691.000	1691.000	78.07481	1	Chase (1985)
		1.42866105E+01	-1.10249437E-03	1.41775401E-06	-2.81232082E-10	0.0000000E+00		2	
		-1.55453320E+05	-7.91866360E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00		3	
		0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	1.16566240E+04		4	
CaF2(L)	J12/68CA 1.F 2.	0.	0.	0.C	1691.000	6000.000	78.07481	1	Chase (1985)
		1.20168140E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00		2	
		-1.47908292E+05	-6.04927984E+01	0.0000000E+00	0.0000000E+00	0.0000000E+00		3	
		0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	1.16566240E+04		4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

CaO(s)	J 6/73CA 1.0 1. 0. 0.C	300.000	3200.000	56.07740	1	Chase (1985)
5.65575170E+00	1.01654390E-03	-2.55768990E-07	5.45143950E-11	-4.25799500E-15	2	
-7.82383810E+04	-2.82233720E+01	1.69376880E+00	1.81496630E-02	-2.83726090E-05	3	
2.05135390E-08	-5.51757680E-12	-7.74827690E+04	-9.37100810E+00	-7.63838127E+04	4	
CaO(L)	J 6/73CA 1.0 1. 0. 0.C	3200.000	5000.000	56.07740	1	Chase (1985)
7.54844210E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-7.11792920E+04	-3.80839480E+01	7.54844210E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-7.11792920E+04	-3.80839480E+01	0.00000000E+00	4	
CaO2H2(s)	J12/75CA 1.0 2.H 2. 0.C	300.000	1000.000	74.09268	1	Chase (1985)
-7.40227670E-01	6.75664680E-02	-1.31912810E-04	1.19890680E-07	-4.06130450E-11	2	
-1.20435430E+05	-1.00970750E+00	-7.40227670E-01	6.75664680E-02	-1.31912810E-04	3	
1.19890680E-07	-4.06130450E-11	-1.20435430E+05	-1.00970750E+00	-1.18600700E+05	4	
CaS(s)	J 9/77CA 1.S 1. 0. 0.C	300.000	3000.000	72.14400	1	Chase (1985)
5.65305190E+00	1.36258740E-03	-7.27811760E-07	2.49897630E-10	-3.09681260E-14	2	
-5.87103410E+04	-2.59063950E+01	4.64755580E+00	4.93155160E-03	-5.53089030E-06	3	
3.06639590E-09	-6.07856100E-13	-5.84770470E+04	-2.09227100E+01	-5.69152785E+04	4	
CaSO4(s)	BAR 73CA 1.S 1.0 4. 0.C	300.000	5000.000	136.14160	1	Barin (1973)
8.44419050E+00	1.18762150E-02	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.75532420E+05	-3.88201340E+01	8.44419050E+00	1.18762150E-02	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.75532420E+05	-3.88201340E+01	-1.72486926E+05	4	
Cr(cr)	J 6/73CR 1. 0. 0. 0.C	200.000	311.500	51.99610	1	McBride (1993)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
0.00000000E+00	0.00000000E+00	7.84826024E+00	-1.16276020E-01	8.12369251E-04	3	
-2.30807086E-06	2.35328142E-09	-8.98013946E+02	-2.75733139E+01	0.00000000E+00	4	
Cr(cr)	J 6/73CR 1. 0. 0. 0.C	311.500	2130.000	51.99610	1	McBride (1993)
4.59782637E+00	-4.81791132E-03	5.84129754E-06	-2.07036847E-09	2.82102268E-13	2	
-1.31489668E+03	-2.24454740E+01	1.82863471E+00	4.19562267E-03	-2.82735082E-06	3	
-9.15990578E-10	1.55203040E-12	-7.05502663E+02	-8.69806103E+00	0.00000000E+00	4	
Cr(L)	J 6/73CR 1. 0. 0. 0.C	2130.000	6000.000	51.99610	1	McBride (1993)
4.73028477E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
5.75359221E+02	-2.45318309E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
CrN(s)	J12/73CR 1.N 1. 0. 0.C	300.000	2500.000	66.00284	1	Chase (1985)
5.69445390E+00	5.30116900E-04	2.27058290E-07	-8.14832540E-11	1.08037960E-14	2	
-1.58360020E+04	-2.81317040E+01	9.71529040E+00	-2.37753720E-02	5.25610150E-05	3	
-4.83907470E-08	1.62707570E-11	-1.63234220E+04	-4.57300500E+01	-1.41071233E+04	4	
Cr2N(s)	J12/73CR 2.N 1. 0. 0.C	300.000	2500.000	117.99894	1	Chase (1985)
8.09841850E+00	1.85336110E-03	1.42273060E-06	-5.58963900E-10	6.93071100E-14	2	
-1.76848010E+04	-3.91474720E+01	2.03033880E+00	3.40064410E-02	-6.15249460E-05	3	
5.31425480E-08	-1.67695210E-11	-1.67683130E+04	-1.16006980E+01	-1.50979548E+04	4	
Cr2O3(s)	J12/73CR 2.0 3. 0. 0.C	300.000	2603.000	151.99040	1	Chase (1985)
1.40122350E+01	1.38239780E-03	-2.37792260E-07	1.69950850E-10	-3.77058570E-14	2	
-1.40982170E+05	-7.11015690E+01	2.93327730E+01	-1.02073850E-01	2.36011030E-04	3	
-2.25780190E-07	7.77992890E-11	-1.42404060E+05	-1.35742810E+02	-1.36519668E+05	4	
Cr2O3(L)	J12/73CR 2.0 3. 0. 0.C	2603.000	5000.000	151.99040	1	Chase (1985)
1.88711050E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.33694980E+05	-9.99614700E+01	1.88711050E+01	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.33694980E+05	-9.99614700E+01	0.00000000E+00	4	
Cs(cr)	CODA89CS 1. 0. 0. 0.C	100.000	301.500	132.90543	1	McBride (1993)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
0.00000000E+00	0.00000000E+00	3.31157194E+00	-9.67974793E-03	1.19926576E-04	3	
-5.20608084E-07	8.33415927E-10	-9.80844435E+02	-8.10866871E+00	0.00000000E+00	4	
Cs(L)	CODA89CS 1. 0. 0. 0.C	301.500	2000.000	132.90543	1	McBride (1993)
5.11512955E+00	-3.83970291E-03	2.01555257E-06	3.64202599E-10	-5.43974501E-14	2	
-1.13841767E+03	-1.70567624E+01	3.20358130E+00	6.53560206E-03	-1.88609302E-05	3	
1.88262490E-08	-6.10371782E-12	-8.61341855E+02	-8.43100388E+00	0.00000000E+00	4	
CsCL(a)	J 6/68CS 1.CL 1. 0. 0.C	300.000	743.000	168.35813	1	Chase (1985)
5.54534000E+00	2.38058340E-03	8.35703300E-07	-9.95716400E-10	3.80548030E-13	2	
-5.50265350E+04	-2.01642600E+01	5.54534000E+00	2.38058340E-03	8.35703300E-07	3	
-9.95716400E-10	3.80548030E-13	-5.50265350E+04	-2.01642600E+01	-5.32617875E+04	4	
CsCL(b)	J 6/68CS 1.CL 1. 0. 0.C	743.000	918.000	168.35813	1	Chase (1985)
8.16107370E+00	-1.76235680E-03	-2.25085160E-07	3.93073170E-09	-2.34523410E-12	2	
-5.54804310E+04	-3.39413960E+01	8.16107370E+00	-1.76235680E-03	-2.25085160E-07	3	
3.93073170E-09	-2.34523410E-12	-5.54804310E+04	-3.39413960E+01	0.00000000E+00	4	
CsCL(L)	J 6/68CS 1.CL 1. 0. 0.C	918.000	5000.000	168.35813	1	Chase (1985)
9.30974520E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-5.50311610E+04	-4.08101330E+01	9.30974520E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-5.50311610E+04	-4.08101330E+01	0.00000000E+00	4	
CsF(s)	J 6/68CS 1.F 1. 0. 0.C	300.000	976.000	151.90383	1	Chase (1985)
5.64899930E+00	1.87113980E-03	6.62423820E-07	-6.30848710E-10	1.86923390E-13	2	
-6.84851020E+04	-2.21499590E+01	5.64899930E+00	1.87113980E-03	6.62423820E-07	3	
-6.30848710E-10	1.86923390E-13	-6.84851020E+04	-2.21499590E+01	-6.67129928E+04	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

CsF(L)	J 6/68CS 1.F 1. 0. 0.C	976.000	5000.000	151.90383	1	Chase (1985)
8.90716170E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-6.80668170E+04	-3.99127740E+01	8.90716170E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-6.80668170E+04	-3.99127740E+01	0.00000000E+00	4	
CsOH(a)	J 6/71CS 1.0 1.H 1. 0.C	298.150	410.000	149.91277	1	Chase (1985)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
0.00000000E+00	0.00000000E+00	5.88946051E+00	6.13189982E-03	8.60763952E-06	3	
-1.20614689E-08	0.00000000E+00	-5.22010341E+04	-2.37840127E+01	0.00000000E+00	4	
CsOH(b)	J 6/71CS 1.0 1.H 1. 0.C	410.000	493.000	149.91277	1	Chase (1985)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
0.00000000E+00	0.00000000E+00	4.92104624E+00	1.00655116E-02	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-5.18660681E+04	-1.87438113E+01	0.00000000E+00	4	
CsOH(c)	J 6/71CS 1.0 1.H 1. 0.C	493.000	588.000	149.91277	1	Chase (1985)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
0.00000000E+00	0.00000000E+00	1.00644544E+01	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-5.24488650E+04	-4.41931478E+01	0.00000000E+00	4	
CsOH(L)	J 6/71CS 1.0 1.H 1. 0.C	588.000	6000.000	149.91277	1	Chase (1985)
9.81284300E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-5.17524722E+04	-4.16559605E+01	9.81284300E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-5.17524722E+04	-4.16559605E+01	0.00000000E+00	4	
Cs2SO4(II)	J 6/79CS 2.S 1.0 4. 0.C	300.000	940.000	361.87446	1	Chase (1985)
-2.97893070E+00	1.26508840E-01	-2.95532060E-04	3.32073080E-07	-1.31049910E-10	2	
-1.76233520E+05	1.51857470E+01	-2.97893070E+00	1.26508840E-01	-2.95532060E-04	3	
3.32073080E-07	-1.31049910E-10	-1.76233520E+05	1.51857470E+01	-1.73515408E+05	4	
Cs2SO4(I)	J 6/79CS 2.S 1.0 4. 0.C	940.000	1278.000	361.87446	1	Chase (1985)
-2.72327220E-02	3.13540360E-02	-1.13005310E-05	3.32831080E-09	0.00000000E+00	2	
-1.70211630E+05	2.48399880E+01	4.73498360E+00	1.86196000E-02	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.71541390E+05	1.37370460E-01	0.00000000E+00	4	
Cs2SO4(L)	J 6/79CS 2.S 1.0 4. 0.C	1278.000	5000.000	361.87446	1	Chase (1985)
2.48591980E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.77761980E+05	-1.16657440E+02	2.48591980E+01	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.77761980E+05	-1.16657440E+02	0.00000000E+00	4	
Cu(cr)	CODA89CU 1. 0. 0. 0.C	200.000	1358.000	63.54600	1	McBride (1993)
3.42008910E+00	-1.61201394E-03	3.05145917E-06	-2.11162788E-09	6.99858397E-13	2	
-9.90295636E+02	-1.51932294E+01	1.76672074E+00	7.34699432E-03	-1.54712960E-05	3	
1.50539591E-08	-5.24861335E-12	-7.43882087E+02	-7.70454044E+00	0.00000000E+00	4	
Cu(L)	CODA89CU 1. 0. 0. 0.C	1358.000	6000.000	63.54600	1	McBride (1993)
3.94491076E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-2.10634669E+02	-1.83585676E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
CuF(s)	J12/77CU 1.F 1. 0. 0.C	300.000	2000.000	82.54440	1	Chase (1985)
5.32155060E+00	4.85498320E-03	-3.54400480E-06	1.11090230E-09	-1.24537160E-13	2	
-3.55217150E+04	-2.39026430E+01	4.44212880E+00	7.96690760E-03	-7.28073110E-06	3	
2.76377730E-09	-2.73188420E-13	-3.53361600E+04	-1.95851700E+01	-3.37166351E+04	4	
CuF2(s)	J12/77CU 1.F 2. 0. 0.C	300.000	1109.000	101.54281	1	Chase (1985)
2.35576760E+00	1.49135080E-02	-6.39951930E-06	0.00000000E+00	0.00000000E+00	2	
-6.56106220E+04	-7.16267570E+00	4.38736760E+00	1.43971090E-02	-8.62134970E-06	3	
-1.98304460E-09	2.68967400E-12	-6.66855850E+04	-1.95805610E+01	-6.48164029E+04	4	
CuF2(L)	J12/77CU 1.F 2. 0. 0.C	1109.000	5000.000	101.54281	1	Chase (1985)
1.20775070E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-6.34879980E+04	-5.67303700E+01	1.20775070E+01	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-6.34879980E+04	-5.67303700E+01	0.00000000E+00	4	
CuO(s)	J12/77CU 1.0 1. 0. 0.C	300.000	2000.000	79.54540	1	Chase (1985)
5.02581240E+00	2.54240770E-03	-1.37682940E-06	5.34928310E-10	-7.96642810E-14	2	
-2.04332810E+04	-2.43766950E+01	8.84038660E-01	2.41588520E-02	-4.38941420E-05	3	
3.75861810E-08	-1.20882750E-11	-1.97883820E+04	-5.47238800E+00	-1.87702523E+04	4	
CuO2H2(s)	J 6/66CU 1.0 2.H 2. 0.C	300.000	1500.000	97.56068	1	Chase (1985)
8.67307870E+00	1.03857620E-02	-4.69948410E-06	-5.02925130E-10	5.35931600E-13	2	
-5.72303820E+04	-3.93661610E+01	1.04511850E+01	1.34582050E-03	8.66023390E-06	3	
-6.80923490E-09	7.44358590E-13	-5.74068650E+04	-4.72388030E+01	-5.41676188E+04	4	
CuSO4(s)	J 6/66CU 1.S 1.0 4. 0.C	300.000	2000.000	159.60960	1	Chase (1985)
1.13145360E+01	1.40503520E-02	-1.00635680E-05	3.72042210E-09	-5.28059140E-13	2	
-9.69982080E+04	-5.62546900E+01	3.30191660E+00	3.70123210E-02	-2.89908040E-05	3	
4.53140450E-09	2.63884450E-12	-9.49936210E+04	-1.54658780E+01	-9.26100033E+04	4	
Cu2O(s)	J12/77CU 2.0 1. 0. 0.C	300.000	1516.720	143.09140	1	Chase (1985)
1.47556410E+01	-1.58766570E-02	1.49711930E-05	-4.48402640E-09	4.05560050E-13	2	
-2.50650680E+04	-7.05418770E+01	3.38324660E+00	2.29541760E-02	-3.95423040E-05	3	
3.40204010E-08	-1.10438090E-11	-2.22731570E+04	-1.35307130E+01	-2.05315380E+04	4	
Cu2O(L)	J12/77CU 2.0 1. 0. 0.C	1516.720	5000.000	143.09140	1	Chase (1985)
1.20171200E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.92523870E+04	-5.68868660E+01	1.20171200E+01	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.92523870E+04	-5.68868660E+01	0.00000000E+00	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

Cu2O5S(s)	J 6/66CU 2.0	5.S 1.	0.C	300.000	1500.000	239.15500	1	Chase (1985)
1.60116340E+01	1.94246680E-02	-1.84482510E-05	1.11872040E-08	-2.61119830E-12			2	
-1.17616200E+05	-7.87274890E+01	2.52571780E+00	7.22059580E-02	-9.78556650E-05			3	
6.54324990E-08	-1.67444530E-11	-1.14786460E+05	-1.31961120E+01	-1.11567236E+05			4	
Fe(a)	J 3/78FE 1.	0.	0.C	200.000	1042.000	55.84700	1	McBride (1993)
4.69080173E+03	-9.90659991E+00	2.69427446E-03	5.54445321E-06	-3.01659823E-09			2	
-1.41547586E+06	-2.49294387E+04	2.41337476E+00	-1.57780744E-03	2.14701339E-05			3	
-3.80171438E-08	2.20426984E-11	-7.74380998E+02	-1.06560296E+01	0.00000000E+00			4	
Fe(a)	J 3/78FE 1.	0.	0.C	1042.000	1184.000	55.84700	1	McBride (1993)
6.59678809E+02	-1.14058217E+00	4.96306997E-04	0.00000000E+00	0.00000000E+00			2	
-2.52106802E+05	-3.65665236E+03	0.00000000E+00	0.00000000E+00	0.00000000E+00			3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			4	
Fe(c)	J 3/78FE 1.	0.	0.C	1184.000	1665.000	55.84700	1	McBride (1993)
6.10109990E+01	-1.60945061E-01	1.68369493E-04	-7.74563702E-08	1.33091290E-11			2	
-1.65335454E+04	-3.13710668E+02	0.00000000E+00	0.00000000E+00	0.00000000E+00			3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			4	
Fe(d)	J 3/78FE 1.	0.	0.C	1665.000	1809.000	55.84700	1	McBride (1993)
-4.35904698E+02	7.68489448E-01	-4.46898892E-04	8.67070913E-08	0.00000000E+00			2	
1.87925534E+05	-2.45057619E+03	0.00000000E+00	0.00000000E+00	0.00000000E+00			3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			4	
Fe(L)	J 3/78FE 1.	0.	0.C	1809.000	6000.000	55.84700	1	McBride (1993)
5.53538332E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
-1.27428941E+03	-2.94772271E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00			3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			4	
FeC5O5(L)	J 3/78FE 1.C	5.0 5.	0.C	300.000	5000.000	195.89900	1	Chase (1985)
2.81184500E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
-1.00524830E+05	-1.19665410E+02	2.81184500E+01	0.00000000E+00	0.00000000E+00			3	
0.00000000E+00	0.00000000E+00	-1.00524830E+05	-1.19665410E+02	-9.21413141E+04			4	
FeCl2(s)	J12/70FE 1.CL	2.	0.C	300.000	950.000	126.75240	1	Chase (1985)
7.11222710E+00	1.10869530E-02	-1.70727420E-05	1.35158170E-08	-4.13650360E-12			2	
-4.36009850E+04	-2.89940550E+01	7.11222710E+00	1.10869530E-02	-1.70727420E-05			3	
1.35158170E-08	-4.13650360E-12	-4.36009850E+04	-2.89940550E+01	-4.11137739E+04			4	
FeCl2(L)	J12/70FE 1.CL	2.	0.C	950.000	5000.000	126.75240	1	Chase (1985)
1.22888630E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
-4.11098210E+04	-5.31930570E+01	1.22888630E+01	0.00000000E+00	0.00000000E+00			3	
0.00000000E+00	0.00000000E+00	-4.11098210E+04	-5.31930570E+01	0.00000000E+00			4	
FeCl3(s)	J 6/65FE 1.CL	3.	0.C	200.000	577.000	162.20510	1	Chase (1985)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
0.00000000E+00	0.00000000E+00	0.00000000E+00	-7.39556855E+00	2.02608434E-01	-8.44505923E-04		3	
1.59286602E-06	-1.07989321E-09	-5.00144664E+04	2.44450935E+01	1.97062370E+04			4	
FeCl3(L)	J 6/65FE 1.CL	3.	0.C	577.000	6000.000	162.20510	1	Chase (1985)
1.61031270E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
-4.84135278E+04	-6.75758990E+01	1.61031270E+01	0.00000000E+00	0.00000000E+00			3	
0.00000000E+00	0.00000000E+00	-4.84135278E+04	-6.75758990E+01	1.97062370E+04			4	
FeO(s)	J 6/65FE 1.0	1.	0.C	300.000	1650.000	71.84640	1	Chase (1985)
8.83164890E+00	1.42751560E-03	-9.32081430E-08	-6.59977630E-12	-2.25121430E-14			2	
-3.45669020E+04	-2.64469900E+01	5.31954750E+00	2.20965910E-03	1.07217750E-06			3	
-2.79297290E-09	1.33207330E-12	-3.44071650E+04	-2.36860340E+01	-3.27183475E+04			4	
FeO(L)	J 6/65FE 1.0	1.	0.C	1650.000	5000.000	71.84640	1	Chase (1985)
8.20224820E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
-3.38486150E+04	-4.00791290E+01	8.20224820E+00	0.00000000E+00	0.00000000E+00			3	
0.00000000E+00	0.00000000E+00	-3.38486150E+04	-4.00791290E+01	0.00000000E+00			4	
Fe(OH)2(s)	J 6/66FE 1.0	2.H 2.	0.C	300.000	1500.000	89.86168	1	Chase (1985)
7.40318080E+00	1.19817420E-02	-1.49576110E-06	-5.05263590E-09	2.00371110E-12			2	
-7.15922660E+04	-3.46732670E+01	1.00912180E+01	4.45231410E-03	4.06668550E-06			3	
-4.00945250E-09	2.39471640E-13	-7.22776880E+04	-4.84000340E+01	-6.90429813E+04			4	
Fe(OH)3(s)	J 6/66FE 1.0	3.H 3.	0.C	300.000	1500.000	106.86902	1	Chase (1985)
8.02239260E+00	1.64201350E-02	-1.23693780E-07	-6.81928380E-09	2.32769070E-12			2	
-1.03213360E+05	-3.79340200E+01	4.41168360E+00	3.26824620E-02	-2.23938150E-05			3	
2.86467920E-09	2.26223210E-12	-1.02718340E+05	-2.13310140E+01	-1.00141482E+05			4	
FeS(a)	J 9/77FE 1.S	1.	0.C	300.000	411.000	87.91300	1	Chase (1985)
1.89776270E+01	-1.09542820E-01	2.21860160E-04	0.00000000E+00	0.00000000E+00			2	
-1.49952420E+04	-7.81254350E+01	1.89776270E+01	-1.09542820E-01	2.21860160E-04			3	
0.00000000E+00	0.00000000E+00	-1.49952420E+04	-7.81254350E+01	-1.22458515E+04			4	
FeS(b)	J 9/77FE 1.S	1.	0.C	411.000	598.000	87.91300	1	Chase (1985)
8.70285050E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
-1.46897380E+04	-4.20821020E+01	8.70285050E+00	0.00000000E+00	0.00000000E+00			3	
0.00000000E+00	0.00000000E+00	-1.46897380E+04	-4.20821020E+01	0.00000000E+00			4	
FeS(c)	J 9/77FE 1.S	1.	0.C	598.000	1463.000	87.91300	1	Chase (1985)
-2.68304830E+00	3.67651040E-02	-5.21822740E-05	3.16071700E-08	-6.41260410E-12			2	
-1.14986840E+04	1.62391240E+01	9.37241760E+00	9.41620590E-04	-1.58298640E-05			3	
1.83808810E-08	-5.77070670E-12	-1.45816850E+04	-4.51415160E+01	0.00000000E+00			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

