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THERMODYNAMIC PROPERTIES OF SELECTED SPECIES CONTAINING CARBON, HYDROGEN, OXYGEN, HELIUM AND ARGON

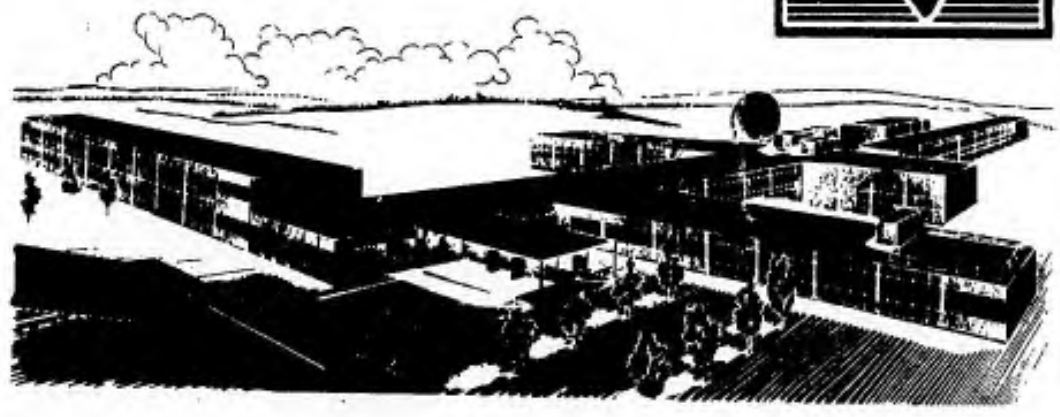
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FLUID DYNAMICS FACILITIES LABORATORIES

AUGUST 1962

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THERMODYNAMIC PROPERTIES OF SELECTED SPECIES CONTAINING
CARBON, HYDROGEN, OXYGEN, HELIUM AND ARGON

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FLUID DYNAMICS FACILITIES LABORATORY

AUGUST 1962

Project 7065
Task 70135

AERONAUTICAL RESEARCH LABORATORIES
OFFICE OF AEROSPACE RESEARCH
UNITED STATES AIR FORCE
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

FOREWORD

This report was prepared by Mr. Bernard T. Wolfson and Mr. Robert G. Dunn of the Aeronautical Research Laboratories, Office of Aerospace Research, under Task 70135, "Fluid Dynamics Facilities Research", Project 7065, "Aerospace Simulation Techniques Research".

The authors are deeply indebted to the Flight Propulsion Laboratory Department of the General Electric Company, and especially to Dr. S. F. Sarner, for permission to use thermodynamic data which were available in 100°K intervals in the form of IBM 704 punched card decks. A considerable portion of the data presented in this report is based on the information on these punched cards. The authors also wish to thank Mr. J. S. Gordon of Reaction Motors Division, Thiokol Chemical Corporation, for furnishing unpublished thermodynamic data on several species for which data were not available. Especially appreciated are the efforts of Captain B. Rodstein and Mr. D. J. LaJeunesse of the Digital Computation Division, Directorate of Systems Engineering, Aeronautical Systems Division, and Mr. J. C. Gaslin of the Applied Mathematics Research Laboratory, ARL, in preparing the program for computation of the data on the Univac Scientific 1103A computer and for printing the tables of data through use of the IBM 7090 computer.

ABSTRACT

In the course of research work on detonation in gaseous mixtures, the authors found a need for reliable and consistent values, at small temperature intervals, of the thermodynamic properties of a number of species involving the elements carbon, hydrogen, oxygen, helium and argon. This report presents the results of calculations of six thermodynamic functions at 10°K intervals for twenty-seven selected species, including monatomic carbon in both the gaseous and solid phases. The basic thermodynamic data from which the computations were made (heat capacity, free energy and enthalpy data) were gathered from reliable sources, all such data being found at 100°K intervals. Other thermodynamic functions were computed from the basic data, and all of the 100° data were treated to insure internal consistency throughout. Highly consistent values of all of the thermodynamic functions at 10°K intervals were then obtained by the Aitkens fourth degree interpolation method. The temperature range covered for the majority of the species is 100°K to 6000°K . The thermodynamic functions presented, in dimensionless form, are molal heat capacity at constant pressure, free energy, enthalpy, heat of formation, entropy, and equilibrium constant.

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LIST OF TABLES

Argon (gas), A	Helium (gas), He
Monatomic Carbon (gas), C(g)	Atomic Oxygen (gas), O
Monatomic Carbon (solid - graphite), C(s)	Molecular Oxygen (gas), O ₂
Diatomic Carbon (gas), C ₂	Ozone (gas), O ₃
Triatomic Carbon (gas), C ₃	Hydroxyl (gas), OH
Methylidyne (gas), CH	
Methylene(gas), CH ₂	
Methyl (gas), CH ₃	
Methane (gas), CH ₄	
Acetylene (gas), C ₂ H ₂	
Ethylene (gas), C ₂ H ₄	
Ethane (gas), C ₂ H ₆	
Propane (gas), C ₃ H ₈	
Formyl (gas), CHO	
Methanol (gas), CH ₃ OH	
Carbon Monoxide (gas), CO	
Carbon Dioxide (gas), CO ₂	
Carbon Suboxide (gas), C ₃ O ₂	
Formaldehyde (gas), CH ₂	
Atomic Hydrogen (gas), H	
Molecular Hydrogen (gas), H ₂	
Water (gas), H ₂ O	
Hydrogen Peroxide (gas), H ₂ O ₂	

SECTION I

INTRODUCTION

In carrying out a research program on detonation phenomena in gaseous mixtures, the authors found a need for reliable and consistent values, at small temperature intervals, of the thermodynamic properties of a number of species involving the elements carbon, hydrogen, oxygen, helium and argon. The results of calculations of six thermodynamic functions at 10°K intervals are presented in this report for twenty-seven selected species, including monatomic carbon in both the gaseous and solid phases. The basic thermodynamic data from which the computations were made (heat capacity, free energy and enthalpy data) were gathered from reliable sources, all such data being found at 100°K intervals. No attempt was made to generate original thermodynamic data by calculation from spectroscopic measurements.

For this report, other thermodynamic functions were computed from the basic data, and all of the 100° data were treated to insure internal consistency throughout. Highly consistent values of all of the thermodynamic functions at 10°K intervals were then obtained by application of the Aitkens fourth degree interpolation method (15).

The majority of the thermodynamic data, obtained from the General Electric Company in the form of punched cards (12), was originally generated by Gordon (4, 5) and National Bureau of Standards (8, 9, 10). The references cited in the tables of thermodynamic properties (Appendix) are the original sources.

The following species, arranged alphabetically according to their chemical formulas, are treated in this report:

A	CH ₂	C ₃ H ₈	COH ₂	O
C(g)	CH ₃	CHO	H	O ₂
C(s)	CH ₄	CH ₃ OH	H ₂	O ₃
C ₂	C ₂ H ₂	CO	H ₂ O	OH
C ₃	C ₂ H ₄	CO ₂	H ₂ O ₂	
CH	C ₂ H ₆	C ₃ O ₂	He	

In all cases the data are presented in 10°K increments. The temperature ranges for five of the species are as follows:

C ₂ H ₄	300°K to 6000°K
C ₂ H ₆	300°K to 1500°K
C ₃ H ₈	300°K to 1500°K
CH ₃ OH	100°K to 1000°K
H ₂ O ₂	300°K to 1500°K

The temperature range for the remaining 22 species (including solid as well as gaseous carbon) is 100°K to 6000°K.

The thermodynamic properties presented for each of the chemically reactive gaseous species are the following:

<u>Thermodynamic Function</u>	<u>Definition</u>	<u>Abbreviated Symbol Used in Tables</u>
$(C_p^0/R)_n$	Dimensionless molal heat capacity at constant pressure for the specie in the standard state, where R is the universal gas constant.	CP/R
$(F^0 - E_0^0)/RT$	Free energy function, where F^0 is the absolute molal free energy of the specie at temperature T in the standard state, and E_0^0 is the absolute molal internal energy of the specie at 0°K in the standard state.	(F-E)/RT
$(H^0 - E_0^0)/RT$	Enthalpy function, where H^0 is the absolute molal enthalpy of the specie at temperature T in the standard state.	(H-E)/RT
$\Delta H_f/RT$	Dimensionless heat of formation of the specie at temperature T from the elements in their standard states of aggregation at 0°K.	DELTA H/RT
S^0/R	Entropy function, where S^0 is the absolute molal entropy of the specie at temperature T in the standard state.	S/R
$\ln_e K_p$	Natural logarithm of the equilibrium constant at temperature T, in terms of partial pressures, for the formation of the specie from the elements in their standard states of aggregation.	LN K

For the chemically nonreactive species (He and A) the same thermodynamic properties are presented, with the exception that LN K is eliminated. For solid carbon, again the same thermodynamic properties are given, with the exception that LN K (equilibrium constant) is replaced by LN PCV (i.e., $\ln_e PC(v)$, which is the natural logarithm of the vapor pressure of monatomic carbon at temperature T).

The standard state for solid carbon is pure graphite and for gases it is ideal gas at one atmosphere pressure. Standard states of aggregation for the five elements are taken to be solid carbon, as pure graphite, or $C(s)$; and O_2 , H_2 , He and A as ideal gases at one atmosphere pressure.

A separate page at the beginning of the data for each specie lists the following information:

Molecular weight for the given specie

Delta E zero or ΔE_0^f , heat of reaction at $0^\circ K$ for the formation of the specie from the elements in their standard states of aggregation at $0^\circ K$.

Original references from which the values of ΔE_0^f and the other thermodynamic data were obtained.

SECTION II

PREPARATION OF TABLES

Treatment of the Available Data

After selection and compilation of the basic data at 100°K intervals, some of the original functions were modified to permit presentation in the form considered most useful. Two additional thermodynamic functions, entropy and the equilibrium constant, were computed (at 100°K intervals) from the modified original data. In the interest of overall consistency, this was done for all species even though in some instances entropy and equilibrium constant data were available in the original sources.

All of the data were examined, and treated where necessary, to insure internal consistency. First, second, third and fourth order differences were computed on the Univac 1103A digital computer for each of the thermodynamic functions at every 100°K interval over the entire temperature range. All differences were examined in order to locate all points of inconsistency in the data. When a region was found in which the first, second, third or fourth difference fluctuated in sign more than once, the range of basic data contributing to this oscillation was examined in detail and smoothed in the following manner. A large scale plot of the data in the region of inconsistency was made in each case. At every point of inconsistency it was found that one, or at most a few, points were obviously not in line with the other data at temperatures above and below the point. A smooth curve was drawn through each of the regions of inconsistency and new values were read from this curve for those points which appeared to be out of line.

The data at 10°K intervals for each of the thermodynamic functions over the entire temperature range were obtained from the 100°-interval data by interpolation. It was found that the fourth degree Aitkens interpolation method (15) was satisfactory for obtaining highly consistent 10°-interval data from the 100°-interval data.

All of the computations were carried out to more than the number of significant figures presented, then rounded off to four significant figures before final printout. All of the 10°-interval data are consistent to the third significant figure, while some of the data are consistent to the fourth significant figure. Maximum inconsistencies of one unit in the last tabulated place may have been introduced by the rounding off in that place.

Accuracy of the data presented in this report is felt to be at least as good as that of the data obtained from the original sources. In the temperature region below approximately 300°K, the original data in many cases were somewhat erratic; for this reason it is felt that some of the data presented in this temperature region is not as reliable as the data above this temperature.

Dimensionless Molal Heat Capacity, $(C_p^0/R)_n$.

The molal heat capacity data for C_2H_6 and C_3H_8 were obtained from Rossini (11) in the form of C_p^0 . Data in the same form were obtained from Ivash (7) for CH_3OH , from Giguere (3) for H_2O_2 , and from Gordon (6) for C_2H_4 and C_3O_2 . The 100°-interval

data for the remaining species are those reported by the General Electric Company (12) in the form of C_p^0/R ; these data were originally generated by Clauson (2) for CH_3 , by Sinke (13) for C_2H_2 , and by Gordon (4,5) and NBS (8,9,10) for the other species. The value of the universal gas constant R used in converting the C_p^0 data to the dimensionless form was 1.98719.

Heat of Reaction at 0°K, ΔE_0^0

The heat of reaction at 0°K for the formation of a given specie from the elements in their standard states of aggregation at 0°K is designated as ΔE_0^0 . The ΔE_0^0 data presented were reported by Gordon (4,5) and NBS (8,9,10), with the exception of five of the species. The ΔE_0^0 values for C_3H_8 , CH_3OH , H_2O_2 , and OH were obtained from Rossini (11), Ivash (7), Giguere (3), and Barrow (1), respectively. The ΔE_0^0 for C_3O_2 was calculated from an equilibrium constant reported by Thompson (14) and free energy data reported by Thompson (14) and Gordon (6).

Free Energy Function, $(F^0 - E_0^0)/RT$

The free energy data for C_2H_6 and C_3H_8 were obtained from Rossini (11) in the form $(F^0 - E_0^0)/T$. Data in the same form were obtained from Ivash (7) for CH_3OH , from Giguere (3) for H_2O_2 , and from Gordon (6) for C_2H_4 and C_3O_2 . The 100°-interval data for the remaining species are those reported by the General Electric Company (12) in the form F/RT , where

$$\frac{F}{RT} = + \frac{F^0 - E_0^0}{RT} + \frac{\Delta F_0^0}{RT};$$

these data were originally generated by Clauson (2) for CH_3 , by Sinke (13) for C_2H_2 , and by Gordon (4,5) and NBS (8,9,10) for the other species.

Enthalpy Function, $(H^0 - E_0^0)/RT$

The enthalpy data for C_2H_6 and C_3H_8 were obtained from Rossini (11) in the form $(H^0 - E_0^0)/T$. Data in the same form were obtained from Giguere (3) for H_2O_2 , and directly from Gordon (6) for C_2H_4 and C_3O_2 . The data for CH_3OH were given by Ivash (7) in the form $(H^0 - E_0^0)$. The 100°-interval data for the remaining species were calculated from $\Delta H_f/RT$ and $\Delta E_0^0/RT$ data by the following relationship:

$$\frac{H^0 - E_0^0}{RT} = \frac{\Delta H_f}{RT} - \frac{\Delta E_0^0}{RT}.$$

Dimensionless Heat of Formation, $\Delta H_f/RT$

The 100°-interval data for C_2H_4 , C_2H_6 , C_3H_8 , CH_3OH , C_3O_2 , and H_2O_2 were calculated from the $(F^\circ - E_0^\circ)/RT$ and $\Delta E_0^\circ/RT$ data by the following relationship:

$$\frac{\Delta H_f}{RT} = \frac{H^\circ - E_0^\circ}{RT} - \frac{\Delta E_0^\circ}{RT}$$

The corresponding data for the remaining species were reported by the General Electric Company (12) in the form $\Delta H_f/RT$; these data were calculated by the General Electric Company from basic data originally generated by Clauson (2) for CH_3 , by Sinke (13) for C_2H_2 , and by Gordon (4, 5) and NBS (8, 9, 10) for the other species.

Entropy Function, S°/R

The entropy data at 100° intervals for all species were calculated from $(F^\circ - E_0^\circ)/RT$, $(H^\circ - E_0^\circ)/RT$ and $\Delta E_0^\circ/RT$ data by means of the following expression:

$$\frac{S^\circ}{R} = \left(\frac{H^\circ - E_0^\circ}{RT} + \frac{\Delta E_0^\circ}{RT} \right) - \left(\frac{F^\circ - E_0^\circ}{RT} + \frac{\Delta E_0^\circ}{RT} \right)$$

In the interest of consistency, all of the 100°-interval entropy data were calculated in the above manner even though in a few instances, i.e., C_2H_4 , C_2H_6 , C_3H_8 , CH_3OH , C_3O_2 , and H_2O_2 , entropy data (in the form of S°) were presented by the original source.

Equilibrium Constant, $\ln_e K_p$

The equilibrium constant data at 100° intervals for all species were calculated from $(F^\circ - E_0^\circ)/RT$ and $\Delta E_0^\circ/RT$ data by the following relationship:

$$\ln_e K_p = - \sum_i \nu_i \left(\frac{F^\circ - E_0^\circ}{RT} + \frac{\Delta E_0^\circ}{RT} \right)_i$$

where ν_i is the stoichiometric mole number of the i-th component in the chemical reaction, positive for the products and negative for the reactants. The chemical reaction in this case is the reaction of formation of one mole of the specie from the elements in their standard states of aggregation.

Vapor Pressure of Monatomic Carbon, $\ln_e PC(\text{vap})$

The vapor pressure of monatomic carbon at 100° intervals was calculated from

$(F^\circ - E_0^\circ)/RT$ and $\Delta E_0^\circ/RT$ data for solid and gaseous carbon by the following relationship:

$$\ln_e P_{C(\text{vap})} = - \left(\frac{F^\circ - E_0^\circ}{RT} + \frac{\Delta E_0^\circ}{RT} \right)_{C(\text{g})} + \left(\frac{F^\circ - E_0^\circ}{RT} + \frac{\Delta E_0^\circ}{RT} \right)_{C(\text{s})}$$

where the subscripts $C(\text{g})$ and $C(\text{s})$ pertain to monatomic carbon gas, and solid carbon, respectively.

Presentation of the Thermodynamic Data

The thermodynamic data are presented in tabular form in the Appendix. Data presented in the tables in all cases are given to four significant figures in order to avoid modification of the standard print routine. Digital computation machine notation for decimal point location is used in the tables; e.g., $2.763 \uparrow 2 = 2.763 \times 10^2$, $9.856 - 1 = 9.856 \times 10^{-1}$.

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APPENDIX

TABLES OF THERMODYNAMIC PROPERTIES

SPECIE A

MOLECULAR WEIGHT EQUALS 39.9440

DELTA E ZERO EQUALS 0.0 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(SPECIE IS IN STANDARD STATE AT ZERO DEGREES KELVIN)

THERMAL

(NBS 6484, 7/1/59) (8)

SPECIE A

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
100	2.500	-1.338+1	2.500	2.500	1.588+1
110	2.500	-1.360+1	2.500	2.500	1.610+1
120	2.500	-1.381+1	2.500	2.500	1.631+1
130	2.500	-1.401+1	2.500	2.500	1.651+1
140	2.500	-1.420+1	2.500	2.500	1.670+1
150	2.500	-1.437+1	2.500	2.500	1.687+1
160	2.500	-1.454+1	2.500	2.500	1.704+1
170	2.500	-1.469+1	2.500	2.500	1.719+1
180	2.500	-1.484+1	2.500	2.500	1.734+1
190	2.500	-1.498+1	2.500	2.500	1.748+1
200	2.500	-1.511+1	2.500	2.500	1.761+1
210	2.500	-1.524+1	2.500	2.500	1.774+1
220	2.500	-1.535+1	2.500	2.500	1.785+1
230	2.500	-1.547+1	2.500	2.500	1.797+1
240	2.500	-1.557+1	2.500	2.500	1.807+1
250	2.500	-1.568+1	2.500	2.500	1.818+1
260	2.500	-1.577+1	2.500	2.500	1.827+1
270	2.500	-1.587+1	2.500	2.500	1.837+1
280	2.500	-1.596+1	2.500	2.500	1.846+1
290	2.500	-1.604+1	2.500	2.500	1.854+1
300	2.500	-1.613+1	2.500	2.500	1.863+1
310	2.500	-1.621+1	2.500	2.500	1.871+1
320	2.500	-1.629+1	2.500	2.500	1.879+1
330	2.500	-1.636+1	2.500	2.500	1.886+1
340	2.500	-1.644+1	2.500	2.500	1.894+1
350	2.500	-1.651+1	2.500	2.500	1.901+1
360	2.500	-1.658+1	2.500	2.500	1.908+1
370	2.500	-1.665+1	2.500	2.500	1.915+1
380	2.500	-1.672+1	2.500	2.500	1.922+1
390	2.500	-1.678+1	2.500	2.500	1.928+1
400	2.500	-1.684+1	2.500	2.500	1.934+1
410	2.500	-1.691+1	2.500	2.500	1.941+1
420	2.500	-1.697+1	2.500	2.500	1.947+1
430	2.500	-1.703+1	2.500	2.500	1.953+1
440	2.500	-1.708+1	2.500	2.500	1.958+1
450	2.500	-1.714+1	2.500	2.500	1.964+1
460	2.500	-1.720+1	2.500	2.500	1.970+1
470	2.500	-1.725+1	2.500	2.500	1.975+1
480	2.500	-1.730+1	2.500	2.500	1.980+1
490	2.500	-1.735+1	2.500	2.500	1.985+1
500	2.500	-1.740+1	2.500	2.500	1.990+1
510	2.500	-1.745+1	2.500	2.500	1.995+1
520	2.500	-1.750+1	2.500	2.500	2.000+1
530	2.500	-1.755+1	2.500	2.500	2.005+1
540	2.500	-1.760+1	2.500	2.500	2.010+1
550	2.500	-1.764+1	2.500	2.500	2.014+1
560	2.500	-1.769+1	2.500	2.500	2.019+1
570	2.500	-1.773+1	2.500	2.500	2.023+1
580	2.500	-1.777+1	2.500	2.500	2.027+1
590	2.500	-1.782+1	2.500	2.500	2.032+1

SPECIE A

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
600	2.500	-1.786+1	2.500	2.500	2.036+1
610	2.500	-1.790+1	2.500	2.500	2.040+1
620	2.500	-1.794+1	2.500	2.500	2.044+1
630	2.500	-1.798+1	2.500	2.500	2.048+1
640	2.500	-1.802+1	2.500	2.500	2.052+1
650	2.500	-1.806+1	2.500	2.500	2.056+1
660	2.500	-1.810+1	2.500	2.500	2.060+1
670	2.500	-1.813+1	2.500	2.500	2.063+1
680	2.500	-1.817+1	2.500	2.500	2.067+1
690	2.500	-1.821+1	2.500	2.500	2.071+1
700	2.500	-1.824+1	2.500	2.500	2.074+1
710	2.500	-1.828+1	2.500	2.500	2.078+1
720	2.500	-1.831+1	2.500	2.500	2.081+1
730	2.500	-1.835+1	2.500	2.500	2.085+1
740	2.500	-1.838+1	2.500	2.500	2.088+1
750	2.500	-1.842+1	2.500	2.500	2.092+1
760	2.500	-1.845+1	2.500	2.500	2.095+1
770	2.500	-1.848+1	2.500	2.500	2.098+1
780	2.500	-1.851+1	2.500	2.500	2.101+1
790	2.500	-1.855+1	2.500	2.500	2.105+1
800	2.500	-1.858+1	2.500	2.500	2.108+1
810	2.500	-1.861+1	2.500	2.500	2.111+1
820	2.500	-1.864+1	2.500	2.500	2.114+1
830	2.500	-1.867+1	2.500	2.500	2.117+1
840	2.500	-1.870+1	2.500	2.500	2.120+1
850	2.500	-1.873+1	2.500	2.500	2.123+1
860	2.500	-1.876+1	2.500	2.500	2.126+1
870	2.500	-1.879+1	2.500	2.500	2.129+1
880	2.500	-1.882+1	2.500	2.500	2.132+1
890	2.500	-1.884+1	2.500	2.500	2.134+1
900	2.500	-1.887+1	2.500	2.500	2.137+1
910	2.500	-1.890+1	2.500	2.500	2.140+1
920	2.500	-1.893+1	2.500	2.500	2.143+1
930	2.500	-1.895+1	2.500	2.500	2.145+1
940	2.500	-1.898+1	2.500	2.500	2.148+1
950	2.500	-1.901+1	2.500	2.500	2.151+1
960	2.500	-1.903+1	2.500	2.500	2.153+1
970	2.500	-1.906+1	2.500	2.500	2.156+1
980	2.500	-1.909+1	2.500	2.500	2.159+1
990	2.500	-1.911+1	2.500	2.500	2.161+1
1000	2.500	-1.914+1	2.500	2.500	2.164+1
1010	2.500	-1.916+1	2.500	2.500	2.166+1
1020	2.500	-1.918+1	2.500	2.500	2.168+1
1030	2.500	-1.921+1	2.500	2.500	2.171+1
1040	2.500	-1.923+1	2.500	2.500	2.173+1
1050	2.500	-1.926+1	2.500	2.500	2.176+1
1060	2.500	-1.928+1	2.500	2.500	2.178+1
1070	2.500	-1.930+1	2.500	2.500	2.180+1
1080	2.500	-1.933+1	2.500	2.500	2.183+1
1090	2.500	-1.935+1	2.500	2.500	2.185+1

SPECIE A

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
1100	2.500	-1.937+1	2.500	2.500	2.187+1
1110	2.500	-1.940+1	2.500	2.500	2.190+1
1120	2.500	-1.942+1	2.500	2.500	2.192+1
1130	2.500	-1.944+1	2.500	2.500	2.194+1
1140	2.500	-1.946+1	2.500	2.500	2.196+1
1150	2.500	-1.949+1	2.500	2.500	2.199+1
1160	2.500	-1.951+1	2.500	2.500	2.201+1
1170	2.500	-1.953+1	2.500	2.500	2.203+1
1180	2.500	-1.955+1	2.500	2.500	2.205+1
1190	2.500	-1.957+1	2.500	2.500	2.207+1
1200	2.500	-1.959+1	2.500	2.500	2.209+1
1210	2.500	-1.961+1	2.500	2.500	2.211+1
1220	2.500	-1.963+1	2.500	2.500	2.213+1
1230	2.500	-1.965+1	2.500	2.500	2.215+1
1240	2.500	-1.967+1	2.500	2.500	2.217+1
1250	2.500	-1.969+1	2.500	2.500	2.219+1
1260	2.500	-1.971+1	2.500	2.500	2.221+1
1270	2.500	-1.973+1	2.500	2.500	2.223+1
1280	2.500	-1.975+1	2.500	2.500	2.225+1
1290	2.500	-1.977+1	2.500	2.500	2.227+1
1300	2.500	-1.979+1	2.500	2.500	2.229+1
1310	2.500	-1.981+1	2.500	2.500	2.231+1
1320	2.500	-1.983+1	2.500	2.500	2.233+1
1330	2.500	-1.985+1	2.500	2.500	2.235+1
1340	2.500	-1.987+1	2.500	2.500	2.237+1
1350	2.500	-1.989+1	2.500	2.500	2.239+1
1360	2.500	-1.990+1	2.500	2.500	2.240+1
1370	2.500	-1.992+1	2.500	2.500	2.242+1
1380	2.500	-1.994+1	2.500	2.500	2.244+1
1390	2.500	-1.996+1	2.500	2.500	2.246+1
1400	2.500	-1.998+1	2.500	2.500	2.248+1
1410	2.500	-1.999+1	2.500	2.500	2.249+1
1420	2.500	-2.001+1	2.500	2.500	2.251+1
1430	2.500	-2.003+1	2.500	2.500	2.253+1
1440	2.500	-2.005+1	2.500	2.500	2.255+1
1450	2.500	-2.006+1	2.500	2.500	2.256+1
1460	2.500	-2.008+1	2.500	2.500	2.258+1
1470	2.500	-2.010+1	2.500	2.500	2.260+1
1480	2.500	-2.012+1	2.500	2.500	2.262+1
1490	2.500	-2.013+1	2.500	2.500	2.263+1
1500	2.500	-2.015+1	2.500	2.500	2.265+1
1510	2.500	-2.017+1	2.500	2.500	2.267+1
1520	2.500	-2.018+1	2.500	2.500	2.268+1
1530	2.500	-2.020+1	2.500	2.500	2.270+1
1540	2.500	-2.022+1	2.500	2.500	2.272+1
1550	2.500	-2.023+1	2.500	2.500	2.273+1
1560	2.500	-2.025+1	2.500	2.500	2.275+1
1570	2.500	-2.026+1	2.500	2.500	2.276+1
1580	2.500	-2.028+1	2.500	2.500	2.278+1
1590	2.500	-2.029+1	2.500	2.500	2.279+1

SPECIE A

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
1600	2.500	-2.031+1	2.500	2.500	2.281+1
1610	2.500	-2.033+1	2.500	2.500	2.283+1
1620	2.500	-2.034+1	2.500	2.500	2.284+1
1630	2.500	-2.036+1	2.500	2.500	2.286+1
1640	2.500	-2.037+1	2.500	2.500	2.287+1
1650	2.500	-2.039+1	2.500	2.500	2.289+1
1660	2.500	-2.040+1	2.500	2.500	2.290+1
1670	2.500	-2.042+1	2.500	2.500	2.292+1
1680	2.500	-2.043+1	2.500	2.500	2.293+1
1690	2.500	-2.045+1	2.500	2.500	2.295+1
1700	2.500	-2.046+1	2.500	2.500	2.296+1
1710	2.500	-2.048+1	2.500	2.500	2.298+1
1720	2.500	-2.049+1	2.500	2.500	2.299+1
1730	2.500	-2.051+1	2.500	2.500	2.301+1
1740	2.500	-2.052+1	2.500	2.500	2.302+1
1750	2.500	-2.053+1	2.500	2.500	2.303+1
1760	2.500	-2.055+1	2.500	2.500	2.305+1
1770	2.500	-2.056+1	2.500	2.500	2.306+1
1780	2.500	-2.058+1	2.500	2.500	2.308+1
1790	2.500	-2.059+1	2.500	2.500	2.309+1
1800	2.500	-2.060+1	2.500	2.500	2.310+1
1810	2.500	-2.062+1	2.500	2.500	2.312+1
1820	2.500	-2.063+1	2.500	2.500	2.313+1
1830	2.500	-2.065+1	2.500	2.500	2.315+1
1840	2.500	-2.066+1	2.500	2.500	2.316+1
1850	2.500	-2.067+1	2.500	2.500	2.317+1
1860	2.500	-2.069+1	2.500	2.500	2.319+1
1870	2.500	-2.070+1	2.500	2.500	2.320+1
1880	2.500	-2.071+1	2.500	2.500	2.321+1
1890	2.500	-2.073+1	2.500	2.500	2.323+1
1900	2.500	-2.074+1	2.500	2.500	2.324+1
1910	2.500	-2.075+1	2.500	2.500	2.325+1
1920	2.500	-2.077+1	2.500	2.500	2.327+1
1930	2.500	-2.078+1	2.500	2.500	2.328+1
1940	2.500	-2.079+1	2.500	2.500	2.329+1
1950	2.500	-2.081+1	2.500	2.500	2.331+1
1960	2.500	-2.082+1	2.500	2.500	2.332+1
1970	2.500	-2.083+1	2.500	2.500	2.333+1
1980	2.500	-2.084+1	2.500	2.500	2.334+1
1990	2.500	-2.086+1	2.500	2.500	2.336+1
2000	2.500	-2.087+1	2.500	2.500	2.337+1
2010	2.500	-2.088+1	2.500	2.500	2.338+1
2020	2.500	-2.089+1	2.500	2.500	2.339+1
2030	2.500	-2.091+1	2.500	2.500	2.341+1
2040	2.500	-2.092+1	2.500	2.500	2.342+1
2050	2.500	-2.093+1	2.500	2.500	2.343+1
2060	2.500	-2.094+1	2.500	2.500	2.344+1
2070	2.500	-2.095+1	2.500	2.500	2.345+1
2080	2.500	-2.097+1	2.500	2.500	2.347+1
2090	2.500	-2.098+1	2.500	2.500	2.348+1

SPECIE A

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
2100	2.500	-2.099+1	2.500	2.500	2.349+1
2110	2.500	-2.100+1	2.500	2.500	2.350+1
2120	2.500	-2.101+1	2.500	2.500	2.351+1
2130	2.500	-2.103+1	2.500	2.500	2.353+1
2140	2.500	-2.104+1	2.500	2.500	2.354+1
2150	2.500	-2.105+1	2.500	2.500	2.355+1
2160	2.500	-2.106+1	2.500	2.500	2.356+1
2170	2.500	-2.107+1	2.500	2.500	2.357+1
2180	2.500	-2.108+1	2.500	2.500	2.358+1
2190	2.500	-2.109+1	2.500	2.500	2.359+1
2200	2.500	-2.111+1	2.500	2.500	2.361+1
2210	2.500	-2.112+1	2.500	2.500	2.362+1
2220	2.500	-2.113+1	2.500	2.500	2.363+1
2230	2.500	-2.114+1	2.500	2.500	2.364+1
2240	2.500	-2.115+1	2.500	2.500	2.365+1
2250	2.500	-2.116+1	2.500	2.500	2.366+1
2260	2.500	-2.117+1	2.500	2.500	2.367+1
2270	2.500	-2.118+1	2.500	2.500	2.368+1
2280	2.500	-2.120+1	2.500	2.500	2.370+1
2290	2.500	-2.121+1	2.500	2.500	2.371+1
2300	2.500	-2.122+1	2.500	2.500	2.372+1
2310	2.500	-2.123+1	2.500	2.500	2.373+1
2320	2.500	-2.124+1	2.500	2.500	2.374+1
2330	2.500	-2.125+1	2.500	2.500	2.375+1
2340	2.500	-2.126+1	2.500	2.500	2.376+1
2350	2.500	-2.127+1	2.500	2.500	2.377+1
2360	2.500	-2.128+1	2.500	2.500	2.378+1
2370	2.500	-2.129+1	2.500	2.500	2.379+1
2380	2.500	-2.130+1	2.500	2.500	2.380+1
2390	2.500	-2.131+1	2.500	2.500	2.381+1
2400	2.500	-2.132+1	2.500	2.500	2.382+1
2410	2.500	-2.133+1	2.500	2.500	2.383+1
2420	2.500	-2.134+1	2.500	2.500	2.384+1
2430	2.500	-2.136+1	2.500	2.500	2.386+1
2440	2.500	-2.137+1	2.500	2.500	2.387+1
2450	2.500	-2.138+1	2.500	2.500	2.388+1
2460	2.500	-2.139+1	2.500	2.500	2.389+1
2470	2.500	-2.140+1	2.500	2.500	2.390+1
2480	2.500	-2.141+1	2.500	2.500	2.391+1
2490	2.500	-2.142+1	2.500	2.500	2.392+1
2500	2.500	-2.143+1	2.500	2.500	2.393+1
2510	2.500	-2.144+1	2.500	2.500	2.394+1
2520	2.500	-2.145+1	2.500	2.500	2.395+1
2530	2.500	-2.146+1	2.500	2.500	2.396+1
2540	2.500	-2.147+1	2.500	2.500	2.397+1
2550	2.500	-2.148+1	2.500	2.500	2.398+1
2560	2.500	-2.148+1	2.500	2.500	2.398+1
2570	2.500	-2.149+1	2.500	2.500	2.399+1
2580	2.500	-2.150+1	2.500	2.500	2.400+1
2590	2.500	-2.151+1	2.500	2.500	2.401+1

SPECIE A

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
2600	2.500	-2.152+1	2.500	2.500	2.402+1
2610	2.500	-2.153+1	2.500	2.500	2.403+1
2620	2.500	-2.154+1	2.500	2.500	2.404+1
2630	2.500	-2.155+1	2.500	2.500	2.405+1
2640	2.500	-2.156+1	2.500	2.500	2.406+1
2650	2.500	-2.157+1	2.500	2.500	2.407+1
2660	2.500	-2.158+1	2.500	2.500	2.408+1
2670	2.500	-2.159+1	2.500	2.500	2.409+1
2680	2.500	-2.160+1	2.500	2.500	2.410+1
2690	2.500	-2.161+1	2.500	2.500	2.411+1
2700	2.500	-2.162+1	2.500	2.500	2.412+1
2710	2.500	-2.163+1	2.500	2.500	2.413+1
2720	2.500	-2.164+1	2.500	2.500	2.414+1
2730	2.500	-2.165+1	2.500	2.500	2.415+1
2740	2.500	-2.166+1	2.500	2.500	2.416+1
2750	2.500	-2.166+1	2.500	2.500	2.416+1
2760	2.500	-2.167+1	2.500	2.500	2.417+1
2770	2.500	-2.168+1	2.500	2.500	2.418+1
2780	2.500	-2.169+1	2.500	2.500	2.419+1
2790	2.500	-2.170+1	2.500	2.500	2.420+1
2800	2.500	-2.171+1	2.500	2.500	2.421+1
2810	2.500	-2.172+1	2.500	2.500	2.422+1
2820	2.500	-2.173+1	2.500	2.500	2.423+1
2830	2.500	-2.174+1	2.500	2.500	2.424+1
2840	2.500	-2.174+1	2.500	2.500	2.424+1
2850	2.500	-2.175+1	2.500	2.500	2.425+1
2860	2.500	-2.176+1	2.500	2.500	2.426+1
2870	2.500	-2.177+1	2.500	2.500	2.427+1
2880	2.500	-2.178+1	2.500	2.500	2.428+1
2890	2.500	-2.179+1	2.500	2.500	2.429+1
2900	2.500	-2.180+1	2.500	2.500	2.430+1
2910	2.500	-2.181+1	2.500	2.500	2.431+1
2920	2.500	-2.181+1	2.500	2.500	2.431+1
2930	2.500	-2.182+1	2.500	2.500	2.432+1
2940	2.500	-2.183+1	2.500	2.500	2.433+1
2950	2.500	-2.184+1	2.500	2.500	2.434+1
2960	2.500	-2.185+1	2.500	2.500	2.435+1
2970	2.500	-2.186+1	2.500	2.500	2.436+1
2980	2.500	-2.186+1	2.500	2.500	2.436+1
2990	2.500	-2.187+1	2.500	2.500	2.437+1
3000	2.500	-2.188+1	2.500	2.500	2.438+1
3010	2.500	-2.189+1	2.500	2.500	2.439+1
3020	2.500	-2.190+1	2.500	2.500	2.440+1
3030	2.500	-2.191+1	2.500	2.500	2.441+1
3040	2.500	-2.191+1	2.500	2.500	2.441+1
3050	2.500	-2.192+1	2.500	2.500	2.442+1
3060	2.500	-2.193+1	2.500	2.500	2.443+1
3070	2.500	-2.194+1	2.500	2.500	2.444+1
3080	2.500	-2.195+1	2.500	2.500	2.445+1
3090	2.500	-2.196+1	2.500	2.500	2.446+1

SPECIE A

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
3100	2.500	-2.196+1	2.500	2.500	2.446+1
3110	2.500	-2.197+1	2.500	2.500	2.447+1
3120	2.500	-2.198+1	2.500	2.500	2.448+1
3130	2.500	-2.199+1	2.500	2.500	2.449+1
3140	2.500	-2.200+1	2.500	2.500	2.450+1
3150	2.500	-2.200+1	2.500	2.500	2.450+1
3160	2.500	-2.201+1	2.500	2.500	2.451+1
3170	2.500	-2.202+1	2.500	2.500	2.452+1
3180	2.500	-2.203+1	2.500	2.500	2.453+1
3190	2.500	-2.204+1	2.500	2.500	2.454+1
3200	2.500	-2.204+1	2.500	2.500	2.454+1
3210	2.500	-2.205+1	2.500	2.500	2.455+1
3220	2.500	-2.206+1	2.500	2.500	2.456+1
3230	2.500	-2.207+1	2.500	2.500	2.457+1
3240	2.500	-2.207+1	2.500	2.500	2.457+1
3250	2.500	-2.208+1	2.500	2.500	2.458+1
3260	2.500	-2.209+1	2.500	2.500	2.459+1
3270	2.500	-2.210+1	2.500	2.500	2.460+1
3280	2.500	-2.211+1	2.500	2.500	2.461+1
3290	2.500	-2.211+1	2.500	2.500	2.461+1
3300	2.500	-2.212+1	2.500	2.500	2.462+1
3310	2.500	-2.213+1	2.500	2.500	2.463+1
3320	2.500	-2.214+1	2.500	2.500	2.464+1
3330	2.500	-2.214+1	2.500	2.500	2.464+1
3340	2.500	-2.215+1	2.500	2.500	2.465+1
3350	2.500	-2.216+1	2.500	2.500	2.466+1
3360	2.500	-2.217+1	2.500	2.500	2.467+1
3370	2.500	-2.217+1	2.500	2.500	2.467+1
3380	2.500	-2.218+1	2.500	2.500	2.468+1
3390	2.500	-2.219+1	2.500	2.500	2.469+1
3400	2.500	-2.219+1	2.500	2.500	2.469+1
3410	2.500	-2.220+1	2.500	2.500	2.470+1
3420	2.500	-2.221+1	2.500	2.500	2.471+1
3430	2.500	-2.222+1	2.500	2.500	2.472+1
3440	2.500	-2.222+1	2.500	2.500	2.472+1
3450	2.500	-2.223+1	2.500	2.500	2.473+1
3460	2.500	-2.224+1	2.500	2.500	2.474+1
3470	2.500	-2.225+1	2.500	2.500	2.475+1
3480	2.500	-2.225+1	2.500	2.500	2.475+1
3490	2.500	-2.226+1	2.500	2.500	2.476+1
3500	2.500	-2.227+1	2.500	2.500	2.477+1
3510	2.500	-2.227+1	2.500	2.500	2.477+1
3520	2.500	-2.228+1	2.500	2.500	2.478+1
3530	2.500	-2.229+1	2.500	2.500	2.479+1
3540	2.500	-2.230+1	2.500	2.500	2.480+1
3550	2.500	-2.230+1	2.500	2.500	2.480+1
3560	2.500	-2.231+1	2.500	2.500	2.481+1
3570	2.500	-2.232+1	2.500	2.500	2.482+1
3580	2.500	-2.232+1	2.500	2.500	2.482+1
3590	2.500	-2.233+1	2.500	2.500	2.483+1

SPECIE A

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
3600	2.500	-2.234+1	2.500	2.500	2.484+1
3610	2.500	-2.234+1	2.500	2.500	2.484+1
3620	2.500	-2.235+1	2.500	2.500	2.485+1
3630	2.500	-2.236+1	2.500	2.500	2.486+1
3640	2.500	-2.237+1	2.500	2.500	2.487+1
3650	2.500	-2.237+1	2.500	2.500	2.487+1
3660	2.500	-2.238+1	2.500	2.500	2.488+1
3670	2.500	-2.239+1	2.500	2.500	2.489+1
3680	2.500	-2.239+1	2.500	2.500	2.489+1
3690	2.500	-2.240+1	2.500	2.500	2.490+1
3700	2.500	-2.241+1	2.500	2.500	2.491+1
3710	2.500	-2.241+1	2.500	2.500	2.491+1
3720	2.500	-2.242+1	2.500	2.500	2.492+1
3730	2.500	-2.243+1	2.500	2.500	2.493+1
3740	2.500	-2.243+1	2.500	2.500	2.493+1
3750	2.500	-2.244+1	2.500	2.500	2.494+1
3760	2.500	-2.245+1	2.500	2.500	2.495+1
3770	2.500	-2.245+1	2.500	2.500	2.495+1
3780	2.500	-2.246+1	2.500	2.500	2.496+1
3790	2.500	-2.247+1	2.500	2.500	2.497+1
3800	2.500	-2.247+1	2.500	2.500	2.497+1
3810	2.500	-2.248+1	2.500	2.500	2.498+1
3820	2.500	-2.249+1	2.500	2.500	2.499+1
3830	2.500	-2.249+1	2.500	2.500	2.499+1
3840	2.500	-2.250+1	2.500	2.500	2.500+1
3850	2.500	-2.251+1	2.500	2.500	2.501+1
3860	2.500	-2.251+1	2.500	2.500	2.501+1
3870	2.500	-2.252+1	2.500	2.500	2.502+1
3880	2.500	-2.253+1	2.500	2.500	2.503+1
3890	2.500	-2.253+1	2.500	2.500	2.503+1
3900	2.500	-2.254+1	2.500	2.500	2.504+1
3910	2.500	-2.254+1	2.500	2.500	2.504+1
3920	2.500	-2.255+1	2.500	2.500	2.505+1
3930	2.500	-2.256+1	2.500	2.500	2.506+1
3940	2.500	-2.256+1	2.500	2.500	2.506+1
3950	2.500	-2.257+1	2.500	2.500	2.507+1
3960	2.500	-2.258+1	2.500	2.500	2.508+1
3970	2.500	-2.258+1	2.500	2.500	2.508+1
3980	2.500	-2.259+1	2.500	2.500	2.509+1
3990	2.500	-2.259+1	2.500	2.500	2.509+1
4000	2.500	-2.260+1	2.500	2.500	2.510+1
4010	2.500	-2.261+1	2.500	2.500	2.511+1
4020	2.500	-2.261+1	2.500	2.500	2.511+1
4030	2.500	-2.262+1	2.500	2.500	2.512+1
4040	2.500	-2.263+1	2.500	2.500	2.513+1
4050	2.500	-2.263+1	2.500	2.500	2.513+1
4060	2.500	-2.264+1	2.500	2.500	2.514+1
4070	2.500	-2.264+1	2.500	2.500	2.514+1
4080	2.500	-2.265+1	2.500	2.500	2.515+1
4090	2.500	-2.266+1	2.500	2.500	2.516+1

SPECIE A

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
4100	2.500	-2.266+1	2.500	2.500	2.516+1
4110	2.500	-2.267+1	2.500	2.500	2.517+1
4120	2.500	-2.267+1	2.500	2.500	2.517+1
4130	2.500	-2.268+1	2.500	2.500	2.518+1
4140	2.500	-2.269+1	2.500	2.500	2.519+1
4150	2.500	-2.269+1	2.500	2.500	2.519+1
4160	2.500	-2.270+1	2.500	2.500	2.520+1
4170	2.500	-2.271+1	2.500	2.500	2.521+1
4180	2.500	-2.271+1	2.500	2.500	2.521+1
4190	2.500	-2.272+1	2.500	2.500	2.522+1
4200	2.500	-2.272+1	2.500	2.500	2.522+1
4210	2.500	-2.273+1	2.500	2.500	2.523+1
4220	2.500	-2.273+1	2.500	2.500	2.523+1
4230	2.500	-2.274+1	2.500	2.500	2.524+1
4240	2.500	-2.275+1	2.500	2.500	2.525+1
4250	2.500	-2.275+1	2.500	2.500	2.525+1
4260	2.500	-2.276+1	2.500	2.500	2.526+1
4270	2.500	-2.276+1	2.500	2.500	2.526+1
4280	2.500	-2.277+1	2.500	2.500	2.527+1
4290	2.500	-2.278+1	2.500	2.500	2.528+1
4300	2.500	-2.278+1	2.500	2.500	2.528+1
4310	2.500	-2.279+1	2.500	2.500	2.529+1
4320	2.500	-2.279+1	2.500	2.500	2.529+1
4330	2.500	-2.280+1	2.500	2.500	2.530+1
4340	2.500	-2.281+1	2.500	2.500	2.531+1
4350	2.500	-2.281+1	2.500	2.500	2.531+1
4360	2.500	-2.282+1	2.500	2.500	2.532+1
4370	2.500	-2.282+1	2.500	2.500	2.532+1
4380	2.500	-2.283+1	2.500	2.500	2.533+1
4390	2.500	-2.283+1	2.500	2.500	2.533+1
4400	2.500	-2.284+1	2.500	2.500	2.534+1
4410	2.500	-2.285+1	2.500	2.500	2.535+1
4420	2.500	-2.285+1	2.500	2.500	2.535+1
4430	2.500	-2.286+1	2.500	2.500	2.536+1
4440	2.500	-2.286+1	2.500	2.500	2.536+1
4450	2.500	-2.287+1	2.500	2.500	2.537+1
4460	2.500	-2.287+1	2.500	2.500	2.537+1
4470	2.500	-2.288+1	2.500	2.500	2.538+1
4480	2.500	-2.288+1	2.500	2.500	2.538+1
4490	2.500	-2.289+1	2.500	2.500	2.539+1
4500	2.500	-2.290+1	2.500	2.500	2.540+1
4510	2.500	-2.290+1	2.500	2.500	2.540+1
4520	2.500	-2.291+1	2.500	2.500	2.541+1
4530	2.500	-2.291+1	2.500	2.500	2.541+1
4540	2.500	-2.292+1	2.500	2.500	2.542+1
4550	2.500	-2.292+1	2.500	2.500	2.542+1
4560	2.500	-2.293+1	2.500	2.500	2.543+1
4570	2.500	-2.293+1	2.500	2.500	2.543+1
4580	2.500	-2.294+1	2.500	2.500	2.544+1
4590	2.500	-2.295+1	2.500	2.500	2.545+1

SPECIE A

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
4600	2.500	-2.295+1	2.500	2.500	2.545+1
4610	2.500	-2.296+1	2.500	2.500	2.546+1
4620	2.500	-2.296+1	2.500	2.500	2.546+1
4630	2.500	-2.297+1	2.500	2.500	2.547+1
4640	2.500	-2.297+1	2.500	2.500	2.547+1
4650	2.500	-2.298+1	2.500	2.500	2.548+1
4660	2.500	-2.298+1	2.500	2.500	2.548+1
4670	2.500	-2.299+1	2.500	2.500	2.549+1
4680	2.500	-2.299+1	2.500	2.500	2.549+1
4690	2.500	-2.300+1	2.500	2.500	2.550+1
4700	2.500	-2.300+1	2.500	2.500	2.550+1
4710	2.500	-2.301+1	2.500	2.500	2.551+1
4720	2.500	-2.301+1	2.500	2.500	2.551+1
4730	2.500	-2.302+1	2.500	2.500	2.552+1
4740	2.500	-2.303+1	2.500	2.500	2.553+1
4750	2.500	-2.303+1	2.500	2.500	2.553+1
4760	2.500	-2.304+1	2.500	2.500	2.554+1
4770	2.500	-2.304+1	2.500	2.500	2.554+1
4780	2.500	-2.305+1	2.500	2.500	2.555+1
4790	2.500	-2.305+1	2.500	2.500	2.555+1
4800	2.500	-2.306+1	2.500	2.500	2.556+1
4810	2.500	-2.306+1	2.500	2.500	2.556+1
4820	2.500	-2.307+1	2.500	2.500	2.557+1
4830	2.500	-2.307+1	2.500	2.500	2.557+1
4840	2.500	-2.308+1	2.500	2.500	2.558+1
4850	2.500	-2.308+1	2.500	2.500	2.558+1
4860	2.500	-2.309+1	2.500	2.500	2.559+1
4870	2.500	-2.309+1	2.500	2.500	2.559+1
4880	2.500	-2.310+1	2.500	2.500	2.560+1
4890	2.500	-2.310+1	2.500	2.500	2.560+1
4900	2.500	-2.311+1	2.500	2.500	2.561+1
4910	2.500	-2.311+1	2.500	2.500	2.561+1
4920	2.500	-2.312+1	2.500	2.500	2.562+1
4930	2.500	-2.312+1	2.500	2.500	2.562+1
4940	2.500	-2.313+1	2.500	2.500	2.563+1
4950	2.500	-2.313+1	2.500	2.500	2.563+1
4960	2.500	-2.314+1	2.500	2.500	2.564+1
4970	2.500	-2.314+1	2.500	2.500	2.564+1
4980	2.500	-2.315+1	2.500	2.500	2.565+1
4990	2.500	-2.315+1	2.500	2.500	2.565+1
5000	2.500	-2.316+1	2.500	2.500	2.566+1
5010	2.500	-2.316+1	2.500	2.500	2.566+1
5020	2.500	-2.317+1	2.500	2.500	2.567+1
5030	2.500	-2.317+1	2.500	2.500	2.567+1
5040	2.500	-2.318+1	2.500	2.500	2.568+1
5050	2.500	-2.318+1	2.500	2.500	2.568+1
5060	2.500	-2.319+1	2.500	2.500	2.569+1
5070	2.500	-2.319+1	2.500	2.500	2.569+1
5080	2.500	-2.320+1	2.500	2.500	2.570+1
5090	2.500	-2.320+1	2.500	2.500	2.570+1