FeS(L)	J 9/77FE 1.S	1.	0.	0.C	1463.000	5000.000	87.91300	1	Chase (1985)
7.52328060E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.01642370E+04	-3.19709300E+01	7.52328060E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.01642370E+04	-3.19709300E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
FeS04(s)	J 6/66FE 1.S	1.0	4.	0.C	300.000	2000.000	151.91060	1	Chase (1985)
1.16089290E+01	1.38046970E-02	-9.81263800E-06	3.60878110E-09	-5.09762790E-13				2	
-1.16191860E+05	-5.64778170E+01	3.50576840E+00	3.70297010E-02	-2.90335310E-05				3	
4.57785890E-09	2.62020870E-12	-1.14162500E+05	-1.52232410E+01	-1.11717626E+05				4	
FeS2(s)	J 9/77FE 1.S	2.	0.	0.C	300.000	1400.000	119.97900	1	Chase (1985)
-8.85153200E+01	3.27489310E-01	-4.10574390E-04	2.29281460E-07	-4.77644150E-11				2	
-4.65124760E+02	4.41730450E+02	4.03456630E-01	4.26746840E-02	-8.40306260E-05				3	
7.63014410E-08	-2.54323160E-11	-2.20459270E+04	-5.54563930E+00	-2.06325071E+04				4	
Fe2O3(s)	J 6/66FE 2.0	3.	0.	0.C	300.000	2500.000	159.69220	1	Chase (1985)
4.04975300E+01	-4.61315960E-02	3.18264060E-05	-8.92263310E-09	8.46554170E-13				2	
-1.13176270E+05	-2.16350880E+02	-7.70378430E+00	1.36474710E-01	-3.29056550E-04				3	
3.81504780E-07	-1.63102850E-10	-1.00800760E+05	2.52920850E+01	-9.92620367E+04				4	
Fe2S3O12(s)	J 6/66FE 2.S	3.0	12.	0.C	300.000	2000.000	399.98480	1	Chase (1985)
3.91144380E+01	1.17963270E-02	-3.38710140E-08	-2.29703990E-09	6.41019860E-13				2	
-3.24782620E+05	-1.94004290E+02	1.11169550E+01	8.37067780E-02	-4.13650750E-05				3	
-2.52792220E-08	2.10414350E-11	-3.17297820E+05	-4.92887500E+01	-3.10668274E+05				4	
Fe3O4(s)	J 6/66FE 3.0	4.	0.	0.C	300.000	5000.000	231.53860	1	Chase (1985)
2.41337200E+01	4.15922260E-05	-2.63314920E-08	6.60350940E-12	-5.69246800E-16				2	
-1.41210520E+05	-1.20064120E+02	3.61981480E+01	-1.74379760E-01	5.24756730E-04				3	
-5.42382190E-07	1.79962020E-10	-1.41387300E+05	-1.55566830E+02	-1.34696136E+05				4	
H2O(s)	L 8/89H 2.0	1.	0.	0.C	200.000	273.150	18.01528	1	Gordon (1982)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00				2	
0.00000000E+00	0.00000000E+00	5.29677970E+00	-6.75749247E-02	5.16942109E-04				3	
-1.43853360E-06	1.52564794E-09	-3.62266557E+04	-1.79220428E+01	-3.59742186E+04				4	
H2O(L)	L 8/89H 2.0	1.	0.	0.C	273.150	600.000	18.01528	1	Cox (1989)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00				2	Keenan (1969)
0.00000000E+00	0.00000000E+00	7.25575005E+01	-6.62445402E-01	2.56198746E-03				3	Stimson (1969)
-4.36591923E-06	2.78178981E-09	-4.18865499E+04	-2.88280137E+02	-3.43772513E+04				4	
H2SO4(L)	J 9/77H 2.S	1.0	4.	0.C	300.000	1000.000	98.07948	1	Chase (1985)
9.94215250E+00	2.17863690E-02	3.49744580E-06	-3.35488570E-09	1.16995860E-12				2	
-1.01859790E+05	-4.43986950E+01	9.94215250E+00	2.17863690E-02	3.49744580E-06				3	
-3.35488570E-09	1.16995860E-12	-1.01859790E+05	-4.43986950E+01	-9.79023828E+04				4	
Hg(cr)	J12/61HG 1.	0.	0.	0.C	200.000	234.290	200.59000	1	McBride (1993)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00				2	
0.00000000E+00	0.00000000E+00	2.43103385E+00	4.24646658E-03	0.00000000E+00				3	
0.00000000E+00	0.00000000E+00	-1.17886806E+03	-7.11248114E+00	0.00000000E+00				4	
Hg(L)	J12/61HG 1.	0.	0.	0.C	234.290	2000.000	200.59000	1	McBride (1993)
3.03653487E+00	3.16066666E-04	6.43901172E-08	-2.92306991E-11	4.86860918E-15				2	
-8.88170502E+02	-8.17243018E+00	3.79685248E+00	-2.09026109E-03	2.22267107E-06				3	
-1.08605655E-10	-4.28087248E-13	-1.05834631E+03	-1.19626936E+01	0.00000000E+00				4	
HgBr2(s)	J 3/62HG 1.BR 2.	0.	0.C	300.000	514.000	360.39800	1	Chase (1985)	
8.28297140E+00	1.63023640E-03	3.42298790E-06	7.09619920E-10	-4.33538620E-12				2	
-2.29524380E+04	-2.73452760E+01	8.28297140E+00	1.63023640E-03	3.42298790E-06				3	
7.09619920E-10	-4.33538620E-12	-2.29524380E+04	-2.73452760E+01	-2.03808119E+04				4	
HgBr2(L)	J 3/62HG 1.BR 2.	0.	0.C	514.000	5000.000	360.39800	1	Chase (1985)	
1.22787990E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00				2	
-2.25008980E+04	-4.68512120E+01	1.22787990E+01	0.00000000E+00	0.00000000E+00				3	
0.00000000E+00	0.00000000E+00	-2.25008980E+04	-4.68512120E+01	0.00000000E+00				4	
HgO(s)	J 6/62HG 1.0	1.	0.	0.C	300.000	1000.000	216.58940	1	Chase (1985)
3.41708660E+00	7.11605700E-03	-1.48969960E-06	-4.49135480E-09	2.59379240E-12				2	
-1.22332700E+04	-1.30371850E+01	3.41708660E+00	7.11605700E-03	-1.48969960E-06				3	
-4.49135480E-09	2.59379240E-12	-1.22332700E+04	-1.30371850E+01	-1.09189916E+04				4	
I2(cr)	TPIS89I 2.	0.	0.C	200.000	386.750	253.80894	1	McBride (1993)	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00				2	
0.00000000E+00	0.00000000E+00	-1.05757713E+01	2.26905653E-01	-1.12461645E-03				3	
2.41678452E-06	-1.84901377E-09	-8.99721615E+02	3.88598964E+01	0.00000000E+00				4	
I2(L)	TPIS89I 2.	0.	0.C	386.750	6000.000	253.80894	1	McBride (1993)	
9.56821268E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00				2	
-1.20451948E+03	-3.63733927E+01	9.56821268E+00	0.00000000E+00	0.00000000E+00				3	
0.00000000E+00	0.00000000E+00	-1.20451948E+03	-3.63733927E+01	0.00000000E+00				4	
K(cr)	CODA89K 1.	0.	0.C	200.000	336.860	39.09830	1	McBride (1993)	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00				2	
0.00000000E+00	0.00000000E+00	-2.08951123E+00	6.16320193E-02	-2.40731903E-04				3	
3.27255823E-07	0.00000000E+00	-6.36098059E+02	9.11736910E+00	0.00000000E+00				4	
K(L)	CODA89K 1.	0.	0.C	336.860	2200.000	39.09830	1	McBride (1993)	
4.64954931E+00	-2.79174106E-03	1.80836337E-06	3.41244868E-11	-4.48782184E-15				2	
-1.01467797E+03	-1.71767347E+01	4.22910563E+00	-7.06885543E-04	-2.12965848E-06				3	
3.36227270E-09	-1.05902602E-12	-9.45117514E+02	-1.52340054E+01	0.00000000E+00				4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

KCN(s)	J 3/66K 1.C 1.N 1. 0.C	300.000	895.000	65.11604	1	Chase (1985)
					2	
					3	
					4	
KCN(L)	J 3/66K 1.C 1.N 1. 0.C	895.000	5000.000	65.11604	1	Chase (1985)
					2	
					3	
					4	
KCL(s)	J 3/66K 1.CL 1. 0. 0.C	300.000	1044.000	74.55100	1	Chase (1985)
					2	
					3	
					4	
KCL(L)	J 3/66K 1.CL 1. 0. 0.C	1044.000	5000.000	74.55100	1	Chase (1985)
					2	
					3	
					4	
KF(s)	J 6/69K 1.F 1. 0. 0.C	300.000	1131.000	58.09670	1	Chase (1985)
					2	
					3	
					4	
KF(L)	J 6/69K 1.F 1. 0. 0.C	1131.000	5000.000	58.09670	1	Chase (1985)
					2	
					3	
					4	
KHF2(a)	J 6/71K 1.H 1.F 2. 0.C	300.000	469.850	78.10305	1	Chase (1985)
					2	
					3	
					4	
KHF2(b)	J 6/71K 1.H 1.F 2. 0.C	469.850	511.950	78.10305	1	Chase (1985)
					2	
					3	
					4	
KHF2(L)	J 6/71K 1.H 1.F 2. 0.C	511.950	6000.000	78.10305	1	Chase (1985)
					2	
					3	
					4	
KOH(a)	J12/70K 1.0 1.H 1. 0.C	300.000	516.000	56.10564	1	Chase (1985)
					2	
					3	
					4	
KOH(b)	J12/70K 1.0 1.H 1. 0.C	516.000	679.000	56.10564	1	Chase (1985)
					2	
					3	
					4	
KOH(L)	J12/70K 1.0 1.H 1. 0.C	679.000	5000.000	56.10564	1	Chase (1985)
					2	
					3	
					4	
KO2(s)	J 6/71K 1.0 2. 0.C	300.000	1500.000	71.09710	1	Chase (1985)
					2	
					3	
					4	
K2CO3(s)	J 3/66K 2.C 1.0 3. 0.C	300.000	1174.000	138.20580	1	Chase (1985)
					2	
					3	
					4	
K2CO3(L)	J 3/66K 2.C 1.0 3. 0.C	1174.000	5000.000	138.20580	1	Chase (1985)
					2	
					3	
					4	
K2O(s)	J 6/63K 2.0 1. 0. 0.C	298.150	2000.000	94.19600	1	Chase (1985)
					2	
					3	
					4	
K2O2(s)	J 9/63K 2.0 2. 0. 0.C	298.150	2000.000	110.19540	1	Chase (1985)
					2	
					3	
					4	
K2S(1)	J 3/78K 2.S 1. 0. 0.C	300.000	1050.000	110.26260	1	Chase (1985)
					2	
					3	
					4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

K2S(2)	J 3/78K 2.S 1. 0. 0.C 1050.000 1100.000 110.26260	1	Chase (1985)
	1.56428160E+02-1.26644440E-01 0.00000000E+00 0.00000000E+00 0.00000000E+00	2	
	-1.31144190E+05-9.27942750E+02 1.56428160E+02-1.26644440E-01 0.00000000E+00	3	
	0.00000000E+00 0.00000000E+00-1.31144190E+05-9.27942750E+02 0.00000000E+00	4	
K2S(3)	J 3/78K 2.S 1. 0. 0.C 1100.000 1221.000 110.26260	1	Chase (1985)
	1.71198670E+01 0.00000000E+00 0.00000000E+00 0.00000000E+00 0.00000000E+00	2	
	-5.45249530E+04-9.16665110E+01 1.71198670E+01 0.00000000E+00 0.00000000E+00	3	
	0.00000000E+00 0.00000000E+00-5.45249530E+04-9.16665110E+01 0.00000000E+00	4	
K2S(L)	J 3/78K 2.S 1. 0. 0.C 1221.000 5000.000 110.26260	1	Chase (1985)
	1.21429270E+01 0.00000000E+00 0.00000000E+00 0.00000000E+00 0.00000000E+00	2	
	-4.65203490E+04-5.47160430E+01 1.21429270E+01 0.00000000E+00 0.00000000E+00	3	
	0.00000000E+00 0.00000000E+00-4.65203490E+04-5.47160430E+01 0.00000000E+00	4	
K2SO4(a)	J 6/78K 2.S 1.0 4. 0.C 300.000 857.000 174.26020	1	Chase (1985)
	1.70265260E+00 8.47097140E-02-1.76325730E-04 1.92828030E-07-7.64708900E-11	2	
	-1.75980870E+05-7.56319510E+00 1.70265260E+00 8.47097140E-02-1.76325730E-04	3	
	1.92828030E-07-7.64708900E-11-1.75980870E+05-7.56319510E+00-1.72921009E+05	4	
K2SO4(b)	J 6/78K 2.S 1.0 4. 0.C 857.000 1342.000 174.26020	1	Chase (1985)
	-2.90198660E+02 1.05696310E+00-1.34752990E-03 7.67665760E-07-1.63374400E-10	2	
	-1.05542140E+05 1.45300940E+03 1.38071770E+01 9.67305900E-03 4.56585510E-08	3	
	0.00000000E+00 0.00000000E+00-1.75853260E+05-5.84412960E+01 0.00000000E+00	4	
K2SO4(L)	J 6/78K 2.S 1.0 4. 0.C 1342.000 5000.000 174.26020	1	Chase (1985)
	2.42304990E+01 0.00000000E+00 0.00000000E+00 0.00000000E+00 0.00000000E+00	2	
	-1.76955190E+05-1.17402220E+02 2.42304990E+01 0.00000000E+00 0.00000000E+00	3	
	0.00000000E+00 0.00000000E+00-1.76955190E+05-1.17402220E+02 0.00000000E+00	4	
Li(cr)	TPIS82LI 1. 0. 0. 0.C 200.000 453.690 6.94100	1	McBride (1993)
	0.00000000E+00 0.00000000E+00 0.00000000E+00 0.00000000E+00 0.00000000E+00	2	
	0.00000000E+00 0.00000000E+00 6.10909942E-01 1.41041217E-02-1.74958170E-05	3	
	-3.33741023E-08 7.76629665E-11-6.25121208E+02-3.26449947E+00 0.00000000E+00	4	
Li(L)	TPIS82LI 1. 0. 0. 0.C 453.690 3000.000 6.94100	1	McBride (1993)
	3.89314223E+00-8.42787696E-04 4.45546328E-07-3.65337454E-11 3.89279220E-15	2	
	-8.22019556E+02-1.78183077E+01 4.62266638E+00-4.06164205E-03 5.91666170E-06	3	
	-4.24960085E-09 1.23517473E-12-9.58811267E+02-2.12778501E+01 0.00000000E+00	4	
LiAlO2(s)	J12/79LI 1.AL 1.0 2. 0.C 300.000 1973.000 65.92134	1	Chase (1985)
	8.54408940E+00 6.48867910E-03-4.08639690E-06 1.54714660E-09-2.24950380E-13	2	
	-1.45981500E+05-4.45906180E+01-5.28411560E+00 7.84525870E-02-1.45415780E-04	3	
	1.24629580E-07-4.01137050E-11-1.43818310E+05 1.85767330E+01-1.42964183E+05	4	
LiAlO2(L)	J12/79LI 1.AL 1.0 2. 0.C 1973.000 5000.000 65.92134	1	Chase (1985)
	1.50966790E+01 0.00000000E+00 0.00000000E+00 0.00000000E+00 0.00000000E+00	2	
	-1.41658390E+05-8.09937670E+01 1.50966790E+01 0.00000000E+00 0.00000000E+00	3	
	0.00000000E+00 0.00000000E+00-1.41658390E+05-8.09937670E+01 0.00000000E+00	4	
LiCl(s)	J 6/62LI 1.CL 1. 0. 0.C 300.000 883.000 42.39370	1	Chase (1985)
	4.10952450E+00 8.19810030E-03-1.15418740E-05 1.05853860E-08-3.64570220E-12	2	
	-5.6082660E+04-1.82988940E+01 4.10952450E+00 8.19810030E-03-1.15418740E-05	3	
	1.05853860E-08-3.64570220E-12-5.06082660E+04-1.82988940E+01-4.91014060E+04	4	
LiCl(L)	J 6/62LI 1.CL 1. 0. 0.C 883.000 2000.000 42.39370	1	Chase (1985)
	8.21494770E+00 5.63913610E-04-1.73503310E-06 7.65950080E-10-1.23784770E-13	2	
	-5.00073220E+04-3.88089610E+01 1.03830280E+01-4.71796990E-03-1.61383170E-06	3	
	8.08071740E-09-4.44594930E-12-5.05391200E+04-4.99219600E+01 0.00000000E+00	4	
LiF(s)	J12/68LI 1.F 1. 0. 0.C 300.000 1121.300 25.93940	1	Chase (1985)
	5.54057380E+00-1.34210800E-04 1.78256060E-06 8.89964440E-10-9.12966540E-13	2	
	-7.59003650E+04-2.74472760E+01 1.76943250E+00 1.75052240E-02-2.80387510E-05	3	
	2.28933850E-08-6.96336580E-12-7.52992780E+04-9.94780570E+00-7.41994361E+04	4	
LiF(L)	J12/68LI 1.F 1. 0. 0.C 1121.300 5000.000 25.93940	1	Chase (1985)
	7.71954010E+00 0.00000000E+00 0.00000000E+00 0.00000000E+00 0.00000000E+00	2	
	-7.43043470E+04-3.88154870E+01 7.71954010E+00 0.00000000E+00 0.00000000E+00	3	
	0.00000000E+00 0.00000000E+00-7.43043470E+04-3.88154870E+01 0.00000000E+00	4	
LiH(s)	J 9/67LI 1.H 1. 0. 0.C 300.000 961.800 7.94894	1	Chase (1985)
	3.86118120E-01 1.21279570E-02-8.69003360E-06 5.63115550E-09-1.26934830E-12	2	
	-1.14869910E+04-3.06545750E+00 3.86118120E-01 1.21279570E-02-8.69003360E-06	3	
	5.63115550E-09-1.26934830E-12-1.14869910E+04-3.06545750E+00-1.08990681E+04	4	
LiH(L)	J 9/67LI 1.H 1. 0. 0.C 961.800 5000.000 7.94894	1	Chase (1985)
	7.49811910E+00 0.00000000E+00 0.00000000E+00 0.00000000E+00 0.00000000E+00	2	
	-1.15818260E+04-4.00472780E+01 7.49811910E+00 0.00000000E+00 0.00000000E+00	3	
	0.00000000E+00 0.00000000E+00-1.15818260E+04-4.00472780E+01 0.00000000E+00	4	
LiOH(s)	J 6/71LI 1.0 1.H 1. 0.C 300.000 744.300 23.94834	1	Chase (1985)
	6.32277970E-01 2.53405380E-02-2.78979500E-05 8.69258930E-09 4.14998940E-12	2	
	-5.94126800E+04-4.83826970E+00 6.32277970E-01 2.53405380E-02-2.78979500E-05	3	
	8.69258930E-09 4.14998940E-12-5.94126800E+04-4.83826970E+00-5.83252001E+04	4	
LiOH(L)	J 6/71LI 1.0 1.H 1. 0.C 744.300 5000.000 23.94834	1	Chase (1985)
	1.04742180E+01 0.00000000E+00 0.00000000E+00 0.00000000E+00 0.00000000E+00	2	
	-6.01856710E+04-5.38971400E+01 1.04742180E+01 0.00000000E+00 0.00000000E+00	3	
	0.00000000E+00 0.00000000E+00-6.01856710E+04-5.38971400E+01 0.00000000E+00	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

Li2O(s)	J 3/64LI 2.0	1.	0.	0.C	300.000	1843.000	29.88140	1	Chase (1985)
	4.27747760E+00	7.85216720E-03	-5.22250900E-07	-1.78644260E-09	5.39610350E-13			2	
	-7.33962780E+04	-2.17654970E+01	-3.17272390E-01	3.61493560E-02	-5.54559210E-05			3	
	4.17964370E-08	-1.18040480E-11	-7.31061960E+04	-2.28883300E+00	-7.20069902E+04			4	
Li2O(L)	J 3/64LI 2.0	1.	0.	0.C	1843.000	5000.000	29.88140	1	Chase (1985)
	1.20769310E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	-7.13379210E+04	-6.51749740E+01	1.20769310E+01	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	-7.13379210E+04	-6.51749740E+01	0.00000000E+00			4	
Li2SO4(a)	J12/78LI 2.S	1.0	4.	0.C	200.000	848.000	109.94560	1	Chase (1985)
	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	0.00000000E+00	0.00000000E+00	-4.13873597E+00	1.06940568E-01	-2.09346052E-04			3	
	2.12892822E-07	-8.01625106E-11	-1.74806776E+05	1.29835773E+01	1.86362240E+04			4	
Li2SO4(b)	J12/78LI 2.S	1.0	4.	0.C	848.000	1132.000	109.94560	1	Chase (1985)
	2.61026513E+01	-8.29304728E-04	3.90810735E-07	0.00000000E+00	0.00000000E+00			2	
	-1.80422445E+05	-1.38008099E+02	2.57954812E+01	-2.84625052E-04	1.53301129E-07			3	
	0.00000000E+00	0.00000000E+00	-1.80308445E+05	-1.36312168E+02	1.86362240E+04			4	
Li2SO4(L)	J12/78LI 2.S	1.0	4.	0.C	1132.000	6000.000	109.94560	1	Chase (1985)
	2.46579132E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	-1.78097798E+05	-1.27626158E+02	0.00000000E+00	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	1.86362240E+04			4	
Li3N(s)	J 3/78LI 3.N	1.	0.	0.C	300.000	1300.000	34.82974	1	Chase (1985)
	5.44225030E+00	1.34777370E-02	-1.94223220E-06	-2.49601090E-11	0.00000000E+00			2	
	-2.20157760E+04	-2.74572750E+01	2.92255580E+00	2.85987020E-02	-3.53369470E-05			3	
	3.18619850E-08	-1.10935010E-11	-2.16780290E+04	-1.63310570E+01	-1.97900194E+04			4	
Mg(cr)	SRD 93MG 1.	0.	0.	0.C	298.150	923.000	24.30500	1	Alcock (1993)
	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	McBride (1993)
	0.00000000E+00	0.00000000E+00	1.47884944E+00	9.27430526E-03	-1.95050788E-05			3	
	1.98215527E-08	-7.04927374E-12	-7.16649299E+02	-6.57222695E+00	0.00000000E+00			4	
Mg(L)	SRD 93MG 1.	0.	0.	0.C	923.000	6000.000	24.30500	1	Alcock (1993)
	4.12531827E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	McBride (1993)
	-6.58934341E+02	-1.93786894E+01	4.12531827E+00	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	-6.58934341E+02	-1.93786894E+01	0.00000000E+00			4	
MgAL2O4(s)	J12/79MG 1.AL 2.0	4.	0.C	300.000	2408.000	142.26568	1	Chase (1985)	
	1.46976790E+01	9.33047970E-03	-3.55225980E-06	1.15505300E-09	-1.43345310E-13			2	
	-2.81664110E+05	-7.66686850E+01	-6.39126250E+00	1.17188600E-01	-2.13251780E-04			3	
	1.82774050E-07	-5.88319910E-11	-2.78271410E+05	2.01327010E+01	-2.76518945E+05			4	
MgAL2O4(L)	J12/79MG 1.AL 2.0	4.	0.C	2408.000	5000.000	142.26568	1	Chase (1985)	
	2.64191880E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	-2.68835360E+05	-1.41985810E+02	2.64191880E+01	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	-2.68835360E+05	-1.41985810E+02	0.00000000E+00			4	
MgBr2(s)	J 6/74MG 1.BR 2.	0.	0.C	300.000	984.000	184.11300	1	Chase (1985)	
	5.19664220E+00	2.06702530E-02	-3.72539390E-05	3.19375640E-08	-9.95070160E-12			2	
	-6.52526160E+04	-2.02889100E+01	5.19664220E+00	2.06702530E-02	-3.72539390E-05			3	
	3.19375640E-08	-9.95070160E-12	-6.52526160E+04	-2.02889100E+01	-6.30552290E+04			4	
MgBr2(L)	J 6/74MG 1.BR 2.	0.	0.C	984.000	5000.000	184.11300	1	Chase (1985)	
	1.25807370E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	-6.39629820E+04	-5.62554600E+01	1.25807370E+01	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	-6.39629820E+04	-5.62554600E+01	0.00000000E+00			4	
MgCO3(s)	J12/66MG 1.C 1.0	3.	0.C	300.000	1000.000	84.31420	1	Chase (1985)	
	1.34919240E+00	3.69341120E-02	-4.44929520E-05	3.18159060E-08	-9.75453000E-12			2	
	-1.35416850E+05	-9.06187320E+00	1.34919240E+00	3.69341120E-02	-4.44929520E-05			3	
	3.18159060E-08	-9.75453000E-12	-1.35416850E+05	-9.06187320E+00	-1.33707806E+05			4	
MgCl2(s)	J12/65MG 1.CL 2.	0.	0.C	300.000	987.000	95.21040	1	Chase (1985)	
	5.44912960E+00	1.67452240E-02	-2.59569070E-05	1.91115730E-08	-5.10590140E-12			2	
	-7.93438940E+04	-2.42610840E+01	5.44912960E+00	1.67452240E-02	-2.59569070E-05			3	
	1.91115730E-08	-5.10590140E-12	-7.93438940E+04	-2.42610840E+01	-7.71689336E+04			4	
MgCl2(L)	J12/65MG 1.CL 2.	0.	0.C	987.000	5000.000	95.21040	1	Chase (1985)	
	1.10710480E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	-7.62946180E+04	-4.89725880E+01	1.10710480E+01	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	-7.62946180E+04	-4.89725880E+01	0.00000000E+00			4	
MgF2(s)	J 6/75MG 1.F 2.	0.	0.C	300.000	1536.000	62.30181	1	Chase (1985)	
	-2.10224270E+00	3.50242280E-02	-3.97498930E-05	2.04618590E-08	-3.95344100E-12			2	
	-1.35393080E+05	1.10446550E+01	1.60361100E+00	3.17944860E-02	-5.26857980E-05			3	
	4.15877060E-08	-1.26194950E-11	-1.36720340E+05	-9.73231710E+00	-1.35218306E+05			4	
MgF2(L)	J 6/75MG 1.F 2.	0.	0.C	1536.000	5000.000	62.30181	1	Chase (1985)	
	1.14167670E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	-1.34084100E+05	-5.74250690E+01	1.14167670E+01	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	-1.34084100E+05	-5.74250690E+01	0.00000000E+00			4	
MgI2(s)	J12/74MG 1.I 2.	0.	0.C	300.000	907.000	278.11394	1	Chase (1985)	
	6.70171590E+00	1.16970220E-02	-1.68363080E-05	1.31438090E-08	-4.00999570E-12			2	
	-4.65277610E+04	-2.54320430E+01	6.70171590E+00	1.16970220E-02	-1.68363080E-05			3	
	1.31438090E-08	-4.00999570E-12	-4.65277610E+04	-2.54320430E+01	-4.41344148E+04			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

MgI2(L)	J12/74MG 1.I	2.	0.	0.C	967.000	5000.000	278.11394	1	Chase (1985)
1.20775070E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2	
-4.55256600E+04	-5.18835260E+01	1.20775070E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		3	
0.00000000E+00	0.00000000E+00	-4.55256600E+04	-5.18835260E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00		4	
MgO(s)	J12/74MG 1.0	1.	0.	0.C	300.000	3105.000	40.30440	1	Chase (1985)
5.04486810E+00	1.68982010E-03	-7.56176950E-07	2.02868930E-10	-2.05912710E-14				2	
-7.40292850E+04	-2.63288920E+01	-4.54039530E-01	2.78732690E-02	-4.90622470E-05				3	
4.04741510E-08	-1.26703440E-11	-7.30579480E+04	-6.35520200E-01	-7.23138995E+04				4	
MgO(L)	J12/74MG 1.0	1.	0.	0.C	3105.000	5000.000	40.30440	1	Chase (1985)
8.05167150E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2	
-6.98794510E+04	-4.43438250E+01	8.05167150E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		3	
0.00000000E+00	0.00000000E+00	-6.98794510E+04	-4.43438250E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00		4	
MgO2H2(s)	J12/75MG 1.0	2.H	2.	0.C	300.000	1400.000	58.31968	1	Chase (1985)
-4.16642480E+00	7.68449870E-02	-1.37207670E-04	1.14268590E-07	-3.59258370E-11				2	
-1.12384340E+05	1.35926370E+01	-4.16642480E+00	7.68449870E-02	-1.37207670E-04				3	
1.14268590E-07	-3.59258370E-11	-1.12384340E+05	1.35926370E+01	-1.11214407E+05				4	
MgS(s)	J12/77MG 1.S	1.	0.	0.C	300.000	903.000	56.37100	1	Chase (1985)
5.35012290E+00	1.34336550E-03	-6.29050000E-07	1.98198580E-10	-2.25916480E-14				2	
-4.32385480E+04	-2.48378310E+01	4.09728770E+00	6.92978580E-03	-9.20292860E-06				3	
5.63293350E-09	-1.21703300E-12	-4.30407590E+04	-1.89960010E+01	-4.15818955E+04				4	
MgSO4(s)	L 7/76MG 1.S	1.0	4.	0.C	300.000	1400.000	120.36860	1	Parker (1971)
-6.44769200E+01	2.63753170E-01	-3.24918840E-04	1.82572340E-07	-3.86907670E-11				2	Chase (1985)
-1.40661070E+05	3.21883890E+02	2.15340590E+00	4.87565320E-02	-7.36650300E-05				3	
5.94277870E-08	-1.84337080E-11	-1.56809620E+05	-1.30284440E+01	-1.54542596E+05				4	
MgSO4(L)	L 7/76MG 1.S	1.0	3.	0.C	300.000	5000.000	120.36860	1	Chase (1985)
1.91227200E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2	
-1.60928760E+05	-1.01804650E+02	1.91227200E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		3	
0.00000000E+00	0.00000000E+00	-1.60928760E+05	-1.01804650E+02	0.00000000E+00	0.00000000E+00	0.00000000E+00		4	
MgSiO3(I)	J12/67MG 1.SI	1.0	3.	0.C	300.000	903.000	100.38870	1	Chase (1985)
1.33777790E+00	4.44532220E-02	-6.59737530E-05	4.74142570E-08	-1.23310980E-11				2	
-1.88172260E+05	-1.01789360E+01	1.33777790E+00	4.44532220E-02	-6.59737530E-05				3	
4.74142570E-08	-1.23310980E-11	-1.88172260E+05	-1.01789360E+01	-1.86292592E+05				4	
MgSiO3(II)	J12/67MG 1.SI	1.0	3.	0.C	903.000	1258.000	100.38870	1	Chase (1985)
1.44738860E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2	
-1.91621720E+05	-7.66594640E+01	1.44738860E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		3	
0.00000000E+00	0.00000000E+00	-1.91621720E+05	-7.66594640E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00		4	
MgSiO3(III)	J12/67MG 1.SI	1.0	3.	0.C	1258.000	1850.000	100.38870	1	Chase (1985)
1.47255010E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2	
-1.91741990E+05	-7.82992980E+01	1.47255010E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		3	
0.00000000E+00	0.00000000E+00	-1.91741990E+05	-7.82992980E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00		4	
MgSiO3(L)	J12/67MG 1.SI	1.0	3.	0.C	1850.000	5000.000	100.38870	1	Chase (1985)
1.76130310E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2	
-1.88025790E+05	-9.51257310E+01	1.76130310E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		3	
0.00000000E+00	0.00000000E+00	-1.88025790E+05	-9.51257310E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00		4	
MgTiO3(s)	J 6/67MG 1.TI	1.0	3.	0.C	300.000	1953.000	120.18320	1	Chase (1985)
1.02882240E+01	1.03437300E-02	-7.40121790E-06	2.79288240E-09	-3.95324480E-13				2	
-1.92811680E+05	-5.29580880E+01	-1.57777430E-01	6.220183970E-02	-1.04805960E-04				3	
8.49409250E-08	-2.63672950E-11	-1.91077380E+05	-4.66165350E+00	-1.89138441E+05				4	
MgTiO3(L)	J 6/67MG 1.TI	1.0	3.	0.C	1953.000	5000.000	120.18320	1	Chase (1985)
1.96259490E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2	
-1.90918120E+05	-1.06562040E+02	1.96259490E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		3	
0.00000000E+00	0.00000000E+00	-1.90918120E+05	-1.06562040E+02	0.00000000E+00	0.00000000E+00	0.00000000E+00		4	
MgTi2O5(s)	J 6/67MG 1.TI	2.0	5.	0.C	300.000	1963.000	200.06200	1	Chase (1985)
1.67766080E+01	1.22377910E-02	-6.30131600E-06	2.40194880E-09	-3.54129300E-13				2	
-3.07546550E+05	-8.32933900E+01	1.27163110E+00	9.26637940E-02	-1.63695020E-04				3	
1.39033730E-07	-4.45132320E-11	-3.05116130E+05	-1.24221020E+01	-3.01810872E+05				4	
MgTi2O5(L)	J 6/67MG 1.TI	2.0	5.	0.C	1963.000	5000.000	200.06200	1	Chase (1985)
3.14015190E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2	
-3.04100010E+05	-1.68586490E+02	3.14015190E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		3	
0.00000000E+00	0.00000000E+00	-3.04100010E+05	-1.68586490E+02	0.00000000E+00	0.00000000E+00	0.00000000E+00		4	
Mg2SiO4(s)	J12/67MG 2.SI	1.0	4.	0.C	300.000	2171.000	140.69310	1	Chase (1985)
1.57526790E+01	6.80046500E-03	-1.622039510E-06	7.73681120E-12	-6.33375730E-14				2	
-2.67299550E+05	-8.14579920E+01	1.34289820E+00	6.68665880E-02	-9.64456250E-05				3	
6.64239600E-08	-1.71839900E-11	-2.64469010E+05	-1.23991620E+01	-2.61825552E+05				4	
Mg2SiO4(L)	J12/67MG 2.SI	1.0	4.	0.C	2171.000	5000.000	140.69310	1	Chase (1985)
2.46582440E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2	
-2.66925490E+05	-1.34615100E+02	2.46582440E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		3	
0.00000000E+00	0.00000000E+00	-2.66925490E+05	-1.34615100E+02	0.00000000E+00	0.00000000E+00	0.00000000E+00		4	
Mg2TiO4(s)	J 6/67MG 2.TI	1.0	4.	0.C	300.000	2013.000	160.48760	1	Chase (1985)
1.47725770E+01	1.08241470E-02	-4.99075600E-06	1.74079440E-09	-2.53981950E-13				2	
-2.65390780E+05	-7.39337100E+01	-5.04411560E-02	8.80864240E-02	-1.56837890E-04				3	
1.34018470E-07	-4.31237870E-11	-2.63078650E+05	-6.25375070E+00	-2.60319690E+05				4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

Mg2TiO4(L)	J 6/67MG 2.TI 1.0 4.	0.C	2013.000	5000.000	160.48760	1	Chase (1985)	
	2.74763290E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2		
	-2.61535590E+05	-1.47458370E+02	2.74763290E+01	0.00000000E+00	0.00000000E+00	3		
	0.00000000E+00	0.00000000E+00	-2.61535590E+05	-1.47458370E+02	0.00000000E+00	4		
Mo(cr)	J 3/78MO 1.	0.	0.C	200.000	2896.000	95.94000	1	McBride (1993)
	5.38432823E+00	-6.01622180E-03	6.01482526E-06	-2.32962338E-09	3.52007808E-13	2		
	-1.62657220E+03	-2.62488891E+01	1.32884141E+00	9.82553689E-03	-2.10929825E-05	3		
	2.09509528E-08	-7.60703244E-12	-6.84364789E+02	-6.29286538E+00	0.00000000E+00	4		
Mo(L)	J 3/78MO 1.	0.	0.C	2896.000	6000.000	95.94000	1	McBride (1993)
	4.52894999E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2		
	2.02140667E+03	-2.28074752E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	3		
	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4		
NH4CL(a)	BAR 73N 1.H 4.CL 1.	0.C	298.150	458.000	53.49120	1	Barin (1973)	
	4.67493830E+00	1.92734250E-02	0.00000000E+00	0.00000000E+00	0.00000000E+00	2		
	-4.00827510E+04	-2.09591330E+01	4.67493830E+00	1.92734250E-02	0.00000000E+00	3		
	0.00000000E+00	0.00000000E+00	-4.00827510E+04	-2.09591330E+01	-3.78322780E+04	4		
NH4CL(b)	BAR 73N 1.H 4.CL 1.	0.C	458.000	793.200	53.49120	1	Barin (1973)	
	4.16668500E+00	1.34360490E-02	0.00000000E+00	0.00000000E+00	0.00000000E+00	2		
	-3.87626930E+04	-1.41344020E+01	4.16668500E+00	1.34360490E-02	0.00000000E+00	3		
	0.00000000E+00	0.00000000E+00	-3.87626930E+04	-1.41344020E+01	-3.78322780E+04	4		
Na(cr)	CODA89NA 1.	0.	0.C	200.000	371.010	22.98977	1	McBride (1993)
	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2		
	0.00000000E+00	0.00000000E+00	1.23954242E+00	2.00562189E-02	-7.36418252E-05	3		
	1.02712149E-07	0.00000000E+00	-8.13320916E+02	-4.50651391E+00	0.00000000E+00	4		
Na(L)	CODA89NA 1.	0.	0.C	371.010	2300.000	22.98977	1	McBride (1993)
	4.59858543E+00	-2.42459406E-03	1.32453794E-06	-4.12375317E-11	6.40167081E-15	2		
	-9.98535534E+02	-1.86257127E+01	4.32382419E+00	-1.41145451E-03	-1.31068846E-07	3		
	9.17457679E-10	-2.35065070E-13	-9.36522263E+02	-1.72722638E+01	0.00000000E+00	4		
NaAlO2(a)	J 3/63NA 1.AL 1.0 2.	0.C	300.000	740.000	81.97011	1	Chase (1985)	
	-8.05047800E-01	5.84349680E-02	-1.18844150E-04	1.19700420E-07	-4.62247930E-11	2		
	-1.37816650E+05	-5.33352820E-02	-8.05047800E-01	5.84349680E-02	-1.18844150E-04	3		
	1.19700420E-07	-4.62247930E-11	-1.37816650E+05	-5.33352820E-02	-1.36294676E+05	4		
NaAlO2(b)	J 3/63NA 1.AL 1.0 2.	0.C	740.000	3000.000	81.97011	1	Chase (1985)	
	1.19662150E+01	-2.28172770E-03	3.77137410E-06	-1.29326700E-09	1.41350220E-13	2		
	-1.40048180E+05	-6.00064550E+01	1.05423430E+01	8.84839070E-04	1.39067630E-06	3		
	-5.13913930E-10	0.00000000E+00	-1.39580600E+05	-5.23713620E+01	0.00000000E+00	4		
NaBr(s)	J 9/64NA 1.BR 1.	0.	0.C	300.000	1020.000	102.89377	1	Chase (1985)
	6.62464480E+00	1.23829830E-04	4.099002760E-07	2.06836510E-10	-1.80764850E-14	2		
	-4.55603720E+04	-2.76058000E+01	4.87664610E+00	6.83189280E-03	-1.06411630E-05	3		
	9.16139280E-09	-2.88162970E-12	-4.51486440E+04	-1.89825450E+01	-4.34682858E+04	4		
NaBr(L)	J 9/64NA 1.BR 1.	0.	0.C	1020.000	5000.000	102.89377	1	Chase (1985)
	7.49811910E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2		
	-4.30497700E+04	-3.01704510E+01	7.49811910E+00	0.00000000E+00	0.00000000E+00	3		
	0.00000000E+00	0.00000000E+00	-4.30497700E+04	-3.01704510E+01	0.00000000E+00	4		
NaCN(s)	J 3/66NA 1.C 1.N 1.	0.C	300.000	835.000	49.00751	1	Chase (1985)	
	7.99677320E+00	1.91545500E-03	-5.34215910E-06	6.80916420E-09	-3.14149110E-12	2		
	-1.33402940E+04	-3.17039330E+01	7.99677320E+00	1.91545500E-03	-5.34215910E-06	3		
	6.80916420E-09	-3.14149110E-12	-1.33402940E+04	-3.17039330E+01	-1.09061445E+04	4		
NaCN(L)	J 3/66NA 1.C 1.N 1.	0.C	835.000	5000.000	49.00751	1	Chase (1985)	
	9.56136000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2		
	-1.33864070E+04	-4.02873090E+01	9.56136000E+00	0.00000000E+00	0.00000000E+00	3		
	0.00000000E+00	0.00000000E+00	-1.33864070E+04	-4.02873090E+01	0.00000000E+00	4		
NaCl(s)	J 9/64NA 1.CL 1.	0.	0.C	300.000	1073.800	58.44247	1	Chase (1985)
	2.21349270E+00	1.58599020E-03	5.04863830E-06	2.60205490E-09	-3.64870960E-12	2		
	-4.92632030E+04	-2.60256600E+00	5.02407780E+00	5.19490660E-03	-7.28337300E-06	3		
	6.06719790E-09	-1.20134240E-12	-5.11233350E+04	-2.12272010E+01	-4.94474351E+04	4		
NaCl(L)	J 9/64NA 1.CL 1.	0.C	1073.800	5000.000	58.44247	1	Chase (1985)	
	1.23584880E+01	-6.30712010E-03	3.20047230E-06	-6.77173620E-10	5.10156120E-14	2		
	-5.14232650E+04	-6.05855300E+01	1.23584880E+01	-6.30712010E-03	3.20047230E-06	3		
	-6.77173620E-10	5.10156120E-14	-5.14232650E+04	-6.05855300E+01	0.00000000E+00	4		
NaF(s)	J12/68NA 1.F 1.	0.	0.C	300.000	1269.000	41.98817	1	Chase (1985)
	7.83420260E+00	-9.48391800E-04	-5.48439860E-06	6.68430220E-09	-2.92858600E-12	2		
	-7.18104050E+04	-3.88157100E+01	3.69775520E+00	1.05205720E-02	-1.72356560E-05	3		
	1.41259110E-08	-3.95145290E-12	-7.06471830E+04	-1.73936330E+01	-6.92033173E+04	4		
NaF(L)	J12/68NA 1.F 1.	0.	0.C	1269.000	3500.000	41.98817	1	Chase (1985)
	1.09632610E+01	-3.20684590E-03	1.16116620E-06	-1.62992970E-10	5.24561410E-15	2		
	-7.06739430E+04	-5.63756950E+01	1.09632610E+01	-3.20684590E-03	1.16116620E-06	3		
	-1.62992970E-10	5.24561410E-15	-7.06739430E+04	-5.63756950E+01	0.00000000E+00	4		
NaI(s)	J 9/63NA 1.I 1.	0.	0.C	300.000	933.000	149.89424	1	Chase (1985)
	5.49959840E+00	3.56680530E-03	-3.99656300E-06	3.18410730E-09	-9.53087220E-13	2		
	-3.63903560E+04	-2.03992510E+01	5.49959840E+00	3.56680530E-03	-3.99656300E-06	3		
	3.18410730E-09	-9.53087220E-13	-3.63903560E+04	-2.03992510E+01	-3.46215846E+04	4		

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

NaI(L)	J 9/63NA 1.I 1. 0. 0.C	933.000	5000.000	149.89424	1	Chase (1985)
7.80005680E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-3.47595680E+04	-3.08188810E+01	7.80005680E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-3.47595680E+04	-3.08188810E+01	0.00000000E+00	4	
NaOH(a)	J12/70NA 1.0 1.H 1. 0.C	300.000	596.000	39.99711	1	Chase (1985)
8.58794940E+00	-3.54060130E-03	-4.55333940E-05	1.84184830E-07	-1.50189730E-10	2	
-5.35118510E+04	-3.94075850E+01	8.58794940E+00	-3.54060130E-03	-4.55333940E-05	3	
1.84184830E-07	-1.50189730E-10	-5.35118510E+04	-3.94075850E+01	-5.12178981E+04	4	
NaOH(L)	J12/70NA 1.0 1.H 1. 0.C	596.000	2500.000	39.99711	1	Chase (1985)
9.49723210E+00	2.27179720E-03	-2.39779340E-06	7.83984770E-10	-8.19764720E-14	2	
-5.29068240E+04	-4.52999000E+01	9.05567750E+00	4.30250410E-03	-2.42591320E-06	3	
-3.54796640E-09	2.68894200E-12	-5.29424450E+04	-4.35151400E+01	0.00000000E+00	4	
NaO2(s)	J 6/63NA 1.0 2. 0. 0.C	300.000	2000.000	54.98857	1	Chase (1985)
6.67531770E+00	6.42345130E-03	-1.54377730E-06	6.83577740E-10	-1.10739220E-13	2	
-3.35725460E+04	-2.58486080E+01	7.27988820E+00	4.41607210E-03	1.24139210E-06	3	
-1.29211710E-09	4.82594790E-13	-3.37265610E+04	-2.88998070E+01	-3.13511405E+04	4	
Na2CO3(1)	J 3/66NA 2.C 1.0 3. 0.C	300.000	723.150	105.98874	1	Chase (1985)
6.78356590E+00	3.88297010E-02	-9.82624550E-05	1.65430840E-07	-8.32945150E-11	2	
-1.39170100E+05	-3.04632930E+01	6.78356590E+00	3.88297010E-02	-9.82624550E-05	3	
1.65430840E-07	-8.32945150E-11	-1.39170100E+05	-3.04632930E+01	-1.36002267E+05	4	
Na2CO3(2)	J 3/66NA 2.C 1.0 3. 0.C	723.150	1123.150	105.98874	1	Chase (1985)
8.28177550E+00	1.12753890E-02	1.99632940E-06	0.00000000E+00	0.00000000E+00	2	
-1.37612660E+05	-3.13725800E+01	1.18483410E+01	-3.51389860E-03	2.06155690E-05	3	
-7.39651750E-09	0.00000000E+00	-1.38141870E+05	-4.80643680E+01	0.00000000E+00	4	
Na2CO3(L)	J 3/66NA 2.C 1.0 3. 0.C	1123.150	5000.000	105.98874	1	Chase (1985)
2.27962950E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.42292180E+05	-1.16221210E+02	2.27962950E+01	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.42292180E+05	-1.16221210E+02	0.00000000E+00	4	
Na2O(c)	J 6/68NA 2.0 1. 0. 0.C	300.000	1243.200	61.97894	1	Chase (1985)
2.41689560E+01	-2.52797440E-02	-4.73906580E-06	3.18363870E-08	-1.45702650E-11	2	
-5.80482360E+04	-1.25180650E+02	5.26545830E+00	1.11168720E-02	-6.38753820E-07	3	
-9.69932070E-09	5.37200710E-12	-5.23143450E+04	-2.41870240E+01	-5.02726131E+04	4	
Na2O(a)	J 6/68NA 2.0 1. 0. 0.C	1243.200	1405.200	61.97894	1	Chase (1985)
1.49065900E+02	2.27990380E-01	3.83912680E-05	-1.70999190E-07	6.13959260E-11	2	
1.16147950E+04	8.46892680E+02	-1.49065900E+02	2.27990380E-01	3.83912680E-05	3	
-1.70999190E-07	6.13959260E-11	1.16147950E+04	8.46892680E+02	0.00000000E+00	4	
Na2O(L)	J 6/68NA 2.0 1. 0. 0.C	1405.200	5000.000	61.97894	1	Chase (1985)
1.25807370E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-4.85948570E+04	-6.06615490E+01	1.25807370E+01	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-4.85948570E+04	-6.06615490E+01	0.00000000E+00	4	
Na2O2(a)	J 6/68NA 2.0 2. 0. 0.C	300.000	785.000	77.97834	1	Chase (1985)
4.58152780E+00	3.24559100E-02	-5.11542010E-05	4.26639790E-08	-1.39916370E-11	2	
-6.41610530E+04	-2.24554530E+01	4.58152780E+00	3.24559100E-02	-5.11542010E-05	3	
4.26639790E-08	-1.39916370E-11	-6.41610530E+04	-2.24554530E+01	-6.17267448E+04	4	
Na2O2(b)	J 6/68NA 2.0 2. 0. 0.C	1405.200	5000.000	77.97834	1	Chase (1985)
1.36626800E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-6.56325710E+04	-6.68415510E+01	1.36626800E+01	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-6.56325710E+04	-6.68415510E+01	0.00000000E+00	4	
Na2S(1)	J 3/78NA 2.S 1. 0. 0.C	300.000	1276.000	78.04554	1	Chase (1985)
4.46755600E+02	-1.05851110E+00	8.11700930E-04	-1.88778780E-07	0.00000000E+00	2	
-1.77483940E+05	-2.34626590E+03	9.70755990E+00	-3.11261830E-04	5.51211610E-06	3	
-6.04350720E-09	2.30175490E-12	-4.69503790E+04	-4.38376130E+01	-4.40320621E+04	4	
Na2S(2)	J 3/78NA 2.S 1. 0. 0.C	1276.000	1445.000	78.04554	1	Chase (1985)
-5.67935490E+05	1.68041210E+03	-1.86226790E+00	9.16205880E-04	-1.68848790E-07	2	
1.53328050E+08	2.91086870E+06	-5.67935490E+05	1.68041210E+03	-1.86226790E+00	3	
9.16205880E-04	-1.68848790E-07	1.53328050E+08	2.91086870E+06	0.00000000E+00	4	
Na2S(L)	J 3/78NA 2.S 1. 0. 0.C	1445.000	5000.000	78.04554	1	Chase (1985)
1.10710480E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-4.27909300E+04	-4.86158890E+01	1.10710480E+01	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-4.27909300E+04	-4.86158890E+01	0.00000000E+00	4	
Na2SO4(V)	J 6/78NA 2.S 1.0 4. 0.C	200.000	458.000	142.04314	1	Chase (1985)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
0.00000000E+00	0.00000000E+00	5.83393186E+00	3.08201992E-02	5.97986350E-05	3	
-2.59779078E-07	2.47853998E-10	-1.70156075E+05	-2.52886427E+01	2.32172790E+04	4	
NaSO4(IV)	J 6/78NA 2.S 1.0 4. 0.C	458.000	514.000	142.04314	1	Chase (1985)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
0.00000000E+00	0.00000000E+00	9.71967784E+00	2.18820420E-02	-6.19770747E-06	3	
0.00000000E+00	0.00000000E+00	-1.70712819E+05	-4.36063369E+01	2.32172790E+04	4	
NaSO4(I)	J 6/78NA 2.S 1.0 4. 0.C	514.000	1157.000	142.04314	1	Chase (1985)
1.61157389E+01	8.20925891E-03	-2.33305547E-07	0.00000000E+00	0.00000000E+00	2	
-1.71129101E+05	-7.46990748E+01	1.54854389E+01	1.92613777E-02	-3.32257332E-05	3	
3.56283302E-08	-1.30577214E-11	-1.71322923E+05	-7.35127015E+01	2.32172790E+04	4	
NaSO4(L)	J 6/78NA 2.S 1.0 4. 0.C	1157.000	6000.000	142.04314	1	Chase (1985)
2.36977729E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.71658912E+05	-1.16358482E+02	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2.32172790E+04	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

Na3ALF6(a)	J12/79NA 3.AL 1.F 6.	0.C	300.000	836.000	209.94126	1	Chase (1985)		
2.25929580E+00	1.55696660E-01	-3.61618440E-04	4.04790800E-07	-1.65055520E-10		2			
-4.04059930E+05	-1.77985450E+01	2.25929580E+00	1.55696660E-01	-3.61618440E-04		3			
4.04790800E-07	-1.65055520E-10	-4.04059930E+05	-1.77985450E+01	-3.98938949E+05		4			
Na3ALF6(b)	J12/79NA 3.AL 1.F 6.	0.C	836.000	1285.000	209.94126	1	Chase (1985)		
9.55439570E+00	3.52015420E-02	-1.46209940E-05	4.40206690E-09	0.00000000E+00		2			
-3.99075520E+05	-2.82161770E+01	1.65936570E+01	1.69116940E-02	1.03166000E-06		3			
0.00000000E+00	0.00000000E+00	-4.01086890E+05	-6.49107920E+01	0.00000000E+00		4			
Na3ALF6(L)	J12/79NA 3.AL 1.F 6.	0.C	1285.000	5000.000	209.94126	1	Chase (1985)		
4.75676230E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2			
-4.12965380E+05	-2.53758800E+02	4.75676230E+01	0.00000000E+00	0.00000000E+00		3			
0.00000000E+00	0.00000000E+00	-4.12965380E+05	-2.53758800E+02	0.00000000E+00		4			
Na5AL3F14(s)	J12/79NA 5.AL 3.F 14.	0.C	300.000	1010.000	461.87110	1	Chase (1985)		
6.08053760E+01	1.01490150E-02	0.00000000E+00	0.00000000E+00	0.00000000E+00		2			
-9.31943650E+05	-2.94919480E+02	1.37281710E+00	2.32983000E-01	-4.16721720E-04		3			
3.53732680E-07	-1.12767740E-10	-9.23255820E+05	-7.39137540E+01	-9.11843310E+05		4			
Na5AL3F14(L)	J12/79NA 5.AL 3.F 14.	0.C	1010.000	5000.000	461.87110	1	Chase (1985)		
1.17130100E+02	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2			
-9.56128840E+05	-6.47053090E+02	1.17130100E+02	0.00000000E+00	0.00000000E+00		3			
0.00000000E+00	0.00000000E+00	-9.56128840E+05	-6.47053090E+02	0.00000000E+00		4			
Nb(cr)	J12/73NB 1.	0.	0.	0.C	200.000	2750.000	92.90638	1	McBride (1993)
4.21499986E+00	-2.90686491E-03	3.12396990E-06	-1.27909749E-09	2.09229406E-13		2			
-1.28682102E+03	-1.91976179E+01	1.91200557E+00	6.92396275E-03	-1.56081201E-05		3			
1.61804090E-08	-6.04602043E-12	-7.69037196E+02	-8.00990261E+00	0.00000000E+00		4			
Nb(L)	J12/73NB 1.	0.	0.	0.C	2750.000	6000.000	92.90638	1	McBride (1993)
4.02573333E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2			
1.42704047E+03	-1.85790552E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00		3			
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		4			
Nb0(s)	J12/73NB 1.0	1.	0.	0.C	300.000	2210.000	108.90578	1	Chase (1985)
5.12365530E+00	8.93758600E-04	3.09308450E-07	-1.64337020E-10	2.85698350E-14		2			
-5.21109100E+04	-2.40995200E+01	2.98212600E+00	1.02175450E-02	-1.51788950E-05		3			
1.13084670E-08	-3.13828580E-12	-5.17033690E+04	-1.39185970E+01	-5.04733489E+04		4			
Nb0(L)	J12/73NB 1.0	1.	0.	0.C	2210.000	5000.000	108.90578	1	Chase (1985)
7.54844210E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2			
-4.45871380E+04	-3.58173400E+01	7.54844210E+00	0.00000000E+00	0.00000000E+00		3			
0.00000000E+00	0.00000000E+00	-4.45871380E+04	-3.58173400E+01	0.00000000E+00		4			
Nb02(I)	J12/73NB 1.0	2.	0.	0.C	200.000	1090.000	124.90518	1	Chase (1985)
5.28902716E+00	5.20386062E-03	0.00000000E+00	0.00000000E+00	0.00000000E+00		2			
-9.72972461E+04	-2.48908597E+01	-1.54841792E+00	5.45536428E-02	-1.20674626E-04		3			
1.23777770E-07	-4.56154808E-11	-9.67311630E+04	3.47268215E+00	9.27174400E+03		4			
Nb02(II)	J12/73NB 1.0	2.	0.	0.C	1090.000	1200.000	124.90518	1	Chase (1985)
1.11714100E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2			
-1.00205998E+05	-5.99819441E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00		3			
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	9.27174400E+03		4			
Nb02(III)	J12/73NB 1.0	2.	0.	0.C	1200.000	2175.000	124.90518	1	Chase (1985)
9.98885082E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2			
-9.87869274E+04	-5.15975088E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00		3			
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	9.27174400E+03		4			
Nb02(L)	J12/73NB 1.0	2.	0.	0.C	2175.000	6000.000	124.90518	1	Chase (1985)
1.13223750E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2			
-9.06165758E+04	-5.67553462E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00		3			
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	9.27174400E+03		4			
Nb205(s)	J12/72NB 2.0	5.	0.	0.C	300.000	1785.000	265.80976	1	Chase (1985)
1.70548920E+01	4.91405580E-03	4.72946440E-07	-1.83760710E-09	5.06219220E-13		2			
-2.34230270E+05	-8.32247990E+01	8.50534880E+00	3.44012140E-02	-3.76987480E-05		3			
1.98637200E-08	-3.96102670E-12	-2.32232290E+05	-4.06849200E+01	-2.28463075E+05		4			
Nb205(L)	J12/72NB 2.0	5.	0.	0.C	1785.000	5000.000	265.80976	1	Chase (1985)
2.91369870E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2			
-2.37360250E+05	-1.59333960E+02	2.91369870E+01	0.00000000E+00	0.00000000E+00		3			
0.00000000E+00	0.00000000E+00	-2.37360250E+05	-1.59333960E+02	0.00000000E+00		4			
Ni(cr)	J12/76NI 1.	0.	0.	0.C	200.000	631.000	58.69340	1	McBride (1993)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00		2			
0.00000000E+00	0.00000000E+00	3.92097614E+00	-2.34184719E-02	1.34230145E-04		3			
-2.75971639E-07	1.98530861E-10	-8.62387206E+02	-1.56856186E+01	0.00000000E+00		4			
Ni(cr)	J12/76NI 1.	0.	0.	0.C	631.000	1728.000	58.69340	1	McBride (1993)
9.58208572E+00	-1.78945122E-02	1.97185112E-05	-9.11957952E-09	1.58728609E-12		2			
-2.61782185E+03	-4.74612393E+01	4.85484877E+02	-2.30395380E+00	4.10622634E-03		3			
-3.23350101E-06	9.49617381E-10	-8.11709085E+04	-2.25428960E+03	0.00000000E+00		4			