SPECIE A

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
5100	2.500	-2.321+1	2.500	2.500	2.571+1
5110	2.500	-2.321+1	2.500	2.500	2.571+1
5120	2.500	-2.322+1	2.500	2.500	2.572+1
5130	2.500	-2.322+1	2.500	2.500	2.572+1
5140	2.500	-2.323+1	2.500	2.500	2.573+1
5150	2.500	-2.323+1	2.500	2.500	2.573+1
5160	2.500	-2.324+1	2.500	2.500	2.574+1
5170	2.500	-2.324+1	2.500	2.500	2.574+1
5180	2.500	-2.325+1	2.500	2.500	2.575+1
5190	2.500	-2.325+1	2.500	2.500	2.575+1
5200	2.500	-2.326+1	2.500	2.500	2.576+1
5210	2.500	-2.326+1	2.500	2.500	2.576+1
5220	2.500	-2.327+1	2.500	2.500	2.577+1
5230	2.500	-2.327+1	2.500	2.500	2.577+1
5240	2.500	-2.328+1	2.500	2.500	2.578+1
5250	2.500	-2.328+1	2.500	2.500	2.578+1
5260	2.500	-2.329+1	2.500	2.500	2.579+1
5270	2.500	-2.329+1	2.500	2.500	2.579+1
5280	2.500	-2.330+1	2.500	2.500	2.580+1
5290	2.500	-2.330+1	2.500	2.500	2.580+1
5300	2.500	-2.330+1	2.500	2.500	2.580+1
5310	2.500	-2.331+1	2.500	2.500	2.581+1
5320	2.500	-2.331+1	2.500	2.500	2.581+1
5330	2.500	-2.332+1	2.500	2.500	2.582+1
5340	2.500	-2.332+1	2.500	2.500	2.582+1
5350	2.500	-2.333+1	2.500	2.500	2.583+1
5360	2.500	-2.333+1	2.500	2.500	2.583+1
5370	2.500	-2.334+1	2.500	2.500	2.584+1
5380	2.500	-2.334+1	2.500	2.500	2.584+1
5390	2.500	-2.335+1	2.500	2.500	2.585+1
5400	2.500	-2.335+1	2.500	2.500	2.585+1
5410	2.500	-2.336+1	2.500	2.500	2.586+1
5420	2.500	-2.336+1	2.500	2.500	2.586+1
5430	2.500	-2.336+1	2.500	2.500	2.586+1
5440	2.500	-2.337+1	2.500	2.500	2.587+1
5450	2.500	-2.337+1	2.500	2.500	2.587+1
5460	2.500	-2.338+1	2.500	2.500	2.588+1
5470	2.500	-2.338+1	2.500	2.500	2.588+1
5480	2.500	-2.339+1	2.500	2.500	2.589+1
5490	2.500	-2.339+1	2.500	2.500	2.589+1
5500	2.500	-2.340+1	2.500	2.500	2.590+1
5510	2.500	-2.340+1	2.500	2.500	2.590+1
5520	2.500	-2.341+1	2.500	2.500	2.591+1
5530	2.500	-2.341+1	2.500	2.500	2.591+1
5540	2.500	-2.342+1	2.500	2.500	2.592+1
5550	2.500	-2.342+1	2.500	2.500	2.592+1
5560	2.500	-2.342+1	2.500	2.500	2.592+1
5570	2.500	-2.343+1	2.500	2.500	2.593+1
5580	2.500	-2.343+1	2.500	2.500	2.593+1
5590	2.500	-2.344+1	2.500	2.500	2.594+1

SPECIE A

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
5600	2.500	-2.344+1	2.500	2.500	2.594+1
5610	2.500	-2.345+1	2.500	2.500	2.595+1
5620	2.500	-2.345+1	2.500	2.500	2.595+1
5630	2.500	-2.346+1	2.500	2.500	2.596+1
5640	2.500	-2.346+1	2.500	2.500	2.596+1
5650	2.500	-2.346+1	2.500	2.500	2.596+1
5660	2.500	-2.347+1	2.500	2.500	2.597+1
5670	2.500	-2.347+1	2.500	2.500	2.597+1
5680	2.500	-2.348+1	2.500	2.500	2.598+1
5690	2.500	-2.348+1	2.500	2.500	2.598+1
5700	2.500	-2.349+1	2.500	2.500	2.599+1
5710	2.500	-2.349+1	2.500	2.500	2.599+1
5720	2.500	-2.350+1	2.500	2.500	2.600+1
5730	2.500	-2.350+1	2.500	2.500	2.600+1
5740	2.500	-2.350+1	2.500	2.500	2.600+1
5750	2.500	-2.351+1	2.500	2.500	2.601+1
5760	2.500	-2.351+1	2.500	2.500	2.601+1
5770	2.500	-2.352+1	2.500	2.500	2.602+1
5780	2.500	-2.352+1	2.500	2.500	2.602+1
5790	2.500	-2.353+1	2.500	2.500	2.603+1
5800	2.500	-2.353+1	2.500	2.500	2.603+1
5810	2.500	-2.353+1	2.500	2.500	2.603+1
5820	2.500	-2.354+1	2.500	2.500	2.604+1
5830	2.500	-2.354+1	2.500	2.500	2.604+1
5840	2.500	-2.355+1	2.500	2.500	2.605+1
5850	2.500	-2.355+1	2.500	2.500	2.605+1
5860	2.500	-2.356+1	2.500	2.500	2.606+1
5870	2.500	-2.356+1	2.500	2.500	2.606+1
5880	2.500	-2.356+1	2.500	2.500	2.606+1
5890	2.500	-2.357+1	2.500	2.500	2.607+1
5900	2.500	-2.357+1	2.500	2.500	2.607+1
5910	2.500	-2.358+1	2.500	2.500	2.608+1
5920	2.500	-2.358+1	2.500	2.500	2.608+1
5930	2.500	-2.359+1	2.500	2.500	2.609+1
5940	2.500	-2.359+1	2.500	2.500	2.609+1
5950	2.500	-2.359+1	2.500	2.500	2.609+1
5960	2.500	-2.360+1	2.500	2.500	2.610+1
5970	2.500	-2.360+1	2.500	2.500	2.610+1
5980	2.500	-2.361+1	2.500	2.500	2.611+1
5990	2.500	-2.361+1	2.500	2.500	2.611+1
6000	2.500	-2.361+1	2.500	2.500	2.611+1

SPECIE C(G)

MOLECULAR WEIGHT EQUALS 12.01139

DELTA E ZERO EQUALS 169.988 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(NBS 6484, 7/1/59) (8)

THERMAL

(NBS 6484, 7/1/59) (8)

SPECIE C(G)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN PCV
100	2.559	-1.341+1	2.839	8.583+2	1.625+1	-8.421+2
110	2.551	-1.366+1	2.816	7.930+2	1.647+1	-7.766+2
120	2.545	-1.389+1	2.795	7.338+2	1.669+1	-7.172+2
130	2.539	-1.411+1	2.776	6.803+2	1.689+1	-6.635+2
140	2.534	-1.432+1	2.759	6.321+2	1.708+1	-6.151+2
150	2.529	-1.451+1	2.743	5.886+2	1.725+1	-5.714+2
160	2.525	-1.469+1	2.729	5.496+2	1.742+1	-5.323+2
170	2.522	-1.486+1	2.716	5.146+2	1.758+1	-4.971+2
180	2.519	-1.502+1	2.704	4.833+2	1.773+1	-4.657+2
190	2.517	-1.517+1	2.694	4.553+2	1.787+1	-4.376+2
200	2.514	-1.532+1	2.684	4.304+2	1.800+1	-4.125+2
210	2.513	-1.545+1	2.676	4.082+2	1.812+1	-3.902+2
220	2.511	-1.558+1	2.668	3.884+2	1.824+1	-3.703+2
230	2.510	-1.570+1	2.661	3.707+2	1.836+1	-3.525+2
240	2.509	-1.581+1	2.654	3.549+2	1.846+1	-3.366+2
250	2.509	-1.592+1	2.648	3.408+2	1.857+1	-3.224+2
260	2.508	-1.602+1	2.643	3.281+2	1.866+1	-3.097+2
270	2.507	-1.612+1	2.638	3.166+2	1.876+1	-2.981+2
280	2.507	-1.621+1	2.634	3.062+2	1.885+1	-2.876+2
290	2.507	-1.630+1	2.630	2.966+2	1.893+1	-2.780+2
300	2.506	-1.639+1	2.626	2.878+2	1.902+1	-2.690+2
310	2.506	-1.648+1	2.622	2.784+2	1.910+1	-2.595+2
320	2.505	-1.656+1	2.618	2.696+2	1.918+1	-2.507+2
330	2.505	-1.664+1	2.615	2.614+2	1.926+1	-2.424+2
340	2.505	-1.672+1	2.612	2.537+2	1.933+1	-2.347+2
350	2.504	-1.680+1	2.609	2.465+2	1.940+1	-2.275+2
360	2.504	-1.687+1	2.606	2.398+2	1.947+1	-2.207+2
370	2.504	-1.694+1	2.603	2.335+2	1.954+1	-2.143+2
380	2.504	-1.701+1	2.600	2.275+2	1.961+1	-2.083+2
390	2.504	-1.708+1	2.598	2.218+2	1.967+1	-2.025+2
400	2.503	-1.714+1	2.596	2.164+2	1.974+1	-1.971+2
410	2.503	-1.721+1	2.593	2.113+2	1.980+1	-1.920+2
420	2.503	-1.727+1	2.591	2.065+2	1.986+1	-1.871+2
430	2.503	-1.733+1	2.589	2.018+2	1.992+1	-1.824+2
440	2.503	-1.739+1	2.587	1.973+2	1.998+1	-1.779+2
450	2.503	-1.745+1	2.585	1.930+2	2.003+1	-1.735+2
460	2.503	-1.750+1	2.583	1.889+2	2.009+1	-1.693+2
470	2.503	-1.756+1	2.582	1.849+2	2.014+1	-1.653+2
480	2.502	-1.761+1	2.580	1.810+2	2.019+1	-1.614+2
490	2.502	-1.767+1	2.579	1.773+2	2.025+1	-1.576+2
500	2.502	-1.772+1	2.577	1.737+2	2.030+1	-1.539+2
510	2.502	-1.777+1	2.576	1.703+2	2.035+1	-1.506+2
520	2.502	-1.782+1	2.574	1.671+2	2.039+1	-1.473+2
530	2.502	-1.787+1	2.573	1.640+2	2.044+1	-1.442+2
540	2.502	-1.792+1	2.571	1.611+2	2.049+1	-1.412+2
550	2.502	-1.796+1	2.570	1.582+2	2.053+1	-1.383+2
560	2.502	-1.801+1	2.569	1.554+2	2.058+1	-1.355+2
570	2.502	-1.806+1	2.568	1.527+2	2.062+1	-1.328+2
580	2.502	-1.810+1	2.567	1.501+2	2.067+1	-1.302+2
590	2.502	-1.814+1	2.565	1.476+2	2.071+1	-1.276+2

SPECIE C(G)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN PCV
600	2.501	-1.819+1	2.564	1.451+2	2.075+1	-1.251+2
610	2.501	-1.823+1	2.563	1.428+2	2.079+1	-1.228+2
620	2.501	-1.827+1	2.562	1.405+2	2.083+1	-1.205+2
630	2.501	-1.831+1	2.561	1.384+2	2.087+1	-1.183+2
640	2.501	-1.835+1	2.560	1.362+2	2.091+1	-1.161+2
650	2.501	-1.839+1	2.560	1.342+2	2.095+1	-1.141+2
660	2.501	-1.843+1	2.559	1.322+2	2.099+1	-1.121+2
670	2.501	-1.847+1	2.558	1.303+2	2.103+1	-1.101+2
680	2.501	-1.851+1	2.557	1.284+2	2.107+1	-1.082+2
690	2.501	-1.855+1	2.556	1.265+2	2.110+1	-1.063+2
700	2.501	-1.858+1	2.555	1.248+2	2.114+1	-1.045+2
710	2.501	-1.862+1	2.555	1.230+2	2.117+1	-1.028+2
720	2.501	-1.865+1	2.554	1.214+2	2.121+1	-1.011+2
730	2.501	-1.869+1	2.553	1.197+2	2.124+1	-9.947+1
740	2.501	-1.872+1	2.552	1.182+2	2.128+1	-9.787+1
750	2.501	-1.876+1	2.552	1.166+2	2.131+1	-9.631+1
760	2.501	-1.879+1	2.551	1.151+2	2.134+1	-9.479+1
770	2.501	-1.883+1	2.550	1.137+2	2.138+1	-9.331+1
780	2.501	-1.886+1	2.550	1.122+2	2.141+1	-9.187+1
790	2.501	-1.889+1	2.549	1.108+2	2.144+1	-9.046+1
800	2.501	-1.892+1	2.549	1.095+2	2.147+1	-8.909+1
810	2.501	-1.896+1	2.548	1.082+2	2.150+1	-8.775+1
820	2.501	-1.899+1	2.547	1.069+2	2.153+1	-8.645+1
830	2.501	-1.902+1	2.547	1.056+2	2.156+1	-8.518+1
840	2.501	-1.905+1	2.546	1.044+2	2.159+1	-8.394+1
850	2.501	-1.908+1	2.546	1.032+2	2.162+1	-8.273+1
860	2.501	-1.911+1	2.545	1.020+2	2.165+1	-8.154+1
870	2.501	-1.914+1	2.545	1.009+2	2.168+1	-8.039+1
880	2.501	-1.917+1	2.544	9.975+1	2.171+1	-7.926+1
890	2.501	-1.919+1	2.544	9.856+1	2.174+1	-7.815+1
900	2.501	-1.922+1	2.543	9.759+1	2.177+1	-7.707+1
910	2.501	-1.925+1	2.543	9.654+1	2.179+1	-7.601+1
920	2.501	-1.928+1	2.542	9.552+1	2.182+1	-7.498+1
930	2.501	-1.931+1	2.542	9.452+1	2.185+1	-7.397+1
940	2.501	-1.933+1	2.542	9.355+1	2.188+1	-7.298+1
950	2.501	-1.936+1	2.541	9.259+1	2.190+1	-7.201+1
960	2.501	-1.939+1	2.541	9.165+1	2.193+1	-7.106+1
970	2.501	-1.941+1	2.540	9.073+1	2.195+1	-7.013+1
980	2.501	-1.944+1	2.540	8.983+1	2.198+1	-6.922+1
990	2.500	-1.947+1	2.539	8.895+1	2.200+1	-6.833+1
1000	2.500	-1.949+1	2.539	8.808+1	2.203+1	-6.745+1
1010	2.500	-1.952+1	2.539	8.723+1	2.205+1	-6.659+1
1020	2.500	-1.954+1	2.538	8.640+1	2.208+1	-6.575+1
1030	2.500	-1.957+1	2.538	8.559+1	2.210+1	-6.493+1
1040	2.500	-1.959+1	2.538	8.479+1	2.213+1	-6.412+1
1050	2.500	-1.961+1	2.537	8.401+1	2.215+1	-6.333+1
1060	2.500	-1.964+1	2.537	8.324+1	2.218+1	-6.255+1
1070	2.500	-1.966+1	2.537	8.248+1	2.220+1	-6.179+1
1080	2.500	-1.969+1	2.536	8.174+1	2.222+1	-6.104+1
1090	2.500	-1.971+1	2.536	8.101+1	2.225+1	-6.031+1

TEMP	CP/R	SPECIE C(G)					LN PCV
		(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R		
1100	2.500	-1.973+1	2.536	8.030+1	2.227+1	-5.959+1	
1110	2.500	-1.976+1	2.535	7.960+1	2.229+1	-5.888+1	
1120	2.501	-1.978+1	2.535	7.891+1	2.231+1	-5.818+1	
1130	2.501	-1.980+1	2.535	7.823+1	2.234+1	-5.750+1	
1140	2.501	-1.982+1	2.534	7.757+1	2.236+1	-5.683+1	
1150	2.501	-1.985+1	2.534	7.692+1	2.238+1	-5.617+1	
1160	2.501	-1.987+1	2.534	7.628+1	2.240+1	-5.552+1	
1170	2.501	-1.989+1	2.533	7.565+1	2.242+1	-5.488+1	
1180	2.501	-1.991+1	2.533	7.502+1	2.244+1	-5.425+1	
1190	2.501	-1.993+1	2.533	7.442+1	2.246+1	-5.364+1	
1200	2.501	-1.995+1	2.533	7.382+1	2.249+1	-5.303+1	
1210	2.501	-1.997+1	2.532	7.323+1	2.251+1	-5.244+1	
1220	2.501	-1.999+1	2.532	7.265+1	2.253+1	-5.185+1	
1230	2.501	-2.002+1	2.532	7.208+1	2.255+1	-5.127+1	
1240	2.501	-2.004+1	2.532	7.152+1	2.257+1	-5.071+1	
1250	2.501	-2.006+1	2.531	7.096+1	2.259+1	-5.015+1	
1260	2.501	-2.008+1	2.531	7.042+1	2.261+1	-4.960+1	
1270	2.501	-2.010+1	2.531	6.989+1	2.263+1	-4.906+1	
1280	2.501	-2.012+1	2.531	6.936+1	2.265+1	-4.853+1	
1290	2.501	-2.014+1	2.530	6.884+1	2.267+1	-4.800+1	
1300	2.501	-2.016+1	2.530	6.833+1	2.269+1	-4.749+1	
1310	2.501	-2.017+1	2.530	6.783+1	2.271+1	-4.698+1	
1320	2.502	-2.019+1	2.530	6.733+1	2.272+1	-4.648+1	
1330	2.502	-2.021+1	2.530	6.685+1	2.274+1	-4.599+1	
1340	2.502	-2.023+1	2.529	6.637+1	2.276+1	-4.550+1	
1350	2.502	-2.025+1	2.529	6.589+1	2.278+1	-4.502+1	
1360	2.502	-2.027+1	2.529	6.543+1	2.280+1	-4.455+1	
1370	2.502	-2.029+1	2.529	6.497+1	2.282+1	-4.409+1	
1380	2.502	-2.031+1	2.529	6.451+1	2.284+1	-4.363+1	
1390	2.502	-2.033+1	2.528	6.407+1	2.285+1	-4.318+1	
1400	2.502	-2.034+1	2.528	6.363+1	2.287+1	-4.274+1	
1410	2.502	-2.036+1	2.528	6.320+1	2.289+1	-4.230+1	
1420	2.502	-2.038+1	2.528	6.277+1	2.291+1	-4.187+1	
1430	2.502	-2.040+1	2.528	6.235+1	2.292+1	-4.144+1	
1440	2.502	-2.041+1	2.527	6.193+1	2.294+1	-4.102+1	
1450	2.503	-2.043+1	2.527	6.152+1	2.296+1	-4.061+1	
1460	2.503	-2.045+1	2.527	6.112+1	2.298+1	-4.020+1	
1470	2.503	-2.047+1	2.527	6.072+1	2.299+1	-3.980+1	
1480	2.503	-2.048+1	2.527	6.032+1	2.301+1	-3.940+1	
1490	2.503	-2.050+1	2.527	5.994+1	2.303+1	-3.901+1	
1500	2.503	-2.052+1	2.526	5.955+1	2.304+1	-3.862+1	
1510	2.504	-2.053+1	2.526	5.918+1	2.306+1	-3.824+1	
1520	2.504	-2.055+1	2.526	5.880+1	2.308+1	-3.786+1	
1530	2.504	-2.057+1	2.526	5.844+1	2.309+1	-3.749+1	
1540	2.504	-2.058+1	2.526	5.807+1	2.311+1	-3.712+1	
1550	2.504	-2.060+1	2.526	5.771+1	2.313+1	-3.676+1	
1560	2.504	-2.062+1	2.526	5.736+1	2.314+1	-3.641+1	
1570	2.504	-2.063+1	2.525	5.701+1	2.316+1	-3.605+1	
1580	2.505	-2.065+1	2.525	5.667+1	2.317+1	-3.570+1	
1590	2.505	-2.066+1	2.525	5.632+1	2.319+1	-3.536+1	

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN PCV
1600	2.505	-2.068+1	2.525	5.599+1	2.321+1	-3.502+1
1610	2.505	-2.070+1	2.525	5.566+1	2.322+1	-3.469+1
1620	2.505	-2.071+1	2.525	5.533+1	2.324+1	-3.436+1
1630	2.506	-2.073+1	2.525	5.500+1	2.325+1	-3.403+1
1640	2.506	-2.074+1	2.525	5.468+1	2.327+1	-3.370+1
1650	2.506	-2.076+1	2.525	5.437+1	2.328+1	-3.339+1
1660	2.507	-2.077+1	2.524	5.406+1	2.330+1	-3.307+1
1670	2.507	-2.079+1	2.524	5.375+1	2.331+1	-3.276+1
1680	2.507	-2.080+1	2.524	5.344+1	2.333+1	-3.245+1
1690	2.508	-2.082+1	2.524	5.314+1	2.334+1	-3.215+1
1700	2.508	-2.083+1	2.524	5.284+1	2.336+1	-3.185+1
1710	2.508	-2.085+1	2.524	5.255+1	2.337+1	-3.155+1
1720	2.509	-2.086+1	2.524	5.226+1	2.339+1	-3.125+1
1730	2.509	-2.088+1	2.524	5.197+1	2.340+1	-3.096+1
1740	2.509	-2.089+1	2.524	5.169+1	2.342+1	-3.068+1
1750	2.509	-2.091+1	2.524	5.140+1	2.343+1	-3.039+1
1760	2.510	-2.092+1	2.523	5.113+1	2.344+1	-3.011+1
1770	2.510	-2.094+1	2.523	5.085+1	2.346+1	-2.984+1
1780	2.510	-2.095+1	2.523	5.058+1	2.347+1	-2.956+1
1790	2.511	-2.096+1	2.523	5.031+1	2.349+1	-2.929+1
1800	2.511	-2.098+1	2.523	5.005+1	2.350+1	-2.903+1
1810	2.511	-2.099+1	2.523	4.978+1	2.351+1	-2.876+1
1820	2.512	-2.101+1	2.523	4.952+1	2.353+1	-2.850+1
1830	2.512	-2.102+1	2.523	4.927+1	2.354+1	-2.824+1
1840	2.512	-2.103+1	2.523	4.901+1	2.356+1	-2.798+1
1850	2.513	-2.105+1	2.523	4.876+1	2.357+1	-2.773+1
1860	2.513	-2.106+1	2.523	4.851+1	2.358+1	-2.748+1
1870	2.514	-2.107+1	2.523	4.827+1	2.360+1	-2.723+1
1880	2.514	-2.109+1	2.523	4.802+1	2.361+1	-2.699+1
1890	2.515	-2.110+1	2.523	4.778+1	2.362+1	-2.674+1
1900	2.515	-2.111+1	2.523	4.754+1	2.364+1	-2.650+1
1910	2.515	-2.113+1	2.523	4.731+1	2.365+1	-2.627+1
1920	2.516	-2.114+1	2.523	4.708+1	2.366+1	-2.603+1
1930	2.516	-2.115+1	2.523	4.684+1	2.368+1	-2.580+1
1940	2.517	-2.117+1	2.523	4.662+1	2.369+1	-2.557+1
1950	2.517	-2.118+1	2.522	4.639+1	2.370+1	-2.534+1
1960	2.518	-2.119+1	2.522	4.617+1	2.372+1	-2.511+1
1970	2.518	-2.121+1	2.522	4.594+1	2.373+1	-2.489+1
1980	2.519	-2.122+1	2.522	4.573+1	2.374+1	-2.467+1
1990	2.520	-2.123+1	2.522	4.551+1	2.375+1	-2.445+1
2000	2.520	-2.124+1	2.522	4.529+1	2.377+1	-2.423+1
2010	2.521	-2.126+1	2.522	4.508+1	2.378+1	-2.402+1
2020	2.521	-2.127+1	2.522	4.487+1	2.379+1	-2.381+1
2030	2.522	-2.128+1	2.522	4.466+1	2.380+1	-2.360+1
2040	2.522	-2.129+1	2.522	4.445+1	2.382+1	-2.339+1
2050	2.523	-2.131+1	2.522	4.425+1	2.383+1	-2.318+1
2060	2.523	-2.132+1	2.522	4.405+1	2.384+1	-2.298+1
2070	2.524	-2.133+1	2.522	4.385+1	2.385+1	-2.277+1
2080	2.524	-2.134+1	2.522	4.365+1	2.387+1	-2.257+1
2090	2.525	-2.135+1	2.522	4.345+1	2.388+1	-2.238+1

SPECIE C (G)

SPECIE C(G)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN PCV
2100	2.526	-2.137+1	2.522	4.326+1	2.389+1	-2.218+1
2110	2.526	-2.138+1	2.522	4.306+1	2.390+1	-2.199+1
2120	2.527	-2.139+1	2.522	4.287+1	2.391+1	-2.179+1
2130	2.527	-2.140+1	2.522	4.268+1	2.393+1	-2.160+1
2140	2.528	-2.141+1	2.522	4.250+1	2.394+1	-2.141+1
2150	2.529	-2.143+1	2.523	4.231+1	2.395+1	-2.123+1
2160	2.529	-2.144+1	2.523	4.212+1	2.396+1	-2.104+1
2170	2.530	-2.145+1	2.523	4.194+1	2.397+1	-2.086+1
2180	2.531	-2.146+1	2.523	4.176+1	2.398+1	-2.068+1
2190	2.531	-2.147+1	2.523	4.158+1	2.400+1	-2.050+1
2200	2.532	-2.148+1	2.523	4.141+1	2.401+1	-2.032+1
2210	2.533	-2.150+1	2.523	4.123+1	2.402+1	-2.014+1
2220	2.533	-2.151+1	2.523	4.105+1	2.403+1	-1.996+1
2230	2.534	-2.152+1	2.523	4.088+1	2.404+1	-1.979+1
2240	2.535	-2.153+1	2.523	4.071+1	2.405+1	-1.962+1
2250	2.536	-2.154+1	2.523	4.054+1	2.406+1	-1.945+1
2260	2.536	-2.155+1	2.523	4.037+1	2.408+1	-1.928+1
2270	2.537	-2.156+1	2.523	4.021+1	2.409+1	-1.911+1
2280	2.538	-2.157+1	2.523	4.004+1	2.410+1	-1.894+1
2290	2.538	-2.159+1	2.523	3.988+1	2.411+1	-1.878+1
2300	2.539	-2.160+1	2.523	3.972+1	2.412+1	-1.861+1
2310	2.540	-2.161+1	2.523	3.955+1	2.413+1	-1.845+1
2320	2.541	-2.162+1	2.523	3.939+1	2.414+1	-1.829+1
2330	2.541	-2.163+1	2.523	3.924+1	2.415+1	-1.813+1
2340	2.542	-2.164+1	2.524	3.908+1	2.416+1	-1.798+1
2350	2.543	-2.165+1	2.524	3.892+1	2.417+1	-1.782+1
2360	2.544	-2.166+1	2.524	3.877+1	2.418+1	-1.767+1
2370	2.544	-2.167+1	2.524	3.862+1	2.420+1	-1.751+1
2380	2.545	-2.168+1	2.524	3.847+1	2.421+1	-1.736+1
2390	2.546	-2.169+1	2.524	3.831+1	2.422+1	-1.721+1
2400	2.547	-2.170+1	2.524	3.817+1	2.423+1	-1.706+1
2410	2.547	-2.171+1	2.524	3.802+1	2.424+1	-1.691+1
2420	2.548	-2.172+1	2.524	3.787+1	2.425+1	-1.676+1
2430	2.549	-2.173+1	2.524	3.773+1	2.426+1	-1.662+1
2440	2.550	-2.174+1	2.524	3.758+1	2.427+1	-1.647+1
2450	2.551	-2.176+1	2.525	3.744+1	2.428+1	-1.633+1
2460	2.551	-2.177+1	2.525	3.730+1	2.429+1	-1.619+1
2470	2.552	-2.178+1	2.525	3.716+1	2.430+1	-1.604+1
2480	2.553	-2.179+1	2.525	3.702+1	2.431+1	-1.590+1
2490	2.554	-2.180+1	2.525	3.688+1	2.432+1	-1.576+1
2500	2.555	-2.181+1	2.525	3.674+1	2.433+1	-1.563+1
2510	2.556	-2.182+1	2.525	3.661+1	2.434+1	-1.549+1
2520	2.556	-2.183+1	2.525	3.647+1	2.435+1	-1.535+1
2530	2.557	-2.184+1	2.525	3.634+1	2.436+1	-1.521+1
2540	2.558	-2.185+1	2.526	3.620+1	2.437+1	-1.508+1
2550	2.559	-2.186+1	2.526	3.607+1	2.438+1	-1.495+1
2560	2.560	-2.187+1	2.526	3.594+1	2.439+1	-1.481+1
2570	2.561	-2.188+1	2.526	3.581+1	2.440+1	-1.468+1
2580	2.562	-2.189+1	2.526	3.568+1	2.441+1	-1.455+1
2590	2.562	-2.190+1	2.526	3.555+1	2.442+1	-1.442+1

SPECIE C(G)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN PCV
2600	2.563	-2.191+1	2.526	3.543+1	2.443+1	-1.429+1
2610	2.564	-2.192+1	2.527	3.530+1	2.444+1	-1.416+1
2620	2.565	-2.193+1	2.527	3.518+1	2.445+1	-1.404+1
2630	2.566	-2.193+1	2.527	3.505+1	2.446+1	-1.391+1
2640	2.567	-2.194+1	2.527	3.493+1	2.447+1	-1.379+1
2650	2.568	-2.195+1	2.527	3.481+1	2.448+1	-1.367+1
2660	2.569	-2.196+1	2.527	3.469+1	2.449+1	-1.354+1
2670	2.570	-2.197+1	2.527	3.457+1	2.450+1	-1.342+1
2680	2.571	-2.198+1	2.528	3.445+1	2.451+1	-1.330+1
2690	2.571	-2.199+1	2.528	3.433+1	2.452+1	-1.319+1
2700	2.572	-2.200+1	2.528	3.421+1	2.453+1	-1.307+1
2710	2.573	-2.201+1	2.528	3.409+1	2.454+1	-1.295+1
2720	2.574	-2.202+1	2.528	3.398+1	2.455+1	-1.283+1
2730	2.575	-2.203+1	2.528	3.386+1	2.456+1	-1.272+1
2740	2.576	-2.204+1	2.529	3.375+1	2.457+1	-1.260+1
2750	2.577	-2.205+1	2.529	3.363+1	2.458+1	-1.249+1
2760	2.578	-2.206+1	2.529	3.352+1	2.459+1	-1.237+1
2770	2.579	-2.207+1	2.529	3.341+1	2.460+1	-1.226+1
2780	2.580	-2.207+1	2.529	3.330+1	2.460+1	-1.215+1
2790	2.581	-2.208+1	2.530	3.319+1	2.461+1	-1.204+1
2800	2.581	-2.209+1	2.530	3.308+1	2.462+1	-1.193+1
2810	2.582	-2.210+1	2.530	3.297+1	2.463+1	-1.182+1
2820	2.583	-2.211+1	2.530	3.286+1	2.464+1	-1.171+1
2830	2.584	-2.212+1	2.530	3.276+1	2.465+1	-1.160+1
2840	2.585	-2.213+1	2.530	3.265+1	2.466+1	-1.150+1
2850	2.586	-2.214+1	2.531	3.255+1	2.467+1	-1.139+1
2860	2.587	-2.215+1	2.531	3.244+1	2.468+1	-1.129+1
2870	2.588	-2.216+1	2.531	3.234+1	2.469+1	-1.118+1
2880	2.589	-2.216+1	2.531	3.223+1	2.470+1	-1.108+1
2890	2.590	-2.217+1	2.531	3.213+1	2.470+1	-1.098+1
2900	2.591	-2.218+1	2.532	3.203+1	2.471+1	-1.087+1
2910	2.592	-2.219+1	2.532	3.193+1	2.472+1	-1.077+1
2920	2.593	-2.220+1	2.532	3.183+1	2.473+1	-1.067+1
2930	2.594	-2.221+1	2.532	3.173+1	2.474+1	-1.057+1
2940	2.595	-2.222+1	2.532	3.163+1	2.475+1	-1.047+1
2950	2.596	-2.223+1	2.533	3.153+1	2.476+1	-1.038+1
2960	2.597	-2.223+1	2.533	3.143+1	2.477+1	-1.028+1
2970	2.598	-2.224+1	2.533	3.133+1	2.478+1	-1.018+1
2980	2.599	-2.225+1	2.533	3.124+1	2.478+1	-1.008+1
2990	2.600	-2.226+1	2.534	3.114+1	2.479+1	-9.989
3000	2.601	-2.227+1	2.534	3.105+1	2.480+1	-9.894
3010	2.602	-2.228+1	2.534	3.095+1	2.481+1	-9.799
3020	2.602	-2.228+1	2.534	3.086+1	2.482+1	-9.704
3030	2.603	-2.229+1	2.534	3.077+1	2.483+1	-9.610
3040	2.604	-2.230+1	2.535	3.067+1	2.484+1	-9.517
3050	2.605	-2.231+1	2.535	3.058+1	2.484+1	-9.424
3060	2.606	-2.232+1	2.535	3.049+1	2.485+1	-9.331
3070	2.607	-2.233+1	2.535	3.040+1	2.486+1	-9.239
3080	2.608	-2.233+1	2.536	3.031+1	2.487+1	-9.148
3090	2.609	-2.234+1	2.536	3.022+1	2.488+1	-9.057

SPECIE C(G)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN PCV
3100	2.610	-2.235+1	2.536	3.013+1	2.489+1	-8.967
3110	2.611	-2.236+1	2.536	3.004+1	2.490+1	-8.878
3120	2.612	-2.237+1	2.537	2.995+1	2.490+1	-8.789
3130	2.613	-2.238+1	2.537	2.987+1	2.491+1	-8.701
3140	2.614	-2.238+1	2.537	2.978+1	2.492+1	-8.613
3150	2.615	-2.239+1	2.537	2.969+1	2.493+1	-8.526
3160	2.616	-2.240+1	2.538	2.961+1	2.494+1	-8.439
3170	2.617	-2.241+1	2.538	2.952+1	2.495+1	-8.354
3180	2.618	-2.242+1	2.538	2.944+1	2.495+1	-8.268
3190	2.619	-2.242+1	2.538	2.935+1	2.496+1	-8.184
3200	2.620	-2.243+1	2.539	2.927+1	2.497+1	-8.100
3210	2.621	-2.244+1	2.539	2.919+1	2.498+1	-8.017
3220	2.622	-2.245+1	2.539	2.910+1	2.499+1	-7.934
3230	2.622	-2.245+1	2.539	2.902+1	2.499+1	-7.852
3240	2.623	-2.246+1	2.540	2.894+1	2.500+1	-7.770
3250	2.624	-2.247+1	2.540	2.886+1	2.501+1	-7.689
3260	2.625	-2.248+1	2.540	2.878+1	2.502+1	-7.609
3270	2.626	-2.249+1	2.540	2.870+1	2.503+1	-7.529
3280	2.627	-2.249+1	2.541	2.862+1	2.503+1	-7.449
3290	2.628	-2.250+1	2.541	2.854+1	2.504+1	-7.370
3300	2.629	-2.251+1	2.541	2.846+1	2.505+1	-7.292
3310	2.630	-2.252+1	2.541	2.838+1	2.506+1	-7.213
3320	2.631	-2.253+1	2.542	2.831+1	2.507+1	-7.134
3330	2.632	-2.253+1	2.542	2.823+1	2.507+1	-7.056
3340	2.633	-2.254+1	2.542	2.815+1	2.508+1	-6.979
3350	2.633	-2.255+1	2.542	2.808+1	2.509+1	-6.902
3360	2.634	-2.256+1	2.543	2.800+1	2.510+1	-6.826
3370	2.635	-2.256+1	2.543	2.793+1	2.511+1	-6.749
3380	2.636	-2.257+1	2.543	2.785+1	2.511+1	-6.674
3390	2.637	-2.258+1	2.544	2.778+1	2.512+1	-6.598
3400	2.638	-2.259+1	2.544	2.770+1	2.513+1	-6.524
3410	2.639	-2.259+1	2.544	2.763+1	2.514+1	-6.451
3420	2.640	-2.260+1	2.544	2.756+1	2.514+1	-6.378
3430	2.641	-2.261+1	2.545	2.748+1	2.515+1	-6.306
3440	2.642	-2.262+1	2.545	2.741+1	2.516+1	-6.235
3450	2.643	-2.262+1	2.545	2.734+1	2.517+1	-6.164
3460	2.644	-2.263+1	2.546	2.727+1	2.518+1	-6.094
3470	2.645	-2.264+1	2.546	2.720+1	2.518+1	-6.024
3480	2.646	-2.264+1	2.546	2.713+1	2.519+1	-5.955
3490	2.646	-2.265+1	2.546	2.706+1	2.520+1	-5.886
3500	2.647	-2.266+1	2.547	2.699+1	2.521+1	-5.817
3510	2.648	-2.267+1	2.547	2.692+1	2.521+1	-5.748
3520	2.649	-2.267+1	2.547	2.685+1	2.522+1	-5.677
3530	2.650	-2.268+1	2.548	2.678+1	2.523+1	-5.609
3540	2.651	-2.269+1	2.548	2.671+1	2.524+1	-5.540
3550	2.652	-2.270+1	2.548	2.664+1	2.524+1	-5.472
3560	2.653	-2.270+1	2.548	2.658+1	2.525+1	-5.403
3570	2.654	-2.271+1	2.549	2.651+1	2.526+1	-5.335
3580	2.655	-2.272+1	2.549	2.644+1	2.527+1	-5.267
3590	2.655	-2.272+1	2.549	2.638+1	2.527+1	-5.199

SPECIE C(G)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN PCV
3600	2.656	-2.273+1	2.550	2.631+1	2.528+1	-5.132
3610	2.657	-2.274+1	2.550	2.625+1	2.529+1	-5.066
3620	2.658	-2.275+1	2.550	2.618+1	2.530+1	-5.001
3630	2.659	-2.275+1	2.551	2.612+1	2.530+1	-4.936
3640	2.660	-2.276+1	2.551	2.605+1	2.531+1	-4.871
3650	2.661	-2.277+1	2.551	2.599+1	2.532+1	-4.807
3660	2.662	-2.277+1	2.551	2.592+1	2.532+1	-4.744
3670	2.662	-2.278+1	2.552	2.586+1	2.533+1	-4.681
3680	2.663	-2.279+1	2.552	2.580+1	2.534+1	-4.619
3690	2.664	-2.279+1	2.552	2.573+1	2.535+1	-4.557
3700	2.665	-2.280+1	2.553	2.567+1	2.535+1	-4.495
3710	2.666	-2.281+1	2.553	2.561+1	2.536+1	-4.433
3720	2.667	-2.281+1	2.553	2.555+1	2.537+1	-4.371
3730	2.668	-2.282+1	2.554	2.549+1	2.538+1	-4.310
3740	2.668	-2.283+1	2.554	2.543+1	2.538+1	-4.249
3750	2.669	-2.284+1	2.554	2.537+1	2.539+1	-4.188
3760	2.670	-2.284+1	2.554	2.530+1	2.540+1	-4.128
3770	2.671	-2.285+1	2.555	2.524+1	2.540+1	-4.068
3780	2.672	-2.286+1	2.555	2.518+1	2.541+1	-4.008
3790	2.673	-2.286+1	2.555	2.513+1	2.542+1	-3.948
3800	2.674	-2.287+1	2.556	2.507+1	2.542+1	-3.889
3810	2.674	-2.288+1	2.556	2.501+1	2.543+1	-3.830
3820	2.675	-2.288+1	2.556	2.495+1	2.544+1	-3.771
3830	2.676	-2.289+1	2.557	2.489+1	2.545+1	-3.713
3840	2.677	-2.290+1	2.557	2.483+1	2.545+1	-3.654
3850	2.678	-2.290+1	2.557	2.478+1	2.546+1	-3.596
3860	2.678	-2.291+1	2.558	2.472+1	2.547+1	-3.539
3870	2.679	-2.292+1	2.558	2.466+1	2.547+1	-3.481
3880	2.680	-2.292+1	2.558	2.460+1	2.548+1	-3.424
3890	2.681	-2.293+1	2.559	2.455+1	2.549+1	-3.367
3900	2.682	-2.294+1	2.559	2.449+1	2.549+1	-3.311
3910	2.682	-2.294+1	2.559	2.444+1	2.550+1	-3.255
3920	2.683	-2.295+1	2.559	2.438+1	2.551+1	-3.199
3930	2.684	-2.295+1	2.560	2.433+1	2.551+1	-3.144
3940	2.685	-2.296+1	2.560	2.427+1	2.552+1	-3.089
3950	2.686	-2.297+1	2.560	2.422+1	2.553+1	-3.034
3960	2.686	-2.297+1	2.561	2.416+1	2.553+1	-2.979
3970	2.687	-2.298+1	2.561	2.411+1	2.554+1	-2.925
3980	2.688	-2.299+1	2.561	2.405+1	2.555+1	-2.871
3990	2.689	-2.299+1	2.562	2.400+1	2.556+1	-2.817
4000	2.690	-2.300+1	2.562	2.395+1	2.556+1	-2.763
4010	2.690	-2.301+1	2.562	2.389+1	2.557+1	-2.709
4020	2.691	-2.301+1	2.563	2.384+1	2.558+1	-2.656
4030	2.692	-2.302+1	2.563	2.379+1	2.558+1	-2.603
4040	2.693	-2.303+1	2.563	2.374+1	2.559+1	-2.550
4050	2.693	-2.303+1	2.564	2.368+1	2.560+1	-2.498
4060	2.694	-2.304+1	2.564	2.363+1	2.560+1	-2.445
4070	2.695	-2.304+1	2.564	2.358+1	2.561+1	-2.393
4080	2.696	-2.305+1	2.565	2.353+1	2.562+1	-2.341
4090	2.696	-2.306+1	2.565	2.348+1	2.562+1	-2.290

SPECIE C (G)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN PCV
4100	2.697	-2.306+1	2.565	2.343+1	2.563+1	-2.238
4110	2.698	-2.307+1	2.566	2.338+1	2.564+1	-2.188
4120	2.699	-2.308+1	2.566	2.333+1	2.564+1	-2.138
4130	2.699	-2.308+1	2.566	2.328+1	2.565+1	-2.088
4140	2.700	-2.309+1	2.566	2.323+1	2.565+1	-2.038
4150	2.701	-2.309+1	2.567	2.318+1	2.566+1	-1.988
4160	2.702	-2.310+1	2.567	2.313+1	2.567+1	-1.939
4170	2.702	-2.311+1	2.567	2.308+1	2.567+1	-1.890
4180	2.703	-2.311+1	2.568	2.303+1	2.568+1	-1.842
4190	2.704	-2.312+1	2.568	2.298+1	2.569+1	-1.793
4200	2.705	-2.313+1	2.568	2.294+1	2.569+1	-1.745
4210	2.705	-2.313+1	2.569	2.289+1	2.570+1	-1.697
4220	2.706	-2.314+1	2.569	2.284+1	2.571+1	-1.650
4230	2.707	-2.314+1	2.569	2.279+1	2.571+1	-1.602
4240	2.707	-2.315+1	2.570	2.274+1	2.572+1	-1.555
4250	2.708	-2.316+1	2.570	2.270+1	2.573+1	-1.508
4260	2.709	-2.316+1	2.570	2.265+1	2.573+1	-1.461
4270	2.709	-2.317+1	2.571	2.260+1	2.574+1	-1.415
4280	2.710	-2.317+1	2.571	2.256+1	2.574+1	-1.369
4290	2.711	-2.318+1	2.571	2.251+1	2.575+1	-1.322
4300	2.711	-2.319+1	2.572	2.246+1	2.576+1	-1.277
4310	2.712	-2.319+1	2.572	2.242+1	2.576+1	-1.231
4320	2.713	-2.320+1	2.572	2.237+1	2.577+1	-1.186
4330	2.713	-2.320+1	2.573	2.233+1	2.578+1	-1.141
4340	2.714	-2.321+1	2.573	2.228+1	2.578+1	-1.096
4350	2.715	-2.322+1	2.573	2.224+1	2.579+1	-1.051
4360	2.715	-2.322+1	2.574	2.219+1	2.579+1	-1.006
4370	2.716	-2.323+1	2.574	2.215+1	2.580+1	-9.621-1
4380	2.717	-2.323+1	2.574	2.210+1	2.581+1	-9.181-1
4390	2.718	-2.324+1	2.575	2.206+1	2.581+1	-8.742-1
4400	2.718	-2.325+1	2.575	2.202+1	2.582+1	-8.306-1
4410	2.719	-2.325+1	2.575	2.197+1	2.583+1	-7.873-1
4420	2.720	-2.326+1	2.576	2.193+1	2.583+1	-7.441-1
4430	2.720	-2.326+1	2.576	2.189+1	2.584+1	-7.012-1
4440	2.721	-2.327+1	2.576	2.184+1	2.584+1	-6.585-1
4450	2.721	-2.327+1	2.577	2.180+1	2.585+1	-6.160-1
4460	2.722	-2.328+1	2.577	2.176+1	2.586+1	-5.736-1
4470	2.723	-2.329+1	2.577	2.171+1	2.586+1	-5.315-1
4480	2.723	-2.329+1	2.578	2.167+1	2.587+1	-4.896-1
4490	2.724	-2.330+1	2.578	2.163+1	2.588+1	-4.478-1
4500	2.724	-2.330+1	2.578	2.159+1	2.588+1	-4.061-1
4510	2.725	-2.331+1	2.578	2.155+1	2.589+1	-3.645-1
4520	2.726	-2.331+1	2.579	2.150+1	2.589+1	-3.230-1
4530	2.726	-2.332+1	2.579	2.146+1	2.590+1	-2.817-1
4540	2.727	-2.333+1	2.579	2.142+1	2.591+1	-2.405-1
4550	2.727	-2.333+1	2.580	2.138+1	2.591+1	-1.994-1
4560	2.728	-2.334+1	2.580	2.134+1	2.592+1	-1.585-1
4570	2.729	-2.334+1	2.580	2.130+1	2.592+1	-1.178-1
4580	2.729	-2.335+1	2.581	2.126+1	2.593+1	-7.715-2
4590	2.730	-2.335+1	2.581	2.122+1	2.594+1	-3.670-2

SPECIE C (G)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN PCV
4600	2.730	-2.336+1	2.581	2.118+1	2.594+1	3.566-3
4610	2.731	-2.337+1	2.582	2.114+1	2.595+1	4.346-2
4620	2.732	-2.337+1	2.582	2.110+1	2.595+1	8.317-2
4630	2.732	-2.338+1	2.582	2.106+1	2.596+1	1.228-1
4640	2.733	-2.338+1	2.583	2.102+1	2.596+1	1.621-1
4650	2.733	-2.339+1	2.583	2.098+1	2.597+1	2.013-1
4660	2.734	-2.339+1	2.583	2.094+1	2.598+1	2.403-1
4670	2.734	-2.340+1	2.584	2.090+1	2.598+1	2.790-1
4680	2.735	-2.340+1	2.584	2.086+1	2.599+1	3.176-1
4690	2.735	-2.341+1	2.584	2.082+1	2.599+1	3.559-1
4700	2.736	-2.342+1	2.585	2.078+1	2.600+1	3.942-1
4710	2.736	-2.342+1	2.585	2.075+1	2.601+1	4.323-1
4720	2.737	-2.343+1	2.585	2.071+1	2.601+1	4.702-1
4730	2.738	-2.343+1	2.586	2.067+1	2.602+1	5.079-1
4740	2.738	-2.344+1	2.586	2.063+1	2.602+1	5.455-1
4750	2.739	-2.344+1	2.586	2.059+1	2.603+1	5.829-1
4760	2.739	-2.345+1	2.587	2.056+1	2.603+1	6.201-1
4770	2.740	-2.345+1	2.587	2.052+1	2.604+1	6.571-1
4780	2.740	-2.346+1	2.587	2.048+1	2.605+1	6.940-1
4790	2.741	-2.346+1	2.588	2.045+1	2.605+1	7.307-1
4800	2.741	-2.347+1	2.588	2.041+1	2.606+1	7.673-1
4810	2.742	-2.347+1	2.588	2.037+1	2.606+1	8.037-1
4820	2.743	-2.348+1	2.589	2.034+1	2.607+1	8.399-1
4830	2.743	-2.349+1	2.589	2.030+1	2.607+1	8.760-1
4840	2.744	-2.349+1	2.589	2.026+1	2.608+1	9.119-1
4850	2.744	-2.350+1	2.589	2.023+1	2.609+1	9.476-1
4860	2.745	-2.350+1	2.590	2.019+1	2.609+1	9.832-1
4870	2.745	-2.351+1	2.590	2.016+1	2.610+1	1.019
4880	2.746	-2.351+1	2.590	2.012+1	2.610+1	1.054
4890	2.746	-2.352+1	2.591	2.008+1	2.611+1	1.089
4900	2.747	-2.352+1	2.591	2.005+1	2.611+1	1.124
4910	2.747	-2.353+1	2.591	2.001+1	2.612+1	1.159
4920	2.748	-2.353+1	2.592	1.998+1	2.613+1	1.193
4930	2.748	-2.354+1	2.592	1.994+1	2.613+1	1.228
4940	2.749	-2.354+1	2.592	1.991+1	2.614+1	1.262
4950	2.749	-2.355+1	2.593	1.987+1	2.614+1	1.296
4960	2.750	-2.355+1	2.593	1.984+1	2.615+1	1.330
4970	2.750	-2.356+1	2.593	1.980+1	2.615+1	1.364
4980	2.751	-2.357+1	2.594	1.977+1	2.616+1	1.398
4990	2.751	-2.357+1	2.594	1.974+1	2.616+1	1.432
5000	2.752	-2.358+1	2.594	1.970+1	2.617+1	1.466
5010	2.752	-2.358+1	2.595	1.967+1	2.618+1	1.499
5020	2.752	-2.359+1	2.595	1.964+1	2.618+1	1.533
5030	2.753	-2.359+1	2.595	1.960+1	2.619+1	1.566
5040	2.753	-2.360+1	2.595	1.957+1	2.619+1	1.599
5050	2.754	-2.360+1	2.596	1.953+1	2.620+1	1.633
5060	2.754	-2.361+1	2.596	1.950+1	2.620+1	1.666
5070	2.755	-2.361+1	2.596	1.947+1	2.621+1	1.699
5080	2.755	-2.362+1	2.597	1.944+1	2.621+1	1.732
5090	2.756	-2.362+1	2.597	1.940+1	2.622+1	1.764

TEMP	CP/R	SPECIE C(G)					LN PCV
		(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R		
5100	2.756						
5110	2.757	-2.363+1	2.597	1.937+1	2.622+1	1.797	
5120	2.757	-2.363+1	2.598	1.934+1	2.623+1	1.829	
5130	2.757	-2.364+1	2.598	1.931+1	2.624+1	1.861	
5140	2.758	-2.364+1	2.598	1.927+1	2.624+1	1.892	
		-2.365+1	2.599	1.924+1	2.625+1	1.924	
5150	2.758	-2.365+1	2.599	1.921+1	2.625+1	1.955	
5160	2.759	-2.366+1	2.599	1.918+1	2.626+1	1.986	
5170	2.759	-2.366+1	2.600	1.915+1	2.626+1	2.017	
5180	2.760	-2.367+1	2.600	1.911+1	2.627+1	2.048	
5190	2.760	-2.367+1	2.600	1.908+1	2.627+1	2.079	
5200	2.761	-2.368+1	2.600	1.905+1	2.628+1	2.109	
5210	2.761	-2.368+1	2.601	1.902+1	2.628+1	2.140	
5220	2.761	-2.369+1	2.601	1.899+1	2.629+1	2.170	
5230	2.762	-2.369+1	2.601	1.896+1	2.629+1	2.201	
5240	2.762	-2.370+1	2.602	1.893+1	2.630+1	2.231	
5250	2.763	-2.370+1	2.602	1.890+1	2.630+1	2.261	
5260	2.763	-2.371+1	2.602	1.886+1	2.631+1	2.291	
5270	2.763	-2.371+1	2.603	1.883+1	2.631+1	2.321	
5280	2.764	-2.372+1	2.603	1.880+1	2.632+1	2.350	
5290	2.764	-2.372+1	2.603	1.877+1	2.633+1	2.380	
5300	2.765	-2.373+1	2.604	1.874+1	2.633+1	2.409	
5310	2.765	-2.373+1	2.604	1.871+1	2.634+1	2.438	
5320	2.765	-2.374+1	2.604	1.868+1	2.634+1	2.467	
5330	2.766	-2.374+1	2.604	1.865+1	2.635+1	2.496	
5340	2.766	-2.375+1	2.605	1.862+1	2.635+1	2.525	
5350	2.767	-2.375+1	2.605	1.859+1	2.636+1	2.554	
5360	2.767	-2.376+1	2.605	1.856+1	2.636+1	2.582	
5370	2.767	-2.376+1	2.606	1.854+1	2.637+1	2.611	
5380	2.768	-2.377+1	2.606	1.851+1	2.637+1	2.639	
5390	2.768	-2.377+1	2.606	1.848+1	2.638+1	2.668	
5400	2.769	-2.378+1	2.607	1.845+1	2.638+1	2.696	
5410	2.769	-2.378+1	2.607	1.842+1	2.639+1	2.724	
5420	2.769	-2.379+1	2.607	1.839+1	2.639+1	2.753	
5430	2.770	-2.379+1	2.607	1.836+1	2.640+1	2.781	
5440	2.770	-2.379+1	2.608	1.833+1	2.640+1	2.809	
5450	2.770	-2.380+1	2.608	1.830+1	2.641+1	2.837	
5460	2.771	-2.380+1	2.608	1.828+1	2.641+1	2.865	
5470	2.771	-2.381+1	2.609	1.825+1	2.642+1	2.893	
5480	2.771	-2.381+1	2.609	1.822+1	2.642+1	2.921	
5490	2.772	-2.382+1	2.609	1.819+1	2.643+1	2.949	
5500	2.772	-2.382+1	2.609	1.816+1	2.643+1	2.977	
5510	2.772	-2.383+1	2.610	1.813+1	2.644+1	3.004	
5520	2.773	-2.383+1	2.610	1.811+1	2.644+1	3.031	
5530	2.773	-2.384+1	2.610	1.808+1	2.645+1	3.059	
5540	2.774	-2.384+1	2.611	1.805+1	2.645+1	3.086	
5550	2.774	-2.385+1	2.611	1.802+1	2.646+1	3.113	
5560	2.774	-2.385+1	2.611	1.800+1	2.646+1	3.140	
5570	2.775	-2.386+1	2.612	1.797+1	2.647+1	3.166	
5580	2.775	-2.386+1	2.612	1.794+1	2.647+1	3.193	
5590	2.775	-2.387+1	2.612	1.791+1	2.648+1	3.220	