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

Ni (L)	J12/76NI 1.	0.	0.	0.C	1728.000	6000.000	58.69340	1	McBride (1993)
4.67989094E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-3.22238346E+02	-2.33517797E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
NiS(b)	J12/76NI 1.S	1.	0.	0.C	300.000	652.000	90.75940	1	Chase (1985)
2.51505130E+00	1.98108790E-02	-4.47517130E-05	5.35527360E-08	-2.47391510E-11	2				
-1.18972750E+04	-1.22988050E+01	2.51505130E+00	1.98108790E-02	-4.47517130E-05	3				
5.35527360E-08	-2.47391510E-11	-1.18972750E+04	-1.22988050E+01	-1.05681072E+04	4				
NiS(a)	J12/76NI 1.S	1.	0.	0.C	652.000	1249.000	90.75940	1	Chase (1985)
-2.16882770E+00	2.04672610E-02	-1.52390680E-05	4.52420390E-09	0.00000000E+00	2				
-9.25397310E+03	1.60189760E+01	1.59778550E+00	1.62791590E-02	-2.39592640E-05	3				
1.96652470E-08	-5.99935920E-12	-1.06051920E+04	-4.99884140E+00	0.00000000E+00	4				
NiS(L)	J12/76NI 1.S	1.	0.	0.C	1249.000	5000.000	90.75940	1	Chase (1985)
9.23426080E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2				
-1.10536520E+04	-4.57697360E+01	9.23426080E+00	0.00000000E+00	0.00000000E+00	3				
0.00000000E+00	0.00000000E+00	-1.10536520E+04	-4.57697360E+01	0.00000000E+00	4				
NiS2(s)	J 3/77NI 1.S	2.	0.	0.C	300.000	1280.000	122.82540	1	Chase (1985)
5.27426400E+00	9.08709310E-03	-5.82010990E-06	1.70500810E-09	0.00000000E+00	2				
-1.75287250E+04	-2.33922190E+01	7.74493490E+00	2.53517140E-03	-9.97675870E-08	3				
1.07829500E-10	-4.19129410E-14	-1.82225390E+04	-3.62243800E+01	-1.58013948E+04	4				
NiS2(L)	J 3/77NI 1.S	2.	0.	0.C	1280.000	5000.000	122.82540	1	Chase (1985)
1.09452410E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2				
-1.23449250E+04	-4.97206240E+01	1.09452410E+01	0.00000000E+00	0.00000000E+00	3				
0.00000000E+00	0.00000000E+00	-1.23449250E+04	-4.97206240E+01	0.00000000E+00	4				
Ni3S2(1)	J12/76NI 3.S	2.	0.	0.C	300.000	829.000	240.21220	1	Chase (1985)
6.92383000E+00	4.04466800E-02	-7.30739570E-05	7.10070760E-08	-2.62218590E-11	2				
-2.93621960E+04	-3.27350520E+01	6.92383000E+00	4.04466800E-02	-7.30739570E-05	3				
7.10070760E-08	-2.62218590E-11	-2.93621960E+04	-3.27350520E+01	-2.60177884E+04	4				
Ni3S2(2)	J12/76NI 3.S	2.	0.	0.C	829.000	1062.000	240.21220	1	Chase (1985)
2.26855850E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2				
-2.93134790E+04	-1.11689780E+02	2.26855850E+01	0.00000000E+00	0.00000000E+00	3				
0.00000000E+00	0.00000000E+00	-2.93134790E+04	-1.11689780E+02	0.00000000E+00	4				
Ni3S2(L)	J12/76NI 3.S	2.	0.	0.C	1062.000	5000.000	240.21220	1	Chase (1985)
2.30680390E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2				
-2.73444020E+04	-1.12118110E+02	2.30680390E+01	0.00000000E+00	0.00000000E+00	3				
0.00000000E+00	0.00000000E+00	-2.73444020E+04	-1.12118110E+02	0.00000000E+00	4				
Ni3S4(s)	J 3/77NI 3.S	4.	0.	0.C	300.000	1100.000	304.34420	1	Chase (1985)
1.46738180E+01	1.72757180E-02	0.00000000E+00	0.00000000E+00	0.00000000E+00	2				
-4.13600010E+04	-6.63291620E+01	1.46711930E+01	1.72771640E-02	-2.75692840E-09	3				
1.02338580E-11	-6.29839560E-15	-4.13584790E+04	-6.63129390E+01	-3.62163568E+04	4				
P(cr)	TPIS89P 1.	0.	0.	0.C	195.400	317.300	30.97376	1	McBride (1993)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2				
0.00000000E+00	0.00000000E+00	8.02469681E-01	1.85779347E-02	-8.34080748E-05	3				
2.11104876E-07	-2.09658894E-10	-6.46362570E+02	-2.91281027E+00	0.00000000E+00	4				
P(L)	TPIS89P 1.	0.	0.	0.C	317.300	6000.000	30.97376	1	McBride (1993)
3.14149601E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2				
-8.62148564E+02	-1.27227472E+01	3.14149601E+00	0.00000000E+00	0.00000000E+00	3				
0.00000000E+00	0.00000000E+00	-8.62148564E+02	-1.27227472E+01	0.00000000E+00	4				
P4010(s)	J12/65P 4.0	10.	0.	0.C	300.000	1500.000	283.88905	1	Chase (1985)
-4.33006250E+01	2.15673760E-01	-1.76863440E-04	6.76428520E-08	-9.91087100E-12	2				
-3.53461393E+05	2.26054720E+02	3.95560990E-01	1.13338170E-01	-1.24099820E-04	3				
9.77156010E-08	-3.41078390E-11	-3.66256443E+05	-3.80906970E+00	-3.62020394E+05	4				
Pb(cr)	TPIS91PB 1.	0.	0.	0.C	200.000	600.650	207.20000	1	McBride (1993)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2				
0.00000000E+00	0.00000000E+00	3.36014248E+00	-4.31525514E-03	2.10404411E-05	3				
-3.35897357E-08	1.91850988E-11	-9.38593007E+02	-1.07408687E+01	0.00000000E+00	4				
Pb(L)	TPIS91PB 1.	0.	0.	0.C	600.650	3600.000	207.20000	1	McBride (1993)
4.18191355E+00	-9.84150979E-04	3.55339809E-07	-1.75808349E-11	-3.23884419E-15	2				
-7.56065769E+02	-1.51099545E+01	3.40679935E+00	2.03221927E-03	-4.17417470E-06	3				
3.08397022E-09	-8.16531438E-13	-5.92027769E+02	-1.13377955E+01	0.00000000E+00	4				
PbBr2(s)	J12/73PB 1.BR	2.	0.	0.C	300.000	644.000	367.00800	1	Chase (1985)
1.05575540E+01	-7.06173930E-03	1.01876020E-05	1.30528760E-08	-1.63730940E-11	2				
-3.63048010E+04	-3.91990320E+01	1.05575540E+01	-7.06173930E-03	1.01876020E-05	3				
1.30528760E-08	-1.63730940E-11	-3.63048010E+04	-3.91990320E+01	-3.33628636E+04	4				
PbBr2(L)	J12/73PB 1.BR	2.	0.	0.C	644.000	5000.000	367.00800	1	Chase (1985)
1.34865490E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2				
-3.65722010E+04	-5.70490870E+01	1.34865490E+01	0.00000000E+00	0.00000000E+00	3				
0.00000000E+00	0.00000000E+00	-3.65722010E+04	-5.70490870E+01	0.00000000E+00	4				
PbCl2(s)	J 6/73P 1.CL	2.	0.	0.C	300.000	774.000	278.10540	1	Chase (1985)
8.28026900E+00	3.04143430E-03	1.56025800E-06	-2.22846100E-09	1.11154400E-12	2				
-4.58412180E+04	-3.17812420E+01	8.28026900E+00	3.04143430E-03	1.56025800E-06	3				
-2.22846100E-09	1.11154400E-12	-4.58412180E+04	-3.17812420E+01	-4.32273685E+04	4				

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

PbCL2(L)	J 6/73PB 1.CL 2.	0.	0.C	774.000	5000.000	278.10540	1	Chase (1985)
1.34110650E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-4.61670770E+04	-5.99326540E+01	1.34110650E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-4.61670770E+04	-5.99326540E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
PbF2(a)	J12/73PB 1.F 2.	0.	0.C	298.150	583.000	245.19681	1	Chase (1985)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
0.00000000E+00	0.00000000E+00	2.46966471E+01	-1.59658886E-01	5.67676318E-04			3	
-8.51030524E-07	4.66841985E-10	-8.52413317E+04	-9.81573714E+01	0.00000000E+00			4	
PbF2(b)	J12/73PB 1.F 2.	0.	0.C	583.000	1103.000	245.19681	1	Chase (1985)
9.93284674E+02	-1.87255943E+00	8.90699273E-04	0.00000000E+00	0.00000000E+00			2	
-4.26962008E+05	-5.40678697E+03	-9.63524957E+02	4.50587453E+00	-7.58224107E-03			3	
5.52315624E-06	-1.47183923E-09	7.85231255E+04	4.49531736E+03	0.00000000E+00			4	
PbF2(L)	J12/73PB 1.F 2.	0.	0.C	1103.000	6000.000	245.19681	1	Chase (1985)
1.31340648E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-8.47552152E+04	-6.20713278E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
PbI2(s)	J12/73PB 1.I 2.	0.	0.C	300.000	683.000	461.00894	1	Chase (1985)
8.44244310E+00	5.91957720E-03	-1.38886860E-05	1.32213930E-08	1.61640680E-12			2	
-2.37790490E+04	-2.83379000E+01	8.44244310E+00	5.91957720E-03	-1.38886860E-05			3	
1.32213930E-08	1.61640680E-12	-2.37790490E+04	-2.83379000E+01	-2.10946481E+04			4	
PbI2(L)	J12/73PB 1.I 2.	0.	0.C	683.000	5000.000	461.00894	1	Chase (1985)
1.30588050E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-2.34409320E+04	-5.20448070E+01	1.30588050E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-2.34409320E+04	-5.20448070E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
PbO(rd)	J12/71PB 1.0 1.	0.	0.C	300.000	762.000	223.19940	1	Chase (1985)
2.86460100E+00	1.07723720E-02	-3.66130960E-06	-1.22810870E-08	1.00664350E-11			2	
-2.76701740E+04	-1.13045130E+01	2.86460100E+00	1.07723720E-02	-3.66130960E-06			3	
1.22810870E-08	1.00664350E-11	-2.76701740E+04	-1.13045130E+01	-2.63891608E+04			4	
PbO(yw)	J12/71PB 1.0 1.	0.	0.C	762.000	1159.000	223.19940	1	Chase (1985)
5.11246260E+00	2.03944890E-03	-2.04282280E-07	0.00000000E+00	0.00000000E+00			2	
-2.78546610E+04	-2.15059440E+01	4.20732530E+00	5.21764810E-03	-3.86135870E-06			3	
1.38401460E-09	0.00000000E+00	-2.78546610E+04	-2.15059440E+01	1.70644760E+01	0.00000000E+00	0.00000000E+00	4	
PbO(L)	J12/71PB 1.0 1.	0.	0.C	1159.000	5000.000	223.19940	1	Chase (1985)
7.81766980E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-2.66565330E+04	-3.57169340E+01	7.81766980E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-2.66565330E+04	-3.57169340E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
PbO2(s)	J12/71PB 1.0 2.	0.	0.C	300.000	1200.000	239.19880	1	Chase (1985)
6.86954900E+00	4.68879400E-03	-2.02063490E-06	0.00000000E+00	0.00000000E+00			2	
-3.53187500E+04	-3.20013720E+01	2.34297850E+00	2.66129100E-02	4.12126330E-05			3	
0.7232400E-08	8.92878750E-12	-3.45852910E+04	-1.10699310E+01	-3.30114828E+04			4	
PbS(s)	J 6/73PB 1.S 1.	0.	0.C	300.000	1386.500	239.26600	1	Chase (1985)
4.86954080E+00	2.55098480E-03	-3.80428790E-07	-5.48146380E-10	2.65738190E-13			2	
-1.32984520E+04	-1.72996060E+01	5.51609700E+00	1.71966880E-03	-1.26586040E-06			3	
1.25056850E-09	4.62785080E-13	-1.35381800E+04	-2.09092670E+01	-1.18260529E+04			4	
PbS(L)	J 6/73PB 1.S 1.	0.	0.C	1386.500	5000.000	239.26600	1	Chase (1985)
8.05167150E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.35660600E+04	-3.57577960E+01	8.05167150E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.35660600E+04	-3.57577960E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
Pb3O4(s)	J12/71PB 3.0 4.	0.	0.C	300.000	5000.000	685.59760	1	Chase (1985)
1.99272030E+01	5.03362330E-03	-8.34392170E-10	2.07608990E-13	-1.77708800E-17			2	
-9.28767870E+04	-9.02884070E+01	2.47093570E+00	8.98670090E-02	-1.52313110E-04			3	
1.19885000E-07	-3.49496520E-11	-9.00477260E+04	-9.60622350E+00	-8.64419716E+04			4	
S(cr1)	TPIS89S 1.	0.	0.C	200.000	368.300	32.06600	1	McBride (1993)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
0.00000000E+00	0.00000000E+00	3.71369512E-01	1.53373501E-02	-3.35441107E-05			3	
2.89249500E-08	0.00000000E+00	-5.53213850E+02	-1.59624498E+00	0.00000000E+00			4	
S(cr2)	TPIS89S 1.	0.	0.C	368.300	388.360	32.06600	1	McBride (1993)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
0.00000000E+00	0.00000000E+00	2.08033146E+00	2.44137554E-03	0.00000000E+00			3	
0.00000000E+00	0.00000000E+00	-6.85306695E+02	-8.60715487E+00	0.00000000E+00			4	
S(L)	TPIS89S 1.	0.	0.C	388.360	6000.000	32.06600	1	McBride (1993)
3.50078410E+00	3.81662100E-04	-1.55569962E-07	2.72783689E-11	-1.72812554E-15			2	
-5.90873035E+02	-1.52167270E+01	-7.27405684E+01	4.81222534E-01	-1.07842233E-03			3	
1.03257728E-06	-3.58884490E-10	8.29134856E+03	3.15269743E+02	0.00000000E+00			4	
SCL2(L)	J 6/78S 1.CL 2.	0.	0.C	300.000	5000.000	102.97140	1	Chase (1985)
1.09452410E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-9.25175430E+03	-4.02697950E+01	1.09452410E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-9.25175430E+03	-4.02697950E+01	-5.98843070E+03			4	
S2CL2(L)	J 6/78S 2.CL 2.	0.	0.C	300.000	5000.000	135.03740	1	Chase (1985)
1.49489350E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.14519150E+04	-5.92502250E+01	1.49489350E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.14519150E+04	-5.92502250E+01	-6.99489003E+03			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

Si(cr)	TPIS91SI 1.	0.	0.	0.C	200.000	1690.000	28.08550	1	McBride (1993)
	1.75547382E+00	3.17285497E-03	-2.78236402E-06	1.26458065E-09	-2.17128464E-13			2	
	-6.28657363E+02	-8.55341177E+00	-1.29176912E-01	1.47203139E-02	-2.76510160E-05			3	
	2.41878251E-08	-7.93452912E-12	-4.15516417E+02	-3.59570008E-01	0.00000000E+00			4	
Si(L)	TPIS91SI 1.	0.	0.	0.C	1690.000	6000.000	28.08550	1	McBride (1993)
	3.27138941E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	4.88286795E+03	-1.32665477E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			4	
SiC(b)	J 3/67SI 1.C	1.	0.	0.C	300.000	4000.000	60.09650	1	Chase (1985)
	3.79748090E+00	3.18728860E-03	-1.45023340E-06	3.15497440E-10	-2.61589910E-14			2	
	-1.02919370E+04	-2.10677910E+01	-2.47159070E+00	3.06937830E-02	-4.92630850E-05			3	
	3.86263890E-08	-1.17616210E-11	-9.06912600E+03	8.80092140E+00	-8.80624423E+03			4	
SiO2(Lqz)	J 6/67SI 1.0	2.	0.	0.C	200.000	847.000	60.08430	1	Chase (1985)
	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	0.00000000E+00	0.00000000E+00	-7.58511380E-01	3.05773989E-02	-4.00861855E-05			3	
	2.16194849E-08	-6.17249042E-13	-1.10371483E+05	1.78384529E+00	6.91608300E+03			4	
SiO2(hqz)	J 6/67SI 1.0	2.	0.	0.C	847.000	1696.000	60.08430	1	Chase (1985)
	7.23537106E+00	7.61842227E-04	4.89502294E-07	-2.35754591E-10	4.20839131E-14			2	
	-1.11823834E+05	-3.69642796E+01	7.11787621E+00	1.13819527E-03	3.69734234E-08			3	
	0.00000000E+00	0.00000000E+00	-1.11794194E+05	-3.63708064E+01	6.91608300E+03			4	
SiO2(L)	J 6/67SI 1.0	2.	0.	0.C	1696.000	6000.000	60.08430	1	Chase (1985)
	1.03160657E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	-1.14600563E+05	-5.76266603E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	6.91608300E+03			4	
Si2N2O(s)	L 1/84SI 2.N	2.0	1.	0.C	298.150	2500.000	100.18380	1	Fegley (1981)
	1.18490230E+01	2.42446810E-03	3.65292350E-07	-4.25788290E-10	8.62759300E-14			2	
	-1.18214940E+05	-6.42500920E+01	-4.12268540E+00	5.41728140E-02	-4.23929300E-05			3	
	-1.07245950E-08	1.73668580E-11	-1.14746000E+05	1.48221580E+01	-1.13982840E+05			4	
Si3N4(a)	J 3/67SI 3.N	4.	0.	0.C	300.000	3000.000	140.28346	1	Chase (1985)
	2.79817450E+00	2.79750180E-02	-1.50205780E-05	3.58722880E-09	-3.17769690E-13			2	
	-9.10172410E+04	-8.92688190E+00	7.16356800E+00	1.90071110E-02	-1.14693330E-05			3	
	7.06569150E-09	-2.74586400E-12	-9.24666510E+04	-3.24424310E+01	-8.95746895E+04			4	
Sr(a)	SRD 93SR 1.	0.	0.	0.C	298.150	820.000	87.62000	1	Alcock (1993)
	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	McBride (1993)
	0.00000000E+00	0.00000000E+00	2.61121855E+00	3.06923896E-03	-4.43980854E-06			3	
	4.03524789E-09	-1.48087835E-12	-8.83002675E+02	-9.01331093E+00	0.00000000E+00			4	
Sr(b)	SRD 93SR 1.	0.	0.	0.C	300.000	1041.000	87.62000	1	Alcock (1993)
	3.19032631E+00	4.83732655E-04	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	McBride (1993)
	-8.56080629E+02	-1.15723466E+01	3.19032631E+00	4.83732655E-04	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	-8.56080629E+02	-1.15723466E+01	0.00000000E+00			4	
Sr(L)	SRD 93SR 1.	0.	0.	0.C	1000.000	6000.000	87.62000	1	Alcock (1993)
	4.45005178E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	McBride (1993)
	-9.43175540E+02	-1.88969962E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			4	
SrCL2(1)	J12/72SR 1.CL 2.	0.	0.	0.C	300.000	1000.000	158.52540	1	Chase (1985)
	6.93696350E+00	1.07876000E-02	-1.39079400E-05	5.89822760E-09	3.01333260E-12			2	
	-1.02127190E+05	-2.83708820E+01	6.93696350E+00	1.07876000E-02	-1.39079400E-05			3	
	5.89822760E-09	3.01333260E-12	-1.02127190E+05	-2.83708820E+01	-9.96892591E+04			4	
SrCL2(2)	J12/72SR 1.CL 2.	0.	0.	0.C	1000.000	1147.000	158.52540	1	Chase (1985)
	1.47949470E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	-1.06427500E+05	-7.53762280E+01	1.47949470E+01	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	-1.06427500E+05	-7.53762280E+01	0.00000000E+00			4	
SrCL2(L)	J12/72SR 1.CL 2.	0.	0.	0.C	1147.000	5000.000	158.52540	1	Chase (1985)
	1.25807370E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	-1.01936770E+05	-5.80763530E+01	1.25807370E+01	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	-1.01936770E+05	-5.80763530E+01	0.00000000E+00			4	
SrF2(s)	J12/72SR 1.F 2.	0.	0.	0.C	300.000	1750.000	125.61681	1	Chase (1985)
	8.87471680E+01	-1.63765080E-01	6.51968990E-05	4.35483950E-08	-2.36734740E-11			2	
	-1.74561220E+05	-4.69345230E+02	5.29162130E+00	1.55376550E-02	-1.92119080E-05			3	
	7.49652320E-09	9.40005730E-13	-1.48530500E+05	-2.40891530E+01	-1.46416681E+05			4	
SrF2(L)	J12/72SR 1.F 2.	0.	0.	0.C	1750.000	5000.000	125.61681	1	Chase (1985)
	1.19129510E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	-1.46428080E+05	-5.80228420E+01	1.19129510E+01	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	-1.46428080E+05	-5.80228420E+01	0.00000000E+00			4	
SrO(s)	J12/72SR 1.0	1.	0.	0.C	300.000	2938.000	103.61940	1	Chase (1985)
	5.64779350E+00	1.31539990E-03	-2.76404120E-07	6.73083310E-11	-6.56263530E-15			2	
	-7.30373440E+04	-2.60983600E+01	3.56313720E+00	9.27178460E-03	-1.16465790E-05			3	
	7.08518320E-09	-1.52599060E-12	-7.25914040E+04	-1.59287960E+01	-7.12065685E+04			4	
SrO(L)	J12/72SR 1.0	1.	0.	0.C	2938.000	5000.000	103.61940	1	Chase (1985)
	8.05167150E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00			2	
	-6.67347690E+04	-3.90929440E+01	8.05167150E+00	0.00000000E+00	0.00000000E+00			3	
	0.00000000E+00	0.00000000E+00	-6.67347690E+04	-3.90929440E+01	0.00000000E+00			4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

SrO2H2(s)	J12/75SR 1.0 2.H 2. 0.C	300.000	783.150	121.63468	1	Chase (1985)
4.17069560E+00	1.65037010E-02	-1.30297450E-06	1.39718190E-09	-5.39489420E-13	2	
-1.18500560E+05	-1.69628130E+01	4.17069560E+00	1.65037010E-02	-1.30297450E-06	3	
1.39718190E-09	-5.39489420E-13	-1.18500560E+05	-1.69628130E+01	-1.16532637E+05	4	
SrO2H2(L)	J12/75SR 1.0 2.H 2. 0.C	783.150	5000.000	121.63468	1	Chase (1985)
1.89717510E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.22611740E+05	-9.96605010E+01	1.89717510E+01	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.22611740E+05	-9.96605010E+01	0.00000000E+00	4	
SrS(s)	J 9/77SR 1.S 1. 0. 0.C	300.000	3000.000	119.68600	1	Chase (1985)
5.94054630E+00	1.04473280E-03	-3.07943920E-07	9.71985450E-11	-1.11296850E-14	2	
-5.82547290E+04	-2.60999610E+01	5.74442320E+00	-2.03636100E-03	1.19833400E-05	3	
-1.48896430E-08	5.96164430E-12	-5.80629980E+04	-2.43073180E+01	-5.63615462E+04	4	
Ta(cr)	J12/72TA 1. 0. 0. 0.C	3258.000	3258.000	180.94790	1	McBride (1993)
2.89594963E+00	5.33759133E-04	-3.59144721E-08	7.20761461E-11	3.13302008E-14	2	
-8.71255826E+02	-1.16440280E+01	2.32998499E+00	4.45028402E-03	-9.52242819E-06	3	
9.87829159E-09	-3.78308406E-12	-8.26091467E+02	-9.27093646E+00	0.00000000E+00	4	
Ta(L)	J12/72TA 1. 0. 0. 0.C	3258.000	6000.000	180.94790	1	McBride (1993)
5.03216666E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-7.44223758E+02	-2.59736577E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
TaC(s)	J12/73TA 1.C 1. 0. 0.C	300.000	4273.000	192.95890	1	Chase (1985)
5.00270560E+00	1.28490410E-03	-1.74959390E-07	3.52455810E-11	-2.64292600E-15	2	
-1.90205530E+04	-2.41296910E+01	1.02497170E+00	1.76286200E-02	-2.55158590E-05	3	
1.73133080E-08	-4.30578580E-12	-1.82265970E+04	-5.00931270E+00	-1.73307143E+04	4	
TaC(L)	J12/73TA 1.C 1. 0. 0.C	4273.000	5000.000	192.95890	1	Chase (1985)
8.05167150E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.01033380E+04	-4.20855450E+01	8.05167150E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.01033380E+04	-4.20855450E+01	0.00000000E+00	4	
Ta2O5(s)	J12/72TA 2.0 5. 0. 0.C	300.000	2058.000	441.89280	1	Chase (1985)
1.84736840E+01	3.49024330E-03	9.11565840E-07	-1.15082870E-09	2.47020600E-13	2	
-2.52459110E+05	-9.07334910E+01	1.01199420E+01	2.55375590E-02	-1.68473510E-05	3	
3.47340780E-11	3.12680110E-12	-2.50081740E+05	-4.73108770E+01	-2.46076715E+05	4	
Ta2O5(L)	J12/72TA 2.0 5. 0. 0.C	2058.000	5000.000	441.89280	1	Chase (1985)
2.91873090E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-2.53362450E+05	-1.58577740E+02	2.91873090E+01	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-2.53362450E+05	-1.58577740E+02	0.00000000E+00	4	
Ti(a)	CODA89TI 1. 0. 0. 0.C	200.000	1156.000	47.88000	1	McBride (1993)
2.97987171E+01	-5.67369024E-02	3.08487350E-05	0.00000000E+00	0.00000000E+00	2	
-9.27557025E+03	-1.56730793E+02	1.32829640E+00	1.04776117E-02	-2.19816539E-05	3	
2.17469998E-08	-7.66060428E-12	-7.06881044E+02	-6.19722912E+01	0.00000000E+00	4	
Ti(b)	CODA89TI 1. 0. 0. 0.C	1156.000	1944.000	47.88000	1	McBride (1993)
4.55050938E+00	-5.78446834E-03	6.58428776E-06	-2.60523484E-09	4.06930218E-13	2	
-1.86695724E+02	-1.97953040E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
Ti(L)	CODA89TI 1. 0. 0. 0.C	1944.000	6000.000	47.88000	1	McBride (1993)
5.62871414E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-2.37505598E+03	-3.07872691E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
TiC(s)	J 6/68TI 1.C 1. 0. 0.C	300.000	3290.000	59.89100	1	Chase (1985)
5.94139360E+00	-3.72799670E-04	7.12099530E-07	-1.35170900E-10	9.98036600E-15	2	
-2.41734450E+04	-3.15302220E+01	-1.36339420E+00	2.82522370E-02	-4.11752110E-05	3	
2.67888880E-08	-6.34698680E-12	-2.26783520E+04	3.86264830E+00	-2.21429614E+04	4	
TiC(L)	J 6/68TI 1.C 1. 0. 0.C	3290.000	5000.000	59.89100	1	Chase (1985)
7.54844110E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
-1.76602040E+04	-4.06296610E+01	7.54844210E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-1.76602040E+04	-4.06296610E+01	0.00000000E+00	4	
TiCl2(s)	J12/68TI 1.CL 2. 0. 0.C	300.000	2000.000	118.78540	1	Chase (1985)
7.96841470E+00	2.54479250E-03	-2.86481190E-07	1.31878060E-10	-2.22708260E-14	2	
-6.45084420E+04	-3.57130890E+01	5.75675180E+00	1.36310330E-02	-2.04162290E-05	3	
1.5909880E-08	-4.54511040E-12	-6.41699180E+04	-2.55854560E+01	-6.19987670E+04	4	
TiCl3(s)	J 6/68TI 1.CL 3. 0. 0.C	300.000	5000.000	154.23810	1	Chase (1985)
1.14626530E+01	1.40178060E-03	-3.06897240E-08	1.23390070E-13	-1.05612980E-17	2	
-9.03169630E+04	-4.89930780E+01	1.09379360E+01	2.66227360E-03	-1.47859230E-07	3	
-1.54067680E-09	9.22187740E-13	-9.01826680E+04	-4.62872870E+01	-8.68071084E+04	4	
TiCl4(L)	J12/67TI 1.CL 4. 0. 0.C	300.000	5000.000	189.69080	1	Chase (1985)
1.71426480E+01	1.09370870E-03	-1.06903110E-09	2.66167570E-13	-2.27944800E-17	2	
-1.0188020E+05	-6.76401420E+01	1.70660420E+01	1.57771680E-03	-1.08703760E-06	3	
1.03903080E-09	-3.60225300E-13	-1.01871340E+05	-6.73082280E+01	-9.67206958E+04	4	
TiN(s)	J 6/68TI 1.N 1. 0. 0.C	300.000	3220.000	61.88674	1	Chase (1985)
5.6010050E+00	3.56459390E-04	3.95218030E-07	-8.87180020E-11	7.78445130E-15	2	
-4.2443430E+04	-2.87732930E+01	-2.53201190E+00	4.11748560E-02	-7.70557760E-05	3	
6.5289860E-08	-2.06051870E-11	-4.11246660E+04	8.67507960E+00	-4.06109779E+04	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

TiN(L)	J 6/68TI 1.N 1.	0.	0.C	3220.000	5000.000	61.88674	1	Chase (1985)
	7.54844210E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
	-3.62617090E+04	-3.95839060E+01	7.54844210E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
	0.00000000E+00	0.00000000E+00	-3.62617090E+04	-3.95839060E+01	0.00000000E+00	0.00000000E+00	4	
TiO(a)	J12/73TI 1.0 1.	0.	0.C	300.000	1265.000	63.87940	1	Chase (1985)
	2.65167850E+00	7.99632030E-03	-4.95528280E-06	1.41288420E-09	0.00000000E+00	0.00000000E+00	2	
	-6.62883610E+04	-1.29187030E+01	8.98095640E-01	2.13543830E-02	-3.58428730E-05	0.00000000E+00	3	
	3.04081570E-08	-9.71216350E-12	-6.62243320E+04	-5.95670040E+00	-6.52685922E+04	0.00000000E+00	4	
TiO(b)	J12/73TI 1.0 1.	0.	0.C	1265.000	2023.000	63.87940	1	Chase (1985)
	1.79714190E+00	1.01288630E-02	-7.45855710E-06	3.08358150E-09	-4.75617470E-13	0.00000000E+00	2	
	-6.54827730E+04	-7.93491750E+00	1.79714190E+00	1.01288630E-02	-7.45855710E-06	0.00000000E+00	3	
	0.08358150E-09	-4.75617470E-13	-6.54827730E+04	-7.93491750E+00	0.00000000E+00	0.00000000E+00	4	
TiO(L)	J12/73TI 1.0 1.	0.	0.C	2023.000	5000.000	63.87940	1	Chase (1985)
	8.05167150E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
	-6.32721380E+04	-4.13121090E+01	8.05167150E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
	0.00000000E+00	0.00000000E+00	-6.32721380E+04	-4.13121090E+01	0.00000000E+00	0.00000000E+00	4	
TiO2(ru)	J12/73TI 1.0 2.	0.	0.C	300.000	2130.000	79.87880	1	Chase (1985)
	6.84891510E+00	4.24634610E-03	-3.00889840E-06	1.06025190E-09	-1.43795970E-13	0.00000000E+00	2	
	-1.15992460E+05	-3.45141060E+01	-1.61175170E-01	3.79666600E-02	-6.51547500E-05	0.00000000E+00	3	
	5.25521360E-08	-1.62000510E-11	-1.14788970E+05	-1.88740350E+00	-1.13628959E+05	0.00000000E+00	4	
TiO2(L)	J12/73TI 1.0 2.	0.	0.C	2130.000	5000.000	79.87880	1	Chase (1985)
	1.20775070E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
	-1.14942300E+05	-6.59107590E+01	1.20775070E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
	0.00000000E+00	0.00000000E+00	-1.14942300E+05	-6.59107590E+01	0.00000000E+00	0.00000000E+00	4	
Ti2O3(1)	J 6/73TI 2.0 3.	0.	0.C	300.000	470.000	143.75820	1	Chase (1985)
	1.46235420E+01	-3.71617170E-02	9.00264700E-05	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
	-1.86416930E+05	-6.69148990E+01	1.46235420E+01	-3.71617170E-02	9.00264700E-05	0.00000000E+00	3	
	0.00000000E+00	0.00000000E+00	-1.86416930E+05	-6.69148990E+01	-1.82913296E+05	0.00000000E+00	4	
Ti2O3(2)	J 6/73TI 2.0 3.	0.	0.C	470.000	2115.000	143.75820	1	Chase (1985)
	1.48742220E+01	4.54656950E-03	-2.36463630E-06	5.99603920E-10	-5.34142600E-14	0.00000000E+00	2	
	-1.87973420E+05	-7.78631650E+01	1.69774850E+00	5.71374340E-02	-8.33206810E-05	0.00000000E+00	3	
	5.72995280E-08	-1.52116850E-11	-1.85250360E+05	-1.40665590E+01	0.00000000E+00	0.00000000E+00	4	
Ti2O3(L)	J 6/73TI 2.0 3.	0.	0.C	2115.000	5000.000	143.75820	1	Chase (1985)
	1.88711050E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
	-1.78586980E+05	-9.65672570E+01	1.88711050E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
	0.00000000E+00	0.00000000E+00	-1.78586980E+05	-9.65672570E+01	0.00000000E+00	0.00000000E+00	4	
Ti3O5(a)	J12/73TI 3.0 5.	0.	0.C	300.000	450.000	223.63700	1	Chase (1985)
	-3.73374340E+00	1.06193190E-01	-1.04723810E-04	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
	-2.98456170E+05	9.82410160E+00	-3.73374340E+00	1.06193190E-01	-1.04723810E-04	0.00000000E+00	3	
	0.00000000E+00	0.00000000E+00	-2.98456170E+05	9.82410160E+00	-2.95774633E+05	0.00000000E+00	4	
Ti3O5(b)	J12/73TI 3.0 5.	0.	0.C	450.000	2050.000	223.63700	1	Chase (1985)
	1.84151590E+01	8.00131020E-03	-1.99070560E-06	8.78123970E-10	-1.42452750E-13	0.00000000E+00	2	
	-2.99986840E+05	-8.81354790E+01	1.86928170E+01	8.50510620E-03	-5.12462080E-06	0.00000000E+00	3	
	4.61198750E-09	-1.52385570E-12	-3.00128950E+05	-8.98895860E+01	0.00000000E+00	0.00000000E+00	4	
Ti3O5(L)	J12/73TI 3.0 5.	0.	0.C	2050.000	5000.000	223.63700	1	Chase (1985)
	3.22066860E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
	-2.93685410E+05	-1.69127030E+02	3.22066860E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
	0.00000000E+00	0.00000000E+00	-2.93685410E+05	-1.69127030E+02	0.00000000E+00	0.00000000E+00	4	
Ti4O7(s)	J12/73TI 4.0 7.	0.	0.C	300.000	1950.000	303.51580	1	Chase (1985)
	2.41129150E+01	2.29277140E-02	-1.71191630E-05	6.48492060E-09	-9.48838110E-13	0.00000000E+00	2	
	-4.18107160E+05	-1.21046500E+02	-8.63335600E-01	1.41604620E-01	-2.32423050E-04	0.00000000E+00	3	
	1.81940730E-07	-5.48014130E-11	-4.13794840E+05	-4.56375800E+00	-4.09478128E+05	0.00000000E+00	4	
Ti4O7(L)	J12/73TI 4.0 7.	0.	0.C	1950.000	5000.000	303.51580	1	Chase (1985)
	4.42841940E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
	-4.10896730E+05	-2.35160430E+02	4.42841940E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
	0.00000000E+00	0.00000000E+00	-4.10896730E+05	-2.35160430E+02	0.00000000E+00	0.00000000E+00	4	
V(cr)	J 6/73V 1.	0.	0.C	200.000	2190.000	50.94150	1	McBride (1993)
	4.48215589E+00	-4.25728053E-03	5.38325211E-06	-2.42044016E-09	4.23981192E-13	0.00000000E+00	2	
	-1.28420195E+03	-2.12401625E+01	8.64273023E-01	1.40301270E-02	-3.15228495E-05	0.00000000E+00	3	
	3.16728638E-08	-1.14327459E-11	-6.59969586E+02	-4.48332268E+00	0.00000000E+00	0.00000000E+00	4	
V(L)	J 6/73V 1.	0.	0.C	2190.000	6000.000	50.94150	1	McBride (1993)
	5.55703222E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
	-1.89958163E+03	-3.07034308E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
VCL2(s)	L 2/76V 1.CL 2.	0.	0.C	300.000	1300.000	121.84690	1	Wagman (1971)
	6.27112160E+00	7.48900460E-03	-5.25310000E-06	1.50673690E-09	0.00000000E+00	0.00000000E+00	2	Wicks (1963)
	-5.63580560E+04	-2.57265380E+01	6.73955990E+00	1.04872230E-02	-1.72267800E-05	0.00000000E+00	3	
	1.47688310E-08	-4.75507060E-12	-5.66988860E+04	-2.92057040E+01	-5.43486187E+04	0.00000000E+00	4	
VCL3(s)	L 2/76V 1.CL 3.	0.	0.C	300.000	1000.000	157.29960	1	Wagman (1971)
	6.97704130E+00	2.35420110E-02	-4.07452720E-05	3.49284830E-08	-1.12449000E-11	0.00000000E+00	2	Wicks (1963)
	-7.26781690E+04	-2.94937120E+01	6.97704130E+00	2.35420110E-02	-4.07452720E-05	0.00000000E+00	3	
	3.49284830E-08	-1.12449000E-11	-7.26781690E+04	-2.94937120E+01	-6.98478613E+04	0.00000000E+00	4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Continued)

VCL4(L)	L 2/76V	1.CL	4.	0.	0.C	300.000	2000.000	192.75230	1	Wagman (1971)
1.74620630E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	Wicks (1963)
-7.36958450E+04	-6.87947920E+01	1.74620630E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
0.00000000E+00	0.00000000E+00	-7.36958450E+04	-6.87947920E+01	-6.84895309E+04					4	
VN(s)	J12/73V	1.N	1.	0.	0.C	300.000	3500.000	64.94824	1	Chase (1985)
4.83687400E+00	1.89001470E-03	3.16104630E-07	4.60506600E-11	-1.91020370E-15					2	
-2.77381520E+04	-2.38733530E+01	8.12713570E-01	2.01010430E-02	-3.11780040E-05					3	
2.31036890E-08	-6.38451440E-12	-2.70200940E+04	-4.94574360E+00	-2.61171678E+04					4	
V0(s)	J12/73V	1.0	1.	0.	0.C	300.000	2063.000	66.94090	1	Chase (1985)
5.33987150E+00	1.75917030E-03	3.84776170E-07	-2.61824710E-10	5.10093950E-14					2	
-5.36513790E+04	-2.63823640E+01	2.53804010E+00	1.64470780E-02	-2.85598100E-05					3	
2.48363920E-08	-7.98869480E-12	-5.32119190E+04	-1.35997580E+01	-5.19311959E+04					4	
V0(L)	J12/73V	1.0	1.	0.	0.C	2063.000	5000.000	66.94090	1	Chase (1985)
7.54844210E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00					2	
-4.76004740E+04	-3.61542130E+01	7.54844210E+00	0.00000000E+00	0.00000000E+00					3	
0.00000000E+00	0.00000000E+00	-4.76004740E+04	-3.61542130E+01	0.00000000E+00					4	
V203(s)	J12/73V	2.0	3.	0.	0.C	300.000	2340.000	149.88120	1	Chase (1985)
1.39642110E+01	1.68712980E-03	1.13712060E-06	-2.08060070E-10	1.00283250E-14					2	
-1.51005750E+05	-6.87828940E+01	2.28770330E+00	5.76327630E-02	-9.67385560E-05					3	
7.40669160E-08	-2.06583890E-11	-1.49111890E+05	-1.47234460E+01	-1.46586278E+05					4	
V203(L)	J12/73V	2.0	3.	0.	0.C	2340.000	5000.000	149.88120	1	Chase (1985)
1.88711050E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00					2	
-1.40340630E+05	-9.45809200E+01	1.88711050E+01	0.00000000E+00	0.00000000E+00					3	
0.00000000E+00	0.00000000E+00	-1.40340630E+05	-9.45809200E+01	0.00000000E+00					4	
V204(1)	J 6/73V	2.0	4.	0.	0.C	300.000	340.000	165.88060	1	Chase (1985)
6.89145420E+00	9.91420220E-03	5.78371010E-05	4.30539190E-08	-2.84826940E-10					2	
-1.74608640E+05	-3.21573580E+01	6.89145420E+00	9.91420220E-03	5.78371010E-05					3	
4.30539190E-08	-2.84826940E-10	-1.74608640E+05	-3.21573580E+01	-1.71651493E+05					4	
V204(2)	J 6/73V	2.0	4.	0.	0.C	340.000	1818.000	165.88060	1	Chase (1985)
1.66102560E+01	2.33294190E-03	9.89047860E-07	-7.50324960E-10	1.61354610E-13					2	
-1.76073890E+05	-8.08319970E+01	4.90036240E+00	5.00269520E-02	-7.13163320E-05					3	
4.65155670E-08	-1.07832680E-11	-1.73736760E+05	-2.45033750E+01	0.00000000E+00					4	
V204(L)	J12/73V	2.0	4.	0.	0.C	1818.000	5000.000	165.88060	1	Chase (1985)
2.56647030E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00					2	
-1.74630090E+05	-1.36559400E+02	2.56647030E+01	0.00000000E+00	0.00000000E+00					3	
0.00000000E+00	0.00000000E+00	-1.74630090E+05	-1.36559400E+02	0.00000000E+00					4	
V205(s)	J 6/73V	2.0	5.	0.	0.C	300.000	943.000	181.88000	1	Chase (1985)
-1.16403600E+00	9.35358840E-02	-1.56750970E-04	1.22235240E-07	-3.57388450E-11					2	
-1.8914510E+05	4.07227530E-01	-1.16403600E+00	9.35358840E-02	-1.56750970E-04					3	
1.22235240E-07	-3.57388450E-11	-1.89145310E+05	4.07227530E-01	-1.86495188E+05					4	
V205(L)	J 6/73V	2.0	5.	0.	0.C	943.000	5000.000	181.88000	1	Chase (1985)
2.29472640E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00					2	
-1.87514470E+05	-1.10892770E+02	2.29472640E+01	0.00000000E+00	0.00000000E+00					3	
0.00000000E+00	0.00000000E+00	-1.87514470E+05	-1.10892770E+02	0.00000000E+00					4	
Zn(cr)	C0DA89ZN	1.	0.	0.	0.C	692.730	692.730	65.39000	1	McBride (1993)
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00					2	
0.00000000E+00	0.00000000E+00	1.85068929E+00	9.17791410E-03	-2.61047009E-05					3	
3.38568767E-08	-1.39430709E-11	-7.89403133E+02	-7.38526333E+00	0.00000000E+00					4	
Zn(L)	C0DA89ZN	1.	0.	0.	0.C	692.730	6000.000	65.39000	1	McBride (1993)
3.77653043E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00					2	
-4.31695298E+02	-1.56708437E+01	3.77653043E+00	0.00000000E+00	0.00000000E+00					3	
0.00000000E+00	0.00000000E+00	-4.31695298E+02	-1.56708437E+01	0.00000000E+00					4	
ZnSO4(a)	J 3/79ZN	1.S	1.0	4.	0.C	540.000	540.000	161.45360	1	Chase (1985)
5.16573640E+00	2.39773940E-02	-3.07007440E-06	-4.84501640E-09	0.00000000E+00					2	
-1.20453590E+05	-2.31053690E+01	5.16573640E+00	2.39773940E-02	-3.07007440E-06					3	
-4.84501640E-09	0.00000000E+00	-1.20453590E+05	-2.31053690E+01	-1.17884403E+05					4	
ZnSO4(a)	J 3/79ZN	1.S	1.0	4.	0.C	540.000	1013.000	161.45360	1	Chase (1985)
1.58952590E+01	1.18409420E-03	0.00000000E+00	0.00000000E+00	0.00000000E+00					2	
-1.22604330E+05	-7.79153220E+01	1.55534950E+01	2.77373190E-03	-3.80347210E-06					3	
4.08455430E-09	-1.52895620E-12	-1.22504900E+05	-7.62216840E+01	0.00000000E+00					4	
ZnSO4(b)	J 3/79ZN	1.S	1.0	4.	0.C	1013.000	5000.000	161.45360	1	Chase (1985)
1.74618250E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00					2	
-1.21138060E+05	-8.51432530E+01	1.74618250E+01	0.00000000E+00	0.00000000E+00					3	
0.00000000E+00	0.00000000E+00	-1.21138060E+05	-8.51432530E+01	0.00000000E+00					4	
Zr(a)	J 6/79ZR	1.	0.	0.	0.C	200.000	1135.000	91.22400	1	McBride (1993)
2.28119546E+00	1.46971684E-03	-1.04657616E-08	0.00000000E+00	0.00000000E+00					2	
-6.61803147E+02	-8.57377198E+00	2.18288840E+00	5.42886393E-03	-1.21463952E-05					3	
1.31132729E-08	-4.83818355E-12	-8.08441355E+02	-8.94741836E+00	0.00000000E+00					4	
Zr(b)	J 6/79ZR	1.	0.	0.	0.C	1135.000	2125.000	91.22400	1	McBride (1993)
4.06876245E+00	-1.58489721E-03	1.02995129E-06	-1.55767557E-10	2.30284611E-14					2	
-6.91172261E+02	-1.78593403E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00					3	
0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00					4	

TABLE II. - THERMODYNAMIC DATA COEFFICIENTS (Concluded)

Zr(L)	J 6/79ZR 1.	0.	0.	0.C	2125.000	6000.000	91.22400	1	McBride (1993)
		5.03216666E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
		-1.10084626E+03	-2.54797587E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
		0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	4	
ZrN(s)	J 6/61ZR 1.N	1.	0.	0.C	300.000	3225.000	105.23074	1	Chase (1985)
		5.54078200E+00	6.18393530E-04	2.95421100E-07	-1.17843110E-10	1.52414300E-14		2	
		-4.57513240E+04	-2.74206540E+01	2.85562900E+00	8.61669700E-03	-5.34866380E-06		3	
		-2.88042190E-09	3.10878490E-12	-4.51120200E+04	-1.39010690E+01	-4.39291087E+04		4	
ZrN(L)	J 6/61ZR 1.N	1.	0.	0.C	3225.000	5000.000	105.23074	1	Chase (1985)
		7.04511640E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
		-3.81055270E+04	-3.44362640E+01	7.04511640E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
		0.00000000E+00	0.00000000E+00	-3.81055270E+04	-3.44362640E+01	0.00000000E+00	0.00000000E+00	4	
ZrO2(a)	J12/65ZR 1.0	2.	0.	0.C	300.000	1478.000	123.22280	1	Chase (1985)
		-2.21443950E+01	9.96397630E-02	-1.20066880E-04	6.46867360E-08	-1.30048810E-11		2	
		-1.27327970E+05	1.11008910E+02	-7.95371060E-01	4.39334580E-02	-8.12144440E-05		3	
		6.95676480E-08	-2.23809470E-11	-1.33119670E+05	5.32210090E-01	-1.31994717E+05		4	
ZrO2(b)	J12/65ZR 1.0	2.	0.	0.C	1478.000	2950.000	123.22280	1	Chase (1985)
		8.95736290E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
		-1.34143540E+05	-4.52740170E+01	8.95736290E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
		0.00000000E+00	0.00000000E+00	-1.34143540E+05	-4.52740170E+01	0.00000000E+00	0.00000000E+00	4	
ZrO2(L)	J12/65ZR 1.0	2.	0.	0.C	2950.000	5000.000	123.22280	1	Chase (1985)
		1.05676750E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	0.00000000E+00	2	
		-1.28427450E+05	-5.45922640E+01	1.05676750E+01	0.00000000E+00	0.00000000E+00	0.00000000E+00	3	
		0.00000000E+00	0.00000000E+00	-1.28427450E+05	-5.45922640E+01	0.00000000E+00	0.00000000E+00	4	

TABLE III. – FORMAT FOR TRANSPORT PROPERTY DATA IN TABLE IV

Record	Contents	Format	Columns
^a 1	Species name	A15	1–15
	Second species name if binary interaction (blank for pure species)	A15	17–31
	V if there are viscosity coefficients	A1	35
	Temperature intervals for viscosity (0, 1, 2, or 3)	I1	36
	C if there are thermal conductivity coefficients	A1	37
	Temperature intervals for thermal conductivity (0, 1, 2, or 3)	I1	38
^b Any number from 1 to 6	Comments (references, date, etc.)	A40	41–80
	V if coefficients are for viscosity	A1	2
	C if coefficients are for thermal conductivity	A1	2
	First and last temperature of temperature interval	2F9.2	3–20
	Four coefficients in equations below ^c	4E15.8	21–80

^aHeader record for each pure species or binary interaction.

^bThe number of records for each pure species or binary interaction equals the sum of the number of temperature intervals for both viscosity and thermal conductivity (sum of the numbers in columns 36 and 38 of the header record). Temperature intervals must be in increasing order. Viscosity or thermal conductivity order is immaterial. Any number of species is permitted between the first record (TRAN) and the last record (LAST).