SPECIE (G)

TEMP	CP/R	(F-E)/RT	(M-E)/RT	DELTA H/RT	S/R	LN PCV
5600	2.776	-2.387+1	2.612	1.789+1	2.648+1	3.246
5610	2.776	-2.388+1	2.613	1.786+1	2.649+1	3.278
5620	2.776	-2.388+1	2.613	1.783+1	2.649+1	3.299
5630	2.777	-2.388+1	2.613	1.781+1	2.650+1	3.325
5640	2.777	-2.389+1	2.614	1.778+1	2.650+1	3.351
5650	2.777	-2.389+1	2.614	1.775+1	2.651+1	3.377
5660	2.778	-2.390+1	2.614	1.773+1	2.651+1	3.403
5670	2.778	-2.390+1	2.614	1.770+1	2.652+1	3.428
5680	2.778	-2.391+1	2.615	1.767+1	2.652+1	3.454
5690	2.779	-2.391+1	2.615	1.765+1	2.653+1	3.480
5700	2.779	-2.392+1	2.615	1.762+1	2.653+1	3.505
5710	2.779	-2.392+1	2.616	1.760+1	2.654+1	3.530
5720	2.780	-2.393+1	2.616	1.757+1	2.654+1	3.556
5730	2.780	-2.393+1	2.616	1.754+1	2.655+1	3.581
5740	2.780	-2.393+1	2.616	1.752+1	2.655+1	3.606
5750	2.781	-2.394+1	2.617	1.749+1	2.656+1	3.631
5760	2.781	-2.394+1	2.617	1.747+1	2.656+1	3.655
5770	2.781	-2.395+1	2.617	1.744+1	2.657+1	3.680
5780	2.782	-2.395+1	2.618	1.742+1	2.657+1	3.705
5790	2.782	-2.396+1	2.618	1.739+1	2.658+1	3.729
5800	2.782	-2.396+1	2.618	1.737+1	2.658+1	3.754
5810	2.783	-2.397+1	2.618	1.734+1	2.659+1	3.778
5820	2.783	-2.397+1	2.619	1.732+1	2.659+1	3.802
5830	2.783	-2.398+1	2.619	1.729+1	2.659+1	3.827
5840	2.783	-2.398+1	2.619	1.727+1	2.660+1	3.851
5850	2.784	-2.398+1	2.620	1.724+1	2.660+1	3.875
5860	2.784	-2.399+1	2.620	1.722+1	2.661+1	3.898
5870	2.784	-2.399+1	2.620	1.719+1	2.661+1	3.922
5880	2.785	-2.400+1	2.620	1.717+1	2.662+1	3.946
5890	2.785	-2.400+1	2.621	1.714+1	2.662+1	3.970
5900	2.785	-2.401+1	2.621	1.712+1	2.663+1	3.993
5910	2.785	-2.401+1	2.621	1.710+1	2.663+1	4.017
5920	2.786	-2.402+1	2.622	1.707+1	2.664+1	4.040
5930	2.786	-2.402+1	2.622	1.705+1	2.664+1	4.063
5940	2.786	-2.402+1	2.622	1.702+1	2.665+1	4.086
5950	2.787	-2.403+1	2.622	1.700+1	2.665+1	4.110
5960	2.787	-2.403+1	2.623	1.698+1	2.666+1	4.133
5970	2.787	-2.404+1	2.623	1.695+1	2.666+1	4.155
5980	2.787	-2.404+1	2.623	1.693+1	2.667+1	4.178
5990	2.788	-2.405+1	2.623	1.690+1	2.667+1	4.201
6000	2.788	-2.405+1	2.624	1.688+1	2.667+1	4.224

SPECIE C(S)
MOLECULAR WEIGHT EQUALS 12.01139
DELTA E ZERO EQUALS 0.0 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(SPECIE IS IN STANDARD STATE AT ZERO DEGREES KELVIN)

THERMAL

(NBS 6645 4/1/60) (9)

TEMP	SPECIE C(S)				
	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
100	1.994-1	-4.061-2	7.387-2	7.387-2	1.145-1
110	2.336-1	-4.874-2	8.720-2	8.720-2	1.359-1
120	2.693-1	-5.727-2	1.012-1	1.012-1	1.585-1
130	3.063-1	-6.620-2	1.158-1	1.158-1	1.820-1
140	3.447-1	-7.552-2	1.310-1	1.310-1	2.065-1
150	3.841-1	-8.521-2	1.468-1	1.468-1	2.320-1
160	4.246-1	-9.527-2	1.630-1	1.630-1	2.583-1
170	4.659-1	-1.057-1	1.798-1	1.798-1	2.855-1
180	5.079-1	-1.164-1	1.970-1	1.970-1	3.134-1
190	5.506-1	-1.276-1	2.146-1	2.146-1	3.422-1
200	5.938-1	-1.390-1	2.326-1	2.326-1	3.716-1
210	6.374-1	-1.507-1	2.510-1	2.510-1	4.017-1
220	6.813-1	-1.628-1	2.697-1	2.697-1	4.325-1
230	7.255-1	-1.751-1	2.887-1	2.887-1	4.638-1
240	7.697-1	-1.878-1	3.080-1	3.080-1	4.958-1
250	8.140-1	-2.007-1	3.275-1	3.275-1	5.282-1
260	8.582-1	-2.139-1	3.472-1	3.472-1	5.611-1
270	9.023-1	-2.273-1	3.671-1	3.671-1	5.944-1
280	9.462-1	-2.410-1	3.872-1	3.872-1	6.282-1
290	9.898-1	-2.550-1	4.074-1	4.074-1	6.623-1
300	1.033	-2.691-1	4.277-1	4.277-1	6.968-1
310	1.076	-2.835-1	4.481-1	4.481-1	7.317-1
320	1.119	-2.981-1	4.687-1	4.687-1	7.668-1
330	1.160	-3.129-1	4.892-1	4.892-1	8.021-1
340	1.202	-3.279-1	5.098-1	5.098-1	8.377-1
350	1.242	-3.430-1	5.303-1	5.303-1	8.733-1
360	1.282	-3.583-1	5.508-1	5.508-1	9.091-1
370	1.322	-3.737-1	5.712-1	5.712-1	9.449-1
380	1.360	-3.892-1	5.916-1	5.916-1	9.808-1
390	1.398	-4.049-1	6.119-1	6.119-1	1.017
400	1.435	-4.207-1	6.320-1	6.320-1	1.053
410	1.471	-4.365-1	6.520-1	6.520-1	1.088
420	1.506	-4.525-1	6.720-1	6.720-1	1.124
430	1.540	-4.686-1	6.918-1	6.918-1	1.159
440	1.574	-4.847-1	7.114-1	7.114-1	1.195
450	1.607	-5.009-1	7.309-1	7.309-1	1.231
460	1.639	-5.171-1	7.502-1	7.502-1	1.266
470	1.670	-5.335-1	7.693-1	7.693-1	1.302
480	1.700	-5.498-1	7.883-1	7.883-1	1.337
490	1.730	-5.662-1	8.071-1	8.071-1	1.373
500	1.759	-5.827-1	8.258-1	8.258-1	1.408
510	1.789	-5.992-1	8.443-1	8.443-1	1.444
520	1.818	-6.158-1	8.628-1	8.628-1	1.479
530	1.846	-6.324-1	8.810-1	8.810-1	1.513
540	1.874	-6.491-1	8.991-1	8.991-1	1.548
550	1.901	-6.657-1	9.171-1	9.171-1	1.583
560	1.928	-6.824-1	9.349-1	9.349-1	1.617
570	1.954	-6.991-1	9.525-1	9.525-1	1.652
580	1.979	-7.158-1	9.700-1	9.700-1	1.686
590	2.004	-7.325-1	9.873-1	9.873-1	1.720

SPECIE C(S)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
600	2.028	-7.493-1	1.004	1.004	1.754
610	2.051	-7.660-1	1.021	1.021	1.787
620	2.074	-7.826-1	1.038	1.038	1.821
630	2.096	-7.993-1	1.055	1.055	1.854
640	2.118	-8.160-1	1.071	1.071	1.887
650	2.138	-8.327-1	1.087	1.087	1.920
660	2.159	-8.495-1	1.103	1.103	1.953
670	2.178	-8.662-1	1.119	1.119	1.986
680	2.198	-8.829-1	1.135	1.135	2.018
690	2.216	-8.996-1	1.151	1.151	2.050
700	2.234	-9.163-1	1.166	1.166	2.082
710	2.251	-9.330-1	1.181	1.181	2.114
720	2.268	-9.496-1	1.196	1.196	2.146
730	2.285	-9.662-1	1.211	1.211	2.177
740	2.300	-9.827-1	1.226	1.226	2.208
750	2.316	-9.993-1	1.240	1.240	2.240
760	2.330	-1.016	1.254	1.254	2.270
770	2.345	-1.032	1.268	1.268	2.301
780	2.359	-1.049	1.282	1.282	2.331
790	2.372	-1.065	1.296	1.296	2.362
800	2.385	-1.082	1.310	1.310	2.392
810	2.398	-1.098	1.323	1.323	2.421
820	2.411	-1.115	1.336	1.336	2.451
830	2.423	-1.131	1.349	1.349	2.480
840	2.435	-1.147	1.362	1.362	2.509
850	2.447	-1.163	1.375	1.375	2.538
860	2.458	-1.179	1.388	1.388	2.567
870	2.469	-1.195	1.400	1.400	2.595
880	2.480	-1.211	1.412	1.412	2.624
890	2.491	-1.227	1.424	1.424	2.652
900	2.501	-1.243	1.436	1.436	2.680
910	2.511	-1.259	1.448	1.448	2.707
920	2.521	-1.275	1.459	1.459	2.735
930	2.530	-1.291	1.471	1.471	2.762
940	2.540	-1.307	1.482	1.482	2.789
950	2.549	-1.323	1.493	1.493	2.816
960	2.558	-1.339	1.504	1.504	2.843
970	2.566	-1.354	1.515	1.515	2.869
980	2.575	-1.370	1.526	1.526	2.896
990	2.583	-1.385	1.536	1.536	2.922
1000	2.591	-1.401	1.547	1.547	2.948
1010	2.600	-1.416	1.557	1.557	2.973
1020	2.608	-1.432	1.567	1.567	2.999
1030	2.616	-1.447	1.577	1.577	3.024
1040	2.624	-1.462	1.587	1.587	3.050
1050	2.631	-1.478	1.597	1.597	3.075
1060	2.639	-1.493	1.607	1.607	3.099
1070	2.646	-1.508	1.616	1.616	3.124
1080	2.653	-1.523	1.626	1.626	3.149
1090	2.660	-1.538	1.635	1.635	3.173

SPECIE C(S)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
1100	2.667	-1.553	1.644	1.644	3.197
1110	2.674	-1.568	1.654	1.654	3.221
1120	2.680	-1.583	1.663	1.663	3.246
1130	2.686	-1.597	1.672	1.672	3.269
1140	2.693	-1.612	1.681	1.681	3.293
1150	2.699	-1.627	1.690	1.690	3.317
1160	2.705	-1.642	1.698	1.698	3.340
1170	2.711	-1.656	1.707	1.707	3.363
1180	2.716	-1.671	1.716	1.716	3.387
1190	2.722	-1.685	1.724	1.724	3.409
1200	2.727	-1.700	1.733	1.733	3.432
1210	2.733	-1.714	1.741	1.741	3.455
1220	2.738	-1.729	1.749	1.749	3.478
1230	2.743	-1.743	1.757	1.757	3.500
1240	2.749	-1.757	1.765	1.765	3.522
1250	2.754	-1.771	1.773	1.773	3.545
1260	2.759	-1.786	1.781	1.781	3.567
1270	2.764	-1.800	1.789	1.789	3.588
1280	2.768	-1.814	1.796	1.796	3.610
1290	2.773	-1.828	1.804	1.804	3.632
1300	2.778	-1.842	1.812	1.812	3.653
1310	2.782	-1.856	1.819	1.819	3.675
1320	2.786	-1.870	1.826	1.826	3.696
1330	2.791	-1.883	1.833	1.833	3.717
1340	2.795	-1.897	1.841	1.841	3.738
1350	2.799	-1.911	1.848	1.848	3.759
1360	2.803	-1.924	1.855	1.855	3.779
1370	2.807	-1.938	1.862	1.862	3.800
1380	2.810	-1.952	1.868	1.868	3.820
1390	2.814	-1.965	1.875	1.875	3.840
1400	2.818	-1.979	1.882	1.882	3.861
1410	2.822	-1.992	1.889	1.889	3.881
1420	2.825	-2.005	1.895	1.895	3.901
1430	2.829	-2.019	1.902	1.902	3.920
1440	2.833	-2.032	1.908	1.908	3.940
1450	2.836	-2.045	1.914	1.914	3.960
1460	2.840	-2.058	1.921	1.921	3.979
1470	2.843	-2.071	1.927	1.927	3.998
1480	2.847	-2.084	1.933	1.933	4.018
1490	2.850	-2.097	1.939	1.939	4.037
1500	2.853	-2.110	1.945	1.945	4.056
1510	2.856	-2.123	1.951	1.951	4.075
1520	2.860	-2.136	1.957	1.957	4.094
1530	2.863	-2.149	1.963	1.963	4.113
1540	2.866	-2.162	1.969	1.969	4.131
1550	2.869	-2.175	1.975	1.975	4.150
1560	2.872	-2.188	1.980	1.980	4.169
1570	2.875	-2.201	1.986	1.986	4.187
1580	2.878	-2.214	1.992	1.992	4.206
1590	2.881	-2.227	1.997	1.997	4.224

SPECIE C(S)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
1600	2.883	-2.239	2.003	2.003	4.242
1610	2.886	-2.252	2.008	2.008	4.260
1620	2.888	-2.264	2.014	2.014	4.278
1630	2.890	-2.276	2.020	2.020	4.296
1640	2.892	-2.288	2.025	2.025	4.314
1650	2.894	-2.300	2.031	2.031	4.331
1660	2.896	-2.312	2.036	2.036	4.349
1670	2.898	-2.324	2.042	2.042	4.366
1680	2.900	-2.336	2.047	2.047	4.384
1690	2.902	-2.348	2.053	2.053	4.401
1700	2.903	-2.360	2.058	2.058	4.418
1710	2.905	-2.372	2.063	2.063	4.435
1720	2.907	-2.384	2.068	2.068	4.452
1730	2.908	-2.396	2.072	2.072	4.469
1740	2.910	-2.408	2.077	2.077	4.485
1750	2.911	-2.420	2.082	2.082	4.502
1760	2.913	-2.432	2.086	2.086	4.519
1770	2.914	-2.445	2.091	2.091	4.535
1780	2.916	-2.457	2.095	2.095	4.552
1790	2.917	-2.469	2.099	2.099	4.568
1800	2.919	-2.481	2.103	2.103	4.584
1810	2.920	-2.493	2.108	2.108	4.601
1820	2.922	-2.504	2.112	2.112	4.617
1830	2.923	-2.516	2.117	2.117	4.633
1840	2.925	-2.528	2.121	2.121	4.649
1850	2.926	-2.539	2.126	2.126	4.665
1860	2.928	-2.551	2.131	2.131	4.681
1870	2.929	-2.562	2.135	2.135	4.697
1880	2.931	-2.574	2.140	2.140	4.713
1890	2.932	-2.585	2.144	2.144	4.729
1900	2.934	-2.597	2.149	2.149	4.745
1910	2.935	-2.608	2.153	2.153	4.761
1920	2.936	-2.619	2.157	2.157	4.776
1930	2.937	-2.630	2.161	2.161	4.792
1940	2.938	-2.641	2.165	2.165	4.807
1950	2.939	-2.652	2.169	2.169	4.822
1960	2.940	-2.664	2.173	2.173	4.837
1970	2.941	-2.675	2.177	2.177	4.852
1980	2.942	-2.685	2.181	2.181	4.867
1990	2.943	-2.696	2.185	2.185	4.882
2000	2.944	-2.707	2.189	2.189	4.896
2010	2.946	-2.718	2.193	2.193	4.911
2020	2.948	-2.729	2.196	2.196	4.925
2030	2.950	-2.739	2.200	2.200	4.939
2040	2.953	-2.750	2.204	2.204	4.953
2050	2.955	-2.760	2.207	2.207	4.968
2060	2.958	-2.771	2.211	2.211	4.982
2070	2.961	-2.781	2.214	2.214	4.996
2080	2.963	-2.792	2.217	2.217	5.010
2090	2.966	-2.803	2.221	2.221	5.023

TEMP	CP/R	SPECIE (IS)			
		(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
2100	2.969	-2.813	2.224	2.224	5.037
2110	2.970	-2.823	2.227	2.227	5.051
2120	2.972	-2.834	2.231	2.231	5.065
2130	2.973	-2.845	2.234	2.234	5.078
2140	2.975	-2.855	2.237	2.237	5.092
2150	2.976	-2.866	2.240	2.240	5.106
2160	2.977	-2.876	2.243	2.243	5.119
2170	2.978	-2.887	2.246	2.246	5.133
2180	2.978	-2.897	2.249	2.249	5.146
2190	2.978	-2.908	2.252	2.252	5.160
2200	2.979	-2.919	2.254	2.254	5.173
2210	2.980	-2.929	2.257	2.257	5.186
2220	2.980	-2.939	2.260	2.260	5.199
2230	2.981	-2.949	2.263	2.263	5.213
2240	2.981	-2.959	2.266	2.266	5.226
2250	2.982	-2.969	2.269	2.269	5.239
2260	2.982	-2.979	2.272	2.272	5.252
2270	2.983	-2.989	2.275	2.275	5.265
2280	2.983	-2.999	2.279	2.279	5.278
2290	2.984	-3.009	2.282	2.282	5.291
2300	2.984	-3.019	2.285	2.285	5.304
2310	2.984	-3.029	2.288	2.288	5.317
2320	2.985	-3.039	2.291	2.291	5.330
2330	2.986	-3.049	2.294	2.294	5.343
2340	2.986	-3.059	2.297	2.297	5.356
2350	2.987	-3.070	2.300	2.300	5.369
2360	2.987	-3.080	2.303	2.303	5.382
2370	2.988	-3.090	2.306	2.306	5.395
2380	2.988	-3.100	2.309	2.309	5.408
2390	2.989	-3.110	2.312	2.312	5.422
2400	2.989	-3.120	2.315	2.315	5.435
2410	2.991	-3.130	2.318	2.318	5.447
2420	2.993	-3.139	2.321	2.321	5.460
2430	2.995	-3.150	2.324	2.324	5.473
2440	2.998	-3.159	2.327	2.327	5.486
2450	3.000	-3.169	2.330	2.330	5.498
2460	3.003	-3.178	2.333	2.333	5.511
2470	3.006	-3.188	2.336	2.336	5.523
2480	3.009	-3.197	2.339	2.339	5.536
2490	3.011	-3.206	2.342	2.342	5.548
2500	3.014	-3.215	2.345	2.345	5.560
2510	3.015	-3.224	2.347	2.347	5.571
2520	3.017	-3.232	2.349	2.349	5.582
2530	3.018	-3.241	2.352	2.352	5.593
2540	3.019	-3.249	2.354	2.354	5.603
2550	3.019	-3.257	2.356	2.356	5.613
2560	3.019	-3.265	2.358	2.358	5.623
2570	3.020	-3.273	2.360	2.360	5.632
2580	3.020	-3.280	2.361	2.361	5.642
2590	3.019	-3.288	2.363	2.363	5.651

SPECIE C(S)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
2600	3.019	-3.296	2.365	2.365	5.661
2610	3.020	-3.305	2.367	2.367	5.672
2620	3.021	-3.314	2.370	2.370	5.684
2630	3.022	-3.322	2.372	2.372	5.695
2640	3.023	-3.331	2.375	2.375	5.705
2650	3.024	-3.340	2.377	2.377	5.717
2660	3.025	-3.349	2.380	2.380	5.729
2670	3.026	-3.358	2.382	2.382	5.741
2680	3.027	-3.368	2.385	2.385	5.753
2690	3.028	-3.377	2.387	2.387	5.765
2700	3.029	-3.387	2.390	2.390	5.777
2710	3.030	-3.395	2.393	2.393	5.788
2720	3.031	-3.404	2.395	2.395	5.799
2730	3.032	-3.413	2.398	2.398	5.811
2740	3.033	-3.421	2.400	2.400	5.822
2750	3.034	-3.430	2.403	2.403	5.833
2760	3.035	-3.438	2.405	2.405	5.844
2770	3.036	-3.447	2.408	2.408	5.855
2780	3.037	-3.455	2.410	2.410	5.866
2790	3.038	-3.464	2.413	2.413	5.877
2800	3.039	-3.472	2.415	2.415	5.887
2810	3.040	-3.481	2.418	2.418	5.898
2820	3.041	-3.489	2.420	2.420	5.909
2830	3.041	-3.498	2.422	2.422	5.920
2840	3.042	-3.506	2.424	2.424	5.930
2850	3.042	-3.515	2.426	2.426	5.941
2860	3.043	-3.523	2.428	2.428	5.952
2870	3.043	-3.532	2.430	2.430	5.962
2880	3.044	-3.541	2.432	2.432	5.972
2890	3.044	-3.549	2.434	2.434	5.983
2900	3.044	-3.558	2.435	2.435	5.993
2910	3.045	-3.566	2.437	2.437	6.004
2920	3.046	-3.575	2.440	2.440	6.015
2930	3.047	-3.585	2.442	2.442	6.026
2940	3.048	-3.594	2.444	2.444	6.037
2950	3.049	-3.603	2.446	2.446	6.048
2960	3.050	-3.612	2.448	2.448	6.059
2970	3.051	-3.621	2.450	2.450	6.070
2980	3.052	-3.630	2.452	2.452	6.081
2990	3.053	-3.639	2.454	2.454	6.093
3000	3.054	-3.648	2.456	2.456	6.104
3010	3.055	-3.656	2.458	2.458	6.114
3020	3.056	-3.664	2.460	2.460	6.124
3030	3.057	-3.672	2.462	2.462	6.133
3040	3.058	-3.680	2.464	2.464	6.143
3050	3.059	-3.688	2.466	2.466	6.153
3060	3.060	-3.695	2.468	2.468	6.162
3070	3.061	-3.702	2.470	2.470	6.171
3080	3.062	-3.710	2.472	2.472	6.181
3090	3.064	-3.716	2.474	2.474	6.191

SPECIE C(S)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
3100	3.065	-3.722	2.476	2.476	6.199
3110	3.065	-3.731	2.478	2.478	6.209
3120	3.066	-3.739	2.480	2.480	6.219
3130	3.066	-3.746	2.482	2.482	6.228
3140	3.067	-3.754	2.484	2.484	6.238
3150	3.067	-3.761	2.486	2.486	6.247
3160	3.068	-3.769	2.488	2.488	6.257
3170	3.068	-3.777	2.490	2.490	6.266
3180	3.069	-3.784	2.492	2.492	6.276
3190	3.069	-3.792	2.494	2.494	6.286
3200	3.070	-3.799	2.496	2.496	6.295
3210	3.070	-3.807	2.498	2.498	6.305
3220	3.071	-3.815	2.499	2.499	6.314
3230	3.072	-3.823	2.501	2.501	6.324
3240	3.073	-3.831	2.502	2.502	6.333
3250	3.074	-3.839	2.504	2.504	6.343
3260	3.075	-3.847	2.505	2.505	6.352
3270	3.076	-3.856	2.507	2.507	6.362
3280	3.077	-3.863	2.508	2.508	6.372
3290	3.078	-3.871	2.510	2.510	6.381
3300	3.080	-3.880	2.511	2.511	6.391
3310	3.081	-3.887	2.512	2.512	6.400
3320	3.082	-3.894	2.514	2.514	6.409
3330	3.083	-3.902	2.516	2.516	6.417
3340	3.084	-3.909	2.517	2.517	6.426
3350	3.085	-3.916	2.519	2.519	6.434
3360	3.086	-3.922	2.520	2.520	6.442
3370	3.087	-3.929	2.522	2.522	6.451
3380	3.088	-3.936	2.523	2.523	6.460
3390	3.089	-3.944	2.525	2.525	6.468
3400	3.090	-3.950	2.526	2.526	6.476
3410	3.090	-3.958	2.528	2.528	6.486
3420	3.091	-3.966	2.529	2.529	6.495
3430	3.091	-3.975	2.531	2.531	6.505
3440	3.092	-3.983	2.532	2.532	6.515
3450	3.092	-3.992	2.534	2.534	6.525
3460	3.093	-4.001	2.535	2.535	6.536
3470	3.093	-4.00	2.537	2.537	6.546
3480	3.094	-4.01	2.538	2.538	6.556
3490	3.094	-4.026	2.540	2.540	6.566
3500	3.095	-4.036	2.541	2.541	6.577
3510	3.095	-4.043	2.543	2.543	6.586
3520	3.096	-4.049	2.544	2.544	6.594
3530	3.096	-4.057	2.546	2.546	6.603
3540	3.097	-4.064	2.547	2.547	6.611
3550	3.097	-4.071	2.549	2.549	6.619
3560	3.098	-4.077	2.550	2.550	6.627
3570	3.098	-4.083	2.552	2.552	6.635
3580	3.099	-4.089	2.553	2.553	6.642
3590	3.099	-4.095	2.555	2.555	6.650

TEMP	CP/R	SPECIE C(S)			
		(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
3600	3.100	-4.101	2.556	2.556	6.657
3610	3.100	-4.108	2.558	2.558	6.666
3620	3.101	-4.115	2.559	2.559	6.675
3630	3.101	-4.123	2.561	2.561	6.684
3640	3.102	-4.131	2.562	2.562	6.693
3650	3.102	-4.139	2.564	2.564	6.702
3660	3.103	-4.146	2.565	2.565	6.711
3670	3.103	-4.154	2.567	2.567	6.721
3680	3.104	-4.161	2.568	2.568	6.729
3690	3.104	-4.169	2.570	2.570	6.738
3700	3.105	-4.177	2.571	2.571	6.748
3710	3.105	-4.184	2.573	2.573	6.757
3720	3.106	-4.191	2.574	2.574	6.765
3730	3.106	-4.198	2.576	2.576	6.774
3740	3.107	-4.205	2.577	2.577	6.783
3750	3.107	-4.212	2.579	2.579	6.791
3760	3.108	-4.219	2.580	2.580	6.800
3770	3.108	-4.226	2.582	2.582	6.808
3780	3.109	-4.233	2.583	2.583	6.817
3790	3.109	-4.240	2.585	2.585	6.825
3800	3.110	-4.247	2.586	2.586	6.834
3810	3.110	-4.254	2.588	2.588	6.842
3820	3.111	-4.261	2.589	2.589	6.850
3830	3.111	-4.267	2.591	2.591	6.858
3840	3.112	-4.274	2.592	2.592	6.866
3850	3.112	-4.280	2.594	2.594	6.874
3860	3.113	-4.287	2.596	2.596	6.882
3870	3.113	-4.293	2.597	2.597	6.890
3880	3.114	-4.300	2.599	2.599	6.898
3890	3.114	-4.306	2.600	2.600	6.906
3900	3.115	-4.312	2.602	2.602	6.914
3910	3.115	-4.319	2.603	2.603	6.922
3920	3.116	-4.326	2.605	2.605	6.930
3930	3.116	-4.332	2.606	2.606	6.938
3940	3.117	-4.339	2.608	2.608	6.946
3950	3.117	-4.345	2.609	2.609	6.954
3960	3.118	-4.352	2.611	2.611	6.962
3970	3.118	-4.358	2.612	2.612	6.970
3980	3.119	-4.365	2.614	2.614	6.978
3990	3.119	-4.371	2.615	2.615	6.986
4000	3.120	-4.378	2.617	2.617	6.995
4010	3.120	-4.384	2.618	2.618	7.002
4020	3.121	-4.390	2.619	2.619	7.009
4030	3.121	-4.397	2.620	2.620	7.016
4040	3.122	-4.403	2.621	2.621	7.023
4050	3.122	-4.409	2.622	2.622	7.030
4060	3.123	-4.415	2.623	2.623	7.037
4070	3.123	-4.421	2.624	2.624	7.044
4080	3.124	-4.427	2.625	2.625	7.052
4090	3.124	-4.432	2.626	2.626	7.058

SPECIE C(S)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
4100	3.125	-4.438	2.627	2.627	7.065
4110	3.125	-4.445	2.628	2.628	7.073
4120	3.125	-4.451	2.629	2.629	7.080
4130	3.125	-4.457	2.631	2.631	7.089
4140	3.125	-4.464	2.632	2.632	7.097
4150	3.125	-4.470	2.634	2.634	7.105
4160	3.125	-4.477	2.635	2.635	7.113
4170	3.125	-4.484	2.637	2.637	7.121
4180	3.125	-4.490	2.638	2.638	7.129
4190	3.125	-4.497	2.640	2.640	7.137
4200	3.125	-4.504	2.642	2.642	7.146
4210	3.125	-4.510	2.643	2.643	7.154
4220	3.125	-4.517	2.645	2.645	7.162
4230	3.126	-4.523	2.646	2.646	7.170
4240	3.127	-4.530	2.648	2.648	7.178
4250	3.127	-4.536	2.649	2.649	7.186
4260	3.128	-4.543	2.651	2.651	7.194
4270	3.128	-4.549	2.652	2.652	7.202
4280	3.129	-4.556	2.654	2.654	7.210
4290	3.129	-4.563	2.655	2.655	7.218
4300	3.130	-4.569	2.657	2.657	7.226
4310	3.130	-4.576	2.658	2.658	7.234
4320	3.131	-4.582	2.659	2.659	7.242
4330	3.131	-4.589	2.660	2.660	7.249
4340	3.132	-4.595	2.661	2.661	7.257
4350	3.132	-4.602	2.662	2.662	7.264
4360	3.133	-4.608	2.663	2.663	7.272
4370	3.133	-4.615	2.664	2.664	7.279
4380	3.134	-4.621	2.665	2.665	7.287
4390	3.134	-4.628	2.666	2.666	7.294
4400	3.135	-4.635	2.667	2.667	7.301
4410	3.135	-4.641	2.668	2.668	7.309
4420	3.136	-4.648	2.669	2.669	7.317
4430	3.136	-4.654	2.670	2.670	7.324
4440	3.137	-4.661	2.671	2.671	7.332
4450	3.137	-4.667	2.672	2.672	7.339
4460	3.138	-4.674	2.673	2.673	7.347
4470	3.138	-4.680	2.674	2.674	7.354
4480	3.139	-4.687	2.675	2.675	7.362
4490	3.139	-4.693	2.676	2.676	7.369
4500	3.140	-4.700	2.677	2.677	7.377
4510	3.140	-4.706	2.678	2.678	7.384
4520	3.140	-4.712	2.679	2.679	7.391
4530	3.140	-4.719	2.680	2.680	7.399
4540	3.140	-4.725	2.681	2.681	7.406
4550	3.140	-4.731	2.682	2.682	7.413
4560	3.140	-4.737	2.683	2.683	7.420
4570	3.140	-4.743	2.684	2.684	7.427
4580	3.140	-4.749	2.685	2.685	7.434
4590	3.140	-4.754	2.686	2.686	7.441

SPECIE C(S)

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
4600	3.140	-4.760	2.687	2.687	7.447
4610	3.140	-4.766	2.688	2.688	7.455
4620	3.141	-4.772	2.690	2.690	7.462
4630	3.141	-4.778	2.691	2.691	7.470
4640	3.142	-4.784	2.693	2.693	7.477
4650	3.142	-4.790	2.694	2.694	7.485
4660	3.143	-4.797	2.696	2.696	7.492
4670	3.143	-4.803	2.697	2.697	7.500
4680	3.144	-4.809	2.699	2.699	7.507
4690	3.144	-4.815	2.700	2.700	7.515
4700	3.145	-4.821	2.702	2.702	7.523
4710	3.145	-4.827	2.704	2.704	7.530
4720	3.145	-4.833	2.705	2.705	7.538
4730	3.145	-4.839	2.707	2.707	7.546
4740	3.145	-4.845	2.708	2.708	7.553
4750	3.145	-4.851	2.710	2.710	7.561
4760	3.145	-4.857	2.711	2.711	7.568
4770	3.145	-4.863	2.713	2.713	7.576
4780	3.145	-4.869	2.714	2.714	7.583
4790	3.145	-4.875	2.716	2.716	7.591
4800	3.145	-4.881	2.717	2.717	7.598
4810	3.145	-4.887	2.719	2.719	7.606
4820	3.145	-4.893	2.720	2.720	7.613
4830	3.145	-4.899	2.721	2.721	7.620
4840	3.145	-4.905	2.722	2.722	7.627
4850	3.145	-4.911	2.723	2.723	7.634
4860	3.145	-4.917	2.724	2.724	7.641
4870	3.145	-4.923	2.725	2.725	7.648
4880	3.145	-4.929	2.726	2.726	7.655
4890	3.145	-4.935	2.727	2.727	7.662
4900	3.145	-4.941	2.727	2.727	7.669
4910	3.145	-4.948	2.728	2.728	7.676
4920	3.146	-4.954	2.729	2.729	7.683
4930	3.146	-4.960	2.730	2.730	7.690
4940	3.147	-4.966	2.731	2.731	7.697
4950	3.147	-4.972	2.732	2.732	7.704
4960	3.148	-4.978	2.733	2.733	7.711
4970	3.148	-4.984	2.734	2.734	7.718
4980	3.149	-4.990	2.735	2.735	7.725
4990	3.149	-4.996	2.736	2.736	7.732
5000	3.150	-5.002	2.737	2.737	7.739
5010	3.150	-5.008	2.738	2.738	7.746
5020	3.150	-5.013	2.739	2.739	7.753
5030	3.150	-5.019	2.740	2.740	7.759
5040	3.150	-5.025	2.741	2.741	7.766
5050	3.150	-5.030	2.742	2.742	7.773
5060	3.150	-5.036	2.743	2.743	7.779
5070	3.150	-5.041	2.744	2.744	7.786
5080	3.150	-5.047	2.745	2.745	7.792
5090	3.150	-5.052	2.746	2.746	7.798

TEMP	CP/R	SPECIE C(S)			
		(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
5100	3.150	-5.057	2.747	2.747	7.805
5110	3.150	-5.063	2.749	2.749	7.812
5120	3.150	-5.069	2.750	2.750	7.818
5130	3.150	-5.075	2.751	2.751	7.825
5140	3.150	-5.081	2.752	2.752	7.832
5150	3.150	-5.087	2.753	2.753	7.839
5160	3.150	-5.093	2.754	2.754	7.846
5170	3.150	-5.099	2.755	2.755	7.853
5180	3.150	-5.105	2.756	2.756	7.861
5190	3.150	-5.111	2.757	2.757	7.868
5200	3.150	-5.118	2.758	2.758	7.875
5210	3.150	-5.124	2.759	2.759	7.882
5220	3.151	-5.130	2.760	2.760	7.890
5230	3.151	-5.136	2.762	2.762	7.897
5240	3.152	-5.142	2.763	2.763	7.905
5250	3.152	-5.148	2.765	2.765	7.912
5260	3.153	-5.154	2.766	2.766	7.920
5270	3.153	-5.160	2.768	2.768	7.927
5280	3.154	-5.166	2.769	2.769	7.935
5290	3.154	-5.172	2.771	2.771	7.943
5300	3.155	-5.178	2.773	2.773	7.951
5310	3.155	-5.184	2.774	2.774	7.958
5320	3.155	-5.190	2.775	2.775	7.965
5330	3.155	-5.196	2.776	2.776	7.972
5340	3.155	-5.202	2.777	2.777	7.979
5350	3.155	-5.208	2.778	2.778	7.986
5360	3.155	-5.214	2.779	2.779	7.993
5370	3.155	-5.220	2.780	2.780	8.000
5380	3.155	-5.226	2.781	2.781	8.007
5390	3.155	-5.232	2.782	2.782	8.014
5400	3.155	-5.238	2.783	2.783	8.021
5410	3.155	-5.244	2.784	2.784	8.028
5420	3.156	-5.250	2.785	2.785	8.035
5430	3.157	-5.255	2.787	2.787	8.042
5440	3.157	-5.261	2.788	2.788	8.049
5450	3.157	-5.267	2.790	2.790	8.056
5460	3.158	-5.272	2.791	2.791	8.063
5470	3.158	-5.278	2.793	2.793	8.070
5480	3.159	-5.283	2.794	2.794	8.077
5490	3.159	-5.288	2.796	2.796	8.084
5500	3.160	-5.294	2.798	2.798	8.092
5510	3.160	-5.299	2.799	2.799	8.098
5520	3.160	-5.305	2.800	2.800	8.105
5530	3.160	-5.310	2.801	2.801	8.112
5540	3.160	-5.316	2.802	2.802	8.118
5550	3.160	-5.321	2.803	2.803	8.125
5560	3.160	-5.327	2.804	2.804	8.131
5570	3.160	-5.332	2.805	2.805	8.138
5580	3.160	-5.338	2.806	2.806	8.144
5590	3.160	-5.344	2.807	2.807	8.151

TEMP	CP/R	SPECIE C(S)			
		(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
5600	3.160	-5.349	2.808	2.808	8.157
5610	3.160	-5.355	2.809	2.809	8.163
5620	3.160	-5.360	2.810	2.810	8.170
5630	3.160	-5.366	2.811	2.811	8.177
5640	3.160	-5.371	2.812	2.812	8.183
5650	3.160	-5.377	2.813	2.813	8.190
5660	3.160	-5.382	2.814	2.814	8.196
5670	3.160	-5.388	2.815	2.815	8.203
5680	3.160	-5.393	2.816	2.816	8.209
5690	3.160	-5.399	2.817	2.817	8.216
5700	3.160	-5.404	2.818	2.818	8.222
5710	3.160	-5.410	2.819	2.819	8.229
5720	3.161	-5.415	2.820	2.820	8.235
5730	3.162	-5.421	2.821	2.821	8.242
5740	3.162	-5.427	2.822	2.822	8.249
5750	3.162	-5.432	2.823	2.823	8.255
5760	3.163	-5.438	2.824	2.824	8.262
5770	3.163	-5.443	2.825	2.825	8.268
5780	3.164	-5.449	2.826	2.826	8.275
5790	3.164	-5.454	2.827	2.827	8.281
5800	3.165	-5.460	2.828	2.828	8.288
5810	3.165	-5.465	2.829	2.829	8.294
5820	3.165	-5.471	2.830	2.830	8.301
5830	3.165	-5.476	2.831	2.831	8.307
5840	3.165	-5.482	2.832	2.832	8.314
5850	3.165	-5.487	2.833	2.833	8.320
5860	3.165	-5.493	2.834	2.834	8.327
5870	3.165	-5.499	2.835	2.835	8.334
5880	3.165	-5.504	2.836	2.836	8.340
5890	3.165	-5.510	2.837	2.837	8.347
5900	3.165	-5.515	2.838	2.838	8.353
5910	3.165	-5.521	2.839	2.839	8.360
5920	3.165	-5.526	2.840	2.840	8.366
5930	3.165	-5.532	2.841	2.841	8.373
5940	3.165	-5.537	2.842	2.842	8.379
5950	3.165	-5.543	2.843	2.843	8.386
5960	3.165	-5.548	2.844	2.844	8.392
5970	3.165	-5.554	2.845	2.845	8.399
5980	3.165	-5.559	2.846	2.846	8.406
5990	3.165	-5.565	2.847	2.847	8.412
6000	3.165	-5.570	2.848	2.848	8.419

SPECIE C2

MOLECULAR WEIGHT EQUALS 24.02278

DELTA E ZERO EQUALS 196.300 (KCAL/MOL)

REFERENCES.

DELTA E ZERO

(J. S. GORDON, RMD 210-E3, 1/60) (5)

THERMAL

(J. S. GORDON, RMD 210-E3, 1/60) (5)

SPECIE C2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	4.403	-1.630+1	3.860	9.917+2	2.016+1	7.125+2
110	4.651	-1.633+1	3.867	9.164+2	2.020+1	6.569+2
120	4.859	-1.640+1	3.875	8.481+2	2.028+1	6.065+2
130	5.030	-1.650+1	3.885	7.863+2	2.039+1	5.610+2
140	5.170	-1.662+1	3.897	7.306+2	2.052+1	5.199+2
150	5.279	-1.677+1	3.910	6.805+2	2.068+1	4.829+2
160	5.362	-1.693+1	3.925	6.354+2	2.086+1	4.498+2
170	5.422	-1.711+1	3.940	5.950+2	2.105+1	4.200+2
180	5.460	-1.730+1	3.957	5.589+2	2.126+1	3.935+2
190	5.481	-1.750+1	3.975	5.267+2	2.147+1	3.697+2
200	5.485	-1.770+1	3.993	4.979+2	2.170+1	3.486+2
210	5.476	-1.792+1	4.012	4.723+2	2.193+1	3.297+2
220	5.455	-1.813+1	4.032	4.494+2	2.216+1	3.130+2
230	5.425	-1.834+1	4.053	4.291+2	2.239+1	2.980+2
240	5.387	-1.855+1	4.074	4.109+2	2.263+1	2.847+2
250	5.344	-1.876+1	4.095	3.946+2	2.286+1	2.727+2
260	5.296	-1.896+1	4.117	3.800+2	2.308+1	2.620+2
270	5.246	-1.916+1	4.138	3.667+2	2.330+1	2.523+2
280	5.194	-1.935+1	4.160	3.547+2	2.351+1	2.435+2
290	5.142	-1.953+1	4.182	3.437+2	2.372+1	2.354+2
300	5.090	-1.971+1	4.203	3.335+2	2.391+1	2.279+2
310	5.051	-1.985+1	4.226	3.226+2	2.408+1	2.199+2
320	5.013	-1.999+1	4.248	3.125+2	2.424+1	2.125+2
330	4.975	-2.013+1	4.269	3.031+2	2.440+1	2.056+2
340	4.937	-2.026+1	4.289	2.943+2	2.455+1	1.991+2
350	4.900	-2.038+1	4.308	2.860+2	2.469+1	1.930+2
360	4.863	-2.050+1	4.326	2.782+2	2.483+1	1.872+2
370	4.826	-2.062+1	4.342	2.709+2	2.496+1	1.819+2
380	4.790	-2.073+1	4.356	2.640+2	2.509+1	1.768+2
390	4.754	-2.084+1	4.370	2.575+2	2.521+1	1.720+2
400	4.720	-2.095+1	4.381	2.513+2	2.533+1	1.674+2
410	4.685	-2.105+1	4.391	2.455+2	2.544+1	1.631+2
420	4.652	-2.116+1	4.400	2.398+2	2.555+1	1.589+2
430	4.619	-2.126+1	4.406	2.345+2	2.566+1	1.550+2
440	4.587	-2.136+1	4.412	2.293+2	2.577+1	1.512+2
450	4.557	-2.145+1	4.415	2.244+2	2.587+1	1.475+2
460	4.527	-2.155+1	4.418	2.196+2	2.597+1	1.440+2
470	4.498	-2.165+1	4.419	2.150+2	2.607+1	1.406+2
480	4.471	-2.175+1	4.419	2.105+2	2.616+1	1.373+2
490	4.445	-2.184+1	4.418	2.062+2	2.625+1	1.342+2
500	4.420	-2.193+1	4.416	2.020+2	2.635+1	1.311+2
510	4.398	-2.202+1	4.416	1.981+2	2.643+1	1.283+2
520	4.378	-2.210+1	4.415	1.944+2	2.652+1	1.255+2
530	4.360	-2.219+1	4.414	1.909+2	2.660+1	1.229+2
540	4.343	-2.227+1	4.413	1.874+2	2.668+1	1.204+2
550	4.328	-2.235+1	4.412	1.841+2	2.676+1	1.180+2
560	4.315	-2.243+1	4.410	1.809+2	2.684+1	1.156+2
570	4.302	-2.251+1	4.409	1.778+2	2.692+1	1.133+2
580	4.292	-2.258+1	4.407	1.748+2	2.699+1	1.111+2
590	4.282	-2.266+1	4.405	1.719+2	2.706+1	1.089+2

SPECIE C2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	4.274	-2.273+1	4.403	1.690+2	2.714+1	1.069+2
610	4.265	-2.281+1	4.401	1.663+2	2.721+1	1.049+2
620	4.257	-2.288+1	4.399	1.637+2	2.728+1	1.030+2
630	4.250	-2.295+1	4.396	1.612+2	2.734+1	1.011+2
640	4.244	-2.302+1	4.394	1.588+2	2.741+1	9.930+1
650	4.239	-2.309+1	4.392	1.564+2	2.748+1	9.756+1
660	4.234	-2.315+1	4.389	1.541+2	2.754+1	9.586+1
670	4.230	-2.322+1	4.387	1.518+2	2.761+1	9.421+1
680	4.226	-2.328+1	4.385	1.497+2	2.767+1	9.261+1
690	4.223	-2.335+1	4.383	1.476+2	2.773+1	9.105+1
700	4.221	-2.341+1	4.380	1.455+2	2.779+1	8.953+1
710	4.220	-2.347+1	4.378	1.435+2	2.785+1	8.807+1
720	4.217	-2.353+1	4.376	1.416+2	2.791+1	8.665+1
730	4.216	-2.359+1	4.373	1.397+2	2.797+1	8.526+1
740	4.215	-2.365+1	4.371	1.379+2	2.802+1	8.392+1
750	4.214	-2.371+1	4.369	1.361+2	2.808+1	8.261+1
760	4.214	-2.377+1	4.367	1.344+2	2.814+1	8.133+1
770	4.214	-2.383+1	4.365	1.327+2	2.819+1	8.008+1
780	4.214	-2.388+1	4.363	1.310+2	2.825+1	7.887+1
790	4.215	-2.394+1	4.361	1.294+2	2.830+1	7.768+1
800	4.215	-2.399+1	4.359	1.278+2	2.835+1	7.652+1
810	4.216	-2.405+1	4.358	1.263+2	2.841+1	7.540+1
820	4.217	-2.410+1	4.356	1.248+2	2.846+1	7.430+1
830	4.218	-2.415+1	4.354	1.234+2	2.851+1	7.323+1
840	4.220	-2.421+1	4.353	1.220+2	2.856+1	7.219+1
850	4.221	-2.426+1	4.351	1.206+2	2.861+1	7.117+1
860	4.223	-2.431+1	4.350	1.192+2	2.866+1	7.017+1
870	4.225	-2.436+1	4.348	1.179+2	2.871+1	6.919+1
880	4.227	-2.441+1	4.347	1.166+2	2.876+1	6.824+1
890	4.228	-2.446+1	4.345	1.153+2	2.880+1	6.731+1
900	4.231	-2.451+1	4.344	1.141+2	2.885+1	6.639+1
910	4.233	-2.455+1	4.343	1.129+2	2.890+1	6.550+1
920	4.235	-2.460+1	4.342	1.117+2	2.894+1	6.463+1
930	4.237	-2.465+1	4.341	1.106+2	2.899+1	6.378+1
940	4.240	-2.470+1	4.339	1.094+2	2.903+1	6.295+1
950	4.242	-2.474+1	4.338	1.083+2	2.908+1	6.213+1
960	4.245	-2.479+1	4.337	1.072+2	2.912+1	6.133+1
970	4.247	-2.483+1	4.336	1.062+2	2.917+1	6.054+1
980	4.250	-2.488+1	4.336	1.051+2	2.921+1	5.977+1
990	4.252	-2.492+1	4.335	1.041+2	2.925+1	5.902+1
1000	4.255	-2.496+1	4.334	1.031+2	2.930+1	5.828+1
1010	4.258	-2.501+1	4.333	1.021+2	2.934+1	5.756+1
1020	4.260	-2.505+1	4.332	1.012+2	2.938+1	5.685+1
1030	4.263	-2.509+1	4.332	1.002+2	2.942+1	5.616+1
1040	4.265	-2.513+1	4.331	9.932+1	2.946+1	5.547+1
1050	4.268	-2.517+1	4.330	9.841+1	2.951+1	5.480+1
1060	4.271	-2.522+1	4.330	9.752+1	2.955+1	5.415+1
1070	4.273	-2.526+1	4.329	9.665+1	2.959+1	5.350+1
1080	4.276	-2.530+1	4.329	9.580+1	2.963+1	5.287+1
1090	4.279	-2.534+1	4.328	9.495+1	2.967+1	5.225+1

SPECIE C2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	4.282	-2.538+1	4.328	9.413+1	2.970+1	5.164+1
1110	4.284	-2.542+1	4.328	9.332+1	2.974+1	5.104+1
1120	4.287	-2.545+1	4.327	9.252+1	2.978+1	5.045+1
1130	4.290	-2.549+1	4.327	9.175+1	2.982+1	4.987+1
1140	4.293	-2.553+1	4.327	9.098+1	2.986+1	4.931+1
1150	4.295	-2.557+1	4.326	9.022+1	2.990+1	4.875+1
1160	4.298	-2.561+1	4.326	8.948+1	2.993+1	4.820+1
1170	4.301	-2.564+1	4.326	8.876+1	2.997+1	4.766+1
1180	4.303	-2.568+1	4.326	8.804+1	3.001+1	4.713+1
1190	4.306	-2.572+1	4.325	8.734+1	3.004+1	4.661+1
1200	4.309	-2.575+1	4.325	8.664+1	3.008+1	4.610+1
1210	4.312	-2.579+1	4.325	8.596+1	3.011+1	4.559+1
1220	4.314	-2.582+1	4.325	8.529+1	3.015+1	4.510+1
1230	4.317	-2.586+1	4.325	8.463+1	3.018+1	4.461+1
1240	4.319	-2.589+1	4.325	8.399+1	3.022+1	4.413+1
1250	4.322	-2.593+1	4.325	8.335+1	3.025+1	4.366+1
1260	4.325	-2.596+1	4.325	8.272+1	3.029+1	4.319+1
1270	4.327	-2.600+1	4.325	8.210+1	3.032+1	4.273+1
1280	4.330	-2.603+1	4.325	8.150+1	3.036+1	4.228+1
1290	4.332	-2.607+1	4.325	8.090+1	3.039+1	4.184+1
1300	4.335	-2.610+1	4.325	8.031+1	3.042+1	4.140+1
1310	4.337	-2.613+1	4.325	7.973+1	3.046+1	4.097+1
1320	4.340	-2.616+1	4.325	7.916+1	3.049+1	4.055+1
1330	4.342	-2.620+1	4.326	7.860+1	3.052+1	4.013+1
1340	4.344	-2.623+1	4.326	7.804+1	3.056+1	3.972+1
1350	4.347	-2.626+1	4.326	7.750+1	3.059+1	3.932+1
1360	4.349	-2.629+1	4.326	7.696+1	3.062+1	3.892+1
1370	4.352	-2.633+1	4.326	7.643+1	3.065+1	3.852+1
1380	4.354	-2.636+1	4.326	7.591+1	3.068+1	3.814+1
1390	4.356	-2.639+1	4.326	7.539+1	3.072+1	3.775+1
1400	4.359	-2.642+1	4.327	7.489+1	3.075+1	3.738+1
1410	4.361	-2.645+1	4.327	7.439+1	3.078+1	3.701+1
1420	4.363	-2.648+1	4.327	7.389+1	3.081+1	3.664+1
1430	4.366	-2.651+1	4.328	7.341+1	3.084+1	3.628+1
1440	4.368	-2.654+1	4.328	7.293+1	3.087+1	3.592+1
1450	4.370	-2.657+1	4.328	7.245+1	3.090+1	3.557+1
1460	4.373	-2.660+1	4.328	7.199+1	3.093+1	3.522+1
1470	4.375	-2.663+1	4.329	7.153+1	3.096+1	3.488+1
1480	4.377	-2.666+1	4.329	7.107+1	3.099+1	3.454+1
1490	4.380	-2.669+1	4.329	7.063+1	3.102+1	3.421+1
1500	4.382	-2.672+1	4.330	7.018+1	3.105+1	3.388+1
1510	4.384	-2.675+1	4.330	6.975+1	3.108+1	3.356+1
1520	4.386	-2.678+1	4.330	6.932+1	3.111+1	3.324+1
1530	4.389	-2.680+1	4.331	6.889+1	3.113+1	3.292+1
1540	4.391	-2.683+1	4.331	6.848+1	3.116+1	3.261+1
1550	4.393	-2.686+1	4.331	6.806+1	3.119+1	3.230+1
1560	4.395	-2.689+1	4.332	6.765+1	3.122+1	3.200+1
1570	4.397	-2.692+1	4.332	6.725+1	3.125+1	3.170+1
1580	4.399	-2.694+1	4.333	6.685+1	3.128+1	3.141+1
1590	4.401	-2.697+1	4.333	6.646+1	3.130+1	3.111+1

SPECIE C2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	4.404	-2.700+1	4.334	6.607+1	3.133+1	3.082+1
1610	4.406	-2.702+1	4.334	6.569+1	3.136+1	3.054+1
1620	4.408	-2.705+1	4.335	6.531+1	3.139+1	3.026+1
1630	4.410	-2.708+1	4.335	6.494+1	3.141+1	2.998+1
1640	4.412	-2.710+1	4.335	6.457+1	3.144+1	2.970+1
1650	4.414	-2.713+1	4.336	6.420+1	3.147+1	2.943+1
1660	4.416	-2.716+1	4.336	6.384+1	3.149+1	2.917+1
1670	4.418	-2.718+1	4.337	6.349+1	3.152+1	2.890+1
1680	4.420	-2.721+1	4.337	6.314+1	3.155+1	2.864+1
1690	4.422	-2.724+1	4.338	6.279+1	3.157+1	2.838+1
1700	4.424	-2.726+1	4.338	6.245+1	3.160+1	2.812+1
1710	4.426	-2.729+1	4.339	6.211+1	3.162+1	2.787+1
1720	4.428	-2.731+1	4.339	6.177+1	3.165+1	2.762+1
1730	4.430	-2.734+1	4.340	6.144+1	3.168+1	2.737+1
1740	4.432	-2.736+1	4.340	6.111+1	3.170+1	2.713+1
1750	4.434	-2.739+1	4.341	6.079+1	3.173+1	2.689+1
1760	4.435	-2.741+1	4.341	6.047+1	3.175+1	2.665+1
1770	4.437	-2.744+1	4.342	6.015+1	3.178+1	2.641+1
1780	4.439	-2.746+1	4.342	5.984+1	3.180+1	2.618+1
1790	4.441	-2.748+1	4.343	5.953+1	3.183+1	2.595+1
1800	4.443	-2.751+1	4.344	5.922+1	3.185+1	2.572+1
1810	4.445	-2.753+1	4.344	5.892+1	3.188+1	2.549+1
1820	4.447	-2.756+1	4.345	5.862+1	3.190+1	2.527+1
1830	4.449	-2.758+1	4.345	5.832+1	3.193+1	2.505+1
1840	4.451	-2.760+1	4.346	5.803+1	3.195+1	2.483+1
1850	4.453	-2.763+1	4.346	5.774+1	3.197+1	2.461+1
1860	4.455	-2.765+1	4.347	5.746+1	3.200+1	2.440+1
1870	4.456	-2.767+1	4.348	5.717+1	3.202+1	2.419+1
1880	4.458	-2.770+1	4.348	5.689+1	3.205+1	2.398+1
1890	4.460	-2.772+1	4.349	5.661+1	3.207+1	2.377+1
1900	4.462	-2.774+1	4.349	5.634+1	3.209+1	2.357+1
1910	4.464	-2.777+1	4.350	5.607+1	3.212+1	2.336+1
1920	4.466	-2.779+1	4.350	5.580+1	3.214+1	2.316+1
1930	4.467	-2.781+1	4.351	5.553+1	3.216+1	2.297+1
1940	4.469	-2.783+1	4.352	5.527+1	3.219+1	2.277+1
1950	4.471	-2.786+1	4.352	5.501+1	3.221+1	2.257+1
1960	4.473	-2.788+1	4.353	5.475+1	3.223+1	2.238+1
1970	4.474	-2.790+1	4.353	5.450+1	3.225+1	2.219+1
1980	4.476	-2.792+1	4.354	5.424+1	3.228+1	2.200+1
1990	4.478	-2.794+1	4.355	5.399+1	3.230+1	2.181+1
2000	4.480	-2.797+1	4.355	5.375+1	3.232+1	2.163+1
2010	4.481	-2.799+1	4.356	5.350+1	3.234+1	2.145+1
2020	4.483	-2.801+1	4.356	5.326+1	3.237+1	2.126+1
2030	4.485	-2.803+1	4.357	5.302+1	3.239+1	2.108+1
2040	4.486	-2.805+1	4.358	5.278+1	3.241+1	2.091+1
2050	4.488	-2.807+1	4.358	5.254+1	3.243+1	2.073+1
2060	4.490	-2.810+1	4.359	5.231+1	3.245+1	2.056+1
2070	4.492	-2.812+1	4.360	5.208+1	3.248+1	2.038+1
2080	4.493	-2.814+1	4.360	5.185+1	3.250+1	2.021+1
2090	4.495	-2.816+1	4.361	5.163+1	3.252+1	2.004+1

SPECIE C2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	4.497	-2.818+1	4.362	5.140+1	3.254+1	1.987+1
2110	4.498	-2.820+1	4.362	5.118+1	3.256+1	1.971+1
2120	4.500	-2.822+1	4.363	5.096+1	3.258+1	1.954+1
2130	4.502	-2.824+1	4.364	5.074+1	3.260+1	1.938+1
2140	4.503	-2.826+1	4.364	5.052+1	3.263+1	1.922+1
2150	4.505	-2.828+1	4.365	5.031+1	3.265+1	1.906+1
2160	4.507	-2.830+1	4.366	5.010+1	3.267+1	1.890+1
2170	4.508	-2.832+1	4.366	4.989+1	3.269+1	1.874+1
2180	4.510	-2.834+1	4.367	4.968+1	3.271+1	1.859+1
2190	4.512	-2.836+1	4.368	4.947+1	3.273+1	1.843+1
2200	4.513	-2.838+1	4.368	4.927+1	3.275+1	1.828+1
2210	4.515	-2.840+1	4.369	4.907+1	3.277+1	1.813+1
2220	4.516	-2.842+1	4.370	4.887+1	3.279+1	1.798+1
2230	4.518	-2.844+1	4.370	4.867+1	3.281+1	1.783+1
2240	4.520	-2.846+1	4.371	4.847+1	3.283+1	1.768+1
2250	4.521	-2.848+1	4.372	4.827+1	3.285+1	1.753+1
2260	4.523	-2.850+1	4.372	4.808+1	3.287+1	1.739+1
2270	4.524	-2.852+1	4.373	4.789+1	3.289+1	1.724+1
2280	4.526	-2.854+1	4.374	4.770+1	3.291+1	1.710+1
2290	4.527	-2.856+1	4.374	4.751+1	3.293+1	1.696+1
2300	4.529	-2.858+1	4.375	4.732+1	3.295+1	1.682+1
2310	4.530	-2.860+1	4.376	4.714+1	3.297+1	1.668+1
2320	4.532	-2.861+1	4.376	4.695+1	3.299+1	1.654+1
2330	4.534	-2.863+1	4.377	4.677+1	3.301+1	1.641+1
2340	4.535	-2.865+1	4.378	4.659+1	3.303+1	1.627+1
2350	4.537	-2.867+1	4.378	4.641+1	3.305+1	1.614+1
2360	4.538	-2.869+1	4.379	4.624+1	3.307+1	1.600+1
2370	4.540	-2.871+1	4.380	4.606+1	3.309+1	1.587+1
2380	4.541	-2.873+1	4.380	4.589+1	3.311+1	1.574+1
2390	4.543	-2.874+1	4.381	4.571+1	3.313+1	1.561+1
2400	4.544	-2.876+1	4.382	4.554+1	3.314+1	1.548+1
2410	4.546	-2.878+1	4.382	4.537+1	3.316+1	1.535+1
2420	4.547	-2.880+1	4.383	4.520+1	3.318+1	1.523+1
2430	4.549	-2.882+1	4.384	4.503+1	3.320+1	1.510+1
2440	4.550	-2.884+1	4.384	4.487+1	3.322+1	1.498+1
2450	4.552	-2.885+1	4.385	4.470+1	3.324+1	1.485+1
2460	4.553	-2.887+1	4.386	4.454+1	3.326+1	1.473+1
2470	4.555	-2.889+1	4.386	4.438+1	3.328+1	1.461+1
2480	4.556	-2.891+1	4.387	4.422+1	3.329+1	1.449+1
2490	4.558	-2.892+1	4.388	4.406+1	3.331+1	1.437+1
2500	4.559	-2.894+1	4.388	4.390+1	3.333+1	1.425+1
2510	4.560	-2.896+1	4.389	4.374+1	3.335+1	1.413+1
2520	4.562	-2.898+1	4.390	4.359+1	3.337+1	1.401+1
2530	4.563	-2.899+1	4.390	4.343+1	3.339+1	1.390+1
2540	4.565	-2.901+1	4.391	4.328+1	3.340+1	1.378+1
2550	4.566	-2.903+1	4.392	4.313+1	3.342+1	1.367+1
2560	4.568	-2.905+1	4.392	4.298+1	3.344+1	1.356+1
2570	4.569	-2.906+1	4.393	4.283+1	3.346+1	1.344+1
2580	4.570	-2.908+1	4.394	4.268+1	3.347+1	1.333+1
2590	4.572	-2.910+1	4.395	4.253+1	3.349+1	1.322+1

SPECIE C2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	4.573	-2.911+1	4.395	4.239+1	3.351+1	1.311+1
2610	4.575	-2.913+1	4.396	4.224+1	3.353+1	1.300+1
2620	4.576	-2.915+1	4.397	4.210+1	3.354+1	1.289+1
2630	4.577	-2.917+1	4.397	4.196+1	3.356+1	1.279+1
2640	4.579	-2.918+1	4.398	4.182+1	3.358+1	1.268+1
2650	4.580	-2.920+1	4.399	4.168+1	3.360+1	1.257+1
2660	4.582	-2.922+1	4.399	4.154+1	3.361+1	1.247+1
2670	4.583	-2.923+1	4.400	4.140+1	3.363+1	1.236+1
2680	4.584	-2.925+1	4.401	4.126+1	3.365+1	1.226+1
2690	4.586	-2.926+1	4.401	4.112+1	3.367+1	1.216+1
2700	4.587	-2.928+1	4.402	4.099+1	3.368+1	1.206+1
2710	4.589	-2.930+1	4.403	4.085+1	3.370+1	1.195+1
2720	4.590	-2.931+1	4.403	4.072+1	3.372+1	1.185+1
2730	4.591	-2.933+1	4.404	4.059+1	3.373+1	1.175+1
2740	4.593	-2.935+1	4.405	4.046+1	3.375+1	1.166+1
2750	4.594	-2.936+1	4.406	4.033+1	3.377+1	1.156+1
2760	4.595	-2.938+1	4.406	4.020+1	3.378+1	1.146+1
2770	4.596	-2.939+1	4.407	4.007+1	3.380+1	1.136+1
2780	4.598	-2.941+1	4.408	3.994+1	3.382+1	1.127+1
2790	4.599	-2.942+1	4.408	3.981+1	3.383+1	1.117+1
2800	4.600	-2.944+1	4.409	3.969+1	3.385+1	1.108+1
2810	4.602	-2.946+1	4.410	3.956+1	3.387+1	1.098+1
2820	4.603	-2.947+1	4.410	3.944+1	3.388+1	1.089+1
2830	4.604	-2.949+1	4.411	3.932+1	3.390+1	1.080+1
2840	4.606	-2.950+1	4.412	3.919+1	3.392+1	1.070+1
2850	4.607	-2.952+1	4.412	3.907+1	3.393+1	1.061+1
2860	4.608	-2.953+1	4.413	3.895+1	3.395+1	1.052+1
2870	4.609	-2.955+1	4.414	3.883+1	3.396+1	1.043+1
2880	4.611	-2.957+1	4.414	3.871+1	3.398+1	1.034+1
2890	4.612	-2.958+1	4.415	3.860+1	3.400+1	1.025+1
2900	4.613	-2.960+1	4.416	3.848+1	3.401+1	1.016+1
2910	4.615	-2.961+1	4.417	3.836+1	3.403+1	1.008+1
2920	4.616	-2.963+1	4.417	3.825+1	3.404+1	9.988
2930	4.617	-2.964+1	4.418	3.813+1	3.406+1	9.901
2940	4.618	-2.966+1	4.419	3.802+1	3.407+1	9.815
2950	4.620	-2.967+1	4.419	3.790+1	3.409+1	9.730
2960	4.621	-2.969+1	4.420	3.779+1	3.411+1	9.645
2970	4.622	-2.970+1	4.421	3.768+1	3.412+1	9.560
2980	4.623	-2.972+1	4.421	3.757+1	3.414+1	9.476
2990	4.625	-2.973+1	4.422	3.746+1	3.415+1	9.393
3000	4.626	-2.975+1	4.423	3.735+1	3.417+1	9.310
3010	4.627	-2.976+1	4.423	3.724+1	3.418+1	9.228
3020	4.628	-2.977+1	4.424	3.713+1	3.420+1	9.146
3030	4.630	-2.979+1	4.425	3.703+1	3.421+1	9.065
3040	4.631	-2.980+1	4.425	3.692+1	3.423+1	8.985
3050	4.632	-2.982+1	4.426	3.681+1	3.424+1	8.905
3060	4.634	-2.983+1	4.427	3.671+1	3.426+1	8.825
3070	4.635	-2.985+1	4.427	3.660+1	3.427+1	8.746
3080	4.636	-2.986+1	4.428	3.650+1	3.429+1	8.667
3090	4.637	-2.988+1	4.429	3.640+1	3.430+1	8.589

SPECIE C2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	4.639	-2.989+1	4.429	3.629+1	3.432+1	8.512
3110	4.640	-2.990+1	4.430	3.619+1	3.433+1	8.435
3120	4.641	-2.992+1	4.431	3.609+1	3.435+1	8.358
3130	4.642	-2.993+1	4.431	3.599+1	3.436+1	8.282
3140	4.643	-2.995+1	4.432	3.589+1	3.438+1	8.207
3150	4.645	-2.996+1	4.433	3.579+1	3.439+1	8.131
3160	4.646	-2.998+1	4.433	3.569+1	3.441+1	8.057
3170	4.647	-2.999+1	4.434	3.560+1	3.442+1	7.983
3180	4.648	-3.000+1	4.435	3.550+1	3.444+1	7.909
3190	4.649	-3.002+1	4.435	3.540+1	3.445+1	7.836
3200	4.651	-3.003+1	4.436	3.531+1	3.447+1	7.763
3210	4.652	-3.005+1	4.437	3.521+1	3.448+1	7.690
3220	4.653	-3.006+1	4.437	3.512+1	3.450+1	7.618
3230	4.654	-3.007+1	4.438	3.502+1	3.451+1	7.547
3240	4.655	-3.009+1	4.439	3.493+1	3.453+1	7.476
3250	4.656	-3.010+1	4.439	3.483+1	3.454+1	7.405
3260	4.658	-3.011+1	4.440	3.474+1	3.455+1	7.335
3270	4.659	-3.013+1	4.441	3.465+1	3.457+1	7.265
3280	4.660	-3.014+1	4.441	3.456+1	3.458+1	7.195
3290	4.661	-3.015+1	4.442	3.447+1	3.460+1	7.126
3300	4.662	-3.017+1	4.443	3.438+1	3.461+1	7.058
3310	4.663	-3.018+1	4.443	3.429+1	3.462+1	6.989
3320	4.664	-3.019+1	4.444	3.420+1	3.464+1	6.922
3330	4.666	-3.021+1	4.445	3.411+1	3.465+1	6.854
3340	4.667	-3.022+1	4.445	3.402+1	3.467+1	6.787
3350	4.668	-3.023+1	4.446	3.393+1	3.468+1	6.721
3360	4.669	-3.025+1	4.447	3.385+1	3.469+1	6.655
3370	4.670	-3.026+1	4.447	3.376+1	3.471+1	6.589
3380	4.671	-3.027+1	4.448	3.367+1	3.472+1	6.524
3390	4.673	-3.029+1	4.449	3.359+1	3.474+1	6.459
3400	4.674	-3.030+1	4.449	3.350+1	3.475+1	6.394
3410	4.675	-3.031+1	4.450	3.342+1	3.476+1	6.330
3420	4.676	-3.033+1	4.451	3.333+1	3.478+1	6.266
3430	4.677	-3.034+1	4.451	3.325+1	3.479+1	6.203
3440	4.678	-3.035+1	4.452	3.317+1	3.480+1	6.140
3450	4.680	-3.037+1	4.453	3.309+1	3.482+1	6.077
3460	4.681	-3.038+1	4.453	3.300+1	3.483+1	6.015
3470	4.682	-3.039+1	4.454	3.292+1	3.485+1	5.953
3480	4.683	-3.040+1	4.455	3.284+1	3.486+1	5.891
3490	4.684	-3.042+1	4.455	3.276+1	3.487+1	5.830
3500	4.685	-3.043+1	4.456	3.268+1	3.489+1	5.769
3510	4.686	-3.044+1	4.457	3.260+1	3.490+1	5.708
3520	4.688	-3.046+1	4.457	3.252+1	3.491+1	5.648
3530	4.689	-3.047+1	4.458	3.244+1	3.493+1	5.588
3540	4.690	-3.048+1	4.459	3.236+1	3.494+1	5.528
3550	4.691	-3.049+1	4.459	3.228+1	3.495+1	5.469
3560	4.692	-3.051+1	4.460	3.221+1	3.497+1	5.410
3570	4.693	-3.052+1	4.461	3.213+1	3.498+1	5.351
3580	4.694	-3.053+1	4.461	3.205+1	3.499+1	5.293
3590	4.695	-3.054+1	4.462	3.198+1	3.500+1	5.235

SPECIE C2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	4.696	-3.056+1	4.463	3.190+1	3.502+1	5.177
3610	4.698	-3.057+1	4.463	3.183+1	3.503+1	5.120
3620	4.699	-3.058+1	4.464	3.175+1	3.504+1	5.062
3630	4.700	-3.059+1	4.465	3.168+1	3.506+1	5.006
3640	4.701	-3.060+1	4.465	3.160+1	3.507+1	4.949
3650	4.702	-3.062+1	4.466	3.153+1	3.508+1	4.893
3660	4.703	-3.063+1	4.466	3.146+1	3.510+1	4.837
3670	4.704	-3.064+1	4.467	3.138+1	3.511+1	4.781
3680	4.705	-3.065+1	4.468	3.131+1	3.512+1	4.726
3690	4.706	-3.067+1	4.468	3.124+1	3.513+1	4.671
3700	4.707	-3.068+1	4.469	3.117+1	3.515+1	4.617
3710	4.709	-3.069+1	4.470	3.110+1	3.516+1	4.562
3720	4.710	-3.070+1	4.470	3.102+1	3.517+1	4.508
3730	4.711	-3.071+1	4.471	3.095+1	3.518+1	4.454
3740	4.712	-3.073+1	4.472	3.088+1	3.520+1	4.401
3750	4.713	-3.074+1	4.472	3.081+1	3.521+1	4.348
3760	4.714	-3.075+1	4.473	3.074+1	3.522+1	4.295
3770	4.715	-3.076+1	4.474	3.068+1	3.523+1	4.242
3780	4.716	-3.077+1	4.474	3.061+1	3.525+1	4.190
3790	4.717	-3.079+1	4.475	3.054+1	3.526+1	4.138
3800	4.719	-3.080+1	4.475	3.047+1	3.527+1	4.086
3810	4.720	-3.081+1	4.476	3.040+1	3.528+1	4.034
3820	4.721	-3.082+1	4.477	3.034+1	3.530+1	3.983
3830	4.722	-3.083+1	4.477	3.027+1	3.531+1	3.932
3840	4.723	-3.084+1	4.478	3.020+1	3.532+1	3.881
3850	4.724	-3.086+1	4.479	3.014+1	3.533+1	3.830
3860	4.725	-3.087+1	4.479	3.007+1	3.535+1	3.780
3870	4.726	-3.088+1	4.480	3.000+1	3.536+1	3.730
3880	4.727	-3.089+1	4.480	2.994+1	3.537+1	3.680
3890	4.728	-3.090+1	4.481	2.987+1	3.538+1	3.631
3900	4.729	-3.091+1	4.482	2.981+1	3.539+1	3.581
3910	4.730	-3.092+1	4.482	2.975+1	3.541+1	3.532
3920	4.731	-3.094+1	4.483	2.968+1	3.542+1	3.483
3930	4.732	-3.095+1	4.484	2.962+1	3.543+1	3.435
3940	4.733	-3.096+1	4.484	2.956+1	3.544+1	3.387
3950	4.735	-3.097+1	4.485	2.949+1	3.546+1	3.339
3960	4.736	-3.098+1	4.486	2.943+1	3.547+1	3.291
3970	4.737	-3.099+1	4.486	2.937+1	3.548+1	3.243
3980	4.738	-3.100+1	4.487	2.931+1	3.549+1	3.196
3990	4.739	-3.102+1	4.487	2.924+1	3.550+1	3.149
4000	4.740	-3.103+1	4.488	2.918+1	3.551+1	3.102
4010	4.741	-3.104+1	4.489	2.912+1	3.553+1	3.055
4020	4.742	-3.105+1	4.489	2.906+1	3.554+1	3.009
4030	4.743	-3.106+1	4.490	2.900+1	3.555+1	2.962
4040	4.744	-3.107+1	4.491	2.894+1	3.556+1	2.916
4050	4.746	-3.108+1	4.491	2.888+1	3.557+1	2.870
4060	4.747	-3.109+1	4.492	2.882+1	3.559+1	2.825
4070	4.748	-3.110+1	4.493	2.876+1	3.560+1	2.780
4080	4.749	-3.112+1	4.493	2.870+1	3.561+1	2.734
4090	4.750	-3.113+1	4.494	2.865+1	3.562+1	2.689

SPECIE C2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	4.751	-3.114+1	4.494	2.859+1	3.563+1	2.645
4110	4.752	-3.115+1	4.495	2.853+1	3.564+1	2.600
4120	4.753	-3.116+1	4.496	2.847+1	3.566+1	2.556
4130	4.754	-3.117+1	4.496	2.841+1	3.567+1	2.512
4140	4.755	-3.118+1	4.497	2.836+1	3.568+1	2.468
4150	4.756	-3.119+1	4.498	2.830+1	3.569+1	2.425
4160	4.757	-3.120+1	4.498	2.824+1	3.570+1	2.381
4170	4.758	-3.121+1	4.499	2.819+1	3.571+1	2.338
4180	4.759	-3.122+1	4.499	2.813+1	3.572+1	2.295
4190	4.760	-3.124+1	4.500	2.808+1	3.574+1	2.252
4200	4.761	-3.125+1	4.501	2.802+1	3.575+1	2.210
4210	4.762	-3.126+1	4.501	2.797+1	3.576+1	2.167
4220	4.763	-3.127+1	4.502	2.791+1	3.577+1	2.125
4230	4.764	-3.128+1	4.503	2.786+1	3.578+1	2.083
4240	4.766	-3.129+1	4.503	2.780+1	3.579+1	2.041
4250	4.767	-3.130+1	4.504	2.775+1	3.580+1	2.000
4260	4.768	-3.131+1	4.504	2.769+1	3.581+1	1.958
4270	4.769	-3.132+1	4.505	2.764+1	3.583+1	1.917
4280	4.770	-3.133+1	4.506	2.759+1	3.584+1	1.876
4290	4.771	-3.134+1	4.506	2.753+1	3.585+1	1.835
4300	4.772	-3.135+1	4.507	2.748+1	3.586+1	1.794
4310	4.773	-3.136+1	4.507	2.743+1	3.587+1	1.754
4320	4.774	-3.137+1	4.508	2.737+1	3.588+1	1.714
4330	4.775	-3.138+1	4.509	2.732+1	3.589+1	1.673
4340	4.776	-3.139+1	4.509	2.727+1	3.590+1	1.633
4350	4.777	-3.140+1	4.510	2.722+1	3.591+1	1.594
4360	4.778	-3.141+1	4.510	2.717+1	3.592+1	1.554
4370	4.779	-3.142+1	4.511	2.712+1	3.594+1	1.514
4380	4.780	-3.143+1	4.512	2.706+1	3.595+1	1.475
4390	4.781	-3.145+1	4.512	2.701+1	3.596+1	1.436
4400	4.782	-3.146+1	4.513	2.696+1	3.597+1	1.397
4410	4.783	-3.147+1	4.514	2.691+1	3.598+1	1.358
4420	4.785	-3.148+1	4.514	2.686+1	3.599+1	1.320
4430	4.786	-3.149+1	4.515	2.681+1	3.600+1	1.282
4440	4.787	-3.150+1	4.515	2.676+1	3.601+1	1.243
4450	4.788	-3.151+1	4.516	2.671+1	3.602+1	1.205
4460	4.789	-3.152+1	4.517	2.667+1	3.603+1	1.168
4470	4.790	-3.153+1	4.517	2.662+1	3.604+1	1.130
4480	4.791	-3.154+1	4.518	2.657+1	3.605+1	1.092
4490	4.792	-3.155+1	4.518	2.652+1	3.607+1	1.055
4500	4.793	-3.156+1	4.519	2.647+1	3.608+1	1.018
4510	4.794	-3.157+1	4.520	2.642+1	3.609+1	9.809-1
4520	4.795	-3.158+1	4.520	2.637+1	3.610+1	9.441-1
4530	4.796	-3.159+1	4.521	2.633+1	3.611+1	9.073-1
4540	4.797	-3.160+1	4.522	2.628+1	3.612+1	8.708-1
4550	4.798	-3.161+1	4.522	2.623+1	3.613+1	8.344-1
4560	4.799	-3.162+1	4.523	2.619+1	3.614+1	7.981-1
4570	4.800	-3.163+1	4.523	2.614+1	3.615+1	7.620-1
4580	4.801	-3.164+1	4.524	2.609+1	3.616+1	7.260-1
4590	4.802	-3.165+1	4.525	2.605+1	3.617+1	6.903-1

SPECIE C2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	4.803	-3.166+1	4.525	2.600+1	3.618+1	6.546-1
4610	4.804	-3.167+1	4.526	2.595+1	3.619+1	6.191-1
4620	4.805	-3.168+1	4.526	2.591+1	3.620+1	5.838-1
4630	4.806	-3.169+1	4.527	2.586+1	3.621+1	5.487-1
4640	4.807	-3.170+1	4.528	2.582+1	3.622+1	5.136-1
4650	4.808	-3.171+1	4.528	2.577+1	3.623+1	4.788-1
4660	4.809	-3.172+1	4.529	2.572+1	3.624+1	4.440-1
4670	4.810	-3.172+1	4.529	2.568+1	3.625+1	4.095-1
4680	4.811	-3.173+1	4.530	2.564+1	3.626+1	3.750-1
4690	4.812	-3.174+1	4.531	2.559+1	3.627+1	3.408-1
4700	4.813	-3.175+1	4.531	2.555+1	3.629+1	3.066-1
4710	4.814	-3.176+1	4.532	2.550+1	3.630+1	2.727-1
4720	4.815	-3.177+1	4.532	2.546+1	3.631+1	2.388-1
4730	4.816	-3.178+1	4.533	2.542+1	3.632+1	2.051-1
4740	4.817	-3.179+1	4.534	2.537+1	3.633+1	1.715-1
4750	4.818	-3.180+1	4.534	2.533+1	3.634+1	1.381-1
4760	4.819	-3.181+1	4.535	2.529+1	3.635+1	1.048-1
4770	4.820	-3.182+1	4.535	2.524+1	3.636+1	7.170-2
4780	4.821	-3.183+1	4.536	2.520+1	3.637+1	3.869-2
4790	4.822	-3.184+1	4.537	2.516+1	3.638+1	5.823-3
4800	4.823	-3.185+1	4.537	2.512+1	3.639+1	-2.692-2
4810	4.824	-3.186+1	4.538	2.507+1	3.640+1	-5.954-2
4820	4.825	-3.187+1	4.538	2.503+1	3.641+1	-9.202-2
4830	4.826	-3.188+1	4.539	2.499+1	3.642+1	-1.244-1
4840	4.827	-3.189+1	4.540	2.495+1	3.643+1	-1.566-1
4850	4.828	-3.190+1	4.540	2.491+1	3.644+1	-1.887-1
4860	4.829	-3.191+1	4.541	2.487+1	3.645+1	-2.207-1
4870	4.830	-3.192+1	4.541	2.483+1	3.646+1	-2.525-1
4880	4.831	-3.192+1	4.542	2.478+1	3.647+1	-2.843-1
4890	4.832	-3.193+1	4.543	2.474+1	3.648+1	-3.159-1
4900	4.833	-3.194+1	4.543	2.470+1	3.649+1	-3.474-1
4910	4.834	-3.195+1	4.544	2.466+1	3.650+1	-3.788-1
4920	4.835	-3.196+1	4.544	2.462+1	3.651+1	-4.101-1
4930	4.836	-3.197+1	4.545	2.458+1	3.652+1	-4.413-1
4940	4.837	-3.198+1	4.546	2.454+1	3.653+1	-4.723-1
4950	4.838	-3.199+1	4.546	2.450+1	3.654+1	-5.033-1
4960	4.839	-3.200+1	4.547	2.446+1	3.655+1	-5.341-1
4970	4.840	-3.201+1	4.547	2.442+1	3.655+1	-5.648-1
4980	4.841	-3.202+1	4.548	2.438+1	3.656+1	-5.953-1
4990	4.842	-3.203+1	4.548	2.434+1	3.657+1	-6.258-1
5000	4.843	-3.204+1	4.549	2.431+1	3.658+1	-6.561-1
5010	4.844	-3.204+1	4.550	2.427+1	3.659+1	-6.862-1
5020	4.845	-3.205+1	4.550	2.423+1	3.660+1	-7.163-1
5030	4.846	-3.206+1	4.551	2.419+1	3.661+1	-7.462-1
5040	4.847	-3.207+1	4.551	2.415+1	3.662+1	-7.760-1
5050	4.848	-3.208+1	4.552	2.411+1	3.663+1	-8.056-1
5060	4.849	-3.209+1	4.553	2.407+1	3.664+1	-8.352-1
5070	4.850	-3.210+1	4.553	2.404+1	3.665+1	-8.646-1
5080	4.851	-3.211+1	4.554	2.400+1	3.666+1	-8.939-1
5090	4.852	-3.212+1	4.554	2.396+1	3.667+1	-9.231-1

SPECIE C2						
TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	4.853	-3.213+1	4.555	2.392+1	3.668+1	-9.522-1
5110	4.854	-3.213+1	4.555	2.389+1	3.669+1	-8.811-1
5120	4.855	-3.214+1	4.556	2.385+1	3.670+1	-1.010
5130	4.856	-3.215+1	4.557	2.381+1	3.671+1	-1.039
5140	4.857	-3.216+1	4.557	2.378+1	3.672+1	-1.067
5150	4.858	-3.217+1	4.558	2.374+1	3.673+1	-1.096
5160	4.859	-3.218+1	4.558	2.370+1	3.674+1	-1.124
5170	4.860	-3.219+1	4.559	2.367+1	3.675+1	-1.153
5180	4.861	-3.220+1	4.560	2.363+1	3.676+1	-1.181
5190	4.862	-3.220+1	4.560	2.359+1	3.677+1	-1.209
5200	4.863	-3.221+1	4.561	2.356+1	3.677+1	-1.237
5210	4.864	-3.222+1	4.561	2.352+1	3.678+1	-1.265
5220	4.865	-3.223+1	4.562	2.349+1	3.679+1	-1.293
5230	4.866	-3.224+1	4.563	2.345+1	3.680+1	-1.321
5240	4.867	-3.225+1	4.563	2.341+1	3.681+1	-1.348
5250	4.868	-3.226+1	4.564	2.338+1	3.682+1	-1.376
5260	4.869	-3.227+1	4.564	2.334+1	3.683+1	-1.403
5270	4.870	-3.227+1	4.565	2.331+1	3.684+1	-1.431
5280	4.871	-3.228+1	4.565	2.327+1	3.685+1	-1.458
5290	4.872	-3.229+1	4.566	2.324+1	3.686+1	-1.485
5300	4.873	-3.230+1	4.567	2.320+1	3.687+1	-1.512
5310	4.874	-3.231+1	4.567	2.317+1	3.688+1	-1.539
5320	4.875	-3.232+1	4.568	2.314+1	3.689+1	-1.566
5330	4.876	-3.233+1	4.568	2.310+1	3.689+1	-1.592
5340	4.877	-3.233+1	4.569	2.307+1	3.690+1	-1.619
5350	4.878	-3.234+1	4.569	2.303+1	3.691+1	-1.645
5360	4.879	-3.235+1	4.570	2.300+1	3.692+1	-1.672
5370	4.880	-3.236+1	4.571	2.297+1	3.693+1	-1.698
5380	4.881	-3.237+1	4.571	2.293+1	3.694+1	-1.724
5390	4.882	-3.238+1	4.572	2.290+1	3.695+1	-1.750
5400	4.883	-3.239+1	4.572	2.287+1	3.696+1	-1.776
5410	4.883	-3.239+1	4.573	2.283+1	3.697+1	-1.802
5420	4.884	-3.240+1	4.574	2.280+1	3.698+1	-1.828
5430	4.885	-3.241+1	4.574	2.277+1	3.699+1	-1.853
5440	4.886	-3.242+1	4.575	2.273+1	3.699+1	-1.879
5450	4.887	-3.243+1	4.575	2.270+1	3.700+1	-1.905
5460	4.888	-3.244+1	4.576	2.267+1	3.701+1	-1.930
5470	4.889	-3.244+1	4.576	2.264+1	3.702+1	-1.955
5480	4.890	-3.245+1	4.577	2.260+1	3.703+1	-1.981
5490	4.891	-3.246+1	4.577	2.257+1	3.704+1	-2.006
5500	4.892	-3.247+1	4.578	2.254+1	3.705+1	-2.031
5510	4.893	-3.248+1	4.579	2.251+1	3.706+1	-2.056
5520	4.894	-3.249+1	4.579	2.247+1	3.707+1	-2.081
5530	4.894	-3.249+1	4.580	2.244+1	3.707+1	-2.106
5540	4.895	-3.250+1	4.580	2.241+1	3.708+1	-2.131
5550	4.896	-3.251+1	4.581	2.238+1	3.709+1	-2.155
5560	4.897	-3.252+1	4.581	2.235+1	3.710+1	-2.180
5570	4.898	-3.253+1	4.582	2.232+1	3.711+1	-2.205
5580	4.899	-3.254+1	4.583	2.229+1	3.712+1	-2.229
5590	4.900	-3.254+1	4.583	2.225+1	3.713+1	-2.253

SPECIE C2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	4.901	-3.255+1	4.584	2.222+1	3.714+1	-2.278
5610	4.902	-3.256+1	4.584	2.219+1	3.714+1	-2.302
5620	4.903	-3.257+1	4.585	2.216+1	3.715+1	-2.326
5630	4.904	-3.258+1	4.585	2.213+1	3.716+1	-2.350
5640	4.905	-3.258+1	4.586	2.210+1	3.717+1	-2.374
5650	4.906	-3.259+1	4.587	2.207+1	3.718+1	-2.398
5660	4.907	-3.260+1	4.587	2.204+1	3.719+1	-2.422
5670	4.908	-3.261+1	4.588	2.201+1	3.720+1	-2.445
5680	4.908	-3.262+1	4.588	2.198+1	3.721+1	-2.469
5690	4.909	-3.263+1	4.589	2.195+1	3.721+1	-2.492
5700	4.910	-3.263+1	4.589	2.192+1	3.722+1	-2.516
5710	4.911	-3.264+1	4.590	2.189+1	3.723+1	-2.539
5720	4.912	-3.265+1	4.591	2.186+1	3.724+1	-2.562
5730	4.913	-3.266+1	4.591	2.183+1	3.725+1	-2.585
5740	4.914	-3.267+1	4.592	2.180+1	3.726+1	-2.609
5750	4.915	-3.267+1	4.592	2.177+1	3.727+1	-2.631
5760	4.916	-3.268+1	4.593	2.174+1	3.727+1	-2.654
5770	4.917	-3.269+1	4.593	2.171+1	3.728+1	-2.677
5780	4.918	-3.270+1	4.594	2.168+1	3.729+1	-2.700
5790	4.918	-3.271+1	4.594	2.166+1	3.730+1	-2.723
5800	4.919	-3.271+1	4.595	2.163+1	3.731+1	-2.745
5810	4.920	-3.272+1	4.596	2.160+1	3.732+1	-2.768
5820	4.921	-3.273+1	4.596	2.157+1	3.733+1	-2.790
5830	4.922	-3.274+1	4.597	2.154+1	3.733+1	-2.813
5840	4.923	-3.275+1	4.597	2.151+1	3.734+1	-2.835
5850	4.924	-3.275+1	4.598	2.148+1	3.735+1	-2.857
5860	4.925	-3.276+1	4.598	2.146+1	3.736+1	-2.879
5870	4.926	-3.277+1	4.599	2.143+1	3.737+1	-2.901
5880	4.927	-3.278+1	4.599	2.140+1	3.738+1	-2.924
5890	4.927	-3.278+1	4.600	2.137+1	3.738+1	-2.946
5900	4.928	-3.279+1	4.601	2.134+1	3.739+1	-2.967
5910	4.929	-3.280+1	4.601	2.132+1	3.740+1	-2.989
5920	4.930	-3.281+1	4.602	2.129+1	3.741+1	-3.011
5930	4.931	-3.282+1	4.602	2.126+1	3.742+1	-3.033
5940	4.932	-3.282+1	4.603	2.123+1	3.743+1	-3.054
5950	4.933	-3.283+1	4.603	2.121+1	3.743+1	-3.076
5960	4.934	-3.284+1	4.604	2.118+1	3.744+1	-3.098
5970	4.934	-3.285+1	4.604	2.115+1	3.745+1	-3.119
5980	4.935	-3.285+1	4.605	2.112+1	3.746+1	-3.140
5990	4.936	-3.286+1	4.606	2.110+1	3.747+1	-3.162
6000	4.937	-3.287+1	4.606	2.107+1	3.748+1	-3.183

SPECIE C3

MOLECULAR WEIGHT EQUALS 36.03417

DELTA E ZERO EQUALS 182.612 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(J. S. GURDON, RMD 210-E3, 1/60) (5)

THERMAL

(J. S. GURDON, RMD 210-E3, 1/60) (5)

SPECIE C3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	3.558	-1.904+1	4.023	9.230+2	2.307+1	1.626+3
110	3.580	-1.942+1	4.042	8.529+2	2.346+1	1.500+3
120	3.621	-1.977+1	4.059	7.894+2	2.383+1	1.386+3
130	3.676	-2.010+1	4.073	7.320+2	2.417+1	1.283+3
140	3.744	-2.041+1	4.085	6.801+2	2.449+1	1.189+3
150	3.823	-2.069+1	4.095	6.335+2	2.479+1	1.105+3
160	3.911	-2.096+1	4.104	5.916+2	2.507+1	1.030+3
170	4.006	-2.121+1	4.113	5.540+2	2.533+1	9.624+2
180	4.106	-2.145+1	4.121	5.204+2	2.557+1	9.019+2
190	4.209	-2.167+1	4.129	4.904+2	2.580+1	8.478+2
200	4.315	-2.188+1	4.138	4.636+2	2.602+1	7.996+2
210	4.421	-2.208+1	4.146	4.397+2	2.622+1	7.566+2
220	4.527	-2.227+1	4.156	4.185+2	2.642+1	7.183+2
230	4.632	-2.244+1	4.167	3.995+2	2.661+1	6.841+2
240	4.733	-2.262+1	4.179	3.826+2	2.679+1	6.536+2
250	4.831	-2.278+1	4.192	3.675+2	2.697+1	6.262+2
260	4.925	-2.293+1	4.207	3.538+2	2.714+1	6.016+2
270	5.013	-2.309+1	4.224	3.415+2	2.731+1	5.794+2
280	5.096	-2.323+1	4.242	3.304+2	2.747+1	5.592+2
290	5.173	-2.337+1	4.262	3.201+2	2.764+1	5.406+2
300	5.243	-2.351+1	4.283	3.106+2	2.780+1	5.234+2
310	5.295	-2.366+1	4.311	3.005+2	2.796+1	5.052+2
320	5.341	-2.379+1	4.339	2.911+2	2.813+1	4.882+2
330	5.384	-2.393+1	4.368	2.824+2	2.829+1	4.723+2
340	5.424	-2.406+1	4.397	2.741+2	2.845+1	4.575+2
350	5.461	-2.419+1	4.427	2.665+2	2.861+1	4.435+2
360	5.495	-2.431+1	4.457	2.593+2	2.876+1	4.305+2
370	5.528	-2.443+1	4.486	2.525+2	2.892+1	4.182+2
380	5.560	-2.455+1	4.516	2.461+2	2.907+1	4.066+2
390	5.591	-2.467+1	4.545	2.400+2	2.922+1	3.956+2
400	5.621	-2.479+1	4.573	2.343+2	2.936+1	3.852+2
410	5.654	-2.490+1	4.599	2.289+2	2.950+1	3.753+2
420	5.686	-2.501+1	4.625	2.237+2	2.964+1	3.658+2
430	5.709	-2.512+1	4.650	2.187+2	2.977+1	3.568+2
440	5.739	-2.523+1	4.674	2.139+2	2.991+1	3.481+2
450	5.769	-2.533+1	4.699	2.093+2	3.004+1	3.398+2
460	5.799	-2.544+1	4.722	2.049+2	3.016+1	3.317+2
470	5.830	-2.554+1	4.746	2.006+2	3.029+1	3.240+2
480	5.861	-2.564+1	4.769	1.965+2	3.041+1	3.164+2
490	5.895	-2.574+1	4.792	1.925+2	3.053+1	3.092+2
500	5.923	-2.583+1	4.814	1.886+2	3.065+1	3.021+2
510	5.950	-2.593+1	4.836	1.850+2	3.077+1	2.957+2
520	5.977	-2.602+1	4.858	1.816+2	3.088+1	2.894+2
530	6.003	-2.612+1	4.879	1.783+2	3.100+1	2.835+2
540	6.029	-2.621+1	4.900	1.752+2	3.111+1	2.777+2
550	6.055	-2.630+1	4.921	1.721+2	3.122+1	2.721+2
560	6.079	-2.639+1	4.942	1.691+2	3.133+1	2.667+2
570	6.104	-2.648+1	4.962	1.663+2	3.144+1	2.615+2
580	6.128	-2.656+1	4.982	1.635+2	3.154+1	2.564+2
590	6.151	-2.665+1	5.001	1.608+2	3.165+1	2.515+2

SPECIE C3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	6.174	-2.673+1	5.021	1.582+2	3.175+1	2.467+2
610	6.197	-2.681+1	5.040	1.557+2	3.185+1	2.422+2
620	6.219	-2.690+1	5.059	1.533+2	3.196+1	2.378+2
630	6.241	-2.698+1	5.077	1.510+2	3.206+1	2.336+2
640	6.262	-2.706+1	5.096	1.487+2	3.215+1	2.294+2
650	6.283	-2.714+1	5.114	1.465+2	3.225+1	2.254+2
660	6.303	-2.721+1	5.132	1.444+2	3.235+1	2.216+2
670	6.323	-2.729+1	5.150	1.423+2	3.244+1	2.178+2
680	6.342	-2.737+1	5.167	1.403+2	3.254+1	2.141+2
690	6.362	-2.744+1	5.184	1.384+2	3.263+1	2.106+2
700	6.381	-2.752+1	5.201	1.365+2	3.272+1	2.071+2
710	6.399	-2.759+1	5.218	1.346+2	3.281+1	2.038+2
720	6.418	-2.767+1	5.235	1.329+2	3.290+1	2.005+2
730	6.435	-2.774+1	5.251	1.311+2	3.299+1	1.973+2
740	6.453	-2.781+1	5.267	1.295+2	3.308+1	1.943+2
750	6.470	-2.788+1	5.283	1.278+2	3.316+1	1.913+2
760	6.487	-2.795+1	5.299	1.262+2	3.325+1	1.883+2
770	6.504	-2.802+1	5.315	1.247+2	3.333+1	1.855+2
780	6.520	-2.809+1	5.330	1.232+2	3.342+1	1.827+2
790	6.536	-2.816+1	5.345	1.217+2	3.350+1	1.800+2
800	6.552	-2.822+1	5.360	1.202+2	3.358+1	1.774+2
810	6.567	-2.829+1	5.375	1.188+2	3.367+1	1.748+2
820	6.582	-2.836+1	5.390	1.175+2	3.375+1	1.723+2
830	6.597	-2.842+1	5.404	1.161+2	3.383+1	1.698+2
840	6.611	-2.849+1	5.419	1.148+2	3.391+1	1.675+2
850	6.626	-2.855+1	5.433	1.135+2	3.398+1	1.651+2
860	6.640	-2.861+1	5.447	1.123+2	3.406+1	1.628+2
870	6.653	-2.868+1	5.461	1.111+2	3.414+1	1.606+2
880	6.667	-2.874+1	5.474	1.099+2	3.422+1	1.584+2
890	6.680	-2.880+1	5.488	1.087+2	3.429+1	1.563+2
900	6.693	-2.886+1	5.501	1.076+2	3.436+1	1.542+2
910	6.705	-2.892+1	5.514	1.065+2	3.444+1	1.522+2
920	6.718	-2.898+1	5.527	1.054+2	3.451+1	1.502+2
930	6.730	-2.904+1	5.540	1.044+2	3.459+1	1.483+2
940	6.742	-2.910+1	5.553	1.033+2	3.466+1	1.464+2
950	6.753	-2.916+1	5.566	1.023+2	3.473+1	1.445+2
960	6.765	-2.922+1	5.578	1.013+2	3.480+1	1.427+2
970	6.776	-2.928+1	5.591	1.003+2	3.487+1	1.409+2
980	6.787	-2.934+1	5.603	9.937+1	3.494+1	1.391+2
990	6.798	-2.939+1	5.615	9.844+1	3.501+1	1.374+2
1000	6.808	-2.945+1	5.627	9.752+1	3.508+1	1.357+2
1010	6.819	-2.951+1	5.638	9.662+1	3.514+1	1.341+2
1020	6.829	-2.956+1	5.650	9.574+1	3.521+1	1.324+2
1030	6.839	-2.962+1	5.662	9.488+1	3.528+1	1.309+2
1040	6.849	-2.967+1	5.673	9.403+1	3.534+1	1.293+2
1050	6.859	-2.973+1	5.684	9.320+1	3.541+1	1.278+2
1060	6.868	-2.978+1	5.695	9.239+1	3.548+1	1.263+2
1070	6.877	-2.983+1	5.706	9.159+1	3.554+1	1.248+2
1080	6.886	-2.989+1	5.717	9.081+1	3.560+1	1.234+2
1090	6.895	-2.994+1	5.728	9.003+1	3.567+1	1.219+2

SPECIE C3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	6.904	-2.999+1	5.739	8.928+1	3.573+1	1.205+2
1110	6.912	-3.004+1	5.749	8.854+1	3.579+1	1.192+2
1120	6.920	-3.010+1	5.760	8.781+1	3.585+1	1.178+2
1130	6.928	-3.015+1	5.770	8.709+1	3.592+1	1.165+2
1140	6.936	-3.020+1	5.780	8.639+1	3.598+1	1.152+2
1150	6.944	-3.025+1	5.790	8.570+1	3.604+1	1.140+2
1160	6.951	-3.030+1	5.800	8.502+1	3.610+1	1.127+2
1170	6.958	-3.035+1	5.810	8.435+1	3.616+1	1.115+2
1180	6.965	-3.040+1	5.820	8.369+1	3.622+1	1.103+2
1190	6.973	-3.045+1	5.829	8.305+1	3.628+1	1.091+2
1200	6.979	-3.050+1	5.839	8.242+1	3.633+1	1.079+2
1210	6.986	-3.054+1	5.849	8.179+1	3.639+1	1.068+2
1220	6.993	-3.059+1	5.858	8.118+1	3.645+1	1.056+2
1230	7.000	-3.064+1	5.867	8.058+1	3.651+1	1.045+2
1240	7.007	-3.069+1	5.876	7.998+1	3.656+1	1.034+2
1250	7.014	-3.073+1	5.885	7.940+1	3.662+1	1.023+2
1260	7.020	-3.078+1	5.894	7.882+1	3.668+1	1.013+2
1270	7.027	-3.083+1	5.903	7.826+1	3.673+1	1.002+2
1280	7.033	-3.087+1	5.912	7.770+1	3.679+1	9.922+1
1290	7.039	-3.092+1	5.921	7.716+1	3.684+1	9.821+1
1300	7.045	-3.097+1	5.929	7.662+1	3.690+1	9.722+1
1310	7.051	-3.101+1	5.938	7.609+1	3.695+1	9.623+1
1320	7.056	-3.106+1	5.946	7.556+1	3.700+1	9.527+1
1330	7.061	-3.110+1	5.955	7.505+1	3.706+1	9.432+1
1340	7.066	-3.115+1	5.963	7.454+1	3.711+1	9.338+1
1350	7.071	-3.119+1	5.971	7.404+1	3.716+1	9.246+1
1360	7.076	-3.124+1	5.979	7.355+1	3.721+1	9.155+1
1370	7.081	-3.128+1	5.987	7.306+1	3.727+1	9.066+1
1380	7.086	-3.132+1	5.995	7.258+1	3.732+1	8.977+1
1390	7.091	-3.137+1	6.003	7.211+1	3.737+1	8.890+1
1400	7.095	-3.141+1	6.011	7.165+1	3.742+1	8.804+1
1410	7.100	-3.145+1	6.019	7.119+1	3.747+1	8.720+1
1420	7.105	-3.149+1	6.026	7.074+1	3.752+1	8.636+1
1430	7.109	-3.154+1	6.034	7.030+1	3.757+1	8.554+1
1440	7.114	-3.158+1	6.042	6.986+1	3.762+1	8.473+1
1450	7.118	-3.162+1	6.049	6.942+1	3.767+1	8.393+1
1460	7.123	-3.166+1	6.056	6.900+1	3.772+1	8.314+1
1470	7.127	-3.170+1	6.064	6.858+1	3.777+1	8.236+1
1480	7.132	-3.174+1	6.071	6.816+1	3.782+1	8.160+1
1490	7.136	-3.179+1	6.078	6.775+1	3.786+1	8.084+1
1500	7.140	-3.183+1	6.085	6.735+1	3.791+1	8.009+1
1510	7.145	-3.187+1	6.092	6.695+1	3.796+1	7.936+1
1520	7.149	-3.191+1	6.099	6.656+1	3.801+1	7.863+1
1530	7.153	-3.195+1	6.106	6.617+1	3.805+1	7.791+1
1540	7.157	-3.199+1	6.113	6.578+1	3.810+1	7.720+1
1550	7.161	-3.203+1	6.120	6.541+1	3.815+1	7.650+1
1560	7.165	-3.207+1	6.126	6.503+1	3.819+1	7.581+1
1570	7.169	-3.210+1	6.133	6.466+1	3.824+1	7.513+1
1580	7.173	-3.214+1	6.140	6.430+1	3.828+1	7.446+1
1590	7.177	-3.218+1	6.146	6.394+1	3.833+1	7.379+1

SPECIE C3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	7.181	-3.222+1	6.152	6.359+1	3.837+1	7.314+1
1610	7.184	-3.226+1	6.159	6.324+1	3.842+1	7.249+1
1620	7.188	-3.230+1	6.165	6.289+1	3.846+1	7.185+1
1630	7.190	-3.234+1	6.172	6.255+1	3.851+1	7.121+1
1640	7.193	-3.237+1	6.178	6.221+1	3.855+1	7.059+1
1650	7.196	-3.241+1	6.184	6.188+1	3.859+1	6.997+1
1660	7.199	-3.245+1	6.190	6.155+1	3.864+1	6.936+1
1670	7.202	-3.249+1	6.196	6.122+1	3.868+1	6.876+1
1680	7.206	-3.252+1	6.202	6.090+1	3.872+1	6.817+1
1690	7.208	-3.256+1	6.208	6.058+1	3.877+1	6.758+1
1700	7.211	-3.260+1	6.214	6.027+1	3.881+1	6.700+1
1710	7.214	-3.263+1	6.220	5.996+1	3.885+1	6.642+1
1720	7.217	-3.267+1	6.226	5.965+1	3.889+1	6.585+1
1730	7.220	-3.270+1	6.232	5.935+1	3.894+1	6.529+1
1740	7.223	-3.274+1	6.237	5.905+1	3.898+1	6.474+1
1750	7.226	-3.278+1	6.243	5.875+1	3.902+1	6.419+1
1760	7.229	-3.281+1	6.249	5.846+1	3.906+1	6.365+1
1770	7.232	-3.285+1	6.254	5.817+1	3.910+1	6.311+1
1780	7.235	-3.288+1	6.260	5.789+1	3.914+1	6.258+1
1790	7.238	-3.292+1	6.265	5.760+1	3.918+1	6.205+1
1800	7.241	-3.295+1	6.270	5.732+1	3.922+1	6.154+1
1810	7.244	-3.299+1	6.276	5.705+1	3.926+1	6.102+1
1820	7.247	-3.302+1	6.281	5.677+1	3.930+1	6.052+1
1830	7.249	-3.306+1	6.286	5.650+1	3.934+1	6.001+1
1840	7.252	-3.309+1	6.292	5.623+1	3.938+1	5.952+1
1850	7.254	-3.312+1	6.297	5.597+1	3.942+1	5.903+1
1860	7.257	-3.316+1	6.302	5.571+1	3.946+1	5.854+1
1870	7.259	-3.319+1	6.307	5.545+1	3.950+1	5.806+1
1880	7.262	-3.323+1	6.312	5.519+1	3.954+1	5.759+1
1890	7.264	-3.326+1	6.317	5.494+1	3.958+1	5.712+1
1900	7.266	-3.329+1	6.322	5.469+1	3.962+1	5.665+1
1910	7.269	-3.333+1	6.327	5.444+1	3.965+1	5.619+1
1920	7.271	-3.336+1	6.332	5.419+1	3.969+1	5.573+1
1930	7.273	-3.339+1	6.337	5.395+1	3.973+1	5.528+1
1940	7.275	-3.342+1	6.342	5.371+1	3.977+1	5.484+1
1950	7.277	-3.346+1	6.347	5.347+1	3.980+1	5.439+1
1960	7.279	-3.349+1	6.351	5.324+1	3.984+1	5.396+1
1970	7.281	-3.352+1	6.356	5.300+1	3.988+1	5.352+1
1980	7.283	-3.355+1	6.361	5.277+1	3.992+1	5.310+1
1990	7.285	-3.359+1	6.366	5.254+1	3.995+1	5.267+1
2000	7.286	-3.362+1	6.370	5.232+1	3.999+1	5.225+1
2010	7.288	-3.365+1	6.375	5.209+1	4.003+1	5.184+1
2020	7.290	-3.368+1	6.379	5.187+1	4.006+1	5.143+1
2030	7.291	-3.371+1	6.384	5.165+1	4.010+1	5.102+1
2040	7.293	-3.375+1	6.388	5.143+1	4.013+1	5.061+1
2050	7.295	-3.378+1	6.393	5.122+1	4.017+1	5.021+1
2060	7.296	-3.381+1	6.397	5.101+1	4.020+1	4.982+1
2070	7.297	-3.384+1	6.401	5.079+1	4.024+1	4.943+1
2080	7.299	-3.387+1	6.406	5.059+1	4.027+1	4.904+1
2090	7.300	-3.390+1	6.410	5.038+1	4.031+1	4.865+1