^cEmpirical equations

$$\left. \begin{array}{l} \text{Viscosity:} \quad \ln \eta \\ \text{Thermal conductivity:} \quad \ln \lambda \\ \text{Interaction parameter:} \quad \ln \eta_{ij} \end{array} \right\} = A \ln T + \frac{B}{T} + \frac{C}{T^2} + D$$

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS

AL	V2C2 GORDON; NASA TM 86885, OCT 1984								
V	300.000	1000.000	0.10752557E	01	0.19889058E	03-0.12117144E	05-0.21520631E	01	
V	1000.000	5000.000	0.71350608E	00-0.11856849E	04	0.54275069E	06	0.11828645E	01
C	300.000	1000.000	0.10752525E	01	0.19888814E	03-0.12116940E	05-0.20074452E	01	
C	1000.000	5000.000	0.71350537E	00-0.11856885E	04	0.54275195E	06	0.13274647E	01
ALCL	V2C2 GORDON; NASA TM86885, OCT 1984								
V	300.000	1000.000	0.10793661E	01	0.29479492E	02	0.34836606E	04-0.16604981E	01
V	1000.000	5000.000	0.56571504E	00-0.61915065E	03	0.84747061E	05	0.24526497E	01
C	300.000	1000.000	0.98944147E	00-0.77767293E	02	0.95232979E	04-0.10951633E	01	
C	1000.000	5000.000	0.92919002E	00	0.55439951E	03-0.38427598E	06-0.92595436E	00	
ALCL3	V2C2 GORDON; NASA TM86885, OCT 1984								
V	300.000	1000.000	0.61229102E	00-0.28594038E	03	0.23454551E	05	0.18075879E	01
V	1000.000	5000.000	0.60709246E	00-0.18319762E	03-0.26432110E	05	0.17893156E	01	
C	300.000	1000.000	0.53927315E	00-0.37682451E	03	0.24912742E	05	0.22191800E	01
C	1000.000	5000.000	0.62289726E	00-0.17219458E	03-0.37837236E	05	0.14991020E	01	
ALF	V2C2 GORDON; NASA TM86885, OCT 1984								
V	300.000	1000.000	0.70972961E	00-0.23988833E	03	0.21750838E	05	0.14759560E	01
V	1000.000	5000.000	0.59844567E	00-0.25576271E	03-0.15698332E	05	0.22953071E	01	
C	300.000	1000.000	0.63982862E	00-0.36200317E	03	0.28935026E	05	0.22035161E	01
C	1000.000	5000.000	0.82926601E	00	0.45857946E	03-0.31619957E	06	0.41287174E	00
ALF3	V2C2 GORDON; NASA TM86885, OCT 1984								
V	300.000	1000.000	0.11831354E	01	0.21280115E	03-0.12068067E	05-0.30756164E	01	
V	1000.000	5000.000	0.54224957E	00-0.14154382E	04	0.50196098E	06	0.24678661E	01
C	300.000	1000.000	0.10540002E	01-0.44281890E	02	0.42266524E	04-0.16746411E	01	
C	1000.000	5000.000	0.58015647E	00-0.12078108E	04	0.36246719E	06	0.24043768E	01
ALN	V2C2 GORDON; NASA TM86885, OCT 1984								
V	300.000	1000.000	0.10849637E	01	0.20278915E	03-0.12402095E	05-0.24794937E	01	
V	1000.000	5000.000	0.69622507E	00-0.12321802E	04	0.55392960E	06	0.10806617E	01
C	300.000	1000.000	0.10626080E	01	0.97231206E	02-0.53995714E	04-0.19781162E	01	
C	1000.000	5000.000	0.89077352E	00-0.61169788E	03	0.27138370E	06-0.35678171E	00	
ALO	V2C2 GORDON; NASA TM86885, OCT 1984								
V	300.000	1000.000	0.69358489E	00-0.24813626E	03	0.22090563E	05	0.15357661E	01
V	1000.000	5000.000	0.59975079E	00-0.24369049E	03-0.17675810E	05	0.22167865E	01	
C	300.000	1000.000	0.75594793E	00-0.29882464E	03	0.25091437E	05	0.13546324E	01
C	1000.000	5000.000	-0.47126491E	-01-0.28647802E	04	0.89987333E	06	0.85957812E	01
ALS	V2C2 GORDON; NASA TM86885, OCT 1984								
V	300.000	1000.000	0.12012329E	01	0.19184294E	03-0.98258862E	04-0.30235495E	01	
V	1000.000	5000.000	0.52866648E	00-0.12292746E	04	0.37191904E	06	0.26616528E	01
C	300.000	1000.000	0.11325357E	01	0.70872529E	02-0.22176598E	04-0.25403064E	01	
C	1000.000	5000.000	0.61366770E	00-0.10019288E	04	0.27882881E	06	0.18352128E	01
AL2	V2C2 GORDON; NASA TM86885, OCT 1984								
V	300.000	1000.000	0.10752585E	01	0.19889302E	03-0.12117352E	05-0.20094402E	01	
V	1000.000	5000.000	0.71350386E	00-0.11856946E	04	0.54275505E	06	0.13255298E	01
C	300.000	1000.000	0.70514534E	00-0.10865958E	03	0.51395343E	04	0.91199110E	00
C	1000.000	5000.000	0.10656803E	01-0.22547576E	03	0.25027281E	06-0.16990424E	01	
Ar	V2C2 GORDON; NASA TM86885, OCT 1984								
V	300.000	1000.000	0.57067551E	00-0.95117331E	02	0.20896403E	04	0.24718808E	01
V	1000.000	5000.000	0.65601183E	00	0.51780497E	02-0.33046713E	05	0.17711406E	01
C	300.000	1000.000	0.56758528E	00-0.10015251E	03	0.25736598E	04	0.22537407E	01
C	1000.000	5000.000	0.64275516E	00	0.14112909E	02-0.20639082E	05	0.16440096E	01
B	V2C2 GORDON; NASA TM86885, OCT 1984								
V	300.000	1000.000	0.10153085E	01	0.18260457E	03-0.11403408E	05-0.19379621E	01	
V	1000.000	5000.000	0.86554514E	00-0.70329297E	03	0.39418000E	06-0.41699586E	00	
C	300.000	1000.000	0.10153123E	01	0.18260767E	03-0.11403675E	05-0.87871718E	00	
C	1000.000	5000.000	0.86554464E	00-0.70329657E	03	0.39418227E	06	0.64228265E	00

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS (Continued)

BCL				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.11283769E	01	0.76450365E	02-0.17748945E	03-0.20908397E 01
V	1000.000	5000.000	0.55841030E	00-0.71462960E	03	0.11967028E	06 0.25150686E 01
C	300.000	1000.000	0.10113718E	01-0.10847549E	03	0.13713948E	05-0.98482715E 00
C	1000.000	5000.000	0.62710414E	00-0.57941570E	03	0.62190303E	05 0.20887250E 01
BCL2				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.87089983E	00-0.13565485E	03	0.15230166E	05-0.11573987E 00
V	1000.000	5000.000	0.58601275E	00-0.37609219E	03	0.11838942E	05 0.20922105E 01
C	300.000	1000.000	0.67455285E	00-0.36896292E	03	0.29473134E	05 0.14166908E 01
C	1000.000	5000.000	0.76222128E	00 0.47341934E	02-0.13582232E	06	0.55755257E 00
BCL3				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.53015087E	00-0.26981248E	03	0.17868859E	05 0.23991533E 01
V	1000.000	5000.000	0.63300765E	00-0.35473626E	02-0.54027717E	05	0.15256305E 01
C	300.000	1000.000	0.40446349E	00-0.49037555E	03	0.31588434E	05 0.33981223E 01
C	1000.000	5000.000	0.62298372E	00-0.12917747E	03-0.47559225E	05	0.16059997E 01
BF				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.77979668E	00-0.19815853E	03	0.19395356E	05 0.87157543E 00
V	1000.000	5000.000	0.59314912E	00-0.30647190E	03-0.57059710E	04	0.22908893E 01
C	300.000	1000.000	0.86312103E	00-0.26058933E	03	0.27303459E	05 0.87690595E 00
C	1000.000	5000.000	0.64385946E	00-0.24050628E	03-0.71374225E	05	0.24629533E 01
BF2				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.55593630E	00-0.29101131E	03	0.21583886E	05 0.24931700E 01
V	1000.000	5000.000	0.61886303E	00-0.10901231E	03-0.39210436E	05	0.19364888E 01
C	300.000	1000.000	0.48805271E	00-0.51770789E	03	0.38891125E	05 0.36081784E 01
C	1000.000	5000.000	0.75004594E	00 0.26148665E	03-0.23265358E	06	0.12857610E 01
BF3				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.56564222E	00-0.12499270E	03	0.34882520E	04 0.22864247E 01
V	1000.000	5000.000	0.65392366E	00 0.43786564E	02-0.38984840E	05	0.15506732E 01
C	300.000	1000.000	0.87131899E	00 0.17223247E	03-0.30597035E	05	0.45588089E-01
C	1000.000	5000.000	0.87131899E	00 0.17223247E	03-0.30597035E	05	0.45588089E-01
BO				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.75873244E	00-0.21164516E	03	0.20242897E	05 0.94865379E 00
V	1000.000	5000.000	0.59469665E	00-0.29150656E	03-0.89452363E	04	0.21875876E 01
C	300.000	1000.000	0.10254991E	01-0.11637386E	03	0.16280741E	05-0.39149427E 00
C	1000.000	5000.000	0.72161172E	00 0.37402510E	02-0.20826150E	06	0.17684961E 01
B2				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.10153036E	01 0.18259970E	03-0.11402951E	05-0.17237353E	01
V	1000.000	5000.000	0.86554075E	00-0.70331451E	03	0.39419142E	06-0.20276677E 00
C	300.000	1000.000	0.64386787E	00-0.27034707E	03	0.24539000E	05 0.22169204E 01
C	1000.000	5000.000	0.10444757E	01-0.63405901E	02	0.14581458E	06-0.87637083E 00
B203				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.11524128E	01 0.21138490E	03-0.12280476E	05-0.29978787E	01
V	1000.000	5000.000	0.57258110E	00-0.14520945E	04	0.55888628E	06 0.21035665E 01
C	300.000	1000.000	0.12164024E	01 0.11057804E	02	0.26511337E	04-0.26257982E 01
C	1000.000	5000.000	0.57952095E	00-0.13857006E	04	0.40348741E	06 0.27690891E 01
Be				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.99075722E	00 0.17478908E	03-0.10979581E	05-0.21702237E	01
V	1000.000	5000.000	0.92818726E	00-0.47846807E	03	0.31682660E	06-0.14069833E 01
C	300.000	1000.000	0.99075881E	00 0.17479061E	03-0.10979729E	05-0.92906799E	00
C	1000.000	5000.000	0.92818917E	00-0.47845983E	03	0.31682272E	06-0.16583283E 00
BeBr2				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.10815738E	01 0.31488250E	02	0.33342410E	04-0.15195904E 01
V	1000.000	5000.000	0.56544582E	00-0.62294767E	03	0.86024179E	05 0.26150470E 01
C	300.000	1000.000	0.94702722E	00-0.15100815E	03	0.15732058E	05-0.11155243E 01
C	1000.000	5000.000	0.57495517E	00-0.61043946E	03	0.69935770E	05 0.18565556E 01

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS (Continued)

BeCL				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.11433037E	01	0.92214926E	02-0.13964883E	04-0.23862858E 01
V	1000.000	5000.000	0.55460242E	00-0.76038750E	03	0.13823757E	06 0.23908447E 01
C	300.000	1000.000	0.10287535E	01-0.91837616E	02	0.12470591E	05-0.12586174E 01
C	1000.000	5000.000	0.66547171E	00-0.46614122E	03	0.13999294E	05 0.16193002E 01
BeCL2				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.10815721E	01	0.31486702E	02	0.33343869E 04-0.18620786E 01
V	1000.000	5000.000	0.56544694E	00-0.62294279E	03	0.86021580E	05 0.22725350E 01
C	300.000	1000.000	0.93114692E	00-0.18207640E	03	0.18669890E	05-0.57868449E 00
C	1000.000	5000.000	0.57052913E	00-0.63004493E	03	0.72778110E	05 0.23029490E 01
BeF				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.81333746E	00-0.17569939E	03	0.17918421E	05 0.41468512E 00
V	1000.000	5000.000	0.59065127E	00-0.33067146E	03-0.10867531E	02	0.21222036E 01
C	300.000	1000.000	0.83317386E	00-0.28303483E	03	0.28482478E	05 0.97318830E 00
C	1000.000	5000.000	0.66542344E	00-0.17486307E	03-0.94979537E	05	0.21402360E 01
BeF2				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.11930485E	01	0.15435989E	03-0.64969004E	04-0.27919358E 01
V	1000.000	5000.000	0.53625212E	00-0.99126199E	03	0.24371524E	06 0.26390016E 01
C	300.000	1000.000	0.10992600E	01-0.78243423E	02	0.11248031E	05-0.13752526E 01
C	1000.000	5000.000	0.54043845E	00-0.99264666E	03	0.20319019E	06 0.32042915E 01
BeI2				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.11253994E	01	0.73434325E	02	0.56310693E 02-0.19974264E 01
V	1000.000	5000.000	0.55902352E	00-0.70706379E	03	0.11670325E	06 0.25762970E 01
C	300.000	1000.000	0.99072683E	00-0.98254204E	02	0.11664040E	05-0.20375965E 01
C	1000.000	5000.000	0.56811948E	00-0.69344488E	03	0.10786410E	06 0.13777955E 01
Br				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.54702688E	00-0.17637941E	03	0.77307478E	04 0.27597117E 01
V	1000.000	5000.000	0.65298898E	00	0.49470753E	02-0.58185528E	05 0.18678659E 01
C	300.000	1000.000	0.54702794E	00-0.17637848E	03	0.77306607E	04 0.18186229E 01
C	1000.000	5000.000	0.65298973E	00	0.49472426E	02-0.58185715E	05 0.92677855E 00
Br2				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.62157718E	00-0.28211824E	03	0.23352028E	05 0.21557562E 01
V	1000.000	5000.000	0.60608156E	00-0.19067023E	03-0.25347251E	05	0.22185948E 01
C	300.000	1000.000	0.60932991E	00-0.30191532E	03	0.23211009E	05 0.11628217E 01
C	1000.000	5000.000	0.68777571E	00-0.32848855E	02-0.74477067E	05	0.44844691E 00
C				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.75778612E	00	0.10029848E	02-0.34350072E	03 0.48138451E 00
V	1000.000	5000.000	0.78673253E	00	0.11075074E	03-0.42007548E	05 0.22250861E 00
C	300.000	1000.000	0.75958919E	00	0.11690326E	02-0.52227847E	03 0.14214785E 01
C	1000.000	5000.000	0.78674028E	00	0.11079284E	03-0.42032506E	05 0.11763579E 01
CCL				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.57655234E	00-0.96628216E	02	0.17409200E	04 0.20958373E 01
V	1000.000	5000.000	0.65188500E	00	0.28700760E	02-0.23880346E	05 0.14760977E 01
C	300.000	1000.000	0.54729233E	00-0.20448099E	03	0.10622264E	05 0.24972163E 01
C	1000.000	5000.000	0.83466538E	00	0.55431206E	03-0.24998561E	06 0.10838079E-01
CCL2				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.55724714E	00-0.14977389E	03	0.53618988E	04 0.22148823E 01
V	1000.000	5000.000	0.65428700E	00	0.50778805E	02-0.50483365E	05 0.14000778E 01
C	300.000	1000.000	0.65384740E	00-0.19801619E	03	0.59831307E	04 0.15755369E 01
C	1000.000	5000.000	0.42859933E	00-0.33369305E	03-0.15971455E	06	0.34294957E 01
CCL2F2				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.53953452E	00-0.19563618E	03	0.95641709E	04 0.23064644E 01
V	1000.000	5000.000	0.65111259E	00	0.43620390E	02-0.61378726E	05 0.13673282E 01
C	300.000	1000.000	0.39138383E	00-0.47842100E	03	0.24982204E	05 0.37291240E 01
C	1000.000	5000.000	0.63765919E	00-0.52612804E	02-0.77721526E	05	0.17034524E 01
C	300.000	1000.000	0.38511892E	00-0.44496089E	03	0.26000413E	05 0.34754153E 01

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS (Continued)

CCL3				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.53353195E	00-0.21260474E	03 0.11243839E	05 0.23131174E	01
V	1000.000	5000.000	0.64876429E	00 0.34886169E	02-0.62725110E	05 0.13434325E	01
C	1000.000	5000.000	0.63447302E	00-0.64381891E	02-0.54003615E	05 0.14524436E	01
CCL3F				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.52919683E	00-0.26784349E	03 0.17589765E	05 0.23679496E	01
V	1000.000	5000.000	0.63392510E	00-0.31038323E	02-0.54872898E	05 0.14796189E	01
C	300.000	1000.000	0.40674422E	00-0.48444324E	03 0.27214677E	05 0.34373121E	01
C	1000.000	5000.000	0.62699522E	00-0.11469915E	03-0.56090320E	05 0.16285785E	01
CCL4				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.52702958E	00-0.26107773E	03 0.16677986E	05 0.22643095E	01
V	1000.000	5000.000	0.63673227E	00-0.17696067E	02-0.57319847E	05 0.13366395E	01
C	300.000	1000.000	0.37319835E	00-0.48094791E	03 0.28654318E	05 0.34495056E	01
C	1000.000	5000.000	0.62613733E	00-0.11484151E	03-0.40941433E	05 0.14063361E	01
CF				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.60838138E	00-0.35675635E	02-0.11133136E	04 0.19108330E	01
V	1000.000	5000.000	0.64822928E	00 0.50801210E	01-0.39194754E	04 0.15979323E	01
C	300.000	1000.000	0.69032820E	00-0.10472560E	03 0.77951218E	04 0.19069266E	01
C	1000.000	5000.000	0.74287117E	00 0.22828479E	03-0.13320698E	06 0.13472818E	01
CF2				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.60112940E	00-0.47520431E	02-0.77996950E	03 0.20107893E	01
V	1000.000	5000.000	0.64856892E	00 0.75188715E	01-0.61062289E	04 0.16335919E	01
C	300.000	1000.000	0.51387097E	00-0.32792087E	03 0.21855506E	05 0.32864938E	01
C	1000.000	5000.000	0.10264808E	01 0.11962118E	04-0.52804095E	06-0.12363563E	01
CF3				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.59522997E	00-0.58952176E	02-0.35007012E	03 0.20404508E	01
V	1000.000	5000.000	0.64915060E	00 0.11271276E	02-0.92389547E	04 0.16068193E	01
C	300.000	1000.000	0.44393088E	00-0.43173764E	03 0.26544418E	05 0.38522839E	01
C	1000.000	5000.000	0.63989098E	00-0.54064277E	02-0.66106112E	05 0.22110418E	01
CF4				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.58875126E	00-0.71741283E	02 0.29157581E	03 0.20502421E	01
V	1000.000	5000.000	0.64998118E	00 0.16492141E	02-0.13517918E	05 0.15530599E	01
C	300.000	1000.000	0.39324764E	00-0.49266851E	03 0.27846245E	05 0.42192831E	01
C	1000.000	5000.000	0.63984578E	00-0.53205056E	02-0.75511259E	05 0.21777695E	01
CH				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.63306702E	00-0.75491296E	01-0.21396736E	04 0.14781500E	01
V	1000.000	5000.000	0.64807346E	00 0.31141665E	01-0.18292566E	04 0.13638041E	01
C	300.000	1000.000	0.10884807E	01 0.27220319E	03-0.22480091E	05-0.64679028E	00
C	1000.000	5000.000	0.44721563E	00-0.10513211E	04 0.28092259E	06 0.48038688E	01
CH3CL				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.53405720E	00-0.27557997E	03 0.18732367E	05 0.23540681E	01
V	1000.000	5000.000	0.62996532E	00-0.50440636E	02-0.51067301E	05 0.15355845E	01
C	300.000	1000.000	0.79071697E	00-0.50214675E	03 0.39887527E	05 0.15433822E	01
C	1000.000	5000.000	0.54235542E	00-0.66642579E	03-0.18356783E	04 0.34590507E	01
CH3OH				V2C2 GORDON; NASA TM86885, OCT 1984. CH3OH			
V	300.000	1000.000	0.62326827E	00-0.28139531E	03 0.23329867E	05 0.17003401E	01
V	1000.000	5000.000	0.60590993E	00-0.19198488E	03-0.25158890E	05 0.17778509E	01
C	300.000	1000.000	0.10211686E	01-0.44472491E	03 0.41226364E	05 0.43413536E	00
C	1000.000	5000.000	0.45440985E	00-0.11298018E	04 0.14206088E	06 0.49230571E	01
CH4				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.57388074E	00-0.98544160E	02 0.20012204E	04 0.17536015E	01
V	1000.000	5000.000	0.65074534E	00 0.23936771E	02-0.22020183E	05 0.11244058E	01
C	300.000	1000.000	0.11770360E	01-0.17422121E	03 0.22865563E	05-0.55146852E	00
C	1000.000	5000.000	0.49214767E	00-0.91598343E	03 0.87265127E	05 0.48489412E	01

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS (Continued)

CN	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.62544382E	00-0.15318186E	02-0.18288251E	04	0.16016921E	01		
V	1000.000	5000.000	0.64808436E	00	0.34533673E	01-0.22117730E	04	0.14272475E	01	
C	300.000	1000.000	0.94972662E	00	0.12435517E	03-0.88374423E	04-0.15377147E	00		
C	1000.000	5000.000	0.68082840E	00-0.90526823E	03	0.48574325E	06	0.22457778E	01	
CO	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.60443938E	00-0.43632704E	02-0.88441949E	03	0.18972150E	01		
V	1000.000	5000.000	0.65060585E	00	0.28517449E	02-0.16690236E	05	0.15223271E	01	
C	300.000	1000.000	0.83001480E	00	0.59139032E	02-0.98639405E	04	0.70962875E	00	
C	1000.000	5000.000	0.65030086E	00-0.15100725E	03-0.16723855E	05	0.21699139E	01		
COS	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.52969284E	00-0.26892616E	03	0.17742103E	05	0.25013200E	01	
V	1000.000	5000.000	0.63342607E	00-0.33447711E	02-0.54409462E	05	0.16208681E	01		
C	300.000	1000.000	0.57101414E	00-0.41050507E	03	0.26688182E	05	0.26183777E	01	
C	1000.000	5000.000	0.67257356E	00-0.89956888E	02-0.91877099E	05	0.17124897E	01		
C02	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.54330318E	00-0.18823898E	03	0.88726567E	04	0.24499362E	01	
V	1000.000	5000.000	0.65318879E	00	0.51738759E	02-0.62834882E	05	0.15227045E	01	
C	300.000	1000.000	0.53726173E	00-0.49928331E	03	0.37397504E	05	0.32903619E	01	
C	1000.000	5000.000	0.66068182E	00-0.12741845E	03-0.81580328E	05	0.21817907E	01		
CP	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.55142210E	00-0.16522371E	03	0.67076536E	04	0.20562199E	01	
V	1000.000	5000.000	0.65372263E	00	0.51025907E	02-0.55485385E	05	0.11956174E	01	
C	300.000	1000.000	0.59035579E	00-0.26133699E	03	0.16965587E	05	0.20433882E	01	
C	1000.000	5000.000	0.67681979E	00	0.43561992E	02-0.90694254E	05	0.12456589E	01	
CS	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.56203230E	00-0.13600215E	03	0.42677153E	04	0.20800917E	01	
V	1000.000	5000.000	0.65429610E	00	0.47958932E	02-0.44621677E	05	0.13080095E	01	
C	300.000	1000.000	0.61122836E	00-0.22957023E	03	0.15067012E	05	0.19653352E	01	
C	1000.000	5000.000	0.86597093E	00	0.73832733E	03-0.37667638E	06-0.37818229E	00		
CS2	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.60692003E	00-0.28798698E	03	0.23491408E	05	0.18384461E	01	
V	1000.000	5000.000	0.60771682E	00-0.17867431E	03-0.27087634E	05	0.17729523E	01		
C	300.000	1000.000	0.60405741E	00-0.42146703E	03	0.30555828E	05	0.20552995E	01	
C	1000.000	5000.000	0.68099098E	00-0.77363827E	02-0.10329799E	06	0.13105042E	01		
C2	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.62126764E	00-0.19814414E	02-0.16506365E	04	0.15582169E	01		
V	1000.000	5000.000	0.64809340E	00	0.36749201E	01-0.24685282E	04	0.13505925E	01	
C	300.000	1000.000	0.11782197E	01	0.51596967E	03-0.42793543E	05-0.20201745E	01		
C	1000.000	5000.000	0.84536557E	00	0.16283010E	03-0.21960714E	05	0.60979956E	00	
C2H2, acetylene	V2C2 GORDON; NASA TM86885, OCT 1984. C2H2									
V	300.000	1000.000	0.54922881E	00-0.17078109E	03	0.72130467E	04	0.19955795E	01	
V	1000.000	5000.000	0.65338952E	00	0.50419792E	02-0.56910493E	05	0.11190694E	01	
C	300.000	1000.000	0.72408606E	00-0.27145126E	03	0.11112107E	05	0.21630756E	01	
C	1000.000	5000.000	0.65646287E	00-0.43191905E	03	0.24326887E	05	0.27779508E	01	
C2H4	V2C2 GORDON; NASA TM86885, OCT 1984. C2H4									
V	300.000	1000.000	0.55243600E	00-0.16260917E	03	0.64734038E	04	0.19463233E	01	
V	1000.000	5000.000	0.65385054E	00	0.51157317E	02-0.54731184E	05	0.10933538E	01	
C	300.000	1000.000	0.77957663E	00-0.47857623E	03	0.32147858E	05	0.21827872E	01	
C	1000.000	5000.000	0.48277394E	00-0.91773465E	03	0.11528060E	06	0.45824405E	01	
C2H6	V2C2 GORDON; NASA TM86885, OCT 1984. C2H6									
V	300.000	1000.000	0.55619461E	00-0.15265690E	03	0.56050805E	04	0.18241467E	01	
V	1000.000	5000.000	0.65422199E	00	0.51041684E	02-0.51534435E	05	0.10006480E	01	
C	300.000	1000.000	0.87089937E	00-0.45633731E	03	0.31766620E	05	0.16351124E	01	
C	1000.000	5000.000	0.47062424E	00-0.96911156E	03	0.10907459E	06	0.48272647E	01	