SPECIE C3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	7.301	-3.393+1	6.414	5.017+1	4.034+1	4.827+1
2110	7.303	-3.396+1	6.419	4.897+1	4.038+1	4.790+1
2120	7.305	-3.399+1	6.423	4.977+1	4.041+1	4.752+1
2130	7.307	-3.402+1	6.427	4.957+1	4.045+1	4.715+1
2140	7.309	-3.405+1	6.431	4.937+1	4.048+1	4.678+1
2150	7.311	-3.408+1	6.435	4.918+1	4.052+1	4.642+1
2160	7.313	-3.411+1	6.439	4.898+1	4.055+1	4.606+1
2170	7.315	-3.414+1	6.443	4.879+1	4.058+1	4.571+1
2180	7.317	-3.417+1	6.447	4.860+1	4.062+1	4.535+1
2190	7.319	-3.420+1	6.451	4.841+1	4.065+1	4.500+1
2200	7.322	-3.423+1	6.455	4.823+1	4.068+1	4.465+1
2210	7.323	-3.426+1	6.459	4.804+1	4.072+1	4.431+1
2220	7.324	-3.429+1	6.463	4.786+1	4.075+1	4.397+1
2230	7.325	-3.432+1	6.467	4.767+1	4.078+1	4.363+1
2240	7.326	-3.435+1	6.471	4.749+1	4.082+1	4.330+1
2250	7.327	-3.438+1	6.474	4.732+1	4.085+1	4.297+1
2260	7.328	-3.440+1	6.478	4.714+1	4.088+1	4.264+1
2270	7.329	-3.443+1	6.482	4.696+1	4.091+1	4.231+1
2280	7.330	-3.446+1	6.486	4.679+1	4.095+1	4.199+1
2290	7.331	-3.449+1	6.490	4.662+1	4.098+1	4.167+1
2300	7.332	-3.452+1	6.493	4.645+1	4.101+1	4.135+1
2310	7.333	-3.455+1	6.497	4.628+1	4.104+1	4.104+1
2320	7.334	-3.457+1	6.500	4.611+1	4.107+1	4.072+1
2330	7.336	-3.460+1	6.504	4.594+1	4.111+1	4.041+1
2340	7.337	-3.463+1	6.508	4.578+1	4.114+1	4.011+1
2350	7.339	-3.466+1	6.511	4.561+1	4.117+1	3.980+1
2360	7.340	-3.469+1	6.515	4.545+1	4.120+1	3.950+1
2370	7.342	-3.471+1	6.518	4.529+1	4.123+1	3.920+1
2380	7.343	-3.474+1	6.522	4.513+1	4.126+1	3.891+1
2390	7.345	-3.477+1	6.525	4.497+1	4.129+1	3.861+1
2400	7.347	-3.479+1	6.529	4.482+1	4.132+1	3.832+1
2410	7.348	-3.482+1	6.532	4.466+1	4.135+1	3.803+1
2420	7.349	-3.485+1	6.535	4.451+1	4.138+1	3.775+1
2430	7.350	-3.488+1	6.539	4.436+1	4.141+1	3.746+1
2440	7.351	-3.490+1	6.542	4.420+1	4.145+1	3.718+1
2450	7.352	-3.493+1	6.545	4.405+1	4.147+1	3.690+1
2460	7.353	-3.496+1	6.549	4.390+1	4.151+1	3.662+1
2470	7.354	-3.498+1	6.552	4.376+1	4.153+1	3.635+1
2480	7.355	-3.501+1	6.555	4.361+1	4.156+1	3.607+1
2490	7.356	-3.504+1	6.558	4.346+1	4.159+1	3.580+1
2500	7.357	-3.506+1	6.562	4.332+1	4.162+1	3.553+1
2510	7.358	-3.509+1	6.565	4.318+1	4.165+1	3.527+1
2520	7.359	-3.511+1	6.568	4.303+1	4.168+1	3.500+1
2530	7.360	-3.514+1	6.571	4.289+1	4.171+1	3.474+1
2540	7.361	-3.517+1	6.574	4.275+1	4.174+1	3.448+1
2550	7.362	-3.519+1	6.577	4.261+1	4.177+1	3.422+1
2560	7.363	-3.522+1	6.580	4.248+1	4.180+1	3.397+1
2570	7.364	-3.524+1	6.583	4.234+1	4.183+1	3.371+1
2580	7.365	-3.527+1	6.586	4.220+1	4.186+1	3.346+1
2590	7.366	-3.529+1	6.589	4.207+1	4.188+1	3.321+1

SPECIE C3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	7.367	-3.532+1	6.592	4.194+1	4.191+1	3.296+1
2610	7.368	-3.534+1	6.595	4.180+1	4.194+1	3.271+1
2620	7.369	-3.537+1	6.598	4.167+1	4.197+1	3.247+1
2630	7.370	-3.540+1	6.601	4.154+1	4.200+1	3.223+1
2640	7.371	-3.542+1	6.604	4.141+1	4.202+1	3.199+1
2650	7.372	-3.545+1	6.607	4.128+1	4.205+1	3.175+1
2660	7.373	-3.547+1	6.610	4.116+1	4.208+1	3.151+1
2670	7.374	-3.549+1	6.613	4.103+1	4.211+1	3.127+1
2680	7.375	-3.552+1	6.616	4.090+1	4.214+1	3.104+1
2690	7.376	-3.554+1	6.619	4.078+1	4.216+1	3.081+1
2700	7.377	-3.557+1	6.622	4.066+1	4.219+1	3.058+1
2710	7.378	-3.559+1	6.624	4.053+1	4.222+1	3.035+1
2720	7.379	-3.562+1	6.627	4.041+1	4.225+1	3.012+1
2730	7.380	-3.564+1	6.630	4.029+1	4.227+1	2.990+1
2740	7.381	-3.567+1	6.633	4.017+1	4.230+1	2.967+1
2750	7.382	-3.569+1	6.635	4.005+1	4.233+1	2.945+1
2760	7.383	-3.572+1	6.638	3.993+1	4.235+1	2.923+1
2770	7.384	-3.574+1	6.641	3.982+1	4.238+1	2.901+1
2780	7.385	-3.576+1	6.643	3.970+1	4.241+1	2.879+1
2790	7.386	-3.579+1	6.646	3.958+1	4.243+1	2.858+1
2800	7.387	-3.581+1	6.649	3.947+1	4.246+1	2.836+1
2810	7.388	-3.583+1	6.651	3.935+1	4.249+1	2.815+1
2820	7.388	-3.586+1	6.654	3.924+1	4.251+1	2.794+1
2830	7.389	-3.588+1	6.657	3.913+1	4.254+1	2.773+1
2840	7.390	-3.590+1	6.659	3.902+1	4.256+1	2.752+1
2850	7.390	-3.593+1	6.662	3.891+1	4.259+1	2.731+1
2860	7.391	-3.595+1	6.664	3.880+1	4.262+1	2.711+1
2870	7.391	-3.597+1	6.667	3.869+1	4.264+1	2.691+1
2880	7.391	-3.600+1	6.669	3.858+1	4.267+1	2.670+1
2890	7.392	-3.602+1	6.672	3.847+1	4.269+1	2.650+1
2900	7.392	-3.604+1	6.674	3.836+1	4.272+1	2.630+1
2910	7.393	-3.607+1	6.677	3.826+1	4.274+1	2.610+1
2920	7.393	-3.609+1	6.679	3.815+1	4.277+1	2.591+1
2930	7.394	-3.611+1	6.682	3.804+1	4.279+1	2.571+1
2940	7.394	-3.614+1	6.684	3.794+1	4.282+1	2.552+1
2950	7.395	-3.616+1	6.687	3.784+1	4.284+1	2.532+1
2960	7.395	-3.618+1	6.689	3.773+1	4.287+1	2.513+1
2970	7.396	-3.620+1	6.691	3.763+1	4.289+1	2.494+1
2980	7.396	-3.623+1	6.694	3.753+1	4.292+1	2.475+1
2990	7.397	-3.625+1	6.696	3.743+1	4.294+1	2.456+1
3000	7.397	-3.627+1	6.698	3.733+1	4.297+1	2.438+1
3010	7.398	-3.629+1	6.701	3.723+1	4.299+1	2.419+1
3020	7.399	-3.632+1	6.703	3.713+1	4.302+1	2.401+1
3030	7.400	-3.634+1	6.705	3.703+1	4.304+1	2.383+1
3040	7.401	-3.636+1	6.708	3.694+1	4.307+1	2.364+1
3050	7.402	-3.638+1	6.710	3.684+1	4.309+1	2.346+1
3060	7.403	-3.640+1	6.712	3.674+1	4.312+1	2.328+1
3070	7.404	-3.643+1	6.715	3.665+1	4.314+1	2.311+1
3080	7.405	-3.645+1	6.717	3.655+1	4.316+1	2.293+1
3090	7.406	-3.647+1	6.719	3.646+1	4.319+1	2.275+1

SPECIE C3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	7.407	-3.649+1	6.721	3.636+1	4.321+1	2.258+1
3110	7.408	-3.651+1	6.723	3.627+1	4.324+1	2.240+1
3120	7.409	-3.653+1	6.726	3.618+1	4.326+1	2.223+1
3130	7.409	-3.656+1	6.728	3.609+1	4.328+1	2.206+1
3140	7.410	-3.658+1	6.730	3.600+1	4.331+1	2.189+1
3150	7.410	-3.660+1	6.732	3.590+1	4.333+1	2.172+1
3160	7.411	-3.662+1	6.734	3.581+1	4.335+1	2.155+1
3170	7.411	-3.664+1	6.736	3.572+1	4.338+1	2.138+1
3180	7.412	-3.666+1	6.739	3.564+1	4.340+1	2.122+1
3190	7.412	-3.668+1	6.741	3.555+1	4.342+1	2.105+1
3200	7.412	-3.670+1	6.743	3.546+1	4.345+1	2.089+1
3210	7.413	-3.673+1	6.745	3.537+1	4.347+1	2.073+1
3220	7.413	-3.675+1	6.747	3.529+1	4.349+1	2.056+1
3230	7.414	-3.677+1	6.749	3.520+1	4.352+1	2.040+1
3240	7.414	-3.679+1	6.751	3.511+1	4.354+1	2.024+1
3250	7.415	-3.681+1	6.753	3.503+1	4.356+1	2.008+1
3260	7.415	-3.683+1	6.755	3.494+1	4.359+1	1.992+1
3270	7.416	-3.685+1	6.757	3.486+1	4.361+1	1.977+1
3280	7.416	-3.687+1	6.759	3.478+1	4.363+1	1.961+1
3290	7.417	-3.689+1	6.761	3.469+1	4.365+1	1.946+1
3300	7.417	-3.691+1	6.763	3.461+1	4.368+1	1.930+1
3310	7.418	-3.693+1	6.765	3.453+1	4.370+1	1.915+1
3320	7.418	-3.695+1	6.767	3.445+1	4.372+1	1.900+1
3330	7.419	-3.697+1	6.769	3.436+1	4.374+1	1.884+1
3340	7.419	-3.699+1	6.771	3.428+1	4.376+1	1.869+1
3350	7.420	-3.701+1	6.773	3.420+1	4.379+1	1.854+1
3360	7.420	-3.703+1	6.775	3.412+1	4.381+1	1.839+1
3370	7.421	-3.705+1	6.777	3.404+1	4.383+1	1.825+1
3380	7.421	-3.707+1	6.779	3.397+1	4.385+1	1.810+1
3390	7.422	-3.709+1	6.781	3.389+1	4.388+1	1.795+1
3400	7.422	-3.711+1	6.782	3.381+1	4.390+1	1.781+1
3410	7.422	-3.713+1	6.784	3.373+1	4.392+1	1.766+1
3420	7.422	-3.715+1	6.786	3.366+1	4.394+1	1.752+1
3430	7.422	-3.717+1	6.788	3.358+1	4.396+1	1.738+1
3440	7.422	-3.719+1	6.790	3.350+1	4.398+1	1.723+1
3450	7.422	-3.721+1	6.792	3.343+1	4.401+1	1.709+1
3460	7.422	-3.723+1	6.794	3.335+1	4.403+1	1.695+1
3470	7.422	-3.725+1	6.795	3.328+1	4.405+1	1.681+1
3480	7.422	-3.727+1	6.797	3.320+1	4.407+1	1.668+1
3490	7.422	-3.729+1	6.799	3.313+1	4.409+1	1.654+1
3500	7.422	-3.731+1	6.801	3.306+1	4.411+1	1.640+1
3510	7.423	-3.733+1	6.803	3.298+1	4.413+1	1.626+1
3520	7.423	-3.735+1	6.804	3.291+1	4.415+1	1.613+1
3530	7.423	-3.737+1	6.806	3.284+1	4.418+1	1.599+1
3540	7.424	-3.739+1	6.808	3.277+1	4.420+1	1.586+1
3550	7.424	-3.741+1	6.810	3.270+1	4.422+1	1.572+1
3560	7.425	-3.743+1	6.811	3.262+1	4.424+1	1.559+1
3570	7.425	-3.745+1	6.813	3.255+1	4.426+1	1.546+1
3580	7.426	-3.747+1	6.815	3.248+1	4.428+1	1.533+1
3590	7.427	-3.748+1	6.816	3.241+1	4.430+1	1.520+1

SPECIE C3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	7.427	-3.750+1	6.818	3.234+1	4.432+1	1.507+1
3610	7.428	-3.752+1	6.820	3.228+1	4.434+1	1.494+1
3620	7.428	-3.754+1	6.822	3.221+1	4.436+1	1.481+1
3630	7.429	-3.756+1	6.823	3.214+1	4.438+1	1.468+1
3640	7.429	-3.758+1	6.825	3.207+1	4.440+1	1.456+1
3650	7.430	-3.760+1	6.827	3.200+1	4.442+1	1.443+1
3660	7.430	-3.762+1	6.828	3.194+1	4.444+1	1.430+1
3670	7.431	-3.763+1	6.830	3.187+1	4.446+1	1.418+1
3680	7.431	-3.765+1	6.832	3.180+1	4.448+1	1.406+1
3690	7.432	-3.767+1	6.833	3.174+1	4.451+1	1.393+1
3700	7.432	-3.769+1	6.835	3.167+1	4.453+1	1.381+1
3710	7.433	-3.771+1	6.836	3.161+1	4.455+1	1.369+1
3720	7.433	-3.773+1	6.838	3.154+1	4.457+1	1.357+1
3730	7.434	-3.775+1	6.840	3.148+1	4.459+1	1.344+1
3740	7.434	-3.776+1	6.841	3.141+1	4.461+1	1.332+1
3750	7.435	-3.778+1	6.843	3.135+1	4.462+1	1.320+1
3760	7.435	-3.780+1	6.844	3.128+1	4.464+1	1.309+1
3770	7.436	-3.782+1	6.846	3.122+1	4.466+1	1.297+1
3780	7.436	-3.784+1	6.848	3.116+1	4.468+1	1.285+1
3790	7.437	-3.785+1	6.849	3.110+1	4.470+1	1.273+1
3800	7.437	-3.787+1	6.851	3.103+1	4.472+1	1.262+1
3810	7.437	-3.789+1	6.852	3.097+1	4.474+1	1.250+1
3820	7.437	-3.791+1	6.854	3.091+1	4.476+1	1.239+1
3830	7.437	-3.793+1	6.855	3.085+1	4.478+1	1.227+1
3840	7.437	-3.794+1	6.857	3.079+1	4.480+1	1.216+1
3850	7.437	-3.796+1	6.858	3.073+1	4.482+1	1.204+1
3860	7.437	-3.798+1	6.860	3.067+1	4.484+1	1.193+1
3870	7.437	-3.800+1	6.861	3.061+1	4.486+1	1.182+1
3880	7.437	-3.802+1	6.863	3.055+1	4.488+1	1.171+1
3890	7.437	-3.803+1	6.864	3.049+1	4.490+1	1.159+1
3900	7.437	-3.805+1	6.866	3.043+1	4.492+1	1.148+1
3910	7.438	-3.807+1	6.867	3.037+1	4.494+1	1.137+1
3920	7.438	-3.809+1	6.869	3.031+1	4.495+1	1.126+1
3930	7.438	-3.810+1	6.870	3.025+1	4.497+1	1.116+1
3940	7.439	-3.812+1	6.872	3.019+1	4.499+1	1.105+1
3950	7.439	-3.814+1	6.873	3.014+1	4.501+1	1.094+1
3960	7.440	-3.816+1	6.874	3.008+1	4.503+1	1.083+1
3970	7.440	-3.817+1	6.876	3.002+1	4.505+1	1.072+1
3980	7.441	-3.819+1	6.877	2.997+1	4.507+1	1.062+1
3990	7.442	-3.821+1	6.879	2.991+1	4.509+1	1.051+1
4000	7.442	-3.823+1	6.880	2.985+1	4.511+1	1.041+1
4010	7.442	-3.824+1	6.882	2.980+1	4.512+1	1.030+1
4020	7.442	-3.826+1	6.883	2.974+1	4.514+1	1.020+1
4030	7.442	-3.828+1	6.884	2.969+1	4.516+1	1.009+1
4040	7.442	-3.829+1	6.886	2.963+1	4.518+1	9.991
4050	7.442	-3.831+1	6.887	2.958+1	4.520+1	9.889
4060	7.442	-3.833+1	6.888	2.952+1	4.522+1	9.787
4070	7.442	-3.834+1	6.890	2.947+1	4.523+1	9.685
4080	7.442	-3.836+1	6.891	2.941+1	4.525+1	9.584
4090	7.442	-3.838+1	6.893	2.936+1	4.527+1	9.483

SPECIE C3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	7.442	-3.840+1	6.894	2.931+1	4.529+1	9.383
4110	7.443	-3.841+1	6.895	2.925+1	4.531+1	9.283
4120	7.443	-3.843+1	6.897	2.920+1	4.533+1	9.184
4130	7.443	-3.845+1	6.898	2.915+1	4.534+1	9.085
4140	7.444	-3.846+1	6.899	2.910+1	4.536+1	8.987
4150	7.444	-3.848+1	6.901	2.904+1	4.538+1	8.889
4160	7.445	-3.850+1	6.902	2.899+1	4.540+1	8.791
4170	7.445	-3.851+1	6.903	2.894+1	4.542+1	8.694
4180	7.446	-3.853+1	6.905	2.889+1	4.543+1	8.598
4190	7.447	-3.854+1	6.906	2.884+1	4.545+1	8.502
4200	7.447	-3.856+1	6.907	2.879+1	4.547+1	8.407
4210	7.447	-3.858+1	6.908	2.874+1	4.549+1	8.312
4220	7.447	-3.859+1	6.910	2.869+1	4.550+1	8.217
4230	7.447	-3.861+1	6.911	2.864+1	4.552+1	8.123
4240	7.447	-3.863+1	6.912	2.859+1	4.554+1	8.029
4250	7.447	-3.864+1	6.913	2.854+1	4.556+1	7.936
4260	7.447	-3.866+1	6.915	2.849+1	4.557+1	7.843
4270	7.447	-3.868+1	6.916	2.844+1	4.559+1	7.751
4280	7.447	-3.869+1	6.917	2.839+1	4.561+1	7.659
4290	7.447	-3.871+1	6.918	2.834+1	4.563+1	7.567
4300	7.447	-3.872+1	6.920	2.829+1	4.564+1	7.476
4310	7.448	-3.874+1	6.921	2.824+1	4.566+1	7.385
4320	7.448	-3.876+1	6.922	2.819+1	4.568+1	7.295
4330	7.448	-3.877+1	6.923	2.815+1	4.570+1	7.205
4340	7.449	-3.879+1	6.925	2.810+1	4.571+1	7.116
4350	7.449	-3.880+1	6.926	2.805+1	4.573+1	7.026
4360	7.450	-3.882+1	6.927	2.800+1	4.575+1	6.938
4370	7.450	-3.884+1	6.928	2.796+1	4.576+1	6.849
4380	7.451	-3.885+1	6.929	2.791+1	4.578+1	6.761
4390	7.452	-3.887+1	6.931	2.786+1	4.580+1	6.674
4400	7.452	-3.888+1	6.932	2.782+1	4.582+1	6.587
4410	7.452	-3.890+1	6.933	2.777+1	4.583+1	6.500
4420	7.452	-3.891+1	6.934	2.772+1	4.585+1	6.414
4430	7.452	-3.893+1	6.935	2.768+1	4.587+1	6.328
4440	7.452	-3.895+1	6.937	2.763+1	4.588+1	6.242
4450	7.452	-3.896+1	6.938	2.759+1	4.590+1	6.157
4460	7.452	-3.898+1	6.939	2.754+1	4.592+1	6.072
4470	7.452	-3.899+1	6.940	2.750+1	4.593+1	5.988
4480	7.452	-3.901+1	6.941	2.745+1	4.595+1	5.904
4490	7.452	-3.902+1	6.942	2.741+1	4.597+1	5.820
4500	7.452	-3.904+1	6.943	2.736+1	4.598+1	5.737
4510	7.452	-3.905+1	6.945	2.732+1	4.600+1	5.654
4520	7.452	-3.907+1	6.946	2.728+1	4.602+1	5.571
4530	7.452	-3.909+1	6.947	2.723+1	4.603+1	5.489
4540	7.452	-3.910+1	6.948	2.719+1	4.605+1	5.407
4550	7.452	-3.912+1	6.949	2.715+1	4.607+1	5.326
4560	7.452	-3.913+1	6.950	2.710+1	4.608+1	5.244
4570	7.452	-3.915+1	6.951	2.706+1	4.610+1	5.163
4580	7.452	-3.916+1	6.952	2.702+1	4.611+1	5.083
4590	7.452	-3.918+1	6.953	2.697+1	4.613+1	5.003

SPECIE C3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	7.452	-3.919+1	6.955	2.693+1	4.615+1	4.923
4610	7.453	-3.921+1	6.956	2.689+1	4.616+1	4.844
4620	7.453	-3.922+1	6.957	2.685+1	4.618+1	4.765
4630	7.453	-3.924+1	6.958	2.681+1	4.619+1	4.686
4640	7.454	-3.925+1	6.959	2.676+1	4.621+1	4.608
4650	7.454	-3.927+1	6.960	2.672+1	4.623+1	4.530
4660	7.455	-3.928+1	6.961	2.668+1	4.624+1	4.452
4670	7.455	-3.930+1	6.962	2.664+1	4.626+1	4.375
4680	7.456	-3.931+1	6.963	2.660+1	4.628+1	4.298
4690	7.457	-3.933+1	6.964	2.656+1	4.629+1	4.221
4700	7.457	-3.934+1	6.965	2.652+1	4.631+1	4.145
4710	7.457	-3.936+1	6.966	2.648+1	4.632+1	4.069
4720	7.457	-3.937+1	6.967	2.644+1	4.634+1	3.993
4730	7.457	-3.939+1	6.968	2.640+1	4.635+1	3.918
4740	7.457	-3.940+1	6.969	2.636+1	4.637+1	3.843
4750	7.457	-3.942+1	6.970	2.632+1	4.639+1	3.768
4760	7.457	-3.943+1	6.971	2.628+1	4.640+1	3.694
4770	7.457	-3.944+1	6.973	2.624+1	4.642+1	3.619
4780	7.457	-3.946+1	6.974	2.620+1	4.643+1	3.546
4790	7.457	-3.947+1	6.975	2.616+1	4.645+1	3.472
4800	7.457	-3.949+1	6.976	2.612+1	4.646+1	3.399
4810	7.457	-3.950+1	6.977	2.608+1	4.648+1	3.326
4820	7.457	-3.952+1	6.978	2.604+1	4.650+1	3.253
4830	7.457	-3.953+1	6.979	2.600+1	4.651+1	3.181
4840	7.457	-3.955+1	6.980	2.597+1	4.653+1	3.109
4850	7.457	-3.956+1	6.981	2.593+1	4.654+1	3.037
4860	7.457	-3.958+1	6.982	2.589+1	4.656+1	2.966
4870	7.457	-3.959+1	6.983	2.585+1	4.657+1	2.894
4880	7.457	-3.960+1	6.984	2.581+1	4.659+1	2.823
4890	7.457	-3.962+1	6.985	2.578+1	4.660+1	2.753
4900	7.457	-3.963+1	6.986	2.574+1	4.662+1	2.682
4910	7.458	-3.965+1	6.987	2.570+1	4.663+1	2.612
4920	7.458	-3.966+1	6.987	2.566+1	4.665+1	2.542
4930	7.458	-3.967+1	6.988	2.563+1	4.666+1	2.472
4940	7.459	-3.969+1	6.989	2.559+1	4.668+1	2.403
4950	7.459	-3.970+1	6.990	2.555+1	4.669+1	2.334
4960	7.460	-3.972+1	6.991	2.552+1	4.671+1	2.265
4970	7.460	-3.973+1	6.992	2.548+1	4.672+1	2.196
4980	7.461	-3.975+1	6.993	2.545+1	4.674+1	2.128
4990	7.462	-3.976+1	6.994	2.541+1	4.675+1	2.060
5000	7.463	-3.977+1	6.995	2.537+1	4.677+1	1.992
5010	7.463	-3.979+1	6.996	2.534+1	4.678+1	1.925
5020	7.463	-3.980+1	6.997	2.530+1	4.680+1	1.858
5030	7.463	-3.982+1	6.998	2.527+1	4.681+1	1.791
5040	7.463	-3.983+1	6.999	2.523+1	4.683+1	1.725
5050	7.463	-3.984+1	7.000	2.520+1	4.684+1	1.658
5060	7.463	-3.986+1	7.001	2.516+1	4.686+1	1.592
5070	7.463	-3.987+1	7.002	2.513+1	4.687+1	1.527
5080	7.463	-3.988+1	7.002	2.509+1	4.689+1	1.461
5090	7.463	-3.990+1	7.003	2.506+1	4.690+1	1.396

SPECIE C3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	7.463	-3.991+1	7.004	2.502+1	4.692+1	1.331
5110	7.463	-3.993+1	7.005	2.499+1	4.693+1	1.267
5120	7.463	-3.994+1	7.006	2.495+1	4.695+1	1.202
5130	7.463	-3.995+1	7.007	2.492+1	4.696+1	1.138
5140	7.463	-3.997+1	7.008	2.489+1	4.697+1	1.074
5150	7.463	-3.998+1	7.009	2.485+1	4.699+1	1.010
5160	7.463	-3.999+1	7.010	2.482+1	4.700+1	9.467-1
5170	7.463	-4.001+1	7.011	2.478+1	4.702+1	8.835-1
5180	7.463	-4.002+1	7.011	2.475+1	4.703+1	8.204-1
5190	7.463	-4.003+1	7.012	2.472+1	4.705+1	7.576-1
5200	7.463	-4.005+1	7.013	2.469+1	4.706+1	6.951-1
5210	7.463	-4.006+1	7.014	2.465+1	4.708+1	6.327-1
5220	7.463	-4.008+1	7.015	2.462+1	4.709+1	5.705-1
5230	7.463	-4.009+1	7.016	2.459+1	4.710+1	5.086-1
5240	7.463	-4.010+1	7.017	2.455+1	4.712+1	4.469-1
5250	7.463	-4.012+1	7.017	2.452+1	4.713+1	3.855-1
5260	7.463	-4.013+1	7.018	2.449+1	4.715+1	3.243-1
5270	7.463	-4.014+1	7.019	2.446+1	4.716+1	2.633-1
5280	7.463	-4.016+1	7.020	2.442+1	4.718+1	2.026-1
5290	7.463	-4.017+1	7.021	2.439+1	4.719+1	1.420-1
5300	7.463	-4.018+1	7.022	2.436+1	4.720+1	8.179-2
5310	7.463	-4.020+1	7.022	2.433+1	4.722+1	2.185-2
5320	7.463	-4.021+1	7.023	2.430+1	4.723+1	-3.786-2
5330	7.464	-4.022+1	7.024	2.427+1	4.725+1	-9.742-2
5340	7.464	-4.023+1	7.025	2.423+1	4.726+1	-1.567-1
5350	7.464	-4.025+1	7.026	2.420+1	4.727+1	-2.157-1
5360	7.465	-4.026+1	7.027	2.417+1	4.729+1	-2.745-1
5370	7.466	-4.027+1	7.027	2.414+1	4.730+1	-3.330-1
5380	7.466	-4.029+1	7.028	2.411+1	4.732+1	-3.914-1
5390	7.467	-4.030+1	7.029	2.408+1	4.733+1	-4.494-1
5400	7.468	-4.031+1	7.030	2.405+1	4.734+1	-5.074-1
5410	7.468	-4.033+1	7.031	2.402+1	4.736+1	-5.651-1
5420	7.468	-4.034+1	7.032	2.399+1	4.737+1	-6.227-1
5430	7.468	-4.035+1	7.032	2.396+1	4.738+1	-6.800-1
5440	7.468	-4.037+1	7.033	2.393+1	4.740+1	-7.372-1
5450	7.468	-4.038+1	7.034	2.390+1	4.741+1	-7.942-1
5460	7.468	-4.039+1	7.035	2.387+1	4.743+1	-8.509-1
5470	7.468	-4.040+1	7.036	2.384+1	4.744+1	-9.075-1
5480	7.468	-4.042+1	7.036	2.381+1	4.745+1	-9.639-1
5490	7.468	-4.043+1	7.037	2.378+1	4.747+1	-1.020
5500	7.468	-4.044+1	7.038	2.375+1	4.748+1	-1.076
5510	7.468	-4.046+1	7.039	2.372+1	4.749+1	-1.132
5520	7.468	-4.047+1	7.040	2.369+1	4.751+1	-1.188
5530	7.468	-4.048+1	7.040	2.366+1	4.752+1	-1.243
5540	7.468	-4.049+1	7.041	2.363+1	4.753+1	-1.298
5550	7.468	-4.051+1	7.042	2.360+1	4.755+1	-1.353
5560	7.468	-4.052+1	7.043	2.357+1	4.756+1	-1.408
5570	7.468	-4.053+1	7.043	2.354+1	4.758+1	-1.463
5580	7.468	-4.054+1	7.044	2.351+1	4.759+1	-1.518
5590	7.468	-4.056+1	7.045	2.348+1	4.760+1	-1.572

SPECIE C3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	7.468	-4.057+1	7.046	2.346+1	4.762+1	-1.626
5610	7.468	-4.058+1	7.046	2.343+1	4.763+1	-1.680
5620	7.468	-4.059+1	7.047	2.340+1	4.764+1	-1.734
5630	7.468	-4.061+1	7.048	2.337+1	4.766+1	-1.787
5640	7.468	-4.062+1	7.049	2.334+1	4.767+1	-1.840
5650	7.468	-4.063+1	7.049	2.331+1	4.768+1	-1.893
5660	7.468	-4.064+1	7.050	2.329+1	4.769+1	-1.946
5670	7.468	-4.066+1	7.051	2.326+1	4.771+1	-1.999
5680	7.468	-4.067+1	7.052	2.323+1	4.772+1	-2.052
5690	7.468	-4.068+1	7.052	2.320+1	4.773+1	-2.104
5700	7.468	-4.069+1	7.053	2.317+1	4.775+1	-2.156
5710	7.468	-4.071+1	7.054	2.315+1	4.776+1	-2.208
5720	7.468	-4.072+1	7.055	2.312+1	4.777+1	-2.260
5730	7.469	-4.073+1	7.055	2.309+1	4.779+1	-2.311
5740	7.469	-4.074+1	7.056	2.307+1	4.780+1	-2.363
5750	7.469	-4.076+1	7.057	2.304+1	4.781+1	-2.414
5760	7.470	-4.077+1	7.057	2.301+1	4.783+1	-2.465
5770	7.471	-4.078+1	7.058	2.298+1	4.784+1	-2.516
5780	7.471	-4.079+1	7.059	2.296+1	4.785+1	-2.567
5790	7.472	-4.080+1	7.060	2.293+1	4.786+1	-2.617
5800	7.473	-4.082+1	7.060	2.290+1	4.788+1	-2.667
5810	7.473	-4.083+1	7.061	2.288+1	4.789+1	-2.718
5820	7.473	-4.084+1	7.062	2.285+1	4.790+1	-2.768
5830	7.473	-4.085+1	7.062	2.282+1	4.792+1	-2.818
5840	7.473	-4.087+1	7.063	2.280+1	4.793+1	-2.867
5850	7.473	-4.088+1	7.064	2.277+1	4.794+1	-2.917
5860	7.473	-4.089+1	7.065	2.275+1	4.795+1	-2.966
5870	7.473	-4.090+1	7.065	2.272+1	4.797+1	-3.016
5880	7.473	-4.091+1	7.066	2.269+1	4.798+1	-3.065
5890	7.473	-4.093+1	7.067	2.267+1	4.799+1	-3.114
5900	7.473	-4.094+1	7.067	2.264+1	4.801+1	-3.162
5910	7.473	-4.095+1	7.068	2.262+1	4.802+1	-3.211
5920	7.473	-4.096+1	7.069	2.259+1	4.803+1	-3.260
5930	7.473	-4.097+1	7.069	2.257+1	4.804+1	-3.308
5940	7.473	-4.099+1	7.070	2.254+1	4.806+1	-3.356
5950	7.473	-4.100+1	7.071	2.251+1	4.807+1	-3.404
5960	7.473	-4.101+1	7.071	2.249+1	4.808+1	-3.452
5970	7.473	-4.102+1	7.072	2.246+1	4.809+1	-3.500
5980	7.473	-4.103+1	7.073	2.244+1	4.811+1	-3.547
5990	7.473	-4.104+1	7.073	2.241+1	4.812+1	-3.595
6000	7.473	-4.106+1	7.074	2.239+1	4.813+1	-3.642

SPECIE CH

MOLECULAR WEIGHT EQUALS 13.0194

DELTA E ZERO EQUALS 142.000 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(J. S. GORDON, RMD 210-E3, 1/60) (5)

THERMAL

(J. S. GURDON, RMD 210-E3, 1/60) (5)

SPECIE CH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	3.504	-1.568+1	3.598	7.182+2	1.928+1	1.382+2
110	3.504	-1.586+1	3.603	6.637+2	1.946+1	1.273+2
120	3.504	-1.603+1	3.606	6.143+2	1.964+1	1.175+2
130	3.504	-1.620+1	3.608	5.696+2	1.981+1	1.085+2
140	3.504	-1.637+1	3.607	5.293+2	1.997+1	1.005+2
150	3.505	-1.653+1	3.606	4.930+2	2.013+1	9.322+1
160	3.505	-1.668+1	3.603	4.604+2	2.028+1	8.670+1
170	3.505	-1.683+1	3.600	4.312+2	2.043+1	8.086+1
180	3.505	-1.698+1	3.595	4.051+2	2.057+1	7.563+1
190	3.505	-1.712+1	3.591	3.817+2	2.071+1	7.095+1
200	3.505	-1.726+1	3.585	3.609+2	2.084+1	6.678+1
210	3.506	-1.739+1	3.580	3.423+2	2.097+1	6.306+1
220	3.506	-1.752+1	3.574	3.258+2	2.110+1	5.975+1
230	3.506	-1.765+1	3.568	3.110+2	2.122+1	5.679+1
240	3.507	-1.778+1	3.563	2.978+2	2.134+1	5.415+1
250	3.507	-1.790+1	3.557	2.860+2	2.146+1	5.178+1
260	3.507	-1.803+1	3.552	2.754+2	2.158+1	4.966+1
270	3.507	-1.814+1	3.547	2.659+2	2.169+1	4.773+1
280	3.508	-1.826+1	3.543	2.571+2	2.180+1	4.598+1
290	3.508	-1.838+1	3.539	2.491+2	2.191+1	4.438+1
300	3.508	-1.849+1	3.536	2.417+2	2.202+1	4.289+1
310	3.509	-1.860+1	3.534	2.339+2	2.213+1	4.131+1
320	3.510	-1.871+1	3.533	2.265+2	2.224+1	3.984+1
330	3.510	-1.882+1	3.532	2.197+2	2.235+1	3.847+1
340	3.511	-1.892+1	3.531	2.133+2	2.245+1	3.718+1
350	3.511	-1.902+1	3.530	2.073+2	2.255+1	3.598+1
360	3.512	-1.912+1	3.530	2.017+2	2.265+1	3.485+1
370	3.513	-1.922+1	3.530	1.964+2	2.275+1	3.378+1
380	3.514	-1.932+1	3.529	1.914+2	2.285+1	3.278+1
390	3.515	-1.941+1	3.529	1.867+2	2.294+1	3.183+1
400	3.516	-1.950+1	3.529	1.822+2	2.303+1	3.092+1
410	3.517	-1.959+1	3.529	1.779+2	2.312+1	3.007+1
420	3.519	-1.968+1	3.529	1.738+2	2.321+1	2.925+1
430	3.520	-1.976+1	3.529	1.700+2	2.329+1	2.846+1
440	3.522	-1.984+1	3.528	1.662+2	2.337+1	2.771+1
450	3.523	-1.992+1	3.528	1.626+2	2.345+1	2.698+1
460	3.525	-2.000+1	3.528	1.592+2	2.353+1	2.628+1
470	3.528	-2.008+1	3.528	1.558+2	2.360+1	2.561+1
480	3.530	-2.015+1	3.528	1.526+2	2.368+1	2.495+1
490	3.532	-2.022+1	3.528	1.495+2	2.375+1	2.432+1
500	3.535	-2.029+1	3.528	1.464+2	2.382+1	2.371+1
510	3.538	-2.036+1	3.528	1.437+2	2.389+1	2.315+1
520	3.542	-2.043+1	3.528	1.410+2	2.396+1	2.260+1
530	3.545	-2.050+1	3.529	1.384+2	2.403+1	2.208+1
540	3.549	-2.056+1	3.529	1.359+2	2.409+1	2.158+1
550	3.553	-2.063+1	3.529	1.335+2	2.416+1	2.109+1
560	3.557	-2.069+1	3.530	1.312+2	2.422+1	2.062+1
570	3.561	-2.075+1	3.530	1.290+2	2.428+1	2.016+1
580	3.566	-2.082+1	3.531	1.268+2	2.435+1	1.972+1
590	3.571	-2.088+1	3.532	1.247+2	2.441+1	1.929+1

SPECIE CH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	3.576	-2.093+1	3.532	1.226+2	2.447+1	1.887+1
610	3.581	-2.099+1	3.533	1.207+2	2.453+1	1.848+1
620	3.586	-2.105+1	3.534	1.188+2	2.458+1	1.809+1
630	3.592	-2.111+1	3.535	1.170+2	2.464+1	1.772+1
640	3.598	-2.116+1	3.536	1.152+2	2.470+1	1.736+1
650	3.603	-2.122+1	3.537	1.135+2	2.475+1	1.701+1
660	3.609	-2.127+1	3.538	1.118+2	2.481+1	1.667+1
670	3.616	-2.132+1	3.539	1.102+2	2.486+1	1.634+1
680	3.622	-2.138+1	3.540	1.086+2	2.492+1	1.602+1
690	3.628	-2.143+1	3.541	1.071+2	2.497+1	1.571+1
700	3.635	-2.148+1	3.543	1.056+2	2.502+1	1.540+1
710	3.641	-2.153+1	3.544	1.042+2	2.507+1	1.511+1
720	3.648	-2.158+1	3.545	1.028+2	2.513+1	1.482+1
730	3.654	-2.163+1	3.547	1.014+2	2.518+1	1.455+1
740	3.661	-2.168+1	3.548	1.001+2	2.523+1	1.428+1
750	3.668	-2.172+1	3.550	9.884+1	2.527+1	1.401+1
760	3.675	-2.177+1	3.551	9.758+1	2.532+1	1.375+1
770	3.682	-2.182+1	3.553	9.636+1	2.537+1	1.350+1
780	3.689	-2.186+1	3.555	9.517+1	2.542+1	1.326+1
790	3.696	-2.191+1	3.556	9.401+1	2.547+1	1.302+1
800	3.704	-2.195+1	3.558	9.288+1	2.551+1	1.279+1
810	3.711	-2.200+1	3.560	9.178+1	2.556+1	1.256+1
820	3.718	-2.204+1	3.562	9.071+1	2.560+1	1.234+1
830	3.725	-2.208+1	3.564	8.966+1	2.565+1	1.213+1
840	3.733	-2.213+1	3.566	8.864+1	2.569+1	1.192+1
850	3.740	-2.217+1	3.568	8.764+1	2.574+1	1.171+1
860	3.748	-2.221+1	3.570	8.666+1	2.578+1	1.151+1
870	3.755	-2.225+1	3.572	8.571+1	2.583+1	1.131+1
880	3.762	-2.229+1	3.574	8.478+1	2.587+1	1.112+1
890	3.770	-2.233+1	3.576	8.387+1	2.591+1	1.093+1
900	3.778	-2.237+1	3.579	8.298+1	2.595+1	1.075+1
910	3.785	-2.241+1	3.581	8.210+1	2.599+1	1.057+1
920	3.792	-2.245+1	3.583	8.126+1	2.604+1	1.039+1
930	3.800	-2.249+1	3.585	8.042+1	2.608+1	1.022+1
940	3.807	-2.253+1	3.588	7.961+1	2.612+1	1.005+1
950	3.815	-2.257+1	3.590	7.881+1	2.616+1	9.887
960	3.822	-2.261+1	3.592	7.803+1	2.620+1	9.726
970	3.829	-2.264+1	3.595	7.726+1	2.624+1	9.567
980	3.837	-2.268+1	3.597	7.651+1	2.628+1	9.412
990	3.844	-2.272+1	3.600	7.578+1	2.632+1	9.260
1000	3.852	-2.275+1	3.602	7.506+1	2.635+1	9.110
1010	3.859	-2.279+1	3.605	7.435+1	2.639+1	8.964
1020	3.866	-2.282+1	3.607	7.366+1	2.643+1	8.820
1030	3.873	-2.286+1	3.610	7.299+1	2.647+1	8.680
1040	3.880	-2.289+1	3.612	7.232+1	2.651+1	8.542
1050	3.887	-2.293+1	3.615	7.167+1	2.654+1	8.406
1060	3.894	-2.296+1	3.617	7.103+1	2.658+1	8.273
1070	3.901	-2.300+1	3.620	7.040+1	2.662+1	8.142
1080	3.908	-2.303+1	3.623	6.979+1	2.665+1	8.014
1090	3.915	-2.306+1	3.625	6.918+1	2.669+1	7.888

SPECIE CH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	3.922	-2.310+1	3.628	6.859+1	2.672+1	7.764
1110	3.929	-2.313+1	3.631	6.801+1	2.676+1	7.642
1120	3.936	-2.316+1	3.633	6.743+1	2.680+1	7.523
1130	3.942	-2.319+1	3.636	6.687+1	2.683+1	7.406
1140	3.949	-2.323+1	3.639	6.632+1	2.687+1	7.291
1150	3.956	-2.326+1	3.642	6.578+1	2.690+1	7.178
1160	3.962	-2.329+1	3.644	6.525+1	2.693+1	7.067
1170	3.969	-2.332+1	3.647	6.472+1	2.697+1	6.957
1180	3.975	-2.335+1	3.650	6.421+1	2.700+1	6.850
1190	3.982	-2.338+1	3.653	6.370+1	2.704+1	6.744
1200	3.988	-2.341+1	3.655	6.320+1	2.707+1	6.640
1210	3.994	-2.344+1	3.658	6.271+1	2.710+1	6.538
1220	4.000	-2.347+1	3.661	6.223+1	2.714+1	6.437
1230	4.007	-2.350+1	3.664	6.176+1	2.717+1	6.338
1240	4.013	-2.353+1	3.667	6.129+1	2.720+1	6.241
1250	4.019	-2.356+1	3.669	6.084+1	2.723+1	6.145
1260	4.025	-2.359+1	3.672	6.038+1	2.726+1	6.051
1270	4.030	-2.362+1	3.675	5.994+1	2.730+1	5.958
1280	4.036	-2.365+1	3.678	5.950+1	2.733+1	5.866
1290	4.042	-2.368+1	3.681	5.907+1	2.736+1	5.776
1300	4.048	-2.371+1	3.683	5.865+1	2.739+1	5.687
1310	4.053	-2.374+1	3.686	5.823+1	2.742+1	5.599
1320	4.059	-2.376+1	3.689	5.782+1	2.745+1	5.513
1330	4.065	-2.379+1	3.692	5.742+1	2.748+1	5.428
1340	4.070	-2.382+1	3.695	5.702+1	2.751+1	5.345
1350	4.076	-2.385+1	3.697	5.663+1	2.754+1	5.262
1360	4.082	-2.387+1	3.700	5.624+1	2.757+1	5.181
1370	4.087	-2.390+1	3.703	5.586+1	2.760+1	5.101
1380	4.092	-2.393+1	3.706	5.549+1	2.763+1	5.022
1390	4.098	-2.395+1	3.709	5.512+1	2.766+1	4.944
1400	4.103	-2.398+1	3.711	5.475+1	2.769+1	4.867
1410	4.108	-2.401+1	3.714	5.439+1	2.772+1	4.792
1420	4.114	-2.403+1	3.717	5.404+1	2.775+1	4.717
1430	4.119	-2.406+1	3.720	5.369+1	2.778+1	4.643
1440	4.124	-2.409+1	3.723	5.335+1	2.781+1	4.571
1450	4.129	-2.411+1	3.725	5.301+1	2.784+1	4.499
1460	4.134	-2.414+1	3.728	5.267+1	2.787+1	4.429
1470	4.139	-2.416+1	3.731	5.234+1	2.789+1	4.359
1480	4.143	-2.419+1	3.734	5.202+1	2.792+1	4.291
1490	4.148	-2.421+1	3.736	5.169+1	2.795+1	4.223
1500	4.153	-2.424+1	3.739	5.138+1	2.798+1	4.156
1510	4.158	-2.426+1	3.742	5.106+1	2.801+1	4.090
1520	4.162	-2.429+1	3.745	5.076+1	2.803+1	4.025
1530	4.167	-2.431+1	3.747	5.045+1	2.806+1	3.961
1540	4.171	-2.434+1	3.750	5.015+1	2.809+1	3.897
1550	4.176	-2.436+1	3.753	4.985+1	2.811+1	3.835
1560	4.180	-2.439+1	3.756	4.956+1	2.814+1	3.773
1570	4.185	-2.441+1	3.758	4.927+1	2.817+1	3.712
1580	4.189	-2.443+1	3.761	4.899+1	2.819+1	3.651
1590	4.193	-2.446+1	3.764	4.871+1	2.822+1	3.592

SPECIE CH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	4.198	-2.448+1	3.767	4.843+1	2.825+1	3.533
1610	4.202	-2.450+1	3.769	4.815+1	2.827+1	3.475
1620	4.206	-2.453+1	3.772	4.788+1	2.830+1	3.417
1630	4.210	-2.455+1	3.775	4.761+1	2.833+1	3.361
1640	4.215	-2.457+1	3.777	4.735+1	2.835+1	3.305
1650	4.219	-2.460+1	3.780	4.709+1	2.838+1	3.249
1660	4.223	-2.462+1	3.782	4.683+1	2.840+1	3.194
1670	4.227	-2.464+1	3.785	4.657+1	2.843+1	3.140
1680	4.231	-2.466+1	3.788	4.632+1	2.845+1	3.087
1690	4.235	-2.469+1	3.790	4.607+1	2.848+1	3.034
1700	4.239	-2.471+1	3.793	4.583+1	2.850+1	2.982
1710	4.243	-2.473+1	3.796	4.558+1	2.853+1	2.930
1720	4.247	-2.475+1	3.798	4.534+1	2.855+1	2.879
1730	4.250	-2.478+1	3.801	4.511+1	2.858+1	2.828
1740	4.254	-2.480+1	3.803	4.487+1	2.860+1	2.779
1750	4.258	-2.482+1	3.806	4.464+1	2.863+1	2.729
1760	4.262	-2.484+1	3.809	4.441+1	2.865+1	2.680
1770	4.265	-2.486+1	3.811	4.418+1	2.867+1	2.632
1780	4.269	-2.488+1	3.814	4.396+1	2.870+1	2.585
1790	4.272	-2.491+1	3.816	4.374+1	2.872+1	2.537
1800	4.276	-2.493+1	3.819	4.352+1	2.875+1	2.491
1810	4.279	-2.495+1	3.821	4.330+1	2.877+1	2.445
1820	4.283	-2.497+1	3.824	4.309+1	2.879+1	2.399
1830	4.286	-2.499+1	3.826	4.287+1	2.882+1	2.353
1840	4.290	-2.501+1	3.829	4.266+1	2.884+1	2.309
1850	4.293	-2.503+1	3.831	4.246+1	2.886+1	2.264
1860	4.296	-2.505+1	3.834	4.225+1	2.889+1	2.221
1870	4.300	-2.507+1	3.836	4.205+1	2.891+1	2.177
1880	4.303	-2.509+1	3.839	4.185+1	2.893+1	2.134
1890	4.306	-2.511+1	3.841	4.165+1	2.896+1	2.092
1900	4.309	-2.513+1	3.844	4.145+1	2.898+1	2.050
1910	4.313	-2.515+1	3.846	4.126+1	2.900+1	2.008
1920	4.316	-2.517+1	3.849	4.107+1	2.902+1	1.967
1930	4.319	-2.519+1	3.851	4.088+1	2.905+1	1.927
1940	4.322	-2.521+1	3.853	4.069+1	2.907+1	1.886
1950	4.325	-2.523+1	3.856	4.050+1	2.909+1	1.847
1960	4.328	-2.525+1	3.858	4.032+1	2.911+1	1.807
1970	4.331	-2.527+1	3.861	4.013+1	2.913+1	1.768
1980	4.334	-2.529+1	3.863	3.995+1	2.916+1	1.730
1990	4.337	-2.531+1	3.865	3.977+1	2.918+1	1.692
2000	4.340	-2.533+1	3.868	3.960+1	2.920+1	1.654
2010	4.343	-2.535+1	3.870	3.942+1	2.922+1	1.616
2020	4.346	-2.537+1	3.873	3.925+1	2.924+1	1.579
2030	4.349	-2.539+1	3.875	3.908+1	2.927+1	1.542
2040	4.352	-2.541+1	3.877	3.891+1	2.929+1	1.506
2050	4.355	-2.543+1	3.880	3.874+1	2.931+1	1.469
2060	4.357	-2.545+1	3.882	3.857+1	2.933+1	1.434
2070	4.360	-2.547+1	3.884	3.840+1	2.935+1	1.398
2080	4.363	-2.548+1	3.886	3.824+1	2.937+1	1.363
2090	4.366	-2.550+1	3.889	3.808+1	2.939+1	1.328

SPECIE CH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	4.368	-2.552+1	3.891	3.792+1	2.941+1	1.294
2110	4.371	-2.554+1	3.893	3.776+1	2.943+1	1.260
2120	4.374	-2.556+1	3.895	3.760+1	2.945+1	1.226
2130	4.376	-2.558+1	3.898	3.745+1	2.947+1	1.192
2140	4.379	-2.560+1	3.900	3.729+1	2.950+1	1.159
2150	4.382	-2.561+1	3.902	3.714+1	2.952+1	1.126
2160	4.384	-2.563+1	3.904	3.699+1	2.954+1	1.094
2170	4.387	-2.565+1	3.907	3.684+1	2.956+1	1.061
2180	4.389	-2.567+1	3.909	3.669+1	2.958+1	1.029
2190	4.392	-2.569+1	3.911	3.654+1	2.960+1	9.977-1
2200	4.394	-2.570+1	3.913	3.639+1	2.962+1	9.663-1
2210	4.397	-2.572+1	3.915	3.625+1	2.964+1	9.352-1
2220	4.399	-2.574+1	3.918	3.611+1	2.966+1	9.044-1
2230	4.402	-2.576+1	3.920	3.596+1	2.968+1	8.738-1
2240	4.404	-2.577+1	3.922	3.582+1	2.970+1	8.435-1
2250	4.407	-2.579+1	3.924	3.568+1	2.972+1	8.135-1
2260	4.409	-2.581+1	3.926	3.554+1	2.974+1	7.838-1
2270	4.411	-2.583+1	3.928	3.541+1	2.975+1	7.543-1
2280	4.414	-2.584+1	3.931	3.527+1	2.977+1	7.251-1
2290	4.416	-2.586+1	3.933	3.514+1	2.979+1	6.961-1
2300	4.418	-2.588+1	3.935	3.500+1	2.981+1	6.673-1
2310	4.420	-2.589+1	3.937	3.487+1	2.983+1	6.388-1
2320	4.423	-2.591+1	3.939	3.474+1	2.985+1	6.105-1
2330	4.425	-2.593+1	3.941	3.461+1	2.987+1	5.824-1
2340	4.427	-2.595+1	3.943	3.448+1	2.989+1	5.546-1
2350	4.429	-2.596+1	3.945	3.435+1	2.991+1	5.270-1
2360	4.432	-2.598+1	3.947	3.423+1	2.993+1	4.996-1
2370	4.434	-2.600+1	3.949	3.410+1	2.995+1	4.724-1
2380	4.436	-2.601+1	3.951	3.398+1	2.996+1	4.455-1
2390	4.438	-2.603+1	3.953	3.385+1	2.998+1	4.188-1
2400	4.440	-2.605+1	3.955	3.373+1	3.000+1	3.923-1
2410	4.442	-2.606+1	3.957	3.361+1	3.002+1	3.661-1
2420	4.445	-2.608+1	3.959	3.349+1	3.004+1	3.401-1
2430	4.447	-2.609+1	3.961	3.337+1	3.006+1	3.143-1
2440	4.449	-2.611+1	3.963	3.325+1	3.007+1	2.887-1
2450	4.451	-2.613+1	3.965	3.313+1	3.009+1	2.633-1
2460	4.453	-2.614+1	3.967	3.302+1	3.011+1	2.382-1
2470	4.455	-2.616+1	3.969	3.290+1	3.013+1	2.132-1
2480	4.457	-2.618+1	3.971	3.278+1	3.015+1	1.884-1
2490	4.459	-2.619+1	3.973	3.267+1	3.016+1	1.639-1
2500	4.461	-2.621+1	3.975	3.256+1	3.018+1	1.395-1
2510	4.463	-2.622+1	3.977	3.245+1	3.020+1	1.152-1
2520	4.465	-2.624+1	3.979	3.233+1	3.022+1	9.119-2
2530	4.467	-2.625+1	3.981	3.223+1	3.024+1	6.731-2
2540	4.469	-2.627+1	3.983	3.212+1	3.025+1	4.360-2
2550	4.471	-2.629+1	3.985	3.201+1	3.027+1	2.006-2
2560	4.473	-2.630+1	3.987	3.190+1	3.029+1	-3.302-3
2570	4.475	-2.632+1	3.989	3.179+1	3.031+1	-2.649-2
2580	4.477	-2.633+1	3.991	3.169+1	3.032+1	-4.952-2
2590	4.479	-2.635+1	3.992	3.158+1	3.034+1	-7.239-2

SPECIE CH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	4.481	-2.636+1	3.994	3.148+1	3.036+1	-9.505-2
2610	4.482	-2.638+1	3.996	3.137+1	3.038+1	-1.175-1
2620	4.484	-2.639+1	3.998	3.127+1	3.039+1	-1.398-1
2630	4.486	-2.641+1	4.000	3.117+1	3.041+1	-1.620-1
2640	4.488	-2.642+1	4.002	3.107+1	3.043+1	-1.839-1
2650	4.490	-2.644+1	4.004	3.097+1	3.044+1	-2.057-1
2660	4.492	-2.646+1	4.005	3.087+1	3.046+1	-2.274-1
2670	4.493	-2.647+1	4.007	3.077+1	3.048+1	-2.488-1
2680	4.495	-2.648+1	4.009	3.067+1	3.049+1	-2.701-1
2690	4.497	-2.650+1	4.011	3.057+1	3.051+1	-2.913-1
2700	4.499	-2.651+1	4.013	3.048+1	3.053+1	-3.123-1
2710	4.500	-2.653+1	4.015	3.038+1	3.054+1	-3.331-1
2720	4.502	-2.654+1	4.016	3.029+1	3.056+1	-3.538-1
2730	4.504	-2.656+1	4.018	3.019+1	3.058+1	-3.744-1
2740	4.505	-2.657+1	4.020	3.010+1	3.059+1	-3.948-1
2750	4.507	-2.659+1	4.022	3.001+1	3.061+1	-4.150-1
2760	4.509	-2.660+1	4.023	2.991+1	3.063+1	-4.352-1
2770	4.510	-2.662+1	4.025	2.982+1	3.064+1	-4.551-1
2780	4.512	-2.663+1	4.027	2.973+1	3.066+1	-4.749-1
2790	4.514	-2.665+1	4.029	2.964+1	3.068+1	-4.946-1
2800	4.515	-2.666+1	4.030	2.955+1	3.069+1	-5.142-1
2810	4.517	-2.668+1	4.032	2.946+1	3.071+1	-5.336-1
2820	4.518	-2.669+1	4.034	2.937+1	3.072+1	-5.528-1
2830	4.520	-2.670+1	4.035	2.929+1	3.074+1	-5.720-1
2840	4.522	-2.672+1	4.037	2.920+1	3.076+1	-5.909-1
2850	4.523	-2.673+1	4.039	2.911+1	3.077+1	-6.098-1
2860	4.525	-2.675+1	4.041	2.903+1	3.079+1	-6.285-1
2870	4.527	-2.676+1	4.042	2.894+1	3.080+1	-6.471-1
2880	4.528	-2.677+1	4.044	2.886+1	3.082+1	-6.656-1
2890	4.530	-2.679+1	4.046	2.877+1	3.083+1	-6.840-1
2900	4.531	-2.680+1	4.047	2.869+1	3.085+1	-7.022-1
2910	4.533	-2.682+1	4.049	2.860+1	3.087+1	-7.203-1
2920	4.535	-2.683+1	4.051	2.852+1	3.088+1	-7.383-1
2930	4.536	-2.684+1	4.052	2.844+1	3.090+1	-7.562-1
2940	4.538	-2.686+1	4.054	2.836+1	3.091+1	-7.740-1
2950	4.539	-2.687+1	4.056	2.828+1	3.093+1	-7.916-1
2960	4.541	-2.689+1	4.057	2.820+1	3.094+1	-8.091-1
2970	4.542	-2.690+1	4.059	2.812+1	3.096+1	-8.266-1
2980	4.544	-2.691+1	4.060	2.804+1	3.097+1	-8.439-1
2990	4.545	-2.693+1	4.062	2.796+1	3.099+1	-8.611-1
3000	4.547	-2.694+1	4.064	2.788+1	3.100+1	-8.782-1
3010	4.548	-2.695+1	4.065	2.781+1	3.102+1	-8.952-1
3020	4.550	-2.697+1	4.067	2.773+1	3.103+1	-9.121-1
3030	4.551	-2.698+1	4.069	2.765+1	3.105+1	-9.289-1
3040	4.553	-2.699+1	4.070	2.758+1	3.106+1	-9.455-1
3050	4.554	-2.701+1	4.072	2.750+1	3.108+1	-9.621-1
3060	4.556	-2.702+1	4.073	2.743+1	3.109+1	-9.786-1
3070	4.557	-2.703+1	4.075	2.735+1	3.111+1	-9.950-1
3080	4.558	-2.705+1	4.076	2.728+1	3.112+1	-1.011
3090	4.560	-2.706+1	4.078	2.720+1	3.114+1	-1.027

SPECIE CH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	4.561	-2.707+1	4.080	2.713+1	3.115+1	-1.043
3110	4.562	-2.709+1	4.081	2.706+1	3.117+1	-1.059
3120	4.564	-2.710+1	4.083	2.699+1	3.118+1	-1.075
3130	4.565	-2.711+1	4.084	2.691+1	3.120+1	-1.091
3140	4.567	-2.713+1	4.086	2.684+1	3.121+1	-1.107
3150	4.568	-2.714+1	4.087	2.677+1	3.123+1	-1.122
3160	4.569	-2.715+1	4.089	2.670+1	3.124+1	-1.138
3170	4.571	-2.716+1	4.090	2.663+1	3.126+1	-1.153
3180	4.572	-2.718+1	4.092	2.656+1	3.127+1	-1.168
3190	4.574	-2.719+1	4.093	2.649+1	3.128+1	-1.183
3200	4.575	-2.720+1	4.095	2.643+1	3.130+1	-1.198
3210	4.576	-2.722+1	4.096	2.636+1	3.131+1	-1.214
3220	4.578	-2.723+1	4.098	2.629+1	3.133+1	-1.228
3230	4.579	-2.724+1	4.099	2.622+1	3.134+1	-1.243
3240	4.580	-2.725+1	4.101	2.616+1	3.136+1	-1.258
3250	4.582	-2.727+1	4.102	2.609+1	3.137+1	-1.273
3260	4.583	-2.728+1	4.104	2.602+1	3.138+1	-1.287
3270	4.584	-2.729+1	4.105	2.596+1	3.140+1	-1.302
3280	4.586	-2.730+1	4.107	2.589+1	3.141+1	-1.316
3290	4.587	-2.732+1	4.108	2.583+1	3.143+1	-1.330
3300	4.588	-2.733+1	4.110	2.576+1	3.144+1	-1.345
3310	4.589	-2.734+1	4.111	2.570+1	3.145+1	-1.359
3320	4.591	-2.735+1	4.113	2.564+1	3.147+1	-1.373
3330	4.592	-2.737+1	4.114	2.557+1	3.148+1	-1.387
3340	4.593	-2.738+1	4.115	2.551+1	3.149+1	-1.401
3350	4.595	-2.739+1	4.117	2.545+1	3.151+1	-1.415
3360	4.596	-2.740+1	4.118	2.539+1	3.152+1	-1.429
3370	4.597	-2.742+1	4.120	2.532+1	3.154+1	-1.442
3380	4.598	-2.743+1	4.121	2.526+1	3.155+1	-1.456
3390	4.600	-2.744+1	4.122	2.520+1	3.156+1	-1.469
3400	4.601	-2.745+1	4.124	2.514+1	3.158+1	-1.483
3410	4.602	-2.746+1	4.125	2.508+1	3.159+1	-1.496
3420	4.603	-2.748+1	4.127	2.502+1	3.160+1	-1.509
3430	4.604	-2.749+1	4.128	2.496+1	3.162+1	-1.522
3440	4.606	-2.750+1	4.129	2.490+1	3.163+1	-1.535
3450	4.607	-2.751+1	4.131	2.484+1	3.164+1	-1.548
3460	4.608	-2.752+1	4.132	2.478+1	3.166+1	-1.561
3470	4.609	-2.754+1	4.134	2.473+1	3.167+1	-1.574
3480	4.611	-2.755+1	4.135	2.467+1	3.168+1	-1.587
3490	4.612	-2.756+1	4.136	2.461+1	3.170+1	-1.600
3500	4.613	-2.757+1	4.138	2.455+1	3.171+1	-1.612
3510	4.614	-2.758+1	4.139	2.450+1	3.172+1	-1.625
3520	4.615	-2.760+1	4.140	2.444+1	3.174+1	-1.637
3530	4.616	-2.761+1	4.142	2.438+1	3.175+1	-1.650
3540	4.618	-2.762+1	4.143	2.433+1	3.176+1	-1.662
3550	4.619	-2.763+1	4.144	2.427+1	3.178+1	-1.675
3560	4.620	-2.764+1	4.146	2.422+1	3.179+1	-1.687
3570	4.621	-2.765+1	4.147	2.416+1	3.180+1	-1.699
3580	4.622	-2.767+1	4.148	2.411+1	3.181+1	-1.711
3590	4.623	-2.768+1	4.150	2.405+1	3.183+1	-1.723

SPECIE CH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	4.624	-2.769+1	4.151	2.400+1	3.184+1	-1.735
3610	4.626	-2.770+1	4.152	2.395+1	3.185+1	-1.747
3620	4.627	-2.771+1	4.154	2.389+1	3.187+1	-1.759
3630	4.628	-2.772+1	4.155	2.384+1	3.188+1	-1.771
3640	4.629	-2.773+1	4.156	2.379+1	3.189+1	-1.783
3650	4.630	-2.775+1	4.158	2.373+1	3.190+1	-1.794
3660	4.631	-2.776+1	4.159	2.368+1	3.192+1	-1.806
3670	4.633	-2.777+1	4.160	2.363+1	3.193+1	-1.818
3680	4.634	-2.778+1	4.161	2.358+1	3.194+1	-1.829
3690	4.635	-2.779+1	4.163	2.353+1	3.195+1	-1.840
3700	4.636	-2.780+1	4.164	2.348+1	3.197+1	-1.852
3710	4.637	-2.781+1	4.165	2.343+1	3.198+1	-1.863
3720	4.638	-2.783+1	4.167	2.338+1	3.199+1	-1.874
3730	4.639	-2.784+1	4.168	2.333+1	3.200+1	-1.886
3740	4.641	-2.785+1	4.169	2.328+1	3.202+1	-1.897
3750	4.642	-2.786+1	4.170	2.323+1	3.203+1	-1.908
3760	4.643	-2.787+1	4.172	2.318+1	3.204+1	-1.919
3770	4.644	-2.788+1	4.173	2.313+1	3.205+1	-1.930
3780	4.645	-2.789+1	4.174	2.308+1	3.207+1	-1.941
3790	4.646	-2.790+1	4.175	2.303+1	3.208+1	-1.952
3800	4.647	-2.791+1	4.177	2.298+1	3.209+1	-1.963
3810	4.648	-2.793+1	4.178	2.293+1	3.210+1	-1.973
3820	4.649	-2.794+1	4.179	2.289+1	3.212+1	-1.984
3830	4.650	-2.795+1	4.180	2.284+1	3.213+1	-1.995
3840	4.651	-2.796+1	4.182	2.279+1	3.214+1	-2.006
3850	4.652	-2.797+1	4.183	2.274+1	3.215+1	-2.016
3860	4.653	-2.798+1	4.184	2.270+1	3.216+1	-2.027
3870	4.655	-2.799+1	4.185	2.265+1	3.218+1	-2.037
3880	4.656	-2.800+1	4.186	2.260+1	3.219+1	-2.048
3890	4.657	-2.801+1	4.188	2.256+1	3.220+1	-2.058
3900	4.658	-2.802+1	4.189	2.251+1	3.221+1	-2.068
3910	4.659	-2.803+1	4.190	2.247+1	3.222+1	-2.079
3920	4.660	-2.804+1	4.191	2.242+1	3.224+1	-2.089
3930	4.661	-2.806+1	4.192	2.237+1	3.225+1	-2.099
3940	4.662	-2.807+1	4.194	2.233+1	3.226+1	-2.109
3950	4.663	-2.808+1	4.195	2.229+1	3.227+1	-2.119
3960	4.664	-2.809+1	4.196	2.224+1	3.228+1	-2.129
3970	4.665	-2.810+1	4.197	2.220+1	3.229+1	-2.139
3980	4.666	-2.811+1	4.198	2.215+1	3.231+1	-2.149
3990	4.667	-2.812+1	4.199	2.211+1	3.232+1	-2.159
4000	4.668	-2.813+1	4.201	2.206+1	3.233+1	-2.169
4010	4.669	-2.814+1	4.202	2.202+1	3.234+1	-2.178
4020	4.670	-2.815+1	4.203	2.198+1	3.235+1	-2.188
4030	4.671	-2.816+1	4.204	2.194+1	3.236+1	-2.198
4040	4.672	-2.817+1	4.205	2.189+1	3.238+1	-2.207
4050	4.673	-2.818+1	4.206	2.185+1	3.239+1	-2.217
4060	4.674	-2.819+1	4.208	2.181+1	3.240+1	-2.227
4070	4.675	-2.820+1	4.209	2.177+1	3.241+1	-2.236
4080	4.676	-2.821+1	4.210	2.172+1	3.242+1	-2.246
4090	4.677	-2.822+1	4.211	2.168+1	3.243+1	-2.255

SPECIE CH						
TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	4.678	-2.823+1	4.212	2.164+1	3.245+1	-2.264
4110	4.679	-2.824+1	4.213	2.160+1	3.246+1	-2.274
4120	4.680	-2.825+1	4.214	2.156+1	3.247+1	-2.283
4130	4.681	-2.826+1	4.216	2.152+1	3.248+1	-2.292
4140	4.682	-2.827+1	4.217	2.148+1	3.249+1	-2.301
4150	4.683	-2.828+1	4.218	2.144+1	3.250+1	-2.311
4160	4.684	-2.829+1	4.219	2.140+1	3.251+1	-2.320
4170	4.685	-2.830+1	4.220	2.136+1	3.252+1	-2.329
4180	4.686	-2.831+1	4.221	2.132+1	3.254+1	-2.338
4190	4.687	-2.832+1	4.222	2.128+1	3.255+1	-2.347
4200	4.688	-2.833+1	4.223	2.124+1	3.256+1	-2.356
4210	4.689	-2.834+1	4.225	2.120+1	3.257+1	-2.364
4220	4.690	-2.835+1	4.226	2.116+1	3.258+1	-2.373
4230	4.691	-2.836+1	4.227	2.112+1	3.259+1	-2.382
4240	4.692	-2.837+1	4.228	2.108+1	3.260+1	-2.391
4250	4.693	-2.838+1	4.229	2.104+1	3.261+1	-2.399
4260	4.694	-2.839+1	4.230	2.100+1	3.262+1	-2.408
4270	4.695	-2.840+1	4.231	2.097+1	3.264+1	-2.417
4280	4.696	-2.841+1	4.232	2.093+1	3.265+1	-2.425
4290	4.696	-2.842+1	4.233	2.089+1	3.266+1	-2.434
4300	4.697	-2.843+1	4.234	2.085+1	3.267+1	-2.442
4310	4.698	-2.844+1	4.235	2.081+1	3.268+1	-2.451
4320	4.699	-2.845+1	4.236	2.078+1	3.269+1	-2.459
4330	4.700	-2.846+1	4.238	2.074+1	3.270+1	-2.468
4340	4.701	-2.847+1	4.239	2.070+1	3.271+1	-2.476
4350	4.702	-2.848+1	4.240	2.067+1	3.272+1	-2.485
4360	4.703	-2.849+1	4.241	2.063+1	3.273+1	-2.493
4370	4.704	-2.850+1	4.242	2.059+1	3.274+1	-2.501
4380	4.705	-2.851+1	4.243	2.056+1	3.276+1	-2.510
4390	4.706	-2.852+1	4.244	2.052+1	3.277+1	-2.518
4400	4.706	-2.853+1	4.245	2.049+1	3.278+1	-2.526
4410	4.707	-2.854+1	4.246	2.045+1	3.279+1	-2.534
4420	4.708	-2.855+1	4.247	2.041+1	3.280+1	-2.542
4430	4.709	-2.856+1	4.248	2.038+1	3.281+1	-2.551
4440	4.710	-2.857+1	4.249	2.034+1	3.282+1	-2.559
4450	4.711	-2.858+1	4.250	2.031+1	3.283+1	-2.567
4460	4.712	-2.859+1	4.251	2.027+1	3.284+1	-2.575
4470	4.713	-2.860+1	4.252	2.024+1	3.285+1	-2.583
4480	4.714	-2.861+1	4.253	2.020+1	3.286+1	-2.591
4490	4.715	-2.862+1	4.254	2.017+1	3.287+1	-2.599
4500	4.716	-2.863+1	4.255	2.013+1	3.288+1	-2.607
4510	4.717	-2.864+1	4.256	2.010+1	3.289+1	-2.614
4520	4.718	-2.865+1	4.257	2.007+1	3.290+1	-2.622
4530	4.719	-2.866+1	4.258	2.003+1	3.291+1	-2.630
4540	4.720	-2.866+1	4.259	2.000+1	3.292+1	-2.638
4550	4.721	-2.867+1	4.260	1.997+1	3.293+1	-2.645
4560	4.722	-2.868+1	4.261	1.993+1	3.294+1	-2.653
4570	4.722	-2.869+1	4.262	1.990+1	3.296+1	-2.661
4580	4.723	-2.870+1	4.263	1.987+1	3.297+1	-2.668
4590	4.724	-2.871+1	4.264	1.983+1	3.298+1	-2.676

SPECIE CH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	4.725	-2.872+1	4.265	1.980+1	3.299+1	-2.683
4610	4.726	-2.873+1	4.266	1.977+1	3.300+1	-2.691
4620	4.727	-2.874+1	4.267	1.973+1	3.301+1	-2.698
4630	4.728	-2.875+1	4.268	1.970+1	3.302+1	-2.706
4640	4.729	-2.876+1	4.269	1.967+1	3.303+1	-2.713
4650	4.729	-2.877+1	4.270	1.964+1	3.304+1	-2.720
4660	4.730	-2.878+1	4.271	1.961+1	3.305+1	-2.728
4670	4.731	-2.879+1	4.272	1.957+1	3.306+1	-2.735
4680	4.732	-2.879+1	4.273	1.954+1	3.307+1	-2.743
4690	4.733	-2.880+1	4.274	1.951+1	3.308+1	-2.750
4700	4.734	-2.881+1	4.275	1.948+1	3.309+1	-2.757
4710	4.734	-2.882+1	4.276	1.945+1	3.310+1	-2.764
4720	4.735	-2.883+1	4.277	1.942+1	3.311+1	-2.771
4730	4.736	-2.884+1	4.278	1.939+1	3.312+1	-2.778
4740	4.737	-2.885+1	4.279	1.935+1	3.313+1	-2.785
4750	4.738	-2.886+1	4.280	1.932+1	3.314+1	-2.792
4760	4.739	-2.887+1	4.281	1.929+1	3.315+1	-2.799
4770	4.740	-2.888+1	4.282	1.926+1	3.316+1	-2.806
4780	4.740	-2.888+1	4.283	1.923+1	3.317+1	-2.813
4790	4.741	-2.889+1	4.284	1.920+1	3.318+1	-2.820
4800	4.742	-2.890+1	4.285	1.917+1	3.319+1	-2.827
4810	4.743	-2.891+1	4.286	1.914+1	3.320+1	-2.834
4820	4.744	-2.892+1	4.287	1.911+1	3.321+1	-2.841
4830	4.745	-2.893+1	4.288	1.908+1	3.322+1	-2.848
4840	4.746	-2.894+1	4.289	1.905+1	3.323+1	-2.854
4850	4.746	-2.895+1	4.290	1.902+1	3.324+1	-2.861
4860	4.747	-2.896+1	4.291	1.899+1	3.325+1	-2.868
4870	4.748	-2.896+1	4.292	1.896+1	3.326+1	-2.875
4880	4.749	-2.897+1	4.293	1.894+1	3.327+1	-2.882
4890	4.750	-2.898+1	4.293	1.891+1	3.328+1	-2.889
4900	4.751	-2.899+1	4.294	1.888+1	3.329+1	-2.896
4910	4.752	-2.900+1	4.295	1.885+1	3.329+1	-2.902
4920	4.752	-2.901+1	4.296	1.882+1	3.330+1	-2.909
4930	4.753	-2.902+1	4.297	1.879+1	3.331+1	-2.916
4940	4.754	-2.903+1	4.298	1.876+1	3.332+1	-2.922
4950	4.755	-2.903+1	4.299	1.873+1	3.333+1	-2.929
4960	4.756	-2.904+1	4.300	1.871+1	3.334+1	-2.935
4970	4.757	-2.905+1	4.301	1.868+1	3.335+1	-2.942
4980	4.758	-2.906+1	4.302	1.865+1	3.336+1	-2.948
4990	4.758	-2.907+1	4.303	1.862+1	3.337+1	-2.955
5000	4.759	-2.908+1	4.304	1.859+1	3.338+1	-2.961
5010	4.760	-2.909+1	4.305	1.857+1	3.339+1	-2.968
5020	4.761	-2.910+1	4.305	1.854+1	3.340+1	-2.974
5030	4.762	-2.910+1	4.306	1.851+1	3.341+1	-2.981
5040	4.763	-2.911+1	4.307	1.849+1	3.342+1	-2.987
5050	4.764	-2.912+1	4.308	1.846+1	3.343+1	-2.993
5060	4.764	-2.913+1	4.309	1.843+1	3.344+1	-3.000
5070	4.765	-2.914+1	4.310	1.840+1	3.345+1	-3.006
5080	4.766	-2.915+1	4.311	1.838+1	3.346+1	-3.012
5090	4.767	-2.916+1	4.312	1.835+1	3.347+1	-3.019

SPECIE CH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	4.768	-2.916+1	4.313	1.832+1	3.348+1	-3.025
5110	4.769	-2.917+1	4.314	1.830+1	3.349+1	-3.031
5120	4.770	-2.918+1	4.314	1.827+1	3.349+1	-3.037
5130	4.770	-2.919+1	4.315	1.824+1	3.350+1	-3.043
5140	4.771	-2.920+1	4.316	1.822+1	3.351+1	-3.049
5150	4.772	-2.921+1	4.317	1.819+1	3.352+1	-3.056
5160	4.773	-2.921+1	4.318	1.817+1	3.353+1	-3.062
5170	4.774	-2.922+1	4.319	1.814+1	3.354+1	-3.068
5180	4.774	-2.923+1	4.320	1.811+1	3.355+1	-3.074
5190	4.775	-2.924+1	4.321	1.809+1	3.356+1	-3.080
5200	4.776	-2.925+1	4.321	1.806+1	3.357+1	-3.086
5210	4.777	-2.926+1	4.322	1.804+1	3.358+1	-3.092
5220	4.778	-2.926+1	4.323	1.801+1	3.359+1	-3.098
5230	4.778	-2.927+1	4.324	1.799+1	3.360+1	-3.104
5240	4.779	-2.928+1	4.325	1.796+1	3.361+1	-3.110
5250	4.780	-2.929+1	4.326	1.794+1	3.361+1	-3.116
5260	4.781	-2.930+1	4.327	1.791+1	3.362+1	-3.121
5270	4.782	-2.931+1	4.328	1.789+1	3.363+1	-3.127
5280	4.782	-2.931+1	4.328	1.786+1	3.364+1	-3.133
5290	4.783	-2.932+1	4.329	1.784+1	3.365+1	-3.139
5300	4.784	-2.933+1	4.330	1.781+1	3.366+1	-3.145
5310	4.785	-2.934+1	4.331	1.779+1	3.367+1	-3.151
5320	4.786	-2.935+1	4.332	1.776+1	3.368+1	-3.156
5330	4.786	-2.935+1	4.333	1.774+1	3.369+1	-3.162
5340	4.787	-2.936+1	4.334	1.771+1	3.370+1	-3.168
5350	4.788	-2.937+1	4.334	1.769+1	3.370+1	-3.173
5360	4.789	-2.938+1	4.335	1.767+1	3.371+1	-3.179
5370	4.790	-2.939+1	4.336	1.764+1	3.372+1	-3.185
5380	4.790	-2.939+1	4.337	1.762+1	3.373+1	-3.190
5390	4.791	-2.940+1	4.338	1.759+1	3.374+1	-3.196
5400	4.792	-2.941+1	4.339	1.757+1	3.375+1	-3.201
5410	4.793	-2.942+1	4.339	1.755+1	3.376+1	-3.207
5420	4.794	-2.943+1	4.340	1.752+1	3.377+1	-3.212
5430	4.794	-2.943+1	4.341	1.750+1	3.378+1	-3.218
5440	4.795	-2.944+1	4.342	1.748+1	3.378+1	-3.223
5450	4.796	-2.945+1	4.343	1.745+1	3.379+1	-3.229
5460	4.797	-2.946+1	4.344	1.743+1	3.380+1	-3.234
5470	4.797	-2.947+1	4.344	1.741+1	3.381+1	-3.240
5480	4.798	-2.947+1	4.345	1.738+1	3.382+1	-3.245
5490	4.799	-2.948+1	4.346	1.736+1	3.383+1	-3.251
5500	4.800	-2.949+1	4.347	1.734+1	3.384+1	-3.256
5510	4.800	-2.950+1	4.348	1.732+1	3.385+1	-3.262
5520	4.801	-2.951+1	4.349	1.729+1	3.385+1	-3.267
5530	4.802	-2.951+1	4.349	1.727+1	3.386+1	-3.272
5540	4.803	-2.952+1	4.350	1.725+1	3.387+1	-3.278
5550	4.804	-2.953+1	4.351	1.723+1	3.388+1	-3.283
5560	4.804	-2.954+1	4.352	1.720+1	3.389+1	-3.288
5570	4.805	-2.955+1	4.353	1.718+1	3.390+1	-3.294
5580	4.806	-2.955+1	4.353	1.716+1	3.391+1	-3.299
5590	4.807	-2.956+1	4.354	1.714+1	3.392+1	-3.304

SPECIE CH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	4.808	-2.957+1	4.355	1.712+1	3.392+1	-3.309
5610	4.808	-2.958+1	4.356	1.709+1	3.393+1	-3.315
5620	4.809	-2.958+1	4.357	1.707+1	3.394+1	-3.320
5630	4.810	-2.959+1	4.357	1.705+1	3.395+1	-3.325
5640	4.811	-2.960+1	4.358	1.703+1	3.396+1	-3.330
5650	4.811	-2.961+1	4.359	1.701+1	3.397+1	-3.335
5660	4.812	-2.962+1	4.360	1.698+1	3.398+1	-3.340
5670	4.813	-2.962+1	4.361	1.696+1	3.398+1	-3.345
5680	4.814	-2.963+1	4.361	1.694+1	3.399+1	-3.350
5690	4.814	-2.964+1	4.362	1.692+1	3.400+1	-3.356
5700	4.815	-2.965+1	4.363	1.690+1	3.401+1	-3.361
5710	4.816	-2.965+1	4.364	1.688+1	3.402+1	-3.366
5720	4.817	-2.966+1	4.365	1.686+1	3.403+1	-3.371
5730	4.818	-2.967+1	4.365	1.684+1	3.403+1	-3.376
5740	4.818	-2.968+1	4.366	1.682+1	3.404+1	-3.381
5750	4.819	-2.968+1	4.367	1.679+1	3.405+1	-3.386
5760	4.820	-2.969+1	4.368	1.677+1	3.406+1	-3.391
5770	4.821	-2.970+1	4.369	1.675+1	3.407+1	-3.396
5780	4.822	-2.971+1	4.369	1.673+1	3.408+1	-3.401
5790	4.822	-2.971+1	4.370	1.671+1	3.408+1	-3.406
5800	4.823	-2.972+1	4.371	1.669+1	3.409+1	-3.410
5810	4.824	-2.973+1	4.372	1.667+1	3.410+1	-3.415
5820	4.825	-2.974+1	4.372	1.665+1	3.411+1	-3.420
5830	4.826	-2.974+1	4.373	1.663+1	3.412+1	-3.425
5840	4.826	-2.975+1	4.374	1.661+1	3.413+1	-3.430
5850	4.827	-2.976+1	4.375	1.659+1	3.413+1	-3.435
5860	4.828	-2.977+1	4.376	1.657+1	3.414+1	-3.439
5870	4.829	-2.977+1	4.376	1.655+1	3.415+1	-3.444
5880	4.829	-2.978+1	4.377	1.653+1	3.416+1	-3.449
5890	4.830	-2.979+1	4.378	1.651+1	3.417+1	-3.454
5900	4.831	-2.980+1	4.379	1.649+1	3.418+1	-3.458
5910	4.832	-2.980+1	4.379	1.647+1	3.418+1	-3.463
5920	4.832	-2.981+1	4.380	1.645+1	3.419+1	-3.468
5930	4.833	-2.982+1	4.381	1.643+1	3.420+1	-3.472
5940	4.834	-2.983+1	4.382	1.641+1	3.421+1	-3.477
5950	4.835	-2.983+1	4.382	1.639+1	3.422+1	-3.482
5960	4.835	-2.984+1	4.383	1.637+1	3.422+1	-3.486
5970	4.836	-2.985+1	4.384	1.635+1	3.423+1	-3.491
5980	4.837	-2.986+1	4.385	1.633+1	3.424+1	-3.496
5990	4.838	-2.986+1	4.385	1.632+1	3.425+1	-3.500
6000	4.838	-2.987+1	4.386	1.630+1	3.426+1	-3.505

SPECIE CH2

MOLECULAR WEIGHT EQUALS 14.0274

DELTA E ZERO EQUALS 69.000 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(J. S. GORDON, RMD 210-E3, 1/60) (5)

THERMAL

(J. S. GORDON WADC TR 57-33, 1/57) (4)

SPECIE CH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	3.500	-1.420+1	3.881	3.511+2	1.808+1	4.992+2
110	3.455	-1.460+1	3.879	3.246+2	1.848+1	4.604+2
120	3.427	-1.497+1	3.880	3.006+2	1.885+1	4.253+2
130	3.414	-1.531+1	3.882	2.789+2	1.919+1	3.935+2
140	3.415	-1.563+1	3.886	2.593+2	1.951+1	3.648+2
150	3.428	-1.592+1	3.891	2.417+2	1.981+1	3.390+2
160	3.450	-1.619+1	3.897	2.259+2	2.009+1	3.157+2
170	3.481	-1.644+1	3.904	2.117+2	2.035+1	2.949+2
180	3.518	-1.668+1	3.912	1.990+2	2.059+1	2.763+2
190	3.560	-1.690+1	3.920	1.876+2	2.082+1	2.596+2
200	3.605	-1.710+1	3.928	1.775+2	2.103+1	2.447+2
210	3.654	-1.729+1	3.937	1.685+2	2.123+1	2.315+2
220	3.703	-1.747+1	3.945	1.605+2	2.142+1	2.196+2
230	3.753	-1.764+1	3.954	1.533+2	2.159+1	2.091+2
240	3.803	-1.780+1	3.962	1.470+2	2.176+1	1.996+2
250	3.851	-1.795+1	3.970	1.412+2	2.192+1	1.912+2
260	3.896	-1.810+1	3.978	1.361+2	2.207+1	1.836+2
270	3.939	-1.824+1	3.985	1.314+2	2.222+1	1.767+2
280	3.979	-1.837+1	3.991	1.272+2	2.236+1	1.704+2
290	4.015	-1.850+1	3.997	1.233+2	2.250+1	1.647+2
300	4.047	-1.863+1	4.002	1.197+2	2.263+1	1.593+2
310	4.064	-1.876+1	4.005	1.159+2	2.276+1	1.537+2
320	4.078	-1.888+1	4.008	1.124+2	2.289+1	1.484+2
330	4.090	-1.901+1	4.010	1.090+2	2.302+1	1.435+2
340	4.101	-1.913+1	4.012	1.059+2	2.314+1	1.389+2
350	4.111	-1.924+1	4.015	1.030+2	2.326+1	1.345+2
360	4.120	-1.936+1	4.017	1.003+2	2.337+1	1.305+2
370	4.128	-1.947+1	4.019	9.772+1	2.348+1	1.266+2
380	4.137	-1.957+1	4.021	9.530+1	2.359+1	1.230+2
390	4.146	-1.968+1	4.023	9.301+1	2.370+1	1.196+2
400	4.156	-1.978+1	4.026	9.083+1	2.381+1	1.164+2
410	4.169	-1.988+1	4.029	8.876+1	2.391+1	1.133+2
420	4.183	-1.998+1	4.033	8.679+1	2.401+1	1.104+2
430	4.198	-2.007+1	4.037	8.490+1	2.411+1	1.076+2
440	4.204	-2.017+1	4.040	8.309+1	2.421+1	1.049+2
450	4.218	-2.026+1	4.044	8.135+1	2.430+1	1.023+2
460	4.234	-2.035+1	4.049	7.968+1	2.439+1	9.975+1
470	4.251	-2.043+1	4.053	7.806+1	2.448+1	9.733+1
480	4.274	-2.052+1	4.057	7.649+1	2.457+1	9.500+1
490	4.290	-2.060+1	4.062	7.498+1	2.466+1	9.273+1
500	4.307	-2.068+1	4.067	7.351+1	2.475+1	9.054+1
510	4.323	-2.076+1	4.071	7.217+1	2.484+1	8.852+1
520	4.340	-2.084+1	4.076	7.087+1	2.492+1	8.658+1
530	4.357	-2.092+1	4.082	6.962+1	2.500+1	8.471+1
540	4.374	-2.100+1	4.087	6.842+1	2.508+1	8.291+1
550	4.392	-2.107+1	4.092	6.726+1	2.517+1	8.117+1
560	4.409	-2.115+1	4.098	6.614+1	2.524+1	7.948+1
570	4.427	-2.122+1	4.103	6.505+1	2.532+1	7.785+1
580	4.444	-2.129+1	4.109	6.400+1	2.540+1	7.627+1
590	4.462	-2.136+1	4.115	6.298+1	2.548+1	7.473+1

SPECIE CH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	4.481	-2.143+1	4.121	6.199+1	2.555+1	7.325+1
610	4.499	-2.150+1	4.127	6.105+1	2.563+1	7.183+1
620	4.517	-2.157+1	4.133	6.014+1	2.570+1	7.046+1
630	4.535	-2.163+1	4.139	5.926+1	2.577+1	6.913+1
640	4.554	-2.170+1	4.146	5.841+1	2.584+1	6.785+1
650	4.573	-2.176+1	4.152	5.758+1	2.591+1	6.660+1
660	4.591	-2.182+1	4.159	5.678+1	2.598+1	6.538+1
670	4.610	-2.189+1	4.165	5.600+1	2.605+1	6.420+1
680	4.629	-2.195+1	4.172	5.524+1	2.612+1	6.306+1
690	4.648	-2.201+1	4.179	5.451+1	2.619+1	6.194+1
700	4.667	-2.207+1	4.185	5.379+1	2.626+1	6.086+1
710	4.686	-2.213+1	4.192	5.310+1	2.632+1	5.981+1
720	4.705	-2.219+1	4.199	5.243+1	2.639+1	5.879+1
730	4.724	-2.225+1	4.206	5.177+1	2.645+1	5.780+1
740	4.743	-2.230+1	4.213	5.114+1	2.652+1	5.684+1
750	4.762	-2.236+1	4.221	5.052+1	2.658+1	5.590+1
760	4.781	-2.242+1	4.228	4.992+1	2.664+1	5.498+1
770	4.800	-2.247+1	4.235	4.933+1	2.671+1	5.409+1
780	4.819	-2.253+1	4.243	4.876+1	2.677+1	5.322+1
790	4.839	-2.258+1	4.250	4.820+1	2.683+1	5.237+1
800	4.858	-2.263+1	4.258	4.766+1	2.689+1	5.154+1
810	4.877	-2.269+1	4.265	4.713+1	2.695+1	5.074+1
820	4.895	-2.274+1	4.273	4.662+1	2.701+1	4.995+1
830	4.914	-2.279+1	4.280	4.612+1	2.707+1	4.918+1
840	4.932	-2.284+1	4.288	4.563+1	2.713+1	4.843+1
850	4.951	-2.289+1	4.296	4.515+1	2.719+1	4.770+1
860	4.969	-2.294+1	4.303	4.468+1	2.725+1	4.699+1
870	4.988	-2.299+1	4.311	4.422+1	2.730+1	4.629+1
880	5.006	-2.304+1	4.319	4.378+1	2.736+1	4.560+1
890	5.024	-2.309+1	4.327	4.334+1	2.742+1	4.493+1
900	5.042	-2.314+1	4.335	4.292+1	2.747+1	4.428+1
910	5.060	-2.319+1	4.343	4.250+1	2.753+1	4.364+1
920	5.079	-2.323+1	4.351	4.209+1	2.759+1	4.301+1
930	5.097	-2.328+1	4.359	4.170+1	2.764+1	4.240+1
940	5.115	-2.333+1	4.367	4.131+1	2.770+1	4.180+1
950	5.133	-2.337+1	4.375	4.093+1	2.775+1	4.122+1
960	5.151	-2.342+1	4.383	4.055+1	2.780+1	4.064+1
970	5.169	-2.347+1	4.391	4.019+1	2.786+1	4.008+1
980	5.187	-2.351+1	4.399	3.983+1	2.791+1	3.953+1
990	5.205	-2.356+1	4.407	3.948+1	2.796+1	3.899+1
1000	5.223	-2.360+1	4.415	3.914+1	2.801+1	3.846+1
1010	5.241	-2.364+1	4.423	3.880+1	2.807+1	3.794+1
1020	5.258	-2.369+1	4.431	3.847+1	2.812+1	3.743+1
1030	5.275	-2.373+1	4.439	3.815+1	2.817+1	3.693+1
1040	5.292	-2.377+1	4.447	3.783+1	2.822+1	3.644+1
1050	5.308	-2.382+1	4.455	3.752+1	2.827+1	3.596+1
1060	5.325	-2.386+1	4.464	3.722+1	2.832+1	3.549+1
1070	5.341	-2.390+1	4.472	3.692+1	2.837+1	3.502+1
1080	5.357	-2.394+1	4.480	3.663+1	2.842+1	3.457+1
1090	5.373	-2.398+1	4.488	3.634+1	2.847+1	3.412+1

SPECIE CH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	5.389	-2.402+1	4.496	3.606+1	2.852+1	3.368+1
1110	5.405	-2.407+1	4.504	3.579+1	2.857+1	3.325+1
1120	5.421	-2.411+1	4.512	3.551+1	2.862+1	3.283+1
1130	5.436	-2.415+1	4.520	3.525+1	2.867+1	3.242+1
1140	5.452	-2.419+1	4.529	3.499+1	2.871+1	3.201+1
1150	5.467	-2.423+1	4.537	3.473+1	2.876+1	3.161+1
1160	5.482	-2.427+1	4.545	3.448+1	2.881+1	3.121+1
1170	5.497	-2.430+1	4.553	3.423+1	2.886+1	3.083+1
1180	5.511	-2.434+1	4.561	3.399+1	2.890+1	3.044+1
1190	5.526	-2.438+1	4.569	3.375+1	2.895+1	3.007+1
1200	5.540	-2.442+1	4.577	3.351+1	2.900+1	2.970+1
1210	5.555	-2.446+1	4.585	3.328+1	2.904+1	2.934+1
1220	5.569	-2.450+1	4.593	3.305+1	2.909+1	2.898+1
1230	5.583	-2.453+1	4.601	3.283+1	2.913+1	2.863+1
1240	5.596	-2.457+1	4.609	3.261+1	2.918+1	2.829+1
1250	5.610	-2.461+1	4.617	3.239+1	2.922+1	2.795+1
1260	5.624	-2.464+1	4.625	3.218+1	2.927+1	2.761+1
1270	5.637	-2.468+1	4.633	3.197+1	2.931+1	2.728+1
1280	5.650	-2.472+1	4.641	3.177+1	2.936+1	2.696+1
1290	5.663	-2.475+1	4.649	3.156+1	2.940+1	2.664+1
1300	5.676	-2.479+1	4.656	3.137+1	2.945+1	2.633+1
1310	5.689	-2.482+1	4.664	3.117+1	2.949+1	2.602+1
1320	5.702	-2.486+1	4.672	3.098+1	2.953+1	2.571+1
1330	5.714	-2.490+1	4.680	3.079+1	2.958+1	2.541+1
1340	5.726	-2.493+1	4.688	3.060+1	2.962+1	2.512+1
1350	5.738	-2.497+1	4.695	3.042+1	2.966+1	2.483+1
1360	5.750	-2.500+1	4.703	3.023+1	2.970+1	2.454+1
1370	5.762	-2.503+1	4.711	3.005+1	2.975+1	2.426+1
1380	5.774	-2.507+1	4.718	2.988+1	2.979+1	2.398+1
1390	5.786	-2.510+1	4.726	2.971+1	2.983+1	2.370+1
1400	5.797	-2.514+1	4.733	2.953+1	2.987+1	2.343+1
1410	5.808	-2.517+1	4.741	2.937+1	2.991+1	2.316+1
1420	5.819	-2.520+1	4.749	2.920+1	2.995+1	2.290+1
1430	5.830	-2.524+1	4.756	2.904+1	2.999+1	2.264+1
1440	5.840	-2.527+1	4.764	2.888+1	3.003+1	2.238+1
1450	5.851	-2.530+1	4.771	2.872+1	3.008+1	2.213+1
1460	5.861	-2.534+1	4.779	2.856+1	3.012+1	2.188+1
1470	5.872	-2.537+1	4.786	2.841+1	3.016+1	2.164+1
1480	5.882	-2.540+1	4.794	2.825+1	3.020+1	2.139+1
1490	5.893	-2.543+1	4.801	2.810+1	3.023+1	2.116+1
1500	5.903	-2.547+1	4.808	2.796+1	3.027+1	2.092+1
1510	5.913	-2.550+1	4.816	2.781+1	3.031+1	2.069+1
1520	5.923	-2.553+1	4.823	2.767+1	3.035+1	2.046+1
1530	5.933	-2.556+1	4.830	2.752+1	3.039+1	2.023+1
1540	5.943	-2.559+1	4.837	2.738+1	3.043+1	2.001+1
1550	5.954	-2.562+1	4.845	2.725+1	3.047+1	1.978+1
1560	5.964	-2.566+1	4.852	2.711+1	3.051+1	1.957+1
1570	5.974	-2.569+1	4.859	2.697+1	3.055+1	1.935+1
1580	5.983	-2.572+1	4.866	2.684+1	3.058+1	1.914+1
1590	5.993	-2.575+1	4.873	2.671+1	3.062+1	1.893+1

SPECIE CH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	6.003	-2.578+1	4.880	2.658+1	3.066+1	1.872+1
1610	6.012	-2.581+1	4.887	2.645+1	3.070+1	1.852+1
1620	6.021	-2.584+1	4.894	2.633+1	3.073+1	1.831+1
1630	6.030	-2.587+1	4.901	2.620+1	3.077+1	1.811+1
1640	6.039	-2.590+1	4.908	2.608+1	3.081+1	1.791+1
1650	6.048	-2.593+1	4.915	2.596+1	3.084+1	1.772+1
1660	6.056	-2.596+1	4.922	2.584+1	3.088+1	1.753+1
1670	6.064	-2.599+1	4.928	2.572+1	3.092+1	1.734+1
1680	6.073	-2.602+1	4.935	2.560+1	3.095+1	1.715+1
1690	6.081	-2.605+1	4.942	2.549+1	3.099+1	1.696+1
1700	6.089	-2.608+1	4.949	2.537+1	3.103+1	1.678+1
1710	6.097	-2.611+1	4.955	2.526+1	3.106+1	1.660+1
1720	6.105	-2.613+1	4.962	2.515+1	3.110+1	1.642+1
1730	6.112	-2.616+1	4.969	2.504+1	3.113+1	1.624+1
1740	6.120	-2.619+1	4.975	2.493+1	3.117+1	1.606+1
1750	6.127	-2.622+1	4.982	2.482+1	3.120+1	1.589+1
1760	6.135	-2.625+1	4.988	2.472+1	3.124+1	1.572+1
1770	6.142	-2.628+1	4.995	2.461+1	3.127+1	1.555+1
1780	6.150	-2.631+1	5.002	2.451+1	3.131+1	1.538+1
1790	6.157	-2.633+1	5.008	2.441+1	3.134+1	1.521+1
1800	6.164	-2.636+1	5.014	2.430+1	3.138+1	1.505+1
1810	6.172	-2.639+1	5.021	2.420+1	3.141+1	1.489+1
1820	6.179	-2.642+1	5.027	2.411+1	3.144+1	1.473+1
1830	6.186	-2.644+1	5.034	2.401+1	3.148+1	1.457+1
1840	6.193	-2.647+1	5.040	2.391+1	3.151+1	1.441+1
1850	6.200	-2.650+1	5.046	2.381+1	3.155+1	1.425+1
1860	6.207	-2.653+1	5.052	2.372+1	3.158+1	1.410+1
1870	6.214	-2.655+1	5.059	2.363+1	3.161+1	1.395+1
1880	6.221	-2.658+1	5.065	2.353+1	3.165+1	1.380+1
1890	6.228	-2.661+1	5.071	2.344+1	3.168+1	1.365+1
1900	6.235	-2.663+1	5.077	2.335+1	3.171+1	1.350+1
1910	6.241	-2.666+1	5.083	2.326+1	3.174+1	1.336+1
1920	6.248	-2.669+1	5.089	2.317+1	3.178+1	1.321+1
1930	6.254	-2.671+1	5.095	2.309+1	3.181+1	1.307+1
1940	6.260	-2.674+1	5.101	2.300+1	3.184+1	1.293+1
1950	6.266	-2.677+1	5.107	2.291+1	3.187+1	1.279+1
1960	6.272	-2.679+1	5.113	2.283+1	3.191+1	1.265+1
1970	6.278	-2.682+1	5.119	2.274+1	3.194+1	1.251+1
1980	6.284	-2.684+1	5.125	2.266+1	3.197+1	1.237+1
1990	6.289	-2.687+1	5.130	2.258+1	3.200+1	1.224+1
2000	6.295	-2.690+1	5.136	2.250+1	3.203+1	1.211+1
2010	6.301	-2.692+1	5.142	2.242+1	3.206+1	1.198+1
2020	6.306	-2.695+1	5.148	2.234+1	3.209+1	1.185+1
2030	6.311	-2.697+1	5.154	2.226+1	3.213+1	1.172+1
2040	6.316	-2.700+1	5.159	2.218+1	3.216+1	1.159+1
2050	6.321	-2.702+1	5.165	2.210+1	3.219+1	1.146+1
2060	6.326	-2.705+1	5.171	2.203+1	3.222+1	1.134+1
2070	6.331	-2.707+1	5.176	2.195+1	3.225+1	1.121+1
2080	6.336	-2.710+1	5.182	2.188+1	3.228+1	1.109+1
2090	6.341	-2.712+1	5.187	2.180+1	3.231+1	1.097+1

SPECIE CH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	6.345	-2.715+1	5.193	2.173+1	3.234+1	1.085+1
2110	6.350	-2.717+1	5.198	2.165+1	3.237+1	1.073+1
2120	6.355	-2.720+1	5.204	2.158+1	3.240+1	1.061+1
2130	6.361	-2.722+1	5.209	2.151+1	3.243+1	1.049+1
2140	6.366	-2.725+1	5.215	2.144+1	3.246+1	1.037+1
2150	6.371	-2.727+1	5.220	2.137+1	3.249+1	1.026+1
2160	6.376	-2.729+1	5.225	2.130+1	3.252+1	1.014+1
2170	6.381	-2.732+1	5.231	2.123+1	3.255+1	1.003+1
2180	6.386	-2.734+1	5.236	2.116+1	3.258+1	9.918
2190	6.391	-2.737+1	5.241	2.110+1	3.261+1	9.807
2200	6.396	-2.739+1	5.247	2.103+1	3.264+1	9.697
2210	6.400	-2.741+1	5.252	2.096+1	3.267+1	9.588
2220	6.405	-2.744+1	5.257	2.090+1	3.270+1	9.480
2230	6.410	-2.746+1	5.262	2.083+1	3.272+1	9.373
2240	6.414	-2.749+1	5.267	2.077+1	3.275+1	9.267
2250	6.419	-2.751+1	5.273	2.070+1	3.278+1	9.161
2260	6.423	-2.753+1	5.278	2.064+1	3.281+1	9.057
2270	6.428	-2.756+1	5.283	2.058+1	3.284+1	8.954
2280	6.432	-2.758+1	5.288	2.052+1	3.287+1	8.851
2290	6.437	-2.760+1	5.293	2.046+1	3.289+1	8.750
2300	6.441	-2.763+1	5.298	2.039+1	3.292+1	8.649
2310	6.445	-2.765+1	5.303	2.033+1	3.295+1	8.549
2320	6.449	-2.767+1	5.308	2.027+1	3.298+1	8.450
2330	6.454	-2.769+1	5.313	2.021+1	3.301+1	8.352
2340	6.458	-2.772+1	5.317	2.016+1	3.303+1	8.254
2350	6.462	-2.774+1	5.322	2.010+1	3.306+1	8.158
2360	6.466	-2.776+1	5.327	2.004+1	3.309+1	8.062
2370	6.470	-2.778+1	5.332	1.998+1	3.312+1	7.967
2380	6.474	-2.781+1	5.337	1.993+1	3.314+1	7.873
2390	6.477	-2.783+1	5.341	1.987+1	3.317+1	7.780
2400	6.481	-2.785+1	5.346	1.981+1	3.320+1	7.687
2410	6.485	-2.787+1	5.351	1.976+1	3.322+1	7.595
2420	6.489	-2.790+1	5.356	1.970+1	3.325+1	7.504
2430	6.492	-2.792+1	5.360	1.965+1	3.328+1	7.414
2440	6.496	-2.794+1	5.365	1.960+1	3.331+1	7.325
2450	6.500	-2.796+1	5.370	1.954+1	3.333+1	7.236
2460	6.503	-2.798+1	5.374	1.949+1	3.336+1	7.148
2470	6.506	-2.801+1	5.379	1.944+1	3.338+1	7.060
2480	6.510	-2.803+1	5.383	1.938+1	3.341+1	6.974
2490	6.513	-2.805+1	5.388	1.933+1	3.344+1	6.888
2500	6.517	-2.807+1	5.392	1.928+1	3.346+1	6.802
2510	6.520	-2.809+1	5.397	1.923+1	3.349+1	6.718
2520	6.523	-2.811+1	5.401	1.918+1	3.352+1	6.633
2530	6.526	-2.814+1	5.406	1.913+1	3.354+1	6.550
2540	6.529	-2.816+1	5.410	1.908+1	3.357+1	6.467
2550	6.532	-2.818+1	5.415	1.903+1	3.359+1	6.385
2560	6.535	-2.820+1	5.419	1.898+1	3.362+1	6.303
2570	6.538	-2.822+1	5.423	1.893+1	3.364+1	6.222
2580	6.541	-2.824+1	5.428	1.889+1	3.367+1	6.142
2590	6.544	-2.826+1	5.432	1.884+1	3.369+1	6.062