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS (Continued)

C2H5OH				V2C2 GORDON; NASA TM86885, OCT 1984. C2H5OH			
V	300.000	1000.000	0.53896094E	00-0.28047594E	03 0.19533016E	05 0.21089755E	01
V	1000.000	5000.000	0.62692259E	00-0.65829493E	02-0.47946575E	05 0.13535012E	01
C	300.000	1000.000	0.71918262E	00-0.61788717E	03 0.45758562E	05 0.25917619E	01
C	1000.000	5000.000	0.55479945E	01-0.26707561E	04 0.47694513E	07-0.33305380E	02
C2N2				V2C2 GORDON; NASA TM86885, OCT 1984. C2N2			
V	300.000	1000.000	0.53356050E	00-0.27497951E	03 0.18638758E	05 0.22893437E	01
V	1000.000	5000.000	0.63030975E	00-0.48720171E	02-0.51418095E	05 0.14641935E	01
C	300.000	1000.000	0.68867870E	00-0.32090493E	03 0.20848386E	05 0.19542675E	01
C	1000.000	5000.000	0.58675888E	00-0.34787226E	03-0.19158252E	05 0.27229253E	01
C3H6,cyclo-				V2C2 GORDON; NASA TM86885, OCT 1984. C3H6			
V	300.000	1000.000	0.52642893E	00-0.24304494E	03 0.14490001E	05 0.21036650E	01
V	1000.000	5000.000	0.64243372E	00 0.83055174E	01-0.61290810E	05 0.11264132E	01
C	300.000	1000.000	0.75434495E	00-0.56817108E	03 0.39706666E	05 0.23579094E	01
C	1000.000	5000.000	0.46796950E	00-0.98032164E	03 0.12025017E	06 0.46607118E	01
C3H8				V2C2 GORDON; NASA TM86885, OCT 1984. C3H8			
V	300.000	1000.000	0.54679651E	00-0.17696657E	03 0.77856045E	04 0.18001056E	01
V	1000.000	5000.000	0.65294463E	00 0.49357706E	02-0.58312245E	05 0.90667797E	00
C	300.000	1000.000	0.74388890E	00-0.55911365E	03 0.36290570E	05 0.24613167E	01
C	1000.000	5000.000	0.47421324E	00-0.94559650E	03 0.10647490E	06 0.46336342E	01
C3H8O,1propanol				V2C2 GORDON; NASA TM86885, OCT 1984. C3H7OH			
V	300.000	1000.000	0.73440698E	00-0.22629180E	03 0.21086249E	05 0.67643591E	00
V	1000.000	5000.000	0.59652900E	00-0.27394426E	03-0.12451645E	05 0.17070661E	01
C	300.000	1000.000	0.87763046E	00-0.60698875E	03 0.50287900E	05 0.14897201E	01
C	1000.000	5000.000	0.57171849E	01-0.21255482E	04 0.45327874E	07-0.34773207E	02
C4H10,isobutane				V2C2 GORDON; NASA TM86885, OCT 1984. I-C4H10			
V	300.000	1000.000	0.52832039E	00-0.26563679E	03 0.17285072E	05 0.20055687E	01
V	1000.000	5000.000	0.63489923E	00-0.26370421E	02-0.55754234E	05 0.11025916E	01
C	300.000	1000.000	0.67475778E	00-0.66361596E	03 0.44196906E	05 0.30206687E	01
C	1000.000	5000.000	0.46635940E	00-0.98961826E	03 0.11790333E	06 0.47061309E	01
C4H10,n-butane				V2C2 GORDON; NASA TM86885, OCT 1984. N-C4H10			
V	300.000	1000.000	0.68141614E	00-0.25412492E	03 0.22317723E	05 0.10228466E	01
V	1000.000	5000.000	0.60074817E	00-0.23466020E	03-0.19061014E	05 0.15996809E	01
C	300.000	1000.000	0.83404393E	00-0.64023382E	03 0.49149211E	05 0.19789190E	01
C	1000.000	5000.000	0.45229275E	00-0.11085240E	04 0.11643121E	06 0.50090208E	01
C6H6				V2C2 SVEHLA; NASA TR R-132, 1962 . C6H6			
V	300.00	1000.00	0.56309582E	00-0.29359980E	03 0.22248917E	05 0.18470699E	01
V	1000.00	5000.00	0.61627702E	00-0.12384842E	03-0.36361541E	05 0.13677380E	01
C	300.00	1000.00	0.48438372E	00-0.83571820E	03 0.48515114E	05 0.41854633E	01
C	1000.00	5000.00	0.48653010E	00-0.89465684E	03 0.86496530E	05 0.41869639E	01
CD				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.11885348E	01 0.14622882E	03-0.58133069E	04-0.17382773E	01
V	1000.000	5000.000	0.53920305E	00-0.94803288E	03 0.22274390E	06 0.36110995E	01
C	300.000	1000.000	0.11885357E	01 0.14622946E	03-0.58133583E	04-0.30206915E	01
C	1000.000	5000.000	0.53920312E	00-0.94803288E	03 0.22274407E	06 0.23286912E	01
CL				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.59042211E	00-0.68463350E	02 0.11486756E	03 0.20947363E	01
V	1000.000	5000.000	0.64975744E	00 0.15081620E	02-0.12359163E	05 0.16139819E	01
C	300.000	1000.000	0.59042380E	00-0.68461622E	02 0.11470140E	03 0.19662606E	01
C	1000.000	5000.000	0.64975781E	00 0.15083117E	02-0.12360002E	05 0.14855162E	01
CLCN				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.53044034E	00-0.27031325E	03 0.17941511E	05 0.25473656E	01
V	1000.000	5000.000	0.63275432E	00-0.36705413E	02-0.53780760E	05 0.16781431E	01
C	300.000	1000.000	0.63550134E	00-0.32017641E	03 0.20231531E	05 0.21282233E	01
C	1000.000	5000.000	0.71166697E	00-0.39566346E	02-0.91690728E	05 0.14316566E	01

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS (Continued)

				V2C2 GORDON; NASA TM86885, OCT 1984			
CLF							
V	300.000	1000.000	0.56070752E	00-0.13992607E	03 0.45668081E	04 0.24732312E	01
V	1000.000	5000.000	0.65434798E	00 0.49042184E	02-0.46439063E	05 0.16887227E	01
C	300.000	1000.000	0.50866868E	00-0.25631123E	03 0.12208834E	05 0.29062389E	01
C	1000.000	5000.000	0.41413675E	01 0.11621040E	05-0.45999311E	07-0.29499043E	02
				V2C2 GORDON; NASA TM86885, OCT 1984			
CLF3							
V	300.000	1000.000	0.52962852E	00-0.26875506E	03 0.17718417E	05 0.26423307E	01
V	1000.000	5000.000	0.63350474E	00-0.33065466E	02-0.54490816E	05 0.17607381E	01
C	300.000	1000.000	0.35753660E	00-0.49903816E	03 0.29633530E	05 0.42197696E	01
C	1000.000	5000.000	0.62598051E	00-0.11436080E	03-0.43406305E	05 0.20547418E	01
				V2C2 GORDON; NASA TM86885, OCT 1984			
CL0							
V	300.000	1000.000	0.56676952E	00-0.12161047E	03 0.32653369E	04 0.23124565E	01
V	1000.000	5000.000	0.65374100E	00 0.42188490E	02-0.37132937E	05 0.15886710E	01
C	300.000	1000.000	0.51162100E	00-0.25600994E	03 0.13415594E	05 0.28360325E	01
C	1000.000	5000.000	0.72663272E	00 0.17120774E	03-0.10303851E	06 0.10393509E	01
				V2C2 GORDON; NASA TM86885, OCT 1984			
CL2							
V	300.000	1000.000	0.52629434E	00-0.25652928E	03 0.16097518E	05 0.25710501E	01
V	1000.000	5000.000	0.63837763E	00-0.10033969E	02-0.58625311E	05 0.16245853E	01
C	300.000	1000.000	0.47840317E	00-0.33823485E	03 0.20875963E	05 0.26885462E	01
C	1000.000	5000.000	0.78175250E	00 0.22694893E	03-0.11427704E	06 0.16441939E	00
				V2C2 GORDON; NASA TM86885, OCT 1984			
F							
V	300.000	1000.000	0.59906011E	00-0.51437723E	02-0.65028471E	03 0.21238160E	01
V	1000.000	5000.000	0.64874088E	00 0.86603487E	01-0.70792924E	04 0.17271575E	01
C	300.000	1000.000	0.59906234E	00-0.51435839E	02-0.65044231E	03 0.26191892E	01
C	1000.000	5000.000	0.64874106E	00 0.86606545E	01-0.70793785E	04 0.22225465E	01
				V2C2 GORDON; NASA TM86885, OCT 1984			
FCN							
V	300.000	1000.000	0.57223550E	00-0.10670086E	03 0.23425058E	04 0.23528480E	01
V	1000.000	5000.000	0.65269707E	00 0.34249373E	02-0.28971825E	05 0.16877932E	01
C	300.000	1000.000	0.66385760E	00-0.20552503E	03 0.10302488E	05 0.23513200E	01
C	1000.000	5000.000	0.62110746E	00-0.16681687E	03-0.34951313E	05 0.26513070E	01
				V2C2 GORDON; NASA TM86885, OCT 1984			
F0							
V	300.000	1000.000	0.60040365E	00-0.48873309E	02-0.73709186E	03 0.21428657E	01
V	1000.000	5000.000	0.64862605E	00 0.78985320E	01-0.64302665E	04 0.17588863E	01
C	300.000	1000.000	0.59294732E	00-0.17328829E	03 0.10140084E	05 0.27094093E	01
C	1000.000	5000.000	0.76539077E	00 0.25741139E	03-0.12609784E	06 0.12211694E	01
				V2C2 GORDON; NASA TM86885, OCT 1984			
F2							
V	300.000	1000.000	0.59905281E	00-0.51442916E	02-0.64988587E	03 0.22241253E	01
V	1000.000	5000.000	0.64874823E	00 0.86919179E	01-0.70944874E	04 0.18273444E	01
C	300.000	1000.000	0.56966196E	00-0.17423423E	03 0.85461006E	04 0.28676709E	01
C	1000.000	5000.000	0.75540432E	00 0.22361134E	03-0.10529872E	06 0.12991675E	01
				V2C2 GORDON; NASA TM86885, OCT 1984			
F20							
V	300.000	1000.000	0.57511461E	00-0.99851239E	02 0.19330999E	04 0.22639580E	01
V	1000.000	5000.000	0.65214551E	00 0.30451540E	02-0.25452577E	05 0.16292941E	01
C	300.000	1000.000	0.42544147E	00-0.35613685E	03 0.19443891E	05 0.38975844E	01
C	1000.000	5000.000	0.64844804E	00-0.30201572E	01-0.56012679E	05 0.20794278E	01
				V2C2 GORDON; NASA TM86885, OCT 1984			
H							
V	300.00	1000.00	0.58190587E	00 0.46941424E	02-0.68759582E	04 0.91591909E	00
V	1000.00	5000.00	0.51631898E	00-0.14613202E	04 0.71446141E	06 0.21559015E	01
C	300.00	1000.00	0.58190587E	00 0.46941424E	02-0.68759582E	04 0.43477961E	01
C	1000.00	5000.00	0.51631898E	00-0.14613202E	04 0.71446141E	06 0.55877786E	01
				V2C2 GORDON; NASA TM86885, OCT 1984			
HBr							
V	300.000	1000.000	0.58933864E	00-0.29335433E	03 0.23424808E	05 0.25894275E	01
V	1000.000	5000.000	0.61018630E	00-0.16167656E	03-0.29734382E	05 0.23658526E	01
C	300.000	1000.000	0.96304562E	00-0.68855077E	02 0.73361773E	04-0.75845739E	00
C	1000.000	5000.000	0.62746202E	00-0.38180804E	03-0.61467487E	04 0.18834342E	01

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS (Continued)

HCN				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.72518078E	00-0.23153256E	03 0.21358586E	05 0.80192307E	00
V	1000.000	5000.000	0.59723751E	00-0.26719537E	03-0.13701350E	05 0.17535640E	01
C	300.000	1000.000	0.92501663E	00-0.26471427E	03 0.22685411E	05 0.40109942E	00
C	1000.000	5000.000	0.54537647E	00-0.78102180E	03 0.91785663E	05 0.34682243E	01
HCL				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.53225757E	00-0.27322163E	03 0.18370730E	05 0.26560841E	01
V	1000.000	5000.000	0.63127019E	00-0.43971936E	02-0.52359830E	05 0.18130021E	01
C	300.000	1000.000	0.88016829E	00-0.51733060E	02 0.19343635E	04 0.26613366E	00
C	1000.000	5000.000	0.61958001E	00-0.42848675E	03 0.44628818E	05 0.23998301E	01
HF				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.52829217E	00-0.26558442E	03 0.17277654E	05 0.25060989E	01
V	1000.000	5000.000	0.63491956E	00-0.26269491E	02-0.55768516E	05 0.16027459E	01
C	300.000	1000.000	0.71973296E	00-0.12963167E	03 0.62985645E	04 0.18331238E	01
C	1000.000	5000.000	0.60081345E	00-0.70664493E	03 0.21916284E	06 0.30222222E	01
HI				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.52784444E	00-0.23380328E	03 0.13460328E	05 0.28602844E	01
V	1000.000	5000.000	0.64469869E	00 0.18163803E	02-0.62312536E	05 0.18765994E	01
C	300.000	1000.000	0.89496799E	00-0.43876558E	02 0.18359113E	04-0.84524179E	00
C	1000.000	5000.000	0.66970197E	00-0.13253951E	03-0.68569796E	05 0.86614196E	00
H2				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.68887644E	00 0.48727168E	01-0.59565053E	03 0.55569577E	00
V	1000.000	5000.000	0.70504381E	00 0.36287686E	02-0.72255550E	04 0.41921607E	00
C	300.000	1000.000	0.93724945E	00 0.19013311E	03-0.19701961E	05 0.17545108E	01
C	1000.000	5000.000	0.74368397E	00-0.54941898E	03 0.25676376E	06 0.35553997E	01
H2O				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.78387780E	00-0.38260408E	03 0.49040158E	05 0.85222785E	00
V	1000.000	5000.000	0.50714993E	00-0.68966913E	03 0.87454750E	05 0.30285155E	01
C	300.000	1000.000	0.15541443E	01 0.66106305E	02 0.55969886E	04-0.39259598E	01
C	1000.000	5000.000	0.79349503E	00-0.13340063E	04 0.37864327E	06 0.23591474E	01
H2O2				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.99686871E	00-0.41461068E	02 0.87172900E	04-0.15770256E	01
V	1000.000	5000.000	0.57419481E	00-0.50408983E	03 0.48898234E	05 0.17621537E	01
C	300.000	1000.000	0.11075595E	01-0.20746382E	03 0.23930396E	05-0.12685243E	01
C	1000.000	5000.000	0.46981213E	00-0.11937657E	04 0.22076993E	06 0.39203830E	01
H2S				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.52624074E	00-0.24493210E	03 0.14706252E	05 0.25104802E	01
V	1000.000	5000.000	0.64192799E	00 0.60684364E	01-0.61015379E	05 0.15356997E	01
C	300.000	1000.000	0.10513345E	01-0.43140454E	02 0.39906490E	04-0.67586328E	00
C	1000.000	5000.000	0.63433801E	00-0.38738396E	03-0.37840585E	05 0.25861506E	01
He				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.64802751E	00 0.43051414E	00-0.37873123E	02 0.16131962E	01
V	1000.000	5000.000	0.64764043E	00-0.44612757E	00 0.23006610E	03 0.16164797E	01
C	300.000	1000.000	0.64802850E	00 0.43145992E	00-0.37964201E	02 0.36659896E	01
C	1000.000	5000.000	0.64764079E	00-0.44641921E	00 0.23088408E	03 0.36692778E	01
Hg				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.94367314E	00-0.82917932E	02 0.11637023E	05 0.44357040E	00
V	1000.000	5000.000	0.57925263E	00-0.44580916E	03 0.31691900E	05 0.33002507E	01
C	300.000	1000.000	0.94367375E	00-0.82917583E	02 0.11637001E	05-0.14179521E	01
C	1000.000	5000.000	0.57925278E	00-0.44580773E	03 0.31691108E	05 0.14387311E	01
HgBr2				V2C2 GORDON; NASA TM86885, OCT 1984			
V	300.000	1000.000	0.94367468E	00-0.82916893E	02 0.11636948E	05-0.33764020E	00
V	1000.000	5000.000	0.57925294E	00-0.44580484E	03 0.31688745E	05 0.25190480E	01
C	300.000	1000.000	0.83359360E	00-0.17616187E	03 0.17189236E	05-0.92777594E	00
C	1000.000	5000.000	0.59766218E	00-0.40168705E	03 0.19056094E	05 0.92331802E	00

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS (Continued)

				V2C2 GORDON; NASA TM86885, OCT 1984			
I							
V	300.000	1000.000	0.55813203E	00-0.14734417E	03 0.51602827E	04 0.25867214E	01
V	1000.000	5000.000	0.65432576E	00 0.50478828E	02-0.49558226E	05 0.17793810E	01
C	300.000	1000.000	0.55813321E	00-0.14734315E	03 0.51601885E	04 0.11830226E	01
C	1000.000	5000.000	0.65432558E	00 0.50478927E	02-0.49558521E	05 0.37569275E	00
I2	V2C2 GORDON; NASA TM86885, OCT 1984						
V	300.000	1000.000	0.61471143E	00-0.28497347E	03 0.23431772E	05 0.20973875E	01
V	1000.000	5000.000	0.60681821E	00-0.18519473E	03-0.26138435E	05 0.21003450E	01
C	300.000	1000.000	0.63064253E	00-0.27550593E	03 0.21405999E	05 0.42524340E	00
C	1000.000	5000.000	0.71129313E	00 0.25273438E	02-0.91445236E	05-0.32116092E	00
Li	V2C2 GORDON; NASA TM86885, OCT 1984						
V	300.000	1000.000	0.11752934E	01 0.21157274E	03-0.12015201E	05-0.35064726E	01
V	1000.000	5000.000	0.54766371E	00-0.14297740E	04 0.51685974E	06 0.19440930E	01
C	300.000	1000.000	0.11752927E	01 0.21157214E	03-0.12015152E	05-0.20041680E	01
C	1000.000	5000.000	0.54766479E	00-0.14297696E	04 0.51685796E	06 0.34463823E	01
LiCL	V2C2 GORDON; NASA TM86885, OCT 1984						
V	300.000	1000.000	0.11723081E	01 0.21106360E	03-0.11990988E	05-0.31121607E	01
V	1000.000	5000.000	0.54988650E	00-0.14341736E	04 0.52206379E	06 0.23012792E	01
C	300.000	1000.000	0.11152834E	01 0.86278294E	02-0.30441406E	04-0.23747100E	01
C	1000.000	5000.000	0.66364820E	00-0.11212899E	04 0.38567849E	06 0.15658741E	01
LiF	V2C2 GORDON; NASA TM86885, OCT 1984						
V	300.000	1000.000	0.11291533E	01 0.21068947E	03-0.12539950E	05-0.28995579E	01
V	1000.000	5000.000	0.60903786E	00-0.14233356E	04 0.58185627E	06 0.17379115E	01
C	300.000	1000.000	0.11058083E	01 0.76731452E	02-0.16090045E	04-0.19121012E	01
C	1000.000	5000.000	0.71312432E	00-0.11330693E	04 0.43119396E	06 0.15799391E	01
LiO	V2C2 GORDON; NASA TM86885, OCT 1984						
V	300.000	1000.000	0.59024601E	00-0.29313587E	03 0.23436429E	05 0.19633498E	01
V	1000.000	5000.000	0.61004264E	00-0.16263674E	03-0.29581936E	05 0.17480629E	01
C	300.000	1000.000	0.53291070E	00-0.40303638E	03 0.30090655E	05 0.32950033E	01
C	1000.000	5000.000	0.71128127E	00 0.27334001E	02-0.10271842E	06 0.17640287E	01
Li2	V2C2 GORDON; NASA TM86885, OCT 1984						
V	300.000	1000.000	0.11752942E	01 0.21157326E	03-0.12015231E	05-0.33915691E	01
V	1000.000	5000.000	0.54766486E	00-0.14297727E	04 0.51686050E	06 0.20589929E	01
C	300.000	1000.000	0.11864429E	01 0.16477281E	03-0.86676933E	04-0.20521179E	01
C	1000.000	5000.000	0.77445801E	00-0.88331404E	03 0.31514451E	06 0.15195400E	01
Li2O	V2C2 GORDON; NASA TM86885, OCT 1984						
V	300.000	1000.000	0.11852391E	01 0.21253421E	03-0.12014231E	05-0.32722272E	01
V	1000.000	5000.000	0.54051860E	00-0.14091648E	04 0.49613971E	06 0.22969412E	01
C	300.000	1000.000	0.10844145E	01-0.60833980E	01 0.46422023E	04-0.13442709E	01
C	1000.000	5000.000	0.56950679E	00-0.12475771E	04 0.38458480E	06 0.30746519E	01
Mg	V2C2 GORDON; NASA TM86885, OCT 1984						
V	300.000	1000.000	0.11999414E	01 0.20126672E	03-0.10756481E	05-0.29969415E	01
V	1000.000	5000.000	0.52943536E	00-0.12953759E	04 0.41295444E	06 0.27081121E	01
C	300.000	1000.000	0.11999384E	01 0.20126452E	03-0.10756302E	05-0.27478556E	01
C	1000.000	5000.000	0.52943478E	00-0.12953787E	04 0.41295539E	06 0.29571809E	01
MgCL	V2C2 GORDON; NASA TM86885, OCT 1984						
V	300.000	1000.000	0.90734101E	00-0.10957625E	03 0.13455239E	05-0.33583701E	00
V	1000.000	5000.000	0.58274560E	00-0.40902478E	03 0.21055824E	05 0.21945136E	01
C	300.000	1000.000	0.81687290E	00-0.21031421E	03 0.19272508E	05 0.26796453E	00
C	1000.000	5000.000	0.67370002E	00-0.21524204E	03-0.45824091E	05 0.13239636E	01
MgCL2	V2C2 GORDON; NASA TM86885, OCT 1984						
V	300.000	1000.000	0.11643480E	01 0.21154461E	03-0.12157671E	05-0.29851196E	01
V	1000.000	5000.000	0.55826967E	00-0.14453042E	04 0.53835586E	06 0.23110024E	01
C	300.000	1000.000	0.11079049E	01 0.98601320E	02-0.43172118E	04-0.25982670E	01
C	1000.000	5000.000	0.59190755E	00-0.12500553E	04 0.42853003E	06 0.18844669E	01

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS (Continued)

				V2C2 GORDON; NASA TM86885, OCT 1984						
MgF	V	300.000	1000.000	0.57153724E	00-0.29502488E	03 0.22829882E	05 0.24330715E	01		
	V	1000.000	5000.000	0.61382741E	00-0.13849662E	03-0.33680482E	05 0.20400420E	01		
	C	300.000	1000.000	0.52769344E	00-0.38550300E	03 0.27187035E	05 0.30176213E	01		
	C	1000.000	5000.000	0.74461056E	00 0.18905510E	03-0.16740309E	06 0.11368690E	01		
				V2C2 GORDON; NASA TM86885, OCT 1984						
MgF2	V	300.000	1000.000	0.10536783E	01 0.19463118E	03-0.12040073E	05-0.22328636E	01		
	V	1000.000	5000.000	0.77039040E	00-0.10172891E	04 0.49502968E	06 0.43533118E	00		
	C	300.000	1000.000	0.10102266E	01 0.53808657E	02-0.33371180E	04-0.15775513E	01		
	C	1000.000	5000.000	0.74741881E	00-0.10287026E	04 0.43422069E	06 0.88732021E	00		
				V2C2 GORDON; NASA TM86885, OCT 1984						
Mg2	V	300.000	1000.000	0.11999338E	01 0.20126085E	03-0.10755969E	05-0.29052069E	01		
	V	1000.000	5000.000	0.52943951E	00-0.12953560E	04 0.41294399E	06 0.27997510E	01		
	C	300.000	1000.000	0.12619936E	01 0.27244603E	03-0.14272719E	05-0.35314094E	01		
	C	1000.000	5000.000	0.58940412E	00-0.10635945E	04 0.32638934E	06 0.21090193E	01		
				V2C2 GORDON; NASA TM86885, OCT 1984						
N	V	300.000	1000.000	0.78466590E	00 0.15060468E	02-0.25374756E	04 0.67458825E	00		
	V	1000.000	5000.000	0.80487742E	00 0.95211647E	02-0.36759153E	05 0.48842200E	00		
	C	300.000	1000.000	0.78466590E	00 0.15060468E	02-0.25374756E	04 0.14747985E	01		
	C	1000.000	5000.000	0.80487742E	00 0.95211647E	02-0.36759153E	05 0.12886322E	01		
				V2C2 GORDON; NASA TM86885, OCT 1984						
NF3	V	300.000	1000.000	0.56967038E	00-0.11332714E	03 0.27443384E	04 0.22987466E	01		
	V	1000.000	5000.000	0.65320219E	00 0.37910855E	02-0.32557395E	05 0.16061944E	01		
	C	300.000	1000.000	0.38158835E	00-0.44211254E	03 0.19950177E	05 0.43208327E	01		
	C	1000.000	5000.000	0.65091667E	00 0.73881686E	01-0.84389117E	05 0.21144498E	01		
				V2C2 GORDON; NASA TM86885, OCT 1984						
NH	V	300.000	1000.000	0.63709858E	00-0.36353873E	01-0.22869699E	04 0.15599278E	01		
	V	1000.000	5000.000	0.64806518E	00 0.29290818E	01-0.16401980E	04 0.14772122E	01		
	C	300.000	1000.000	0.94940463E	00 0.19417023E	03-0.17195992E	05 0.32016455E	00		
	C	1000.000	5000.000	0.86518748E	00 0.25156774E	03-0.12770184E	06 0.95443399E	00		
				V2C2 GORDON; NASA TM86885, OCT 1984						
NH3	V	300.000	1000.000	0.81181026E	00-0.16192541E	03 0.13635348E	05 0.38586405E	00		
	V	1000.000	5000.000	0.58385051E	00-0.42758871E	03 0.37959204E	05 0.22004252E	01		
	C	300.000	1000.000	0.12268934E	01-0.25575098E	03 0.32926505E	05-0.10143928E	01		
	C	1000.000	5000.000	0.32131924E	00-0.18686802E	04 0.45173941E	06 0.64352314E	01		
				V2C2 GORDON; NASA TM86885, OCT 1984						
NO	V	300.000	1000.000	0.59536071E	00-0.57867416E	02-0.38658607E	03 0.20594392E	01		
	V	1000.000	5000.000	0.65096667E	00 0.19493763E	02-0.13229282E	05 0.16106960E	01		
	C	300.000	1000.000	0.95581984E	00 0.12705354E	03-0.14468456E	05-0.15581681E	00		
	C	1000.000	5000.000	0.65454142E	00-0.10184116E	03-0.30492856E	05 0.21672442E	01		
				V2C2 GORDON; NASA TM86885, OCT 1984						
NOCL	V	300.000	1000.000	0.55407775E	00-0.29013153E	03 0.21387042E	05 0.23569867E	01		
	V	1000.000	5000.000	0.61962388E	00-0.10475832E	03-0.40052964E	05 0.17794912E	01		
	C	300.000	1000.000	0.65936900E	00-0.32842689E	03 0.24228608E	05 0.18140106E	01		
	C	1000.000	5000.000	0.79155874E	00 0.23355702E	03-0.20076887E	06 0.55981448E	00		
				V2C2 GORDON; NASA TM86885, OCT 1984						
N02	V	300.000	1000.000	0.55638659E	00-0.15082685E	03 0.54896589E	04 0.23748776E	01		
	V	1000.000	5000.000	0.65567489E	00 0.57106126E	02-0.53285015E	05 0.15402063E	01		
	C	300.000	1000.000	0.63306921E	00-0.33284539E	03 0.24120737E	05 0.24663012E	01		
	C	1000.000	5000.000	0.62299841E	00-0.12701358E	03-0.69901508E	05 0.24212675E	01		
				V2C2 GORDON; NASA TM86885, OCT 1984						
N2	V	300.000	1000.000	0.60443938E	00-0.43632704E	02-0.88441949E	03 0.18972150E	01		
	V	1000.000	5000.000	0.65060585E	00 0.28517449E	02-0.16690236E	05 0.15223271E	01		
	C	300.000	1000.000	0.94306384E	00 0.12279898E	03-0.11839435E	05-0.10668773E	00		
	C	1000.000	5000.000	0.65147781E	00-0.15059801E	03-0.13746760E	05 0.21801632E	01		