SPECIE CH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	6.547	-2.828+1	5.436	1.879+1	3.372+1	5.983
2610	6.550	-2.830+1	5.440	1.874+1	3.374+1	5.905
2620	6.553	-2.833+1	5.445	1.870+1	3.377+1	5.827
2630	6.556	-2.835+1	5.449	1.865+1	3.379+1	5.750
2640	6.559	-2.837+1	5.453	1.861+1	3.382+1	5.673
2650	6.562	-2.839+1	5.457	1.856+1	3.384+1	5.597
2660	6.565	-2.841+1	5.462	1.852+1	3.387+1	5.522
2670	6.568	-2.843+1	5.466	1.847+1	3.389+1	5.447
2680	6.571	-2.845+1	5.470	1.843+1	3.392+1	5.373
2690	6.574	-2.847+1	5.474	1.838+1	3.394+1	5.299
2700	6.577	-2.849+1	5.478	1.834+1	3.397+1	5.226
2710	6.580	-2.851+1	5.482	1.829+1	3.399+1	5.153
2720	6.582	-2.853+1	5.486	1.825+1	3.402+1	5.081
2730	6.585	-2.855+1	5.490	1.821+1	3.404+1	5.009
2740	6.588	-2.857+1	5.494	1.817+1	3.406+1	4.938
2750	6.590	-2.859+1	5.498	1.812+1	3.409+1	4.867
2760	6.593	-2.861+1	5.502	1.808+1	3.411+1	4.797
2770	6.595	-2.863+1	5.506	1.804+1	3.414+1	4.727
2780	6.597	-2.865+1	5.510	1.800+1	3.416+1	4.658
2790	6.600	-2.867+1	5.514	1.796+1	3.418+1	4.590
2800	6.602	-2.869+1	5.518	1.792+1	3.421+1	4.521
2810	6.605	-2.871+1	5.522	1.788+1	3.423+1	4.454
2820	6.607	-2.873+1	5.526	1.784+1	3.425+1	4.386
2830	6.610	-2.875+1	5.529	1.780+1	3.428+1	4.320
2840	6.612	-2.877+1	5.533	1.776+1	3.430+1	4.253
2850	6.615	-2.879+1	5.537	1.772+1	3.432+1	4.188
2860	6.617	-2.881+1	5.541	1.768+1	3.435+1	4.122
2870	6.620	-2.883+1	5.545	1.764+1	3.437+1	4.057
2880	6.622	-2.884+1	5.548	1.760+1	3.439+1	3.993
2890	6.625	-2.886+1	5.552	1.757+1	3.442+1	3.929
2900	6.627	-2.888+1	5.556	1.753+1	3.444+1	3.865
2910	6.629	-2.890+1	5.559	1.749+1	3.446+1	3.802
2920	6.632	-2.892+1	5.563	1.745+1	3.448+1	3.740
2930	6.634	-2.894+1	5.567	1.742+1	3.451+1	3.677
2940	6.636	-2.896+1	5.570	1.738+1	3.453+1	3.616
2950	6.638	-2.898+1	5.574	1.734+1	3.455+1	3.554
2960	6.640	-2.900+1	5.578	1.731+1	3.458+1	3.493
2970	6.642	-2.902+1	5.581	1.727+1	3.460+1	3.433
2980	6.644	-2.904+1	5.585	1.724+1	3.462+1	3.373
2990	6.646	-2.905+1	5.588	1.720+1	3.464+1	3.313
3000	6.647	-2.907+1	5.592	1.717+1	3.466+1	3.254
3010	6.649	-2.909+1	5.596	1.713+1	3.469+1	3.195
3020	6.651	-2.911+1	5.599	1.710+1	3.471+1	3.136
3030	6.653	-2.913+1	5.603	1.706+1	3.473+1	3.078
3040	6.655	-2.915+1	5.606	1.703+1	3.475+1	3.020
3050	6.657	-2.917+1	5.609	1.699+1	3.477+1	2.962
3060	6.659	-2.918+1	5.613	1.696+1	3.480+1	2.905
3070	6.661	-2.920+1	5.616	1.693+1	3.482+1	2.848
3080	6.663	-2.922+1	5.620	1.689+1	3.484+1	2.792
3090	6.665	-2.924+1	5.623	1.686+1	3.486+1	2.736

SPECIE CH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	6.667	-2.926+1	5.627	1.683+1	3.488+1	2.680
3110	6.669	-2.927+1	5.630	1.679+1	3.490+1	2.625
3120	6.671	-2.929+1	5.633	1.676+1	3.493+1	2.570
3130	6.673	-2.931+1	5.637	1.673+1	3.495+1	2.515
3140	6.676	-2.933+1	5.640	1.670+1	3.497+1	2.461
3150	6.678	-2.935+1	5.643	1.667+1	3.499+1	2.407
3160	6.680	-2.936+1	5.646	1.663+1	3.501+1	2.353
3170	6.682	-2.938+1	5.650	1.660+1	3.503+1	2.300
3180	6.684	-2.940+1	5.653	1.657+1	3.505+1	2.247
3190	6.686	-2.942+1	5.656	1.654+1	3.507+1	2.194
3200	6.688	-2.944+1	5.659	1.651+1	3.510+1	2.142
3210	6.689	-2.945+1	5.663	1.648+1	3.512+1	2.089
3220	6.691	-2.947+1	5.666	1.645+1	3.514+1	2.038
3230	6.693	-2.949+1	5.669	1.642+1	3.516+1	1.986
3240	6.694	-2.951+1	5.672	1.639+1	3.518+1	1.935
3250	6.696	-2.952+1	5.675	1.636+1	3.520+1	1.884
3260	6.697	-2.954+1	5.678	1.633+1	3.522+1	1.834
3270	6.699	-2.956+1	5.682	1.630+1	3.524+1	1.784
3280	6.700	-2.958+1	5.685	1.627+1	3.526+1	1.734
3290	6.701	-2.959+1	5.688	1.624+1	3.528+1	1.684
3300	6.703	-2.961+1	5.691	1.621+1	3.530+1	1.635
3310	6.704	-2.963+1	5.694	1.618+1	3.532+1	1.586
3320	6.706	-2.964+1	5.697	1.616+1	3.534+1	1.537
3330	6.708	-2.966+1	5.700	1.613+1	3.536+1	1.489
3340	6.710	-2.968+1	5.703	1.610+1	3.538+1	1.441
3350	6.712	-2.970+1	5.706	1.607+1	3.540+1	1.393
3360	6.714	-2.971+1	5.709	1.604+1	3.542+1	1.345
3370	6.716	-2.973+1	5.712	1.602+1	3.544+1	1.298
3380	6.718	-2.975+1	5.715	1.599+1	3.546+1	1.251
3390	6.721	-2.976+1	5.718	1.596+1	3.548+1	1.204
3400	6.723	-2.978+1	5.721	1.593+1	3.550+1	1.158
3410	6.725	-2.980+1	5.724	1.591+1	3.552+1	1.111
3420	6.726	-2.981+1	5.727	1.588+1	3.554+1	1.066
3430	6.728	-2.983+1	5.730	1.585+1	3.556+1	1.020
3440	6.729	-2.985+1	5.733	1.583+1	3.558+1	9.748-1
3450	6.731	-2.986+1	5.736	1.580+1	3.560+1	9.298-1
3460	6.732	-2.988+1	5.738	1.577+1	3.562+1	8.851-1
3470	6.734	-2.990+1	5.741	1.575+1	3.564+1	8.407-1
3480	6.735	-2.991+1	5.744	1.572+1	3.566+1	7.965-1
3490	6.737	-2.993+1	5.747	1.570+1	3.568+1	7.526-1
3500	6.738	-2.995+1	5.750	1.567+1	3.570+1	7.089-1
3510	6.739	-2.996+1	5.753	1.565+1	3.572+1	6.653-1
3520	6.740	-2.998+1	5.756	1.562+1	3.574+1	6.219-1
3530	6.741	-3.000+1	5.758	1.559+1	3.575+1	5.788-1
3540	6.743	-3.001+1	5.761	1.557+1	3.577+1	5.359-1
3550	6.744	-3.003+1	5.764	1.554+1	3.579+1	4.933-1
3560	6.745	-3.004+1	5.767	1.552+1	3.581+1	4.508-1
3570	6.745	-3.006+1	5.769	1.550+1	3.583+1	4.086-1
3580	6.746	-3.008+1	5.772	1.547+1	3.585+1	3.667-1
3590	6.747	-3.009+1	5.775	1.545+1	3.587+1	3.249-1

SPECIE CH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	6.748	-3.011+1	5.778	1.542+1	3.589+1	2.834-1
3610	6.749	-3.013+1	5.780	1.540+1	3.591+1	2.422-1
3620	6.751	-3.014+1	5.783	1.537+1	3.592+1	2.011-1
3630	6.752	-3.016+1	5.786	1.535+1	3.594+1	1.603-1
3640	6.753	-3.017+1	5.788	1.533+1	3.596+1	1.197-1
3650	6.755	-3.019+1	5.791	1.530+1	3.598+1	7.934-2
3660	6.756	-3.020+1	5.794	1.528+1	3.600+1	3.919-2
3670	6.758	-3.022+1	5.796	1.526+1	3.602+1	-7.353-4
3680	6.760	-3.024+1	5.799	1.523+1	3.604+1	-4.045-2
3690	6.761	-3.025+1	5.801	1.521+1	3.605+1	-7.994-2
3700	6.763	-3.027+1	5.804	1.519+1	3.607+1	-1.192-1
3710	6.764	-3.028+1	5.807	1.517+1	3.609+1	-1.583-1
3720	6.765	-3.030+1	5.809	1.514+1	3.611+1	-1.972-1
3730	6.767	-3.031+1	5.812	1.512+1	3.613+1	-2.359-1
3740	6.768	-3.033+1	5.814	1.510+1	3.614+1	-2.744-1
3750	6.769	-3.035+1	5.817	1.508+1	3.616+1	-3.127-1
3760	6.770	-3.036+1	5.819	1.505+1	3.618+1	-3.508-1
3770	6.771	-3.038+1	5.822	1.503+1	3.620+1	-3.887-1
3780	6.772	-3.039+1	5.824	1.501+1	3.622+1	-4.264-1
3790	6.772	-3.041+1	5.827	1.499+1	3.623+1	-4.640-1
3800	6.773	-3.042+1	5.829	1.497+1	3.625+1	-5.013-1
3810	6.774	-3.044+1	5.832	1.495+1	3.627+1	-5.385-1
3820	6.775	-3.045+1	5.834	1.492+1	3.629+1	-5.755-1
3830	6.776	-3.047+1	5.837	1.490+1	3.631+1	-6.123-1
3840	6.777	-3.048+1	5.839	1.488+1	3.632+1	-6.490-1
3850	6.778	-3.050+1	5.842	1.486+1	3.634+1	-6.854-1
3860	6.779	-3.051+1	5.844	1.484+1	3.636+1	-7.217-1
3870	6.780	-3.053+1	5.847	1.482+1	3.638+1	-7.578-1
3880	6.781	-3.054+1	5.849	1.480+1	3.639+1	-7.936-1
3890	6.782	-3.056+1	5.851	1.478+1	3.641+1	-8.293-1
3900	6.783	-3.057+1	5.854	1.476+1	3.643+1	-8.648-1
3910	6.784	-3.059+1	5.856	1.474+1	3.645+1	-9.001-1
3920	6.785	-3.060+1	5.859	1.472+1	3.646+1	-9.351-1
3930	6.786	-3.062+1	5.861	1.470+1	3.648+1	-9.700-1
3940	6.787	-3.063+1	5.863	1.468+1	3.650+1	-1.005
3950	6.788	-3.065+1	5.866	1.466+1	3.652+1	-1.039
3960	6.789	-3.066+1	5.868	1.464+1	3.653+1	-1.074
3970	6.790	-3.068+1	5.870	1.462+1	3.655+1	-1.108
3980	6.791	-3.069+1	5.873	1.460+1	3.657+1	-1.142
3990	6.792	-3.071+1	5.875	1.458+1	3.658+1	-1.176
4000	6.793	-3.072+1	5.877	1.456+1	3.660+1	-1.209
4010	6.794	-3.074+1	5.880	1.454+1	3.662+1	-1.243
4020	6.795	-3.075+1	5.882	1.452+1	3.663+1	-1.276
4030	6.796	-3.077+1	5.884	1.450+1	3.665+1	-1.309
4040	6.797	-3.078+1	5.886	1.448+1	3.667+1	-1.342
4050	6.798	-3.080+1	5.889	1.446+1	3.669+1	-1.375
4060	6.799	-3.081+1	5.891	1.444+1	3.670+1	-1.408
4070	6.800	-3.083+1	5.893	1.442+1	3.672+1	-1.441
4080	6.801	-3.084+1	5.895	1.441+1	3.674+1	-1.473
4090	6.802	-3.085+1	5.898	1.439+1	3.675+1	-1.506

SPECIE CH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	6.803	-3.087+1	5.900	1.437+1	3.677+1	-1.538
4110	6.804	-3.088+1	5.902	1.435+1	3.679+1	-1.570
4120	6.805	-3.090+1	5.904	1.433+1	3.680+1	-1.601
4130	6.806	-3.091+1	5.906	1.431+1	3.682+1	-1.633
4140	6.807	-3.093+1	5.909	1.430+1	3.683+1	-1.665
4150	6.808	-3.094+1	5.911	1.428+1	3.685+1	-1.696
4160	6.809	-3.095+1	5.913	1.426+1	3.687+1	-1.727
4170	6.810	-3.097+1	5.915	1.424+1	3.688+1	-1.758
4180	6.811	-3.098+1	5.917	1.422+1	3.690+1	-1.789
4190	6.812	-3.100+1	5.919	1.421+1	3.692+1	-1.820
4200	6.813	-3.101+1	5.921	1.419+1	3.693+1	-1.850
4210	6.814	-3.103+1	5.924	1.417+1	3.695+1	-1.881
4220	6.815	-3.104+1	5.926	1.415+1	3.697+1	-1.911
4230	6.815	-3.105+1	5.928	1.414+1	3.698+1	-1.941
4240	6.816	-3.107+1	5.930	1.412+1	3.700+1	-1.971
4250	6.817	-3.108+1	5.932	1.410+1	3.701+1	-2.001
4260	6.817	-3.110+1	5.934	1.408+1	3.703+1	-2.031
4270	6.817	-3.111+1	5.936	1.407+1	3.705+1	-2.061
4280	6.818	-3.112+1	5.938	1.405+1	3.706+1	-2.090
4290	6.818	-3.114+1	5.940	1.403+1	3.708+1	-2.120
4300	6.818	-3.115+1	5.942	1.402+1	3.709+1	-2.149
4310	6.819	-3.116+1	5.944	1.400+1	3.711+1	-2.178
4320	6.820	-3.118+1	5.946	1.398+1	3.712+1	-2.207
4330	6.821	-3.119+1	5.948	1.397+1	3.714+1	-2.236
4340	6.822	-3.121+1	5.950	1.395+1	3.716+1	-2.265
4350	6.823	-3.122+1	5.952	1.393+1	3.717+1	-2.293
4360	6.824	-3.123+1	5.954	1.392+1	3.719+1	-2.322
4370	6.825	-3.125+1	5.956	1.390+1	3.720+1	-2.350
4380	6.826	-3.126+1	5.958	1.389+1	3.722+1	-2.379
4390	6.827	-3.127+1	5.960	1.387+1	3.723+1	-2.407
4400	6.828	-3.129+1	5.962	1.385+1	3.725+1	-2.435
4410	6.829	-3.130+1	5.964	1.384+1	3.727+1	-2.463
4420	6.830	-3.131+1	5.966	1.382+1	3.728+1	-2.491
4430	6.831	-3.133+1	5.968	1.381+1	3.730+1	-2.519
4440	6.831	-3.134+1	5.970	1.379+1	3.731+1	-2.546
4450	6.832	-3.135+1	5.972	1.377+1	3.733+1	-2.574
4460	6.832	-3.137+1	5.974	1.376+1	3.734+1	-2.601
4470	6.833	-3.138+1	5.976	1.374+1	3.736+1	-2.628
4480	6.833	-3.139+1	5.978	1.373+1	3.737+1	-2.655
4490	6.833	-3.141+1	5.980	1.371+1	3.739+1	-2.682
4500	6.834	-3.142+1	5.982	1.370+1	3.740+1	-2.709
4510	6.834	-3.143+1	5.984	1.368+1	3.742+1	-2.736
4520	6.835	-3.145+1	5.986	1.367+1	3.743+1	-2.763
4530	6.836	-3.146+1	5.987	1.365+1	3.745+1	-2.789
4540	6.837	-3.147+1	5.989	1.364+1	3.746+1	-2.815
4550	6.838	-3.149+1	5.991	1.362+1	3.748+1	-2.842
4560	6.839	-3.150+1	5.993	1.361+1	3.749+1	-2.868
4570	6.840	-3.151+1	5.995	1.359+1	3.751+1	-2.894
4580	6.841	-3.153+1	5.997	1.358+1	3.752+1	-2.920
4590	6.842	-3.154+1	5.999	1.356+1	3.754+1	-2.945

SPECIE CH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	6.844	-3.155+1	6.000	1.355+1	3.755+1	-2.971
4610	6.844	-3.157+1	6.002	1.353+1	3.757+1	-2.997
4620	6.845	-3.158+1	6.004	1.352+1	3.758+1	-3.022
4630	6.846	-3.159+1	6.006	1.351+1	3.760+1	-3.047
4640	6.846	-3.161+1	6.008	1.349+1	3.761+1	-3.073
4650	6.847	-3.162+1	6.010	1.348+1	3.763+1	-3.098
4660	6.847	-3.163+1	6.011	1.346+1	3.764+1	-3.123
4670	6.848	-3.164+1	6.013	1.345+1	3.766+1	-3.148
4680	6.848	-3.166+1	6.015	1.343+1	3.767+1	-3.173
4690	6.848	-3.167+1	6.017	1.342+1	3.769+1	-3.197
4700	6.849	-3.168+1	6.018	1.341+1	3.770+1	-3.222
4710	6.849	-3.170+1	6.020	1.339+1	3.772+1	-3.246
4720	6.850	-3.171+1	6.022	1.338+1	3.773+1	-3.271
4730	6.850	-3.172+1	6.024	1.336+1	3.774+1	-3.295
4740	6.851	-3.173+1	6.025	1.335+1	3.776+1	-3.319
4750	6.851	-3.175+1	6.027	1.334+1	3.777+1	-3.343
4760	6.852	-3.176+1	6.029	1.332+1	3.779+1	-3.367
4770	6.852	-3.177+1	6.031	1.331+1	3.780+1	-3.391
4780	6.853	-3.178+1	6.032	1.330+1	3.782+1	-3.414
4790	6.853	-3.180+1	6.034	1.328+1	3.783+1	-3.438
4800	6.854	-3.181+1	6.036	1.327+1	3.785+1	-3.461
4810	6.854	-3.182+1	6.038	1.326+1	3.786+1	-3.485
4820	6.855	-3.183+1	6.039	1.324+1	3.787+1	-3.509
4830	6.855	-3.185+1	6.041	1.323+1	3.789+1	-3.532
4840	6.856	-3.186+1	6.043	1.322+1	3.790+1	-3.555
4850	6.856	-3.187+1	6.044	1.320+1	3.792+1	-3.579
4860	6.857	-3.188+1	6.046	1.319+1	3.793+1	-3.602
4870	6.857	-3.190+1	6.048	1.318+1	3.794+1	-3.625
4880	6.858	-3.191+1	6.049	1.316+1	3.796+1	-3.648
4890	6.858	-3.192+1	6.051	1.315+1	3.797+1	-3.671
4900	6.859	-3.193+1	6.053	1.314+1	3.799+1	-3.694
4910	6.859	-3.195+1	6.054	1.313+1	3.800+1	-3.716
4920	6.860	-3.196+1	6.056	1.311+1	3.801+1	-3.739
4930	6.860	-3.197+1	6.058	1.310+1	3.803+1	-3.761
4940	6.861	-3.198+1	6.059	1.309+1	3.804+1	-3.784
4950	6.861	-3.200+1	6.061	1.308+1	3.806+1	-3.806
4960	6.862	-3.201+1	6.062	1.306+1	3.807+1	-3.828
4970	6.862	-3.202+1	6.064	1.305+1	3.808+1	-3.850
4980	6.863	-3.203+1	6.066	1.304+1	3.810+1	-3.872
4990	6.863	-3.204+1	6.067	1.303+1	3.811+1	-3.894
5000	6.864	-3.206+1	6.069	1.301+1	3.813+1	-3.916
5010	6.864	-3.207+1	6.070	1.300+1	3.814+1	-3.938
5020	6.865	-3.208+1	6.072	1.299+1	3.815+1	-3.960
5030	6.865	-3.209+1	6.074	1.298+1	3.817+1	-3.982
5040	6.866	-3.211+1	6.075	1.296+1	3.818+1	-4.003
5050	6.866	-3.212+1	6.077	1.295+1	3.819+1	-4.025
5060	6.867	-3.213+1	6.078	1.294+1	3.821+1	-4.046
5070	6.867	-3.214+1	6.080	1.293+1	3.822+1	-4.068
5080	6.868	-3.215+1	6.081	1.292+1	3.823+1	-4.089
5090	6.868	-3.217+1	6.083	1.290+1	3.825+1	-4.110

SPECIE CH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	6.869	-3.218+1	6.085	1.289+1	3.826+1	-4.132
5110	6.869	-3.219+1	6.086	1.288+1	3.828+1	-4.153
5120	6.870	-3.220+1	6.088	1.287+1	3.829+1	-4.173
5130	6.870	-3.221+1	6.089	1.286+1	3.830+1	-4.194
5140	6.871	-3.222+1	6.091	1.285+1	3.832+1	-4.215
5150	6.871	-3.224+1	6.092	1.283+1	3.833+1	-4.235
5160	6.872	-3.225+1	6.094	1.282+1	3.834+1	-4.256
5170	6.872	-3.226+1	6.095	1.281+1	3.836+1	-4.276
5180	6.873	-3.227+1	6.097	1.280+1	3.837+1	-4.297
5190	6.873	-3.228+1	6.098	1.279+1	3.838+1	-4.317
5200	6.874	-3.230+1	6.100	1.278+1	3.840+1	-4.337
5210	6.874	-3.231+1	6.101	1.277+1	3.841+1	-4.357
5220	6.875	-3.232+1	6.103	1.275+1	3.842+1	-4.378
5230	6.875	-3.233+1	6.104	1.274+1	3.843+1	-4.398
5240	6.876	-3.234+1	6.106	1.273+1	3.845+1	-4.418
5250	6.876	-3.235+1	6.107	1.272+1	3.846+1	-4.438
5260	6.877	-3.237+1	6.109	1.271+1	3.847+1	-4.458
5270	6.877	-3.238+1	6.110	1.270+1	3.849+1	-4.478
5280	6.878	-3.239+1	6.112	1.269+1	3.850+1	-4.497
5290	6.878	-3.240+1	6.113	1.268+1	3.851+1	-4.517
5300	6.879	-3.241+1	6.114	1.267+1	3.853+1	-4.537
5310	6.879	-3.242+1	6.116	1.265+1	3.854+1	-4.556
5320	6.880	-3.243+1	6.117	1.264+1	3.855+1	-4.576
5330	6.880	-3.245+1	6.119	1.263+1	3.856+1	-4.595
5340	6.881	-3.246+1	6.120	1.262+1	3.858+1	-4.614
5350	6.881	-3.247+1	6.122	1.261+1	3.859+1	-4.633
5360	6.882	-3.248+1	6.123	1.260+1	3.860+1	-4.652
5370	6.882	-3.249+1	6.124	1.259+1	3.862+1	-4.671
5380	6.883	-3.250+1	6.126	1.258+1	3.863+1	-4.690
5390	6.883	-3.251+1	6.127	1.257+1	3.864+1	-4.709
5400	6.884	-3.253+1	6.129	1.256+1	3.865+1	-4.728
5410	6.884	-3.254+1	6.130	1.255+1	3.867+1	-4.747
5420	6.885	-3.255+1	6.131	1.254+1	3.868+1	-4.765
5430	6.885	-3.256+1	6.133	1.253+1	3.869+1	-4.784
5440	6.886	-3.257+1	6.134	1.252+1	3.871+1	-4.803
5450	6.886	-3.258+1	6.136	1.251+1	3.872+1	-4.821
5460	6.887	-3.259+1	6.137	1.250+1	3.873+1	-4.840
5470	6.887	-3.260+1	6.138	1.249+1	3.874+1	-4.858
5480	6.888	-3.262+1	6.140	1.248+1	3.876+1	-4.876
5490	6.888	-3.263+1	6.141	1.247+1	3.877+1	-4.895
5500	6.889	-3.264+1	6.142	1.246+1	3.878+1	-4.913
5510	6.889	-3.265+1	6.144	1.245+1	3.879+1	-4.931
5520	6.889	-3.266+1	6.145	1.244+1	3.881+1	-4.949
5530	6.889	-3.267+1	6.147	1.243+1	3.882+1	-4.967
5540	6.889	-3.268+1	6.148	1.242+1	3.883+1	-4.985
5550	6.889	-3.269+1	6.149	1.241+1	3.884+1	-5.003
5560	6.889	-3.271+1	6.151	1.240+1	3.886+1	-5.021
5570	6.889	-3.272+1	6.152	1.239+1	3.887+1	-5.039
5580	6.889	-3.273+1	6.153	1.238+1	3.888+1	-5.056
5590	6.889	-3.274+1	6.155	1.237+1	3.889+1	-5.074

SPECIE CH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	6.889	-3.275+1	6.156	1.236+1	3.891+1	-5.092
5610	6.889	-3.276+1	6.157	1.235+1	3.892+1	-5.109
5620	6.889	-3.277+1	6.159	1.234+1	3.893+1	-5.127
5630	6.890	-3.278+1	6.160	1.233+1	3.894+1	-5.144
5640	6.890	-3.279+1	6.161	1.232+1	3.895+1	-5.161
5650	6.891	-3.280+1	6.162	1.231+1	3.897+1	-5.179
5660	6.891	-3.281+1	6.164	1.230+1	3.898+1	-5.196
5670	6.892	-3.283+1	6.165	1.229+1	3.899+1	-5.213
5680	6.892	-3.284+1	6.166	1.228+1	3.900+1	-5.230
5690	6.893	-3.285+1	6.168	1.227+1	3.902+1	-5.247
5700	6.894	-3.286+1	6.169	1.226+1	3.903+1	-5.264
5710	6.894	-3.287+1	6.170	1.225+1	3.904+1	-5.281
5720	6.895	-3.288+1	6.171	1.224+1	3.905+1	-5.298
5730	6.895	-3.289+1	6.173	1.223+1	3.906+1	-5.315
5740	6.896	-3.290+1	6.174	1.222+1	3.908+1	-5.332
5750	6.896	-3.291+1	6.175	1.221+1	3.909+1	-5.348
5760	6.897	-3.292+1	6.176	1.220+1	3.910+1	-5.365
5770	6.897	-3.293+1	6.178	1.220+1	3.911+1	-5.382
5780	6.898	-3.294+1	6.179	1.219+1	3.912+1	-5.398
5790	6.898	-3.296+1	6.180	1.218+1	3.914+1	-5.414
5800	6.899	-3.297+1	6.181	1.217+1	3.915+1	-5.431
5810	6.899	-3.298+1	6.183	1.216+1	3.916+1	-5.447
5820	6.899	-3.299+1	6.184	1.215+1	3.917+1	-5.463
5830	6.899	-3.300+1	6.185	1.214+1	3.918+1	-5.480
5840	6.899	-3.301+1	6.186	1.213+1	3.919+1	-5.496
5850	6.899	-3.302+1	6.188	1.212+1	3.921+1	-5.512
5860	6.899	-3.303+1	6.189	1.211+1	3.922+1	-5.528
5870	6.899	-3.304+1	6.190	1.211+1	3.923+1	-5.544
5880	6.899	-3.305+1	6.191	1.210+1	3.924+1	-5.560
5890	6.899	-3.306+1	6.192	1.209+1	3.925+1	-5.576
5900	6.899	-3.307+1	6.194	1.208+1	3.927+1	-5.592
5910	6.899	-3.308+1	6.195	1.207+1	3.928+1	-5.608
5920	6.900	-3.309+1	6.196	1.206+1	3.929+1	-5.624
5930	6.900	-3.310+1	6.197	1.205+1	3.930+1	-5.640
5940	6.900	-3.311+1	6.198	1.204+1	3.931+1	-5.655
5950	6.901	-3.312+1	6.200	1.204+1	3.932+1	-5.671
5960	6.901	-3.313+1	6.201	1.203+1	3.934+1	-5.687
5970	6.902	-3.314+1	6.202	1.202+1	3.935+1	-5.702
5980	6.903	-3.316+1	6.203	1.201+1	3.936+1	-5.718
5990	6.903	-3.317+1	6.204	1.200+1	3.937+1	-5.733
6000	6.904	-3.318+1	6.206	1.199+1	3.938+1	-5.748

SPECIE CH3

MOLECULAR WEIGHT EQUALS 15.0354

DELTA E ZERO EQUALS 33.400 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(NBS 500, 2/1/52) (10)

THERMAL

(W. W. CLAUSON, GER58AGT311, 4/50) (2)

SPECIE CH3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	4.000	-1.526+1	3.919	1.720+2	1.917+1	6.745+2
110	4.003	-1.544+1	3.921	1.592+2	1.936+1	6.218+2
120	4.005	-1.563+1	3.922	1.476+2	1.955+1	5.740+2
130	4.007	-1.581+1	3.924	1.371+2	1.973+1	5.308+2
140	4.010	-1.598+1	3.928	1.276+2	1.991+1	4.918+2
150	4.014	-1.616+1	3.932	1.190+2	2.009+1	4.566+2
160	4.018	-1.632+1	3.936	1.114+2	2.026+1	4.251+2
170	4.024	-1.649+1	3.941	1.045+2	2.043+1	3.968+2
180	4.031	-1.665+1	3.947	9.837+1	2.060+1	3.714+2
190	4.038	-1.682+1	3.954	9.289+1	2.077+1	3.488+2
200	4.050	-1.697+1	3.960	8.800+1	2.093+1	3.286+2
210	4.064	-1.713+1	3.967	8.364+1	2.109+1	3.106+2
220	4.077	-1.728+1	3.974	7.976+1	2.125+1	2.945+2
230	4.093	-1.743+1	3.981	7.630+1	2.141+1	2.802+2
240	4.112	-1.757+1	3.989	7.321+1	2.156+1	2.674+2
250	4.133	-1.772+1	3.998	7.044+1	2.171+1	2.559+2
260	4.156	-1.786+1	4.007	6.796+1	2.186+1	2.455+2
270	4.182	-1.799+1	4.016	6.571+1	2.201+1	2.362+2
280	4.210	-1.813+1	4.024	6.367+1	2.215+1	2.277+2
290	4.240	-1.826+1	4.034	6.180+1	2.230+1	2.199+2
300	4.273	-1.839+1	4.044	6.007+1	2.244+1	2.126+2
310	4.310	-1.852+1	4.053	5.823+1	2.257+1	2.050+2
320	4.350	-1.865+1	4.063	5.652+1	2.271+1	1.978+2
330	4.390	-1.877+1	4.072	5.492+1	2.284+1	1.911+2
340	4.433	-1.889+1	4.082	5.342+1	2.297+1	1.848+2
350	4.476	-1.901+1	4.093	5.202+1	2.310+1	1.790+2
360	4.520	-1.913+1	4.104	5.071+1	2.323+1	1.735+2
370	4.566	-1.924+1	4.115	4.947+1	2.336+1	1.683+2
380	4.612	-1.935+1	4.127	4.831+1	2.348+1	1.634+2
390	4.658	-1.946+1	4.140	4.721+1	2.360+1	1.587+2
400	4.705	-1.957+1	4.153	4.617+1	2.372+1	1.543+2
410	4.753	-1.967+1	4.167	4.518+1	2.384+1	1.501+2
420	4.800	-1.977+1	4.181	4.424+1	2.395+1	1.461+2
430	4.848	-1.987+1	4.196	4.334+1	2.407+1	1.423+2
440	4.895	-1.997+1	4.210	4.248+1	2.418+1	1.386+2
450	4.943	-2.007+1	4.226	4.165+1	2.429+1	1.351+2
460	4.991	-2.016+1	4.242	4.085+1	2.440+1	1.317+2
470	5.038	-2.025+1	4.258	4.008+1	2.451+1	1.284+2
480	5.085	-2.034+1	4.276	3.934+1	2.461+1	1.252+2
490	5.132	-2.043+1	4.293	3.862+1	2.472+1	1.221+2
500	5.178	-2.051+1	4.310	3.793+1	2.482+1	1.192+2
510	5.225	-2.060+1	4.327	3.729+1	2.493+1	1.164+2
520	5.271	-2.068+1	4.345	3.668+1	2.503+1	1.138+2
530	5.317	-2.077+1	4.363	3.609+1	2.513+1	1.112+2
540	5.363	-2.085+1	4.381	3.552+1	2.523+1	1.088+2
550	5.408	-2.093+1	4.400	3.498+1	2.533+1	1.064+2
560	5.453	-2.101+1	4.418	3.445+1	2.543+1	1.041+2
570	5.498	-2.109+1	4.437	3.394+1	2.552+1	1.019+2
580	5.543	-2.116+1	4.456	3.345+1	2.562+1	9.975+1
590	5.587	-2.124+1	4.475	3.297+1	2.571+1	9.767+1

SPECIE CH3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	5.632	-2.131+1	4.494	3.251+1	2.581+1	9.564+1
610	5.675	-2.139+1	4.513	3.207+1	2.590+1	9.372+1
620	5.719	-2.146+1	4.532	3.164+1	2.599+1	9.185+1
630	5.762	-2.153+1	4.551	3.123+1	2.609+1	9.005+1
640	5.805	-2.161+1	4.570	3.084+1	2.618+1	8.830+1
650	5.847	-2.168+1	4.590	3.045+1	2.627+1	8.659+1
660	5.889	-2.175+1	4.609	3.008+1	2.636+1	8.494+1
670	5.931	-2.182+1	4.628	2.972+1	2.645+1	8.334+1
680	5.973	-2.189+1	4.648	2.937+1	2.653+1	8.178+1
690	6.014	-2.195+1	4.667	2.903+1	2.662+1	8.026+1
700	6.055	-2.202+1	4.687	2.870+1	2.671+1	7.879+1
710	6.096	-2.209+1	4.707	2.838+1	2.679+1	7.736+1
720	6.136	-2.215+1	4.726	2.807+1	2.688+1	7.598+1
730	6.176	-2.222+1	4.745	2.777+1	2.696+1	7.463+1
740	6.215	-2.228+1	4.765	2.748+1	2.705+1	7.332+1
750	6.255	-2.235+1	4.784	2.720+1	2.713+1	7.204+1
760	6.294	-2.241+1	4.804	2.692+1	2.722+1	7.079+1
770	6.332	-2.247+1	4.824	2.665+1	2.730+1	6.958+1
780	6.371	-2.254+1	4.843	2.639+1	2.738+1	6.840+1
790	6.409	-2.260+1	4.863	2.614+1	2.746+1	6.724+1
800	6.447	-2.266+1	4.882	2.589+1	2.754+1	6.611+1
810	6.484	-2.272+1	4.902	2.565+1	2.762+1	6.501+1
820	6.521	-2.278+1	4.921	2.542+1	2.770+1	6.395+1
830	6.558	-2.284+1	4.941	2.519+1	2.778+1	6.291+1
840	6.594	-2.290+1	4.960	2.497+1	2.786+1	6.189+1
850	6.630	-2.296+1	4.979	2.475+1	2.794+1	6.089+1
860	6.666	-2.302+1	4.999	2.454+1	2.802+1	5.992+1
870	6.702	-2.307+1	5.018	2.434+1	2.809+1	5.897+1
880	6.737	-2.313+1	5.038	2.414+1	2.817+1	5.804+1
890	6.771	-2.319+1	5.057	2.394+1	2.825+1	5.713+1
900	6.806	-2.325+1	5.076	2.375+1	2.832+1	5.624+1
910	6.840	-2.330+1	5.096	2.357+1	2.840+1	5.537+1
920	6.874	-2.336+1	5.115	2.338+1	2.847+1	5.452+1
930	6.907	-2.341+1	5.134	2.321+1	2.855+1	5.369+1
940	6.940	-2.347+1	5.153	2.303+1	2.862+1	5.288+1
950	6.973	-2.352+1	5.172	2.286+1	2.870+1	5.208+1
960	7.005	-2.358+1	5.191	2.270+1	2.877+1	5.130+1
970	7.037	-2.363+1	5.210	2.254+1	2.884+1	5.053+1
980	7.069	-2.368+1	5.229	2.238+1	2.891+1	4.978+1
990	7.100	-2.374+1	5.248	2.222+1	2.899+1	4.905+1
1000	7.131	-2.379+1	5.267	2.207+1	2.906+1	4.833+1
1010	7.162	-2.384+1	5.285	2.193+1	2.913+1	4.762+1
1020	7.192	-2.390+1	5.304	2.178+1	2.920+1	4.693+1
1030	7.222	-2.395+1	5.322	2.164+1	2.927+1	4.625+1
1040	7.252	-2.400+1	5.341	2.150+1	2.934+1	4.559+1
1050	7.281	-2.405+1	5.359	2.137+1	2.941+1	4.493+1
1060	7.310	-2.410+1	5.377	2.123+1	2.948+1	4.429+1
1070	7.339	-2.415+1	5.395	2.110+1	2.955+1	4.366+1
1080	7.367	-2.420+1	5.413	2.098+1	2.961+1	4.304+1
1090	7.395	-2.425+1	5.431	2.085+1	2.968+1	4.244+1

SPECIE CH3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	7.423	-2.430+1	5.449	2.073+1	2.975+1	4.184+1
1110	7.451	-2.435+1	5.467	2.061+1	2.982+1	4.126+1
1120	7.478	-2.440+1	5.485	2.049+1	2.988+1	4.068+1
1130	7.505	-2.445+1	5.503	2.038+1	2.995+1	4.012+1
1140	7.531	-2.450+1	5.520	2.026+1	3.002+1	3.957+1
1150	7.558	-2.455+1	5.538	2.015+1	3.008+1	3.902+1
1160	7.583	-2.459+1	5.556	2.005+1	3.015+1	3.849+1
1170	7.609	-2.464+1	5.573	1.994+1	3.021+1	3.796+1
1180	7.634	-2.469+1	5.591	1.983+1	3.028+1	3.744+1
1190	7.658	-2.474+1	5.608	1.973+1	3.034+1	3.694+1
1200	7.682	-2.478+1	5.625	1.963+1	3.041+1	3.644+1
1210	7.705	-2.483+1	5.642	1.953+1	3.047+1	3.594+1
1220	7.728	-2.488+1	5.659	1.944+1	3.054+1	3.546+1
1230	7.750	-2.492+1	5.676	1.934+1	3.060+1	3.499+1
1240	7.771	-2.497+1	5.693	1.925+1	3.066+1	3.452+1
1250	7.793	-2.501+1	5.710	1.916+1	3.072+1	3.406+1
1260	7.813	-2.506+1	5.726	1.907+1	3.079+1	3.360+1
1270	7.834	-2.511+1	5.743	1.898+1	3.085+1	3.316+1
1280	7.854	-2.515+1	5.759	1.889+1	3.091+1	3.272+1
1290	7.874	-2.520+1	5.776	1.880+1	3.097+1	3.229+1
1300	7.894	-2.524+1	5.792	1.872+1	3.103+1	3.186+1
1310	7.916	-2.528+1	5.808	1.864+1	3.109+1	3.144+1
1320	7.938	-2.533+1	5.824	1.856+1	3.115+1	3.103+1
1330	7.960	-2.537+1	5.841	1.848+1	3.121+1	3.062+1
1340	7.981	-2.542+1	5.857	1.840+1	3.127+1	3.022+1
1350	8.003	-2.546+1	5.872	1.832+1	3.133+1	2.982+1
1360	8.025	-2.550+1	5.888	1.825+1	3.139+1	2.944+1
1370	8.047	-2.555+1	5.904	1.817+1	3.145+1	2.905+1
1380	8.069	-2.559+1	5.920	1.810+1	3.151+1	2.867+1
1390	8.092	-2.563+1	5.935	1.803+1	3.157+1	2.830+1
1400	8.114	-2.567+1	5.951	1.796+1	3.163+1	2.793+1
1410	8.133	-2.572+1	5.966	1.789+1	3.168+1	2.757+1
1420	8.152	-2.576+1	5.981	1.782+1	3.174+1	2.721+1
1430	8.170	-2.580+1	5.997	1.775+1	3.180+1	2.686+1
1440	8.189	-2.584+1	6.012	1.768+1	3.186+1	2.652+1
1450	8.206	-2.589+1	6.027	1.762+1	3.191+1	2.617+1
1460	8.224	-2.593+1	6.042	1.755+1	3.197+1	2.584+1
1470	8.241	-2.597+1	6.057	1.749+1	3.202+1	2.550+1
1480	8.258	-2.601+1	6.072	1.743+1	3.208+1	2.518+1
1490	8.275	-2.605+1	6.087	1.737+1	3.214+1	2.485+1
1500	8.291	-2.609+1	6.101	1.731+1	3.219+1	2.453+1
1510	8.308	-2.613+1	6.116	1.725+1	3.225+1	2.422+1
1520	8.324	-2.617+1	6.130	1.719+1	3.230+1	2.391+1
1530	8.340	-2.621+1	6.145	1.713+1	3.236+1	2.360+1
1540	8.356	-2.625+1	6.159	1.707+1	3.241+1	2.330+1
1550	8.372	-2.629+1	6.174	1.702+1	3.247+1	2.300+1
1560	8.388	-2.633+1	6.188	1.696+1	3.252+1	2.270+1
1570	8.403	-2.637+1	6.202	1.691+1	3.257+1	2.241+1
1580	8.418	-2.641+1	6.216	1.685+1	3.263+1	2.212+1
1590	8.433	-2.645+1	6.230	1.680+1	3.268+1	2.184+1

SPECIE CH3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	8.448	-2.649+1	6.244	1.675+1	3.273+1	2.156+1
1610	8.463	-2.653+1	6.257	1.670+1	3.279+1	2.128+1
1620	8.477	-2.657+1	6.271	1.665+1	3.284+1	2.101+1
1630	8.491	-2.661+1	6.284	1.660+1	3.289+1	2.074+1
1640	8.505	-2.664+1	6.298	1.655+1	3.294+1	2.047+1
1650	8.519	-2.668+1	6.311	1.650+1	3.299+1	2.020+1
1660	8.533	-2.672+1	6.324	1.645+1	3.304+1	1.994+1
1670	8.546	-2.676+1	6.337	1.640+1	3.310+1	1.968+1
1680	8.560	-2.680+1	6.350	1.635+1	3.315+1	1.943+1
1690	8.573	-2.683+1	6.363	1.631+1	3.320+1	1.918+1
1700	8.586	-2.687+1	6.376	1.626+1	3.325+1	1.893+1
1710	8.599	-2.691+1	6.389	1.622+1	3.330+1	1.868+1
1720	8.612	-2.695+1	6.402	1.617+1	3.335+1	1.844+1
1730	8.624	-2.698+1	6.415	1.613+1	3.340+1	1.820+1
1740	8.637	-2.702+1	6.427	1.609+1	3.345+1	1.796+1
1750	8.649	-2.706+1	6.440	1.604+1	3.350+1	1.773+1
1760	8.661	-2.709+1	6.453	1.600+1	3.355+1	1.750+1
1770	8.673	-2.713+1	6.465	1.596+1	3.359+1	1.727+1
1780	8.685	-2.717+1	6.478	1.592+1	3.364+1	1.704+1
1790	8.697	-2.720+1	6.490	1.588+1	3.369+1	1.682+1
1800	8.708	-2.724+1	6.502	1.584+1	3.374+1	1.660+1
1810	8.720	-2.727+1	6.515	1.580+1	3.379+1	1.638+1
1820	8.731	-2.731+1	6.527	1.576+1	3.384+1	1.616+1
1830	8.742	-2.735+1	6.539	1.572+1	3.389+1	1.595+1
1840	8.753	-2.738+1	6.551	1.569+1	3.393+1	1.573+1
1850	8.763	-2.742+1	6.563	1.565+1	3.398+1	1.552+1
1860	8.774	-2.745+1	6.575	1.561+1	3.403+1	1.532+1
1870	8.784	-2.749+1	6.587	1.557+1	3.408+1	1.511+1
1880	8.795	-2.752+1	6.599	1.554+1	3.412+1	1.491+1
1890	8.805	-2.756+1	6.611	1.550+1	3.417+1	1.471+1
1900	8.815	-2.759+1	6.622	1.547+1	3.422+1	1.451+1
1910	8.825	-2.763+1	6.634	1.543+1	3.426+1	1.431+1
1920	8.835	-2.766+1	6.645	1.540+1	3.431+1	1.412+1
1930	8.845	-2.770+1	6.657	1.536+1	3.435+1	1.392+1
1940	8.855	-2.773+1	6.668	1.533+1	3.440+1	1.373+1
1950	8.865	-2.777+1	6.679	1.530+1	3.445+1	1.354+1
1960	8.874	-2.780+1	6.690	1.526+1	3.449+1	1.336+1
1970	8.884	-2.783+1	6.701	1.523+1	3.454+1	1.317+1
1980	8.894	-2.787+1	6.712	1.520+1	3.458+1	1.299+1
1990	8.903	-2.790+1	6.723	1.517+1	3.462+1	1.281+1
2000	8.912	-2.794+1	6.733	1.514+1	3.467+1	1.263+1
2010	8.921	-2.797+1	6.744	1.511+1	3.471+1	1.245+1
2020	8.930	-2.800+1	6.755	1.508+1	3.476+1	1.227+1
2030	8.939	-2.804+1	6.766	1.505+1	3.480+1	1.210+1
2040	8.948	-2.807+1	6.776	1.502+1	3.485+1	1.193+1
2050	8.957	-2.810+1	6.787	1.499+1	3.489+1	1.176+1
2060	8.965	-2.814+1	6.798	1.496+1	3.493+1	1.159+1
2070	8.973	-2.817+1	6.808	1.493+1	3.498+1	1.142+1
2080	8.982	-2.820+1	6.819	1.490+1	3.502+1	1.125+1
2090	8.990	-2.823+1	6.829	1.487+1	3.506+1	1.109+1

SPECIE CH3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	8.998	-2.827+1	6.839	1.484+1	3.511+1	1.093+1
2110	8.808	-2.830+1	6.850	1.482+1	3.515+1	1.077+1
2120	9.014	-2.833+1	6.860	1.479+1	3.519+1	1.061+1
2130	9.022	-2.836+1	6.870	1.476+1	3.523+1	1.045+1
2140	9.030	-2.840+1	6.880	1.473+1	3.528+1	1.029+1
2150	9.037	-2.843+1	6.890	1.471+1	3.532+1	1.014+1
2160	9.045	-2.846+1	6.900	1.468+1	3.536+1	9.984
2170	9.053	-2.849+1	6.910	1.466+1	3.540+1	9.831
2180	9.060	-2.853+1	6.920	1.463+1	3.545+1	9.681
2190	9.067	-2.856+1	6.930	1.460+1	3.549+1	9.531
2200	9.075	-2.859+1	6.940	1.458+1	3.553+1	9.383
2210	9.082	-2.862+1	6.950	1.455+1	3.557+1	9.237
2220	9.089	-2.865+1	6.959	1.453+1	3.561+1	9.091
2230	9.096	-2.868+1	6.969	1.451+1	3.565+1	8.947
2240	9.103	-2.871+1	6.979	1.448+1	3.569+1	8.805
2250	9.110	-2.875+1	6.988	1.446+1	3.573+1	8.663
2260	9.117	-2.878+1	6.997	1.443+1	3.577+1	8.523
2270	9.123	-2.881+1	7.007	1.441+1	3.581+1	8.384
2280	9.130	-2.884+1	7.016	1.439+1	3.585+1	8.247
2290	9.136	-2.887+1	7.025	1.436+1	3.589+1	8.110
2300	9.143	-2.890+1	7.034	1.434+1	3.593+1	7.975
2310	9.149	-2.893+1	7.043	1.432+1	3.597+1	7.841
2320	9.155	-2.896+1	7.052	1.430+1	3.601+1	7.707
2330	9.162	-2.899+1	7.061	1.427+1	3.605+1	7.575
2340	9.168	-2.902+1	7.070	1.425+1	3.609+1	7.444
2350	9.174	-2.905+1	7.079	1.423+1	3.613+1	7.314
2360	9.180	-2.908+1	7.088	1.421+1	3.617+1	7.185
2370	9.186	-2.911+1	7.097	1.419+1	3.621+1	7.057
2380	9.192	-2.914+1	7.105	1.417+1	3.625+1	6.931
2390	9.198	-2.917+1	7.114	1.415+1	3.628+1	6.805
2400	9.204	-2.920+1	7.123	1.413+1	3.632+1	6.681
2410	9.210	-2.923+1	7.131	1.411+1	3.636+1	6.558
2420	9.216	-2.926+1	7.140	1.408+1	3.640+1	6.435
2430	9.221	-2.929+1	7.148	1.406+1	3.644+1	6.314
2440	9.227	-2.932+1	7.157	1.405+1	3.647+1	6.194
2450	9.232	-2.935+1	7.165	1.403+1	3.651+1	6.075
2460	9.238	-2.938+1	7.174	1.401+1	3.655+1	5.957
2470	9.243	-2.940+1	7.182	1.399+1	3.659+1	5.840
2480	9.249	-2.943+1	7.191	1.397+1	3.662+1	5.724
2490	9.254	-2.946+1	7.199	1.395+1	3.666+1	5.608
2500	9.259	-2.949+1	7.207	1.393+1	3.670+1	5.494
2510	9.264	-2.952+1	7.215	1.391+1	3.674+1	5.380
2520	9.270	-2.955+1	7.224	1.389+1	3.677+1	5.267
2530	9.275	-2.958+1	7.232	1.387+1	3.681+1	5.155
2540	9.280	-2.961+1	7.240	1.386+1	3.685+1	5.043
2550	9.285	-2.963+1	7.248	1.384+1	3.688+1	4.933
2560	9.290	-2.966+1	7.256	1.382+1	3.692+1	4.824
2570	9.295	-2.969+1	7.264	1.380+1	3.695+1	4.715
2580	9.300	-2.972+1	7.271	1.379+1	3.699+1	4.607
2590	9.304	-2.975+1	7.279	1.377+1	3.703+1	4.501