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS (Continued)

				V2C2 GORDON; NASA TM86885, OCT 1984			
N2O	V	300.000	1000.000	0.54648279E	00-0.17538256E	03 0.76356925E	04 0.23887157E 01
	V	1000.000	5000.000	0.65511342E	00 0.56849480E	02-0.60316082E	05 0.14742903E 01
	C	300.000	1000.000	0.47050344E	00-0.46505674E	03 0.27421960E	05 0.37269968E 01
	C	1000.000	5000.000	0.60986936E	00-0.20883718E	03-0.47931337E	05 0.25858920E 01
				V2C2 GORDON; NASA TM86885, OCT 1984			
N2O4	V	300.000	1000.000	0.53228523E	00-0.27822164E	03 0.19037688E	05 0.24757071E 01
	V	1000.000	5000.000	0.62866433E	00-0.56425245E	02-0.47939866E	05 0.16552361E 01
	C	300.000	1000.000	0.50253745E	00-0.55343094E	03 0.38361339E	05 0.34935842E 01
	C	1000.000	5000.000	0.59679657E	00-0.27024654E	03-0.46223556E	05 0.26422917E 01
				V2C2 GORDON; NASA TM86885, OCT 1984			
Na	V	300.000	1000.000	0.11991657E	01 0.17272436E	03-0.81074814E	04-0.33187241E 01
	V	1000.000	5000.000	0.53084448E	00-0.11004044E	04 0.29936796E	06 0.22628268E 01
	C	300.000	1000.000	0.11991657E	01 0.17272429E	03-0.81074712E	04-0.30140274E 01
	C	1000.000	5000.000	0.53084498E	00-0.11004040E	04 0.29936869E	06 0.25675191E 01
				V2C2 GORDON; NASA TM86885, OCT 1984			
NaBr	V	300.000	1000.000	0.11669297E	01 0.21109685E	03-0.12066967E	05-0.29043573E 01
	V	1000.000	5000.000	0.55512537E	00-0.14419020E	04 0.53270536E	06 0.24330610E 01
	C	300.000	1000.000	0.11717902E	01 0.17091273E	03-0.91899870E	04-0.35438249E 01
	C	1000.000	5000.000	0.70441563E	00-0.10435636E	04 0.37598970E	06 0.51601184E 00
				V2C2 GORDON; NASA TM86885, OCT 1984			
NaCN	V	300.000	1000.000	0.11528091E	01 0.21135235E	03-0.12272262E	05-0.32860731E 01
	V	1000.000	5000.000	0.57199458E	00-0.14520507E	04 0.55818630E	06 0.18227691E 01
	C	300.000	1000.000	0.12979173E	01 0.21066488E	03-0.11550963E	05-0.38003025E 01
	C	1000.000	5000.000	0.57843144E	00-0.14055772E	04 0.45884228E	06 0.23167812E 01
				V2C2 GORDON; NASA TM86885, OCT 1984			
NaCl	V	300.000	1000.000	0.11642456E	01 0.21156120E	03-0.12161063E	05-0.31564370E 01
	V	1000.000	5000.000	0.55839956E	00-0.14454200E	04 0.53857416E	06 0.21379969E 01
	C	300.000	1000.000	0.11549572E	01 0.15565790E	03-0.82703173E	04-0.31216782E 01
	C	1000.000	5000.000	0.69251630E	00-0.10821250E	04 0.39203169E	06 0.91254999E 00
				V2C2 GORDON; NASA TM86885, OCT 1984			
NaF	V	300.000	1000.000	0.11246143E	01 0.20926938E	03-0.12461016E	05-0.29038556E 01
	V	1000.000	5000.000	0.61469605E	00-0.14144876E	04 0.58243849E	06 0.16525732E 01
	C	300.000	1000.000	0.10993781E	01 0.12223965E	03-0.65939282E	04-0.24078338E 01
	C	1000.000	5000.000	0.73852321E	00-0.10758653E	04 0.43139600E	06 0.84893555E 00
				V2C2 GORDON; NASA TM86885, OCT 1984			
NaI	V	300.000	1000.000	0.11818393E	01 0.21275505E	03-0.12077525E	05-0.29875936E 01
	V	1000.000	5000.000	0.54320984E	00-0.14184781E	04 0.50491315E	06 0.25404083E 01
	C	300.000	1000.000	0.11906702E	01 0.17872335E	03-0.95080820E	04-0.40338377E 01
	C	1000.000	5000.000	0.73766296E	00-0.90161429E	03 0.31023034E	06-0.14298770E 00
				V2C2 GORDON; NASA TM86885, OCT 1984			
NaO	V	300.000	1000.000	0.54811203E	00-0.28689735E	03 0.20714307E	05 0.22972790E 01
	V	1000.000	5000.000	0.62224381E	00-0.90410313E	02-0.42923207E	05 0.16515893E 01
	C	300.000	1000.000	0.53629415E	00-0.32567270E	03 0.22011663E	05 0.27363629E 01
	C	1000.000	5000.000	0.75852874E	00 0.16366141E	03-0.12338203E	06 0.85664245E 00
				V2C2 GORDON; NASA TM86885, OCT 1984			
NaOH	V	300.000	1000.000	0.11670325E	01 0.21107864E	03-0.12063366E	05-0.31668433E 01
	V	1000.000	5000.000	0.55500116E	00-0.14417592E	04 0.53247894E	06 0.21722072E 01
	C	300.000	1000.000	0.11973081E	01 0.15190412E	03-0.94845125E	04-0.26780278E 01
	C	1000.000	5000.000	0.53145211E	00-0.16768143E	04 0.57724947E	06 0.31684396E 01
				V2C2 GORDON; NASA TM86885, OCT 1984			
Na2	V	300.000	1000.000	0.11991686E	01 0.17272712E	03-0.81077315E	04-0.32730108E 01
	V	1000.000	5000.000	0.53083913E	00-0.11004312E	04 0.29938121E	06 0.23086136E 01
	C	300.000	1000.000	0.12178308E	01 0.14749940E	03-0.59214668E	04-0.31914235E 01
	C	1000.000	5000.000	0.78291422E	00-0.55598388E	03 0.12553759E	06 0.38327194E 00

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS (Continued)

Na20				V2C2 GORDON; NASA TM86885, OCT 1984				
V	300.000	1000.000	0.11852443E	01	0.21253834E	03-0.12014565E	05-0.33114310E	01
V	1000.000	5000.000	0.54051892E	00	-0.14091678E	04	0.49614217E	06
C	300.000	1000.000	0.10901142E	01	0.58450168E	02-0.15252071E	04-0.21912644E	01
C	1000.000	5000.000	0.57538268E	00	-0.12218109E	04	0.39358975E	06
Ne				V2C2 GORDON; NASA TM86885, OCT 1984				
V	300.000	1000.000	0.65216539E	00	0.62836411E	01-0.10731022E	04	0.20161733E
V	1000.000	5000.000	0.64793219E	00	0.10343893E	01-0.24458823E	03	0.20497925E
C	300.000	1000.000	0.65216494E	00	0.62830217E	01-0.10730420E	04	0.24512805E
C	1000.000	5000.000	0.64793218E	00	0.10339824E	01-0.24427562E	03	0.24848962E
O				V2C2 GORDON; NASA TM86885, OCT 1984				
V	300.000	1000.000	0.73101989E	00	0.60468346E	01	0.35630372E	04
V	1000.000	5000.000	0.79832550E	00	0.18039626E	03-0.53243244E	05	0.51131026E
C	300.000	1000.000	0.73824503E	00	0.11221345E	02	0.31668244E	04
C	1000.000	5000.000	0.79819261E	00	0.17970493E	03-0.52900889E	05	0.11797640E
OH				V2C2 GORDON; NASA TM86885, OCT 1984				
V	300.000	1000.000	0.78530133E	00	-0.16524903E	03	0.12621544E	05
V	1000.000	5000.000	0.58936635E	00	-0.36223418E	03	0.23355306E	05
C	300.000	1000.000	0.10657500E	01	0.45300526E	02-0.37257802E	04-0.49894757E	00
C	1000.000	5000.000	0.58415552E	00	-0.87533541E	03	0.20830503E	06
O2				V2C2 GORDON; NASA TM86885, OCT 1984				
V	300.000	1000.000	0.61936357E	00	-0.44608607E	02-0.13460714E	04	0.19597562E
V	1000.000	5000.000	0.63839563E	00	-0.12344438E	01-0.22885810E	05	0.18056937E
C	300.000	1000.000	0.81595343E	00	-0.34366856E	02	0.22785080E	04
C	1000.000	5000.000	0.80805788E	00	0.11982181E	03-0.47335931E	05	0.95189193E
P				V2C2 GORDON; NASA TM86885, OCT 1984				
V	300.000	1000.000	0.60172588E	00	-0.46427776E	02-0.81317670E	03	0.16997237E
V	1000.000	5000.000	0.64852762E	00	0.72352703E	01-0.58578232E	04	0.13280342E
C	300.000	1000.000	0.60172595E	00	-0.46427473E	02-0.81321475E	03	0.17063279E
C	1000.000	5000.000	0.64852696E	00	0.72315702E	01-0.58557552E	04	0.13346455E
PCL3				V2C2 GORDON; NASA TM86885, OCT 1984				
V	300.000	1000.000	0.56705910E	00	-0.29448453E	03	0.22549684E	05
V	1000.000	5000.000	0.61504988E	00	-0.13110380E	03-0.35012832E	05	0.17004736E
C	300.000	1000.000	0.46759856E	00	-0.41412012E	03	0.27219078E	05
C	1000.000	5000.000	0.62191640E	00	-0.15804841E	03-0.30115458E	05	0.14648170E
PF				V2C2 GORDON; NASA TM86885, OCT 1984				
V	300.000	1000.000	0.53250121E	00	-0.21585581E	03	0.11573865E	05
V	1000.000	5000.000	0.64822622E	00	0.32763872E	02-0.62813079E	05	0.14258782E
C	300.000	1000.000	0.48759354E	00	-0.33214183E	03	0.19491414E	05
C	1000.000	5000.000	0.74083389E	00	-0.70783873E	02	0.24323383E	05
PF3				V2C2 GORDON; NASA TM86885, OCT 1984				
V	300.000	1000.000	0.56074201E	00	-0.13982780E	03	0.45592921E	04
V	1000.000	5000.000	0.65434702E	00	0.49018779E	02-0.46395135E	05	0.15829936E
C	300.000	1000.000	0.35685408E	00	-0.45395937E	03	0.24494685E	05
C	1000.000	5000.000	0.64448599E	00	-0.17581982E	02-0.67596124E	05	0.19469495E
PH3				V2C2 GORDON; NASA TM86885, OCT 1984				
V	300.000	1000.000	0.54019301E	00	-0.19389179E	03	0.93950337E	04
V	1000.000	5000.000	0.65131973E	00	0.44335896E	02-0.61168787E	05	0.12852911E
C	300.000	1000.000	0.91611132E	00	-0.28581024E	03	0.23587890E	05
C	1000.000	5000.000	0.57031841E	00	-0.43404881E	03-0.59921420E	05	0.32733369E
PN				V2C2 GORDON; NASA TM86885, OCT 1984				
V	300.000	1000.000	0.55608253E	00	-0.15297277E	03	0.56317889E	04
V	1000.000	5000.000	0.65421428E	00	0.51068828E	02-0.51651821E	05	0.12478568E
C	300.000	1000.000	0.63283895E	00	-0.22459221E	03	0.14686096E	05
C	1000.000	5000.000	0.67234004E	00	0.31696890E	02-0.89082667E	05	0.12936103E

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS (Continued)

P0	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.53499761E	00-0.20819304E	03	0.10800626E	05	0.23240954E	01	
V	1000.000	5000.000	0.64944290E	00	0.37502999E	02-0.62501896E	05	0.13610015E	01	
C	300.000	1000.000	0.62888900E	00-0.23560675E	03	0.16600563E	05	0.17844784E	01	
C	1000.000	5000.000	0.68948887E	00	0.88744522E	02-0.11442197E	06	0.11682889E	01	
PS	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.93790241E	00-0.87211038E	02	0.11929757E	05-0.10076496E	01		
V	1000.000	5000.000	0.57981876E	00-0.43970997E	03	0.29904427E	05	0.17968971E	01	
C	300.000	1000.000	0.86384389E	00-0.17171526E	03	0.17342587E	05-0.59094819E	00		
C	1000.000	5000.000	0.77799708E	00	0.17456414E	03-0.21313233E	06-0.11971285E	00		
P2	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.83447892E	00-0.16116318E	03	0.16947283E	05-0.25314649E	00		
V	1000.000	5000.000	0.58901033E	00-0.34661904E	03	0.40066685E	04	0.16371453E	01	
C	300.000	1000.000	0.72205544E	00-0.31814871E	03	0.27523268E	05	0.49864673E	00	
C	1000.000	5000.000	0.63663671E	00-0.25348443E	03-0.41841022E	05	0.10899479E	01		
P4	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.90411767E	00-0.11190439E	03	0.13613879E	05-0.68973758E	00		
V	1000.000	5000.000	0.58304168E	00-0.40596142E	03	0.20188552E	05	0.18119219E	01	
C	300.000	1000.000	0.64479485E	00-0.38428864E	03	0.28229348E	05	0.12449679E	01	
C	1000.000	5000.000	0.60247381E	00-0.36355102E	03-0.94694443E	04	0.15531529E	01		
S	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.10275633E	01-0.15730982E	02	0.67814046E	04-0.16868317E	01		
V	1000.000	5000.000	0.57141532E	00-0.53985986E	03	0.59619329E	05	0.19326899E	01	
C	300.000	1000.000	0.10275638E	01-0.15730602E	02	0.67813658E	04-0.17146989E	01		
C	1000.000	5000.000	0.57141299E	00-0.53987155E	03	0.59625328E	05	0.19048482E	01	
SF6	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.55356148E	00-0.15968072E	03	0.62136748E	04	0.23462379E	01	
V	1000.000	5000.000	0.65398528E	00	0.51259194E	02-0.53866067E	05	0.15018342E	01	
C	300.000	1000.000	0.32698365E	00-0.49765320E	03	0.16383569E	05	0.45533559E	01	
C	1000.000	5000.000	0.64458376E	00-0.20128103E	02-0.85429899E	05	0.19836988E	01		
SH	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.61408230E	00-0.28143128E	02-0.13467850E	04	0.18884765E	01		
V	1000.000	5000.000	0.64813948E	00	0.42553989E	01-0.30920912E	04	0.16229133E	01	
C	300.000	1000.000	0.10118698E	01	0.26386658E	03-0.22711870E	05-0.77379683E	00		
C	1000.000	5000.000	0.68044235E	00-0.15805050E	03	0.75469456E	04	0.19066699E	01	
S0	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.52625143E	00-0.24484659E	03	0.14696572E	05	0.24878570E	01	
V	1000.000	5000.000	0.64195121E	00	0.61710442E	01-0.61027285E	05	0.15129757E	01	
C	300.000	1000.000	0.54421574E	00-0.34870235E	03	0.24686677E	05	0.25225817E	01	
C	1000.000	5000.000	0.60326368E	00-0.59356628E	03	0.21055577E	06	0.21750850E	01	
S02	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.52954513E	00-0.26860106E	03	0.17696352E	05	0.25434068E	01	
V	1000.000	5000.000	0.63357876E	00-0.32706650E	02-0.54558956E	05	0.16605700E	01		
C	300.000	1000.000	0.53161859E	00-0.46428334E	03	0.34368389E	05	0.28729848E	01	
C	1000.000	5000.000	0.68373370E	00-0.17546035E	02-0.11091192E	06	0.15164401E	01		
S2	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.10275639E	01-0.15730803E	02	0.67814093E	04-0.16664187E	01		
V	1000.000	5000.000	0.57141835E	00-0.53984612E	03	0.59611578E	05	0.19530790E	01	
C	300.000	1000.000	0.98092737E	00-0.12110140E	03	0.13039909E	05-0.14396672E	01		
C	1000.000	5000.000	0.64033875E	00-0.59597252E	03	0.72484889E	05	0.13270533E	01	
S2F2	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.55994786E	00-0.14213224E	03	0.47398132E	04	0.22961206E	01	
V	1000.000	5000.000	0.65435710E	00	0.49551587E	02-0.47408338E	05	0.15047134E	01	
C	300.000	1000.000	0.41057319E	00-0.36233030E	03	0.15064933E	05	0.36096006E	01	
C	1000.000	5000.000	0.65312444E	00	0.18099392E	02-0.71163472E	05	0.16401929E	01	

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS (Continued)

Si	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.10449719E	01	0.19143103E	03-0.11829247E	05-0.21394108E	01		
V	1000.000	5000.000	0.78988567E	00-0.95537214E	03	0.47572682E	06	0.28832678E	00	
C	300.000	1000.000	0.10449713E	01	0.19143050E	03-0.11829201E	05-0.20349144E	01		
C	1000.000	5000.000	0.78988608E	00-0.95537169E	03	0.47572729E	06	0.39281511E	00	
SiCL	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.11060893E	01	0.54472185E	02	0.15508572E	04-0.19779345E	01	
V	1000.000	5000.000	0.56223642E	00-0.66627167E	03	0.10127956E	06	0.23974239E	01	
C	300.000	1000.000	0.10399161E	01-0.25627339E	02	0.66452541E	04-0.16186619E	01		
C	1000.000	5000.000	0.72298227E	00-0.20077852E	03-0.74276182E	05	0.82207367E	00		
SiCL4	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.55156535E	00-0.28884804E	03	0.21111522E	05	0.21060079E	01	
V	1000.000	5000.000	0.62068684E	00-0.98874758E	02-0.41219319E	05	0.15001162E	01		
C	300.000	1000.000	0.43894980E	00-0.43471622E	03	0.27690887E	05	0.28487965E	01	
C	1000.000	5000.000	0.62357602E	00-0.14610669E	03-0.32112677E	05	0.13452883E	01		
SiF	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.74469669E	00-0.22023807E	03	0.20750850E	05	0.11032763E	01	
V	1000.000	5000.000	0.59574337E	00-0.28144567E	03-0.10987859E	05	0.22220602E	01		
C	300.000	1000.000	0.69844981E	00-0.32202998E	03	0.27986749E	05	0.16227540E	01	
C	1000.000	5000.000	0.73548029E	00	0.11273623E	03-0.17893865E	06	0.11337502E	01	
SiF4	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.57077021E	00-0.11041847E	03	0.25670575E	04	0.21607302E	01	
V	1000.000	5000.000	0.65298266E	00	0.36297519E	02-0.30956385E	05	0.14800331E	01	
C	300.000	1000.000	0.42518081E	00-0.39420381E	03	0.19135444E	05	0.37213358E	01	
C	1000.000	5000.000	0.65150413E	00	0.64377124E	01-0.79487595E	05	0.18549219E	01	
SiH4	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.55924396E	00-0.14415953E	03	0.49013752E	04	0.20043942E	01	
V	1000.000	5000.000	0.65435256E	00	0.49950878E	02-0.48263745E	05	0.12067324E	01	
C	300.000	1000.000	0.76108905E	00-0.41994290E	03	0.28112649E	05	0.21424344E	01	
C	1000.000	5000.000	0.60035284E	00-0.28430063E	03-0.11637412E	06	0.32542195E	01		
SiO	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.72506064E	00-0.23159941E	03	0.21361941E	05	0.11938159E	01	
V	1000.000	5000.000	0.59723532E	00-0.26715791E	03-0.13693384E	05	0.21445353E	01		
C	300.000	1000.000	0.74584054E	00-0.33365366E	03	0.31257625E	05	0.12854454E	01	
C	1000.000	5000.000	0.72347442E	00	0.10673017E	03-0.20274219E	06	0.12256205E	01	
SiO2	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.10548774E	01	0.19502577E	03-0.12060648E	05-0.23035749E	01		
V	1000.000	5000.000	0.76767529E	00-0.10257777E	04	0.49762839E	06	0.39792053E	00	
C	300.000	1000.000	0.10514211E	01-0.68683144E	01	0.44778115E	04-0.18080684E	01		
C	1000.000	5000.000	0.73063010E	00-0.11009925E	04	0.42616688E	06	0.10825751E	01	
SiS	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.12010728E	01	0.18110947E	03-0.88652451E	04-0.30589063E	01		
V	1000.000	5000.000	0.52945943E	00-0.11514295E	04	0.32706083E	06	0.25765863E	01	
C	300.000	1000.000	0.11018478E	01	0.17738569E	02	0.30781405E	04-0.23546834E	01	
C	1000.000	5000.000	0.88673914E	00	0.82340153E	02-0.18949212E	06-0.74829186E	00		
Si2	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.10449790E	01	0.19143586E	03-0.11829602E	05-0.20322708E	01		
V	1000.000	5000.000	0.78988110E	00-0.95539350E	03	0.47573737E	06	0.39556243E	00	
C	300.000	1000.000	0.11761733E	01	0.93952349E	02	0.10348143E	04-0.27660853E	01	
C	1000.000	5000.000	0.98246822E	00-0.76637847E	02	0.71989828E	05-0.13330007E	01		
SnCL4	V2C2 GORDON; NASA TM86885, OCT 1984									
V	300.000	1000.000	0.56767328E	00-0.29459106E	03	0.22592397E	05	0.21167412E	01	
V	1000.000	5000.000	0.61486966E	00-0.13217830E	03-0.34814305E	05	0.16848596E	01		
C	300.000	1000.000	0.54879279E	00-0.31796597E	03	0.19347146E	05	0.16823364E	01	
C	1000.000	5000.000	0.34656610E	00-0.12573241E	04	0.45215867E	06	0.35944770E	01	

TABLE IV. - TRANSPORT PROPERTY COEFFICIENTS (Concluded)

Zn				V2C2	GORDON; NASA TM86885, OCT 1984				
V	300.000	1000.000	0.12002271E	01	0.17586903E	03-0.83995383E	04-0.19217073E	01	
V	1000.000	5000.000	0.53031143E	00-0.11169229E	04	0.30819706E	06	0.36814803E	01
C	300.000	1000.000	0.12002288E	01	0.17587033E	03-0.83996394E	04-0.26621911E	01	
C	1000.000	5000.000	0.53031130E	00-0.11169233E	04	0.30819716E	06	0.29410104E	01
He		Ar		V1CO					
V	300.000	5000.000	0.47903400E	00-0.24133330E	03	0.34125770E	05	0.27830000E	01
Ar		Kr		V1CO					
V	300.000	5000.000	0.53955200E	00-0.14537710E	03	0.77105300E	04	0.27820000E	01
CH4		CF4		V1CO					
V	300.000	5000.000	0.13074500E	00-0.55907700E	03	0.55942230E	05	0.52550000E	01
LAST									

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13. ABSTRACT (Maximum 200 words) <p>Libraries of thermodynamic data and transport properties are given for individual species in the form of least-squares coefficients. Values of $C_p^o(T)$, $H^o(T)$, and $S^o(T)$ are available for 1130 solid, liquid, and gaseous species. Viscosity and thermal conductivity data are given for 155 gases. The original $C_p^o(T)$ values were fit to a fourth-order polynomial with integration constants for $H^o(T)$ and $S^o(T)$. For each species the integration constant for $H^o(T)$ includes the heat of formation. Transport properties have a different functional form. The temperature range for most of the data is 300 to 5000 K, although some of the newer thermodynamic data have a range of 200 to 6000 K. Because the species are mainly possible products of reaction, the data are useful for chemical equilibrium and kinetics computer codes. Much of the data has been distributed for several years with the NASA Lewis equilibrium program CET89. The thermodynamic properties of the reference elements have been updated along with about 175 species that involve the elements carbon, hydrogen, oxygen, and nitrogen. These sets of data will be distributed with the NASA Lewis personal computer program for calculating chemical equilibria, CETPC.</p>				
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