SPECIE CH3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	9.309	-2.978+1	7.287	1.375+1	3.706+1	4.395
2610	9.314	-2.980+1	7.295	1.373+1	3.710+1	4.291
2620	9.319	-2.983+1	7.302	1.372+1	3.713+1	4.187
2630	9.323	-2.986+1	7.310	1.370+1	3.717+1	4.085
2640	9.328	-2.989+1	7.318	1.368+1	3.721+1	3.983
2650	9.333	-2.992+1	7.326	1.367+1	3.724+1	3.893
2660	9.337	-2.995+1	7.333	1.365+1	3.728+1	3.783
2670	9.342	-2.998+1	7.341	1.364+1	3.732+1	3.684
2680	9.346	-3.000+1	7.349	1.362+1	3.735+1	3.586
2690	9.351	-3.003+1	7.356	1.360+1	3.739+1	3.488
2700	9.355	-3.006+1	7.364	1.359+1	3.743+1	3.392
2710	9.359	-3.009+1	7.371	1.357+1	3.746+1	3.294
2720	9.363	-3.012+1	7.378	1.356+1	3.750+1	3.198
2730	9.368	-3.014+1	7.386	1.354+1	3.753+1	3.101
2740	9.372	-3.017+1	7.393	1.353+1	3.756+1	3.006
2750	9.376	-3.020+1	7.400	1.351+1	3.760+1	2.910
2760	9.380	-3.022+1	7.407	1.350+1	3.763+1	2.816
2770	9.384	-3.025+1	7.414	1.348+1	3.766+1	2.721
2780	9.388	-3.027+1	7.422	1.347+1	3.770+1	2.628
2790	9.392	-3.030+1	7.429	1.345+1	3.773+1	2.534
2800	9.396	-3.032+1	7.435	1.344+1	3.776+1	2.442
2810	9.400	-3.035+1	7.442	1.342+1	3.779+1	2.351
2820	9.403	-3.038+1	7.449	1.341+1	3.783+1	2.261
2830	9.407	-3.040+1	7.456	1.340+1	3.786+1	2.171
2840	9.411	-3.043+1	7.463	1.338+1	3.789+1	2.082
2850	9.415	-3.045+1	7.470	1.337+1	3.792+1	1.994
2860	9.419	-3.048+1	7.477	1.335+1	3.796+1	1.907
2870	9.422	-3.051+1	7.483	1.334+1	3.799+1	1.820
2880	9.426	-3.053+1	7.490	1.333+1	3.802+1	1.734
2890	9.430	-3.056+1	7.497	1.331+1	3.806+1	1.649
2900	9.433	-3.058+1	7.503	1.330+1	3.809+1	1.564
2910	9.437	-3.061+1	7.510	1.329+1	3.812+1	1.480
2920	9.440	-3.064+1	7.517	1.327+1	3.815+1	1.396
2930	9.444	-3.066+1	7.523	1.326+1	3.818+1	1.313
2940	9.447	-3.069+1	7.530	1.325+1	3.822+1	1.230
2950	9.451	-3.071+1	7.536	1.323+1	3.825+1	1.148
2960	9.454	-3.074+1	7.543	1.322+1	3.828+1	1.067
2970	9.457	-3.076+1	7.549	1.321+1	3.831+1	9.856-1
2980	9.461	-3.079+1	7.556	1.320+1	3.834+1	9.053-1
2990	9.464	-3.081+1	7.562	1.318+1	3.838+1	8.254-1
3000	9.467	-3.084+1	7.568	1.317+1	3.841+1	7.462-1
3010	9.471	-3.086+1	7.575	1.316+1	3.844+1	6.676-1
3020	9.474	-3.089+1	7.581	1.315+1	3.847+1	5.896-1
3030	9.477	-3.091+1	7.587	1.313+1	3.850+1	5.121-1
3040	9.480	-3.094+1	7.594	1.312+1	3.853+1	4.352-1
3050	9.483	-3.097+1	7.600	1.311+1	3.857+1	3.587-1
3060	9.487	-3.099+1	7.606	1.310+1	3.860+1	2.828-1
3070	9.490	-3.102+1	7.612	1.309+1	3.863+1	2.073-1
3080	9.493	-3.104+1	7.619	1.308+1	3.866+1	1.323-1
3090	9.496	-3.107+1	7.625	1.306+1	3.869+1	5.777-2

SPECIE CH3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	9.499	-3.109+1	7.631	1.305+1	3.872+1	-1.633-2
3110	9.502	-3.112+1	7.637	1.304+1	3.875+1	-9.028-2
3120	9.505	-3.114+1	7.643	1.303+1	3.878+1	-1.638-1
3130	9.508	-3.116+1	7.648	1.302+1	3.881+1	-2.370-1
3140	9.510	-3.119+1	7.654	1.301+1	3.884+1	-3.097-1
3150	9.513	-3.121+1	7.660	1.300+1	3.887+1	-3.821-1
3160	9.516	-3.124+1	7.665	1.298+1	3.890+1	-4.541-1
3170	9.519	-3.126+1	7.671	1.297+1	3.893+1	-5.256-1
3180	9.522	-3.128+1	7.677	1.296+1	3.896+1	-5.967-1
3190	9.524	-3.131+1	7.682	1.295+1	3.899+1	-6.674-1
3200	9.527	-3.133+1	7.687	1.294+1	3.902+1	-7.376-1
3210	9.530	-3.135+1	7.693	1.293+1	3.905+1	-8.068-1
3220	9.532	-3.138+1	7.699	1.292+1	3.908+1	-8.758-1
3230	9.535	-3.140+1	7.704	1.291+1	3.911+1	-9.442-1
3240	9.538	-3.143+1	7.710	1.290+1	3.914+1	-1.012
3250	9.540	-3.145+1	7.716	1.289+1	3.917+1	-1.079
3260	9.543	-3.147+1	7.722	1.288+1	3.920+1	-1.146
3270	9.546	-3.150+1	7.727	1.287+1	3.923+1	-1.213
3280	9.548	-3.152+1	7.733	1.286+1	3.926+1	-1.279
3290	9.551	-3.155+1	7.739	1.285+1	3.928+1	-1.344
3300	9.553	-3.157+1	7.745	1.284+1	3.931+1	-1.410
3310	9.556	-3.159+1	7.750	1.283+1	3.934+1	-1.475
3320	9.558	-3.162+1	7.756	1.282+1	3.937+1	-1.540
3330	9.561	-3.164+1	7.761	1.281+1	3.940+1	-1.604
3340	9.563	-3.166+1	7.767	1.280+1	3.943+1	-1.668
3350	9.566	-3.169+1	7.772	1.279+1	3.946+1	-1.732
3360	9.568	-3.171+1	7.777	1.278+1	3.949+1	-1.796
3370	9.571	-3.173+1	7.783	1.277+1	3.952+1	-1.858
3380	9.573	-3.176+1	7.788	1.276+1	3.954+1	-1.921
3390	9.575	-3.178+1	7.793	1.275+1	3.957+1	-1.983
3400	9.577	-3.180+1	7.798	1.274+1	3.960+1	-2.045
3410	9.580	-3.182+1	7.803	1.273+1	3.963+1	-2.106
3420	9.582	-3.185+1	7.809	1.272+1	3.966+1	-2.167
3430	9.584	-3.187+1	7.814	1.271+1	3.968+1	-2.227
3440	9.587	-3.189+1	7.819	1.270+1	3.971+1	-2.287
3450	9.589	-3.192+1	7.824	1.270+1	3.974+1	-2.347
3460	9.591	-3.194+1	7.829	1.269+1	3.977+1	-2.406
3470	9.593	-3.196+1	7.834	1.268+1	3.980+1	-2.465
3480	9.595	-3.198+1	7.840	1.267+1	3.982+1	-2.523
3490	9.598	-3.201+1	7.845	1.266+1	3.985+1	-2.581
3500	9.600	-3.203+1	7.850	1.265+1	3.988+1	-2.639
3510	9.602	-3.205+1	7.855	1.264+1	3.991+1	-2.696
3520	9.604	-3.208+1	7.860	1.263+1	3.994+1	-2.753
3530	9.606	-3.210+1	7.865	1.263+1	3.996+1	-2.810
3540	9.608	-3.212+1	7.870	1.262+1	3.999+1	-2.867
3550	9.610	-3.214+1	7.875	1.261+1	4.002+1	-2.923
3560	9.613	-3.217+1	7.880	1.260+1	4.005+1	-2.979
3570	9.615	-3.219+1	7.885	1.259+1	4.007+1	-3.034
3580	9.617	-3.221+1	7.890	1.258+1	4.010+1	-3.089
3590	9.619	-3.223+1	7.895	1.258+1	4.013+1	-3.144

SPECIE CH3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	9.621	-3.226+1	7.900	1.257+1	4.016+1	-3.199
3610	9.623	-3.228+1	7.905	1.256+1	4.018+1	-3.254
3620	9.625	-3.230+1	7.910	1.255+1	4.021+1	-3.308
3630	9.627	-3.232+1	7.914	1.254+1	4.024+1	-3.362
3640	9.629	-3.234+1	7.919	1.254+1	4.026+1	-3.415
3650	9.631	-3.237+1	7.924	1.253+1	4.029+1	-3.469
3660	9.633	-3.239+1	7.928	1.252+1	4.032+1	-3.522
3670	9.635	-3.241+1	7.933	1.251+1	4.034+1	-3.575
3680	9.636	-3.243+1	7.938	1.250+1	4.037+1	-3.627
3690	9.638	-3.245+1	7.942	1.250+1	4.039+1	-3.680
3700	9.640	-3.247+1	7.947	1.249+1	4.042+1	-3.732
3710	9.642	-3.250+1	7.951	1.248+1	4.045+1	-3.784
3720	9.644	-3.252+1	7.956	1.247+1	4.047+1	-3.836
3730	9.645	-3.254+1	7.960	1.247+1	4.050+1	-3.888
3740	9.647	-3.256+1	7.965	1.246+1	4.052+1	-3.939
3750	9.649	-3.258+1	7.969	1.245+1	4.055+1	-3.991
3760	9.650	-3.260+1	7.973	1.244+1	4.057+1	-4.042
3770	9.652	-3.262+1	7.978	1.244+1	4.060+1	-4.092
3780	9.654	-3.264+1	7.982	1.243+1	4.062+1	-4.143
3790	9.656	-3.266+1	7.986	1.242+1	4.065+1	-4.193
3800	9.657	-3.268+1	7.990	1.241+1	4.067+1	-4.243
3810	9.659	-3.270+1	7.995	1.241+1	4.070+1	-4.293
3820	9.661	-3.272+1	7.999	1.240+1	4.072+1	-4.342
3830	9.662	-3.274+1	8.003	1.239+1	4.075+1	-4.391
3840	9.664	-3.276+1	8.007	1.238+1	4.077+1	-4.440
3850	9.665	-3.278+1	8.012	1.238+1	4.080+1	-4.489
3860	9.667	-3.280+1	8.016	1.237+1	4.082+1	-4.537
3870	9.669	-3.283+1	8.020	1.236+1	4.085+1	-4.585
3880	9.670	-3.285+1	8.024	1.236+1	4.087+1	-4.633
3890	9.672	-3.287+1	8.029	1.235+1	4.089+1	-4.680
3900	9.674	-3.289+1	8.033	1.234+1	4.092+1	-4.727
3910	9.675	-3.291+1	8.037	1.234+1	4.094+1	-4.774
3920	9.677	-3.293+1	8.041	1.233+1	4.097+1	-4.820
3930	9.678	-3.295+1	8.045	1.232+1	4.099+1	-4.866
3940	9.680	-3.297+1	8.050	1.232+1	4.102+1	-4.912
3950	9.682	-3.299+1	8.054	1.231+1	4.104+1	-4.957
3960	9.683	-3.301+1	8.058	1.230+1	4.107+1	-5.002
3970	9.685	-3.303+1	8.062	1.230+1	4.109+1	-5.047
3980	9.686	-3.305+1	8.066	1.229+1	4.112+1	-5.092
3990	9.688	-3.307+1	8.071	1.228+1	4.114+1	-5.137
4000	9.689	-3.309+1	8.075	1.228+1	4.117+1	-5.181
4010	9.691	-3.311+1	8.079	1.227+1	4.119+1	-5.225
4020	9.692	-3.313+1	8.083	1.226+1	4.121+1	-5.270
4030	9.694	-3.315+1	8.087	1.226+1	4.124+1	-5.314
4040	9.695	-3.317+1	8.091	1.225+1	4.126+1	-5.357
4050	9.697	-3.319+1	8.095	1.224+1	4.129+1	-5.401
4060	9.698	-3.321+1	8.098	1.224+1	4.131+1	-5.444
4070	9.699	-3.323+1	8.102	1.223+1	4.133+1	-5.487
4080	9.701	-3.325+1	8.106	1.223+1	4.136+1	-5.529
4090	9.702	-3.327+1	8.110	1.222+1	4.138+1	-5.571

SPECIE CH3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	9.703	-3.329+1	8.114	1.331+1	4.141+1	-5.613
4110	9.705	-3.331+1	8.118	1.331+1	4.143+1	-5.654
4120	9.706	-3.333+1	8.121	1.220+1	4.146+1	-5.695
4130	9.707	-3.335+1	8.125	1.219+1	4.148+1	-5.736
4140	9.709	-3.338+1	8.129	1.219+1	4.150+1	-5.776
4150	9.710	-3.340+1	8.133	1.218+1	4.153+1	-5.816
4160	9.711	-3.342+1	8.137	1.218+1	4.155+1	-5.855
4170	9.713	-3.344+1	8.140	1.217+1	4.158+1	-5.895
4180	9.714	-3.346+1	8.144	1.216+1	4.160+1	-5.934
4190	9.715	-3.348+1	8.148	1.216+1	4.163+1	-5.973
4200	9.717	-3.350+1	8.152	1.215+1	4.165+1	-6.012
4210	9.718	-3.352+1	8.155	1.215+1	4.168+1	-6.052
4220	9.719	-3.354+1	8.159	1.214+1	4.170+1	-6.093
4230	9.720	-3.356+1	8.163	1.214+1	4.172+1	-6.134
4240	9.722	-3.358+1	8.166	1.213+1	4.174+1	-6.175
4250	9.723	-3.359+1	8.170	1.212+1	4.176+1	-6.216
4260	9.724	-3.361+1	8.174	1.212+1	4.179+1	-6.257
4270	9.725	-3.363+1	8.177	1.211+1	4.181+1	-6.297
4280	9.727	-3.365+1	8.181	1.211+1	4.183+1	-6.338
4290	9.728	-3.366+1	8.185	1.210+1	4.185+1	-6.379
4300	9.729	-3.368+1	8.188	1.210+1	4.187+1	-6.420
4310	9.730	-3.370+1	8.192	1.209+1	4.189+1	-6.458
4320	9.731	-3.372+1	8.195	1.209+1	4.191+1	-6.497
4330	9.733	-3.374+1	8.199	1.208+1	4.194+1	-6.535
4340	9.734	-3.376+1	8.203	1.208+1	4.196+1	-6.572
4350	9.735	-3.377+1	8.206	1.207+1	4.198+1	-6.609
4360	9.736	-3.379+1	8.210	1.206+1	4.200+1	-6.646
4370	9.737	-3.381+1	8.214	1.206+1	4.203+1	-6.682
4380	9.739	-3.383+1	8.217	1.205+1	4.205+1	-6.718
4390	9.740	-3.385+1	8.221	1.205+1	4.208+1	-6.754
4400	9.741	-3.387+1	8.225	1.204+1	4.210+1	-6.790
4410	9.742	-3.389+1	8.228	1.204+1	4.212+1	-6.827
4420	9.743	-3.391+1	8.231	1.203+1	4.214+1	-6.863
4430	9.744	-3.393+1	8.234	1.203+1	4.216+1	-6.900
4440	9.745	-3.395+1	8.237	1.202+1	4.219+1	-6.937
4450	9.746	-3.397+1	8.239	1.202+1	4.221+1	-6.974
4460	9.747	-3.398+1	8.242	1.201+1	4.223+1	-7.010
4470	9.748	-3.400+1	8.244	1.200+1	4.225+1	-7.047
4480	9.749	-3.402+1	8.247	1.200+1	4.227+1	-7.083
4490	9.750	-3.404+1	8.249	1.199+1	4.229+1	-7.120
4500	9.751	-3.405+1	8.251	1.199+1	4.231+1	-7.157
4510	9.752	-3.407+1	8.255	1.198+1	4.232+1	-7.198
4520	9.753	-3.408+1	8.258	1.198+1	4.234+1	-7.240
4530	9.754	-3.409+1	8.262	1.197+1	4.236+1	-7.282
4540	9.755	-3.410+1	8.266	1.197+1	4.237+1	-7.325
4550	9.757	-3.411+1	8.270	1.196+1	4.239+1	-7.368
4560	9.758	-3.412+1	8.274	1.196+1	4.240+1	-7.411
4570	9.759	-3.413+1	8.278	1.196+1	4.241+1	-7.453
4580	9.760	-3.414+1	8.282	1.195+1	4.243+1	-7.496
4590	9.761	-3.415+1	8.287	1.195+1	4.244+1	-7.537

SPECIE CH3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	9.762	-3.416+1	8.291	1.194+1	4.245+1	-7.577
4610	9.763	-3.418+1	8.295	1.194+1	4.247+1	-7.610
4620	9.764	-3.420+1	8.298	1.194+1	4.250+1	-7.640
4630	9.765	-3.422+1	8.301	1.193+1	4.252+1	-7.668
4640	9.766	-3.425+1	8.305	1.193+1	4.255+1	-7.694
4650	9.767	-3.427+1	8.308	1.192+1	4.258+1	-7.719
4660	9.768	-3.430+1	8.311	1.192+1	4.261+1	-7.742
4670	9.769	-3.433+1	8.314	1.191+1	4.264+1	-7.764
4680	9.770	-3.436+1	8.317	1.191+1	4.268+1	-7.785
4690	9.771	-3.439+1	8.319	1.190+1	4.270+1	-7.806
4700	9.772	-3.442+1	8.322	1.190+1	4.274+1	-7.826
4710	9.773	-3.444+1	8.325	1.189+1	4.276+1	-7.856
4720	9.773	-3.446+1	8.328	1.189+1	4.279+1	-7.882
4730	9.774	-3.447+1	8.331	1.188+1	4.280+1	-7.912
4740	9.775	-3.449+1	8.334	1.188+1	4.283+1	-7.943
4750	9.776	-3.451+1	8.337	1.188+1	4.285+1	-7.975
4760	9.777	-3.452+1	8.340	1.187+1	4.286+1	-8.007
4770	9.778	-3.454+1	8.343	1.187+1	4.288+1	-8.041
4780	9.779	-3.456+1	8.346	1.186+1	4.291+1	-8.075
4790	9.780	-3.458+1	8.349	1.186+1	4.292+1	-8.110
4800	9.781	-3.459+1	8.352	1.185+1	4.294+1	-8.145
4810	9.782	-3.461+1	8.355	1.185+1	4.296+1	-8.176
4820	9.782	-3.462+1	8.358	1.184+1	4.298+1	-8.206
4830	9.783	-3.464+1	8.361	1.184+1	4.300+1	-8.236
4840	9.784	-3.466+1	8.364	1.184+1	4.302+1	-8.266
4850	9.785	-3.468+1	8.367	1.183+1	4.304+1	-8.296
4860	9.786	-3.469+1	8.370	1.183+1	4.306+1	-8.325
4870	9.787	-3.471+1	8.373	1.182+1	4.309+1	-8.355
4880	9.787	-3.473+1	8.376	1.182+1	4.311+1	-8.385
4890	9.788	-3.475+1	8.379	1.182+1	4.313+1	-8.414
4900	9.789	-3.477+1	8.382	1.181+1	4.315+1	-8.443
4910	9.790	-3.478+1	8.384	1.181+1	4.317+1	-8.472
4920	9.791	-3.480+1	8.387	1.180+1	4.319+1	-8.501
4930	9.792	-3.482+1	8.390	1.180+1	4.321+1	-8.530
4940	9.792	-3.484+1	8.393	1.180+1	4.323+1	-8.559
4950	9.793	-3.485+1	8.396	1.179+1	4.325+1	-8.588
4960	9.794	-3.487+1	8.399	1.179+1	4.327+1	-8.617
4970	9.795	-3.489+1	8.401	1.178+1	4.329+1	-8.646
4980	9.795	-3.491+1	8.404	1.178+1	4.331+1	-8.674
4990	9.796	-3.492+1	8.407	1.178+1	4.333+1	-8.703
5000	9.797	-3.494+1	8.410	1.177+1	4.335+1	-8.732
5010	9.798	-3.496+1	8.413	1.177+1	4.337+1	-8.759
5020	9.798	-3.497+1	8.415	1.176+1	4.339+1	-8.785
5030	9.799	-3.499+1	8.418	1.176+1	4.341+1	-8.812
5040	9.800	-3.501+1	8.421	1.176+1	4.343+1	-8.838
5050	9.801	-3.503+1	8.424	1.175+1	4.345+1	-8.865
5060	9.802	-3.505+1	8.427	1.175+1	4.348+1	-8.891
5070	9.802	-3.507+1	8.430	1.174+1	4.350+1	-8.917
5080	9.803	-3.509+1	8.432	1.174+1	4.352+1	-8.943
5090	9.804	-3.511+1	8.435	1.174+1	4.354+1	-8.969

SPECIE CH3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	9.805	-3.512+1	8.438	1.173+1	4.356+1	-8.994
5110	9.806	-3.514+1	8.441	1.173+1	4.358+1	-9.021
5120	9.806	-3.516+1	8.443	1.173+1	4.360+1	-9.047
5130	9.807	-3.518+1	8.446	1.172+1	4.362+1	-9.074
5140	9.808	-3.519+1	8.449	1.172+1	4.364+1	-9.100
5150	9.809	-3.521+1	8.451	1.171+1	4.366+1	-9.126
5160	9.809	-3.523+1	8.454	1.171+1	4.368+1	-9.153
5170	9.810	-3.524+1	8.456	1.171+1	4.370+1	-9.179
5180	9.811	-3.526+1	8.458	1.170+1	4.372+1	-9.206
5190	9.811	-3.528+1	8.461	1.170+1	4.374+1	-9.232
5200	9.812	-3.529+1	8.463	1.170+1	4.376+1	-9.259
5210	9.813	-3.531+1	8.466	1.169+1	4.377+1	-9.286
5220	9.813	-3.532+1	8.468	1.169+1	4.379+1	-9.313
5230	9.814	-3.534+1	8.471	1.168+1	4.381+1	-9.340
5240	9.815	-3.535+1	8.473	1.168+1	4.383+1	-9.367
5250	9.815	-3.537+1	8.476	1.168+1	4.384+1	-9.395
5260	9.816	-3.538+1	8.478	1.167+1	4.386+1	-9.422
5270	9.817	-3.540+1	8.481	1.167+1	4.388+1	-9.449
5280	9.817	-3.541+1	8.484	1.167+1	4.390+1	-9.477
5290	9.818	-3.543+1	8.486	1.166+1	4.391+1	-9.505
5300	9.819	-3.544+1	8.489	1.166+1	4.393+1	-9.532
5310	9.819	-3.546+1	8.491	1.166+1	4.395+1	-9.559
5320	9.820	-3.547+1	8.494	1.165+1	4.396+1	-9.586
5330	9.820	-3.548+1	8.496	1.165+1	4.398+1	-9.613
5340	9.821	-3.550+1	8.498	1.165+1	4.400+1	-9.640
5350	9.822	-3.551+1	8.501	1.164+1	4.401+1	-9.667
5360	9.822	-3.553+1	8.503	1.164+1	4.403+1	-9.694
5370	9.823	-3.554+1	8.505	1.164+1	4.404+1	-9.720
5380	9.824	-3.555+1	8.508	1.163+1	4.406+1	-9.747
5390	9.824	-3.557+1	8.510	1.163+1	4.408+1	-9.774
5400	9.825	-3.558+1	8.512	1.162+1	4.409+1	-9.800
5410	9.825	-3.560+1	8.515	1.162+1	4.411+1	-9.826
5420	9.826	-3.561+1	8.517	1.162+1	4.413+1	-9.851
5430	9.827	-3.563+1	8.519	1.161+1	4.414+1	-9.876
5440	9.827	-3.564+1	8.522	1.161+1	4.416+1	-9.900
5450	9.828	-3.566+1	8.524	1.161+1	4.418+1	-9.925
5460	9.829	-3.567+1	8.527	1.160+1	4.420+1	-9.949
5470	9.829	-3.569+1	8.529	1.160+1	4.422+1	-9.973
5480	9.830	-3.570+1	8.531	1.160+1	4.423+1	-9.998
5490	9.830	-3.572+1	8.534	1.160+1	4.425+1	-1.002+1
5500	9.831	-3.573+1	8.536	1.159+1	4.427+1	-1.004+1
5510	9.832	-3.575+1	8.539	1.159+1	4.429+1	-1.007+1
5520	9.832	-3.576+1	8.541	1.159+1	4.431+1	-1.009+1
5530	9.833	-3.578+1	8.543	1.158+1	4.432+1	-1.012+1
5540	9.833	-3.580+1	8.546	1.158+1	4.434+1	-1.014+1
5550	9.834	-3.581+1	8.548	1.158+1	4.436+1	-1.016+1
5560	9.835	-3.583+1	8.551	1.157+1	4.438+1	-1.018+1
5570	9.835	-3.584+1	8.553	1.157+1	4.440+1	-1.021+1
5580	9.836	-3.586+1	8.555	1.157+1	4.441+1	-1.023+1
5590	9.836	-3.588+1	8.558	1.156+1	4.443+1	-1.025+1

SPECIE CH3

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	9.837	-3.589+1	8.560	1.156+1	4.445+1	-1.027+1
5610	9.838	-3.591+1	8.562	1.156+1	4.447+1	-1.030+1
5620	9.838	-3.592+1	8.565	1.156+1	4.449+1	-1.032+1
5630	9.839	-3.594+1	8.567	1.155+1	4.450+1	-1.034+1
5640	9.839	-3.595+1	8.569	1.155+1	4.452+1	-1.036+1
5650	9.840	-3.597+1	8.571	1.155+1	4.454+1	-1.039+1
5660	9.841	-3.598+1	8.574	1.154+1	4.456+1	-1.041+1
5670	9.841	-3.600+1	8.576	1.154+1	4.457+1	-1.043+1
5680	9.842	-3.601+1	8.578	1.154+1	4.459+1	-1.045+1
5690	9.842	-3.603+1	8.580	1.153+1	4.461+1	-1.047+1
5700	9.843	-3.604+1	8.583	1.153+1	4.463+1	-1.050+1
5710	9.843	-3.606+1	8.585	1.153+1	4.464+1	-1.052+1
5720	9.844	-3.608+1	8.587	1.153+1	4.466+1	-1.054+1
5730	9.844	-3.609+1	8.589	1.152+1	4.468+1	-1.056+1
5740	9.845	-3.611+1	8.592	1.152+1	4.470+1	-1.058+1
5750	9.846	-3.612+1	8.594	1.152+1	4.471+1	-1.060+1
5760	9.846	-3.614+1	8.596	1.151+1	4.473+1	-1.062+1
5770	9.847	-3.615+1	8.598	1.151+1	4.475+1	-1.065+1
5780	9.847	-3.617+1	8.601	1.151+1	4.477+1	-1.067+1
5790	9.848	-3.618+1	8.603	1.151+1	4.479+1	-1.069+1
5800	9.848	-3.620+1	8.605	1.150+1	4.480+1	-1.071+1
5810	9.849	-3.621+1	8.607	1.150+1	4.482+1	-1.073+1
5820	9.849	-3.623+1	8.609	1.150+1	4.484+1	-1.075+1
5830	9.850	-3.624+1	8.612	1.149+1	4.486+1	-1.077+1
5840	9.850	-3.626+1	8.614	1.149+1	4.487+1	-1.079+1
5850	9.851	-3.627+1	8.616	1.149+1	4.489+1	-1.081+1
5860	9.851	-3.629+1	8.618	1.149+1	4.491+1	-1.083+1
5870	9.852	-3.630+1	8.620	1.148+1	4.492+1	-1.085+1
5880	9.852	-3.632+1	8.622	1.148+1	4.494+1	-1.087+1
5890	9.853	-3.633+1	8.624	1.148+1	4.496+1	-1.090+1
5900	9.853	-3.635+1	8.626	1.147+1	4.497+1	-1.092+1
5910	9.853	-3.636+1	8.628	1.147+1	4.499+1	-1.094+1
5920	9.853	-3.638+1	8.630	1.147+1	4.501+1	-1.096+1
5930	9.854	-3.639+1	8.632	1.147+1	4.502+1	-1.098+1
5940	9.854	-3.640+1	8.634	1.146+1	4.504+1	-1.100+1
5950	9.854	-3.642+1	8.636	1.146+1	4.505+1	-1.102+1
5960	9.854	-3.643+1	8.638	1.146+1	4.507+1	-1.104+1
5970	9.854	-3.644+1	8.640	1.145+1	4.508+1	-1.106+1
5980	9.854	-3.646+1	8.641	1.145+1	4.510+1	-1.108+1
5990	9.854	-3.647+1	8.643	1.145+1	4.511+1	-1.110+1
6000	9.854	-3.648+1	8.645	1.145+1	4.513+1	-1.113+1

SPECIE CH4

MOLECULAR WEIGHT EQUALS 16.0434

DELTA E ZERO EQUALS -15.987 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(NBS 500, 2/1/52) (10)

THERMAL

(J. S. GURDON WADC TR 57-33, 1/57) (4)
(S. F. SARNER, GER59FPD796V.3, 6/14/60) (12)

SPECIE CH4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	4.000	-1.397+1	3.998	-7.645+1	1.797+1	9.168+2
110	3.999	-1.433+1	3.999	-7.032+1	1.833+1	8.453+2
120	3.998	-1.467+1	3.999	-6.475+1	1.867+1	7.804+2
130	3.997	-1.498+1	4.000	-5.972+1	1.898+1	7.217+2
140	3.997	-1.528+1	4.000	-5.519+1	1.928+1	6.687+2
150	3.997	-1.556+1	4.000	-5.110+1	1.956+1	6.210+2
160	3.999	-1.583+1	4.000	-4.743+1	1.983+1	5.781+2
170	4.003	-1.608+1	4.000	-4.414+1	2.008+1	5.397+2
180	4.009	-1.631+1	4.000	-4.120+1	2.031+1	5.053+2
190	4.016	-1.654+1	4.000	-3.857+1	2.054+1	4.745+2
200	4.027	-1.674+1	4.002	-3.622+1	2.075+1	4.470+2
210	4.040	-1.694+1	4.004	-3.413+1	2.095+1	4.226+2
220	4.055	-1.713+1	4.005	-3.227+1	2.114+1	4.007+2
230	4.074	-1.731+1	4.008	-3.061+1	2.132+1	3.812+2
240	4.096	-1.748+1	4.011	-2.912+1	2.149+1	3.638+2
250	4.121	-1.765+1	4.015	-2.779+1	2.166+1	3.482+2
260	4.149	-1.780+1	4.020	-2.659+1	2.182+1	3.341+2
270	4.181	-1.795+1	4.025	-2.551+1	2.198+1	3.214+2
280	4.216	-1.810+1	4.031	-2.452+1	2.213+1	3.098+2
290	4.255	-1.824+1	4.038	-2.361+1	2.228+1	2.992+2
300	4.296	-1.837+1	4.046	-2.277+1	2.242+1	2.893+2
310	4.344	-1.851+1	4.055	-2.188+1	2.256+1	2.789+2
320	4.395	-1.863+1	4.066	-2.104+1	2.270+1	2.691+2
330	4.448	-1.876+1	4.077	-2.026+1	2.284+1	2.600+2
340	4.503	-1.888+1	4.088	-1.953+1	2.297+1	2.514+2
350	4.561	-1.900+1	4.101	-1.884+1	2.310+1	2.434+2
360	4.621	-1.912+1	4.115	-1.819+1	2.323+1	2.359+2
370	4.682	-1.923+1	4.129	-1.758+1	2.336+1	2.288+2
380	4.745	-1.934+1	4.144	-1.701+1	2.348+1	2.221+2
390	4.810	-1.945+1	4.160	-1.646+1	2.361+1	2.158+2
400	4.876	-1.955+1	4.177	-1.594+1	2.373+1	2.098+2
410	4.943	-1.966+1	4.194	-1.544+1	2.385+1	2.041+2
420	5.011	-1.976+1	4.213	-1.496+1	2.397+1	1.986+2
430	5.079	-1.985+1	4.232	-1.451+1	2.409+1	1.934+2
440	5.149	-1.995+1	4.252	-1.406+1	2.421+1	1.884+2
450	5.219	-2.005+1	4.273	-1.364+1	2.432+1	1.836+2
460	5.290	-2.014+1	4.294	-1.323+1	2.444+1	1.789+2
470	5.361	-2.023+1	4.316	-1.283+1	2.455+1	1.744+2
480	5.432	-2.033+1	4.339	-1.244+1	2.467+1	1.701+2
490	5.504	-2.042+1	4.362	-1.207+1	2.478+1	1.659+2
500	5.576	-2.050+1	4.386	-1.170+1	2.489+1	1.618+2
510	5.646	-2.059+1	4.410	-1.137+1	2.500+1	1.581+2
520	5.717	-2.068+1	4.435	-1.104+1	2.511+1	1.545+2
530	5.791	-2.076+1	4.460	-1.073+1	2.522+1	1.510+2
540	5.862	-2.085+1	4.485	-1.042+1	2.533+1	1.477+2
550	5.934	-2.093+1	4.511	-1.012+1	2.544+1	1.444+2
560	6.005	-2.101+1	4.537	-9.837	2.555+1	1.413+2
570	6.075	-2.109+1	4.563	-9.558	2.565+1	1.383+2
580	6.142	-2.117+1	4.590	-9.286	2.576+1	1.353+2
590	6.214	-2.125+1	4.617	-9.021	2.587+1	1.325+2

SPECIE CH4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	6.285	-2.133+1	4.645	-8.764	2.597+1	1.297+2
610	6.354	-2.140+1	4.672	-8.517	2.608+1	1.271+2
620	6.422	-2.148+1	4.700	-8.277	2.618+1	1.246+2
630	6.490	-2.156+1	4.728	-8.044	2.628+1	1.221+2
640	6.558	-2.163+1	4.756	-7.817	2.639+1	1.197+2
650	6.625	-2.170+1	4.784	-7.595	2.649+1	1.174+2
660	6.692	-2.178+1	4.813	-7.379	2.659+1	1.151+2
670	6.758	-2.185+1	4.841	-7.168	2.669+1	1.129+2
680	6.824	-2.192+1	4.870	-6.963	2.679+1	1.108+2
690	6.889	-2.199+1	4.899	-6.761	2.689+1	1.087+2
700	6.954	-2.206+1	4.928	-6.565	2.699+1	1.067+2
710	7.019	-2.213+1	4.957	-6.374	2.709+1	1.048+2
720	7.082	-2.220+1	4.986	-6.188	2.719+1	1.029+2
730	7.146	-2.227+1	5.015	-6.006	2.729+1	1.010+2
740	7.208	-2.234+1	5.044	-5.828	2.739+1	9.925+1
750	7.271	-2.241+1	5.074	-5.654	2.748+1	9.751+1
760	7.332	-2.248+1	5.103	-5.483	2.758+1	9.581+1
770	7.393	-2.254+1	5.132	-5.316	2.768+1	9.415+1
780	7.454	-2.261+1	5.161	-5.153	2.777+1	9.253+1
790	7.514	-2.268+1	5.191	-4.993	2.787+1	9.095+1
800	7.573	-2.274+1	5.221	-4.835	2.796+1	8.941+1
810	7.632	-2.281+1	5.250	-4.682	2.806+1	8.792+1
820	7.689	-2.287+1	5.279	-4.532	2.815+1	8.646+1
830	7.747	-2.293+1	5.309	-4.384	2.824+1	8.503+1
840	7.803	-2.300+1	5.338	-4.239	2.834+1	8.364+1
850	7.859	-2.306+1	5.367	-4.097	2.843+1	8.228+1
860	7.915	-2.313+1	5.397	-3.958	2.852+1	8.095+1
870	7.970	-2.319+1	5.426	-3.821	2.861+1	7.966+1
880	8.024	-2.325+1	5.455	-3.687	2.871+1	7.839+1
890	8.078	-2.331+1	5.485	-3.555	2.880+1	7.714+1
900	8.132	-2.337+1	5.514	-3.425	2.889+1	7.593+1
910	8.185	-2.343+1	5.543	-3.297	2.898+1	7.474+1
920	8.238	-2.349+1	5.572	-3.172	2.907+1	7.358+1
930	8.290	-2.356+1	5.601	-3.049	2.916+1	7.245+1
940	8.342	-2.362+1	5.630	-2.928	2.925+1	7.133+1
950	8.393	-2.367+1	5.659	-2.810	2.933+1	7.025+1
960	8.443	-2.373+1	5.688	-2.693	2.942+1	6.918+1
970	8.493	-2.379+1	5.716	-2.578	2.951+1	6.813+1
980	8.543	-2.385+1	5.745	-2.464	2.960+1	6.711+1
990	8.592	-2.391+1	5.773	-2.353	2.968+1	6.611+1
1000	8.640	-2.397+1	5.802	-2.243	2.977+1	6.512+1
1010	8.687	-2.403+1	5.830	-2.135	2.986+1	6.416+1
1020	8.734	-2.408+1	5.859	-2.029	2.994+1	6.321+1
1030	8.780	-2.414+1	5.887	-1.924	3.003+1	6.229+1
1040	8.826	-2.420+1	5.915	-1.821	3.011+1	6.138+1
1050	8.871	-2.426+1	5.943	-1.719	3.020+1	6.049+1
1060	8.915	-2.431+1	5.971	-1.619	3.028+1	5.961+1
1070	8.959	-2.437+1	5.998	-1.521	3.037+1	5.875+1
1080	9.003	-2.442+1	6.026	-1.423	3.045+1	5.791+1
1090	9.046	-2.448+1	6.053	-1.327	3.053+1	5.708+1

SPECIE CH4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	9.088	-2.453+1	6.081	-1.233	3.062+1	5.627+1
1110	9.130	-2.459+1	6.108	-1.140	3.070+1	5.547+1
1120	9.171	-2.465+1	6.135	-1.048	3.078+1	5.468+1
1130	9.212	-2.470+1	6.162	-9.573-1	3.086+1	5.391+1
1140	9.253	-2.475+1	6.189	-8.679-1	3.094+1	5.316+1
1150	9.293	-2.481+1	6.216	-7.797-1	3.102+1	5.241+1
1160	9.332	-2.486+1	6.243	-6.928-1	3.111+1	5.168+1
1170	9.371	-2.492+1	6.269	-6.069-1	3.119+1	5.097+1
1180	9.410	-2.497+1	6.296	-5.222-1	3.127+1	5.026+1
1190	9.448	-2.502+1	6.322	-4.386-1	3.134+1	4.957+1
1200	9.485	-2.508+1	6.348	-3.560-1	3.142+1	4.888+1
1210	9.522	-2.513+1	6.374	-2.745-1	3.150+1	4.821+1
1220	9.559	-2.518+1	6.400	-1.941-1	3.158+1	4.755+1
1230	9.594	-2.523+1	6.426	-1.146-1	3.166+1	4.690+1
1240	9.630	-2.529+1	6.452	-3.617-2	3.174+1	4.626+1
1250	9.665	-2.534+1	6.477	4.133-2	3.182+1	4.563+1
1260	9.699	-2.539+1	6.503	1.179-1	3.189+1	4.502+1
1270	9.733	-2.544+1	6.528	1.935-1	3.197+1	4.441+1
1280	9.767	-2.549+1	6.553	2.682-1	3.205+1	4.381+1
1290	9.800	-2.554+1	6.578	3.420-1	3.212+1	4.321+1
1300	9.833	-2.559+1	6.603	4.150-1	3.220+1	4.263+1
1310	9.865	-2.564+1	6.628	4.870-1	3.227+1	4.206+1
1320	9.897	-2.570+1	6.653	5.581-1	3.235+1	4.150+1
1330	9.929	-2.575+1	6.677	6.285-1	3.242+1	4.094+1
1340	9.960	-2.580+1	6.702	6.980-1	3.250+1	4.039+1
1350	9.991	-2.585+1	6.726	7.667-1	3.257+1	3.985+1
1360	1.002+1	-2.590+1	6.750	8.346-1	3.265+1	3.932+1
1370	1.005+1	-2.595+1	6.774	9.018-1	3.272+1	3.880+1
1380	1.008+1	-2.599+1	6.798	9.682-1	3.279+1	3.828+1
1390	1.011+1	-2.604+1	6.822	1.034	3.286+1	3.777+1
1400	1.014+1	-2.609+1	6.845	1.099	3.294+1	3.727+1
1410	1.017+1	-2.614+1	6.869	1.163	3.301+1	3.678+1
1420	1.020+1	-2.619+1	6.892	1.227	3.308+1	3.629+1
1430	1.022+1	-2.624+1	6.915	1.289	3.315+1	3.581+1
1440	1.025+1	-2.629+1	6.939	1.352	3.323+1	3.534+1
1450	1.028+1	-2.633+1	6.961	1.413	3.330+1	3.487+1
1460	1.031+1	-2.638+1	6.984	1.474	3.337+1	3.441+1
1470	1.033+1	-2.643+1	7.007	1.534	3.344+1	3.396+1
1480	1.036+1	-2.648+1	7.030	1.594	3.351+1	3.351+1
1490	1.039+1	-2.653+1	7.052	1.653	3.358+1	3.306+1
1500	1.041+1	-2.657+1	7.075	1.711	3.365+1	3.263+1
1510	1.044+1	-2.662+1	7.097	1.769	3.372+1	3.220+1
1520	1.046+1	-2.667+1	7.119	1.826	3.379+1	3.177+1
1530	1.049+1	-2.671+1	7.141	1.883	3.385+1	3.135+1
1540	1.051+1	-2.676+1	7.163	1.939	3.392+1	3.094+1
1550	1.053+1	-2.681+1	7.184	1.994	3.399+1	3.053+1
1560	1.056+1	-2.685+1	7.206	2.049	3.406+1	3.013+1
1570	1.058+1	-2.690+1	7.227	2.103	3.413+1	2.973+1
1580	1.060+1	-2.694+1	7.248	2.157	3.419+1	2.934+1
1590	1.063+1	-2.699+1	7.270	2.210	3.426+1	2.895+1

SPECIE CH4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	1.065+1	-2.704+1	7.291	2.263	3.433+1	2.857+1
1610	1.067+1	-2.708+1	7.312	2.315	3.439+1	2.819+1
1620	1.069+1	-2.713+1	7.332	2.366	3.446+1	2.781+1
1630	1.071+1	-2.717+1	7.353	2.418	3.453+1	2.745+1
1640	1.074+1	-2.722+1	7.374	2.468	3.459+1	2.708+1
1650	1.076+1	-2.726+1	7.394	2.518	3.466+1	2.672+1
1660	1.078+1	-2.731+1	7.414	2.568	3.472+1	2.636+1
1670	1.080+1	-2.735+1	7.435	2.617	3.479+1	2.601+1
1680	1.082+1	-2.740+1	7.455	2.666	3.485+1	2.567+1
1690	1.084+1	-2.744+1	7.475	2.714	3.491+1	2.532+1
1700	1.086+1	-2.748+1	7.495	2.762	3.498+1	2.498+1
1710	1.088+1	-2.753+1	7.514	2.810	3.504+1	2.465+1
1720	1.090+1	-2.757+1	7.534	2.857	3.511+1	2.432+1
1730	1.092+1	-2.762+1	7.554	2.903	3.517+1	2.399+1
1740	1.094+1	-2.766+1	7.573	2.949	3.523+1	2.366+1
1750	1.096+1	-2.770+1	7.592	2.995	3.530+1	2.335+1
1760	1.097+1	-2.775+1	7.611	3.040	3.536+1	2.303+1
1770	1.099+1	-2.779+1	7.630	3.085	3.542+1	2.272+1
1780	1.101+1	-2.783+1	7.649	3.130	3.548+1	2.241+1
1790	1.103+1	-2.788+1	7.668	3.174	3.554+1	2.210+1
1800	1.105+1	-2.792+1	7.687	3.217	3.560+1	2.180+1
1810	1.106+1	-2.796+1	7.706	3.261	3.567+1	2.150+1
1820	1.108+1	-2.800+1	7.724	3.304	3.573+1	2.120+1
1830	1.110+1	-2.805+1	7.742	3.346	3.579+1	2.091+1
1840	1.111+1	-2.809+1	7.761	3.388	3.585+1	2.062+1
1850	1.113+1	-2.813+1	7.779	3.430	3.591+1	2.034+1
1860	1.114+1	-2.817+1	7.797	3.472	3.597+1	2.005+1
1870	1.116+1	-2.821+1	7.815	3.513	3.603+1	1.977+1
1880	1.118+1	-2.826+1	7.833	3.553	3.609+1	1.949+1
1890	1.119+1	-2.830+1	7.851	3.594	3.615+1	1.922+1
1900	1.121+1	-2.834+1	7.868	3.634	3.621+1	1.895+1
1910	1.122+1	-2.838+1	7.886	3.674	3.627+1	1.868+1
1920	1.124+1	-2.842+1	7.903	3.713	3.632+1	1.842+1
1930	1.125+1	-2.846+1	7.920	3.752	3.638+1	1.815+1
1940	1.127+1	-2.850+1	7.938	3.791	3.644+1	1.789+1
1950	1.128+1	-2.854+1	7.955	3.829	3.650+1	1.764+1
1960	1.130+1	-2.859+1	7.972	3.867	3.656+1	1.738+1
1970	1.131+1	-2.863+1	7.989	3.905	3.661+1	1.713+1
1980	1.132+1	-2.867+1	8.006	3.942	3.667+1	1.688+1
1990	1.134+1	-2.871+1	8.022	3.979	3.673+1	1.663+1
2000	1.135+1	-2.875+1	8.039	4.016	3.679+1	1.639+1
2010	1.137+1	-2.879+1	8.055	4.053	3.684+1	1.615+1
2020	1.138+1	-2.883+1	8.072	4.089	3.690+1	1.591+1
2030	1.139+1	-2.887+1	8.088	4.125	3.695+1	1.567+1
2040	1.141+1	-2.891+1	8.104	4.161	3.701+1	1.543+1
2050	1.142+1	-2.895+1	8.121	4.196	3.707+1	1.520+1
2060	1.143+1	-2.899+1	8.137	4.231	3.712+1	1.497+1
2070	1.145+1	-2.903+1	8.153	4.266	3.718+1	1.474+1
2080	1.146+1	-2.906+1	8.169	4.301	3.723+1	1.452+1
2090	1.147+1	-2.910+1	8.184	4.335	3.729+1	1.429+1

SPECIE CH4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	1.148+1	-2.914+1	8.200	4.369	3.734+1	1.407+1
2110	1.150+1	-2.918+1	8.206	4.403	3.740+1	1.385+1
2120	1.151+1	-2.922+1	8.231	4.436	3.745+1	1.363+1
2130	1.152+1	-2.926+1	8.247	4.469	3.751+1	1.342+1
2140	1.153+1	-2.930+1	8.262	4.502	3.756+1	1.320+1
2150	1.154+1	-2.934+1	8.277	4.535	3.761+1	1.299+1
2160	1.155+1	-2.938+1	8.292	4.568	3.767+1	1.278+1
2170	1.157+1	-2.941+1	8.307	4.600	3.772+1	1.258+1
2180	1.158+1	-2.945+1	8.322	4.632	3.777+1	1.237+1
2190	1.159+1	-2.949+1	8.337	4.664	3.783+1	1.217+1
2200	1.160+1	-2.953+1	8.352	4.695	3.788+1	1.196+1
2210	1.161+1	-2.957+1	8.367	4.726	3.793+1	1.176+1
2220	1.162+1	-2.960+1	8.381	4.757	3.798+1	1.157+1
2230	1.163+1	-2.964+1	8.396	4.788	3.804+1	1.137+1
2240	1.164+1	-2.968+1	8.410	4.819	3.809+1	1.118+1
2250	1.165+1	-2.972+1	8.425	4.849	3.814+1	1.098+1
2260	1.166+1	-2.975+1	8.439	4.879	3.819+1	1.079+1
2270	1.167+1	-2.979+1	8.453	4.909	3.824+1	1.060+1
2280	1.168+1	-2.983+1	8.467	4.939	3.830+1	1.042+1
2290	1.169+1	-2.987+1	8.482	4.968	3.835+1	1.023+1
2300	1.170+1	-2.990+1	8.496	4.998	3.840+1	1.004+1
2310	1.171+1	-2.994+1	8.509	5.027	3.845+1	9.862
2320	1.172+1	-2.998+1	8.523	5.056	3.850+1	9.681
2330	1.173+1	-3.001+1	8.537	5.084	3.855+1	9.501
2340	1.174+1	-3.005+1	8.551	5.113	3.860+1	9.323
2350	1.175+1	-3.009+1	8.564	5.141	3.865+1	9.146
2360	1.176+1	-3.012+1	8.578	5.169	3.870+1	8.971
2370	1.177+1	-3.016+1	8.591	5.197	3.875+1	8.797
2380	1.178+1	-3.019+1	8.605	5.224	3.880+1	8.625
2390	1.179+1	-3.023+1	8.618	5.252	3.885+1	8.455
2400	1.180+1	-3.027+1	8.631	5.279	3.890+1	8.286
2410	1.180+1	-3.030+1	8.644	5.306	3.895+1	8.118
2420	1.181+1	-3.034+1	8.657	5.333	3.900+1	7.952
2430	1.182+1	-3.037+1	8.670	5.360	3.904+1	7.787
2440	1.183+1	-3.041+1	8.683	5.386	3.909+1	7.623
2450	1.184+1	-3.045+1	8.696	5.413	3.914+1	7.461
2460	1.185+1	-3.048+1	8.709	5.439	3.919+1	7.300
2470	1.185+1	-3.052+1	8.722	5.465	3.924+1	7.141
2480	1.186+1	-3.055+1	8.734	5.490	3.929+1	6.983
2490	1.187+1	-3.059+1	8.747	5.516	3.933+1	6.826
2500	1.188+1	-3.062+1	8.759	5.541	3.938+1	6.670
2510	1.188+1	-3.066+1	8.772	5.567	3.943+1	6.515
2520	1.189+1	-3.069+1	8.784	5.592	3.948+1	6.362
2530	1.190+1	-3.073+1	8.797	5.617	3.952+1	6.209
2540	1.191+1	-3.076+1	8.809	5.642	3.957+1	6.058
2550	1.191+1	-3.080+1	8.821	5.666	3.962+1	5.908
2560	1.192+1	-3.083+1	8.833	5.691	3.966+1	5.759
2570	1.193+1	-3.086+1	8.845	5.715	3.971+1	5.612
2580	1.194+1	-3.090+1	8.857	5.739	3.976+1	5.465
2590	1.194+1	-3.093+1	8.869	5.763	3.980+1	5.320

SPECIE CH4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	1.195+1	-3.097+1	8.881	5.787	3.985+1	5.176
2610	1.196+1	-3.100+1	8.893	5.810	3.989+1	5.033
2620	1.197+1	-3.104+1	8.904	5.834	3.994+1	4.891
2630	1.197+1	-3.107+1	8.916	5.857	3.999+1	4.751
2640	1.198+1	-3.110+1	8.928	5.880	4.003+1	4.611
2650	1.199+1	-3.114+1	8.939	5.903	4.008+1	4.473
2660	1.199+1	-3.117+1	8.951	5.926	4.012+1	4.336
2670	1.200+1	-3.120+1	8.962	5.949	4.017+1	4.199
2680	1.201+1	-3.124+1	8.974	5.972	4.021+1	4.064
2690	1.201+1	-3.127+1	8.985	5.994	4.026+1	3.930
2700	1.202+1	-3.131+1	8.996	6.016	4.030+1	3.797
2710	1.203+1	-3.134+1	9.007	6.039	4.035+1	3.665
2720	1.203+1	-3.137+1	9.018	6.061	4.039+1	3.533
2730	1.204+1	-3.140+1	9.030	6.083	4.043+1	3.403
2740	1.205+1	-3.144+1	9.041	6.104	4.048+1	3.274
2750	1.205+1	-3.147+1	9.051	6.126	4.052+1	3.145
2760	1.206+1	-3.150+1	9.062	6.147	4.057+1	3.018
2770	1.206+1	-3.154+1	9.073	6.169	4.061+1	2.891
2780	1.207+1	-3.157+1	9.084	6.190	4.065+1	2.765
2790	1.208+1	-3.160+1	9.095	6.211	4.070+1	2.640
2800	1.208+1	-3.163+1	9.105	6.232	4.074+1	2.516
2810	1.209+1	-3.167+1	9.116	6.253	4.078+1	2.393
2820	1.209+1	-3.170+1	9.127	6.274	4.083+1	2.271
2830	1.210+1	-3.173+1	9.137	6.294	4.087+1	2.150
2840	1.211+1	-3.176+1	9.148	6.315	4.091+1	2.029
2850	1.211+1	-3.180+1	9.158	6.335	4.095+1	1.910
2860	1.212+1	-3.183+1	9.168	6.355	4.100+1	1.791
2870	1.212+1	-3.186+1	9.179	6.376	4.104+1	1.673
2880	1.213+1	-3.189+1	9.189	6.396	4.108+1	1.556
2890	1.214+1	-3.192+1	9.199	6.415	4.112+1	1.440
2900	1.214+1	-3.196+1	9.209	6.435	4.116+1	1.325
2910	1.215+1	-3.199+1	9.219	6.455	4.121+1	1.210
2920	1.215+1	-3.202+1	9.229	6.474	4.125+1	1.096
2930	1.216+1	-3.205+1	9.239	6.494	4.129+1	9.836-1
2940	1.216+1	-3.208+1	9.249	6.513	4.133+1	8.715-1
2950	1.217+1	-3.211+1	9.259	6.532	4.137+1	7.602-1
2960	1.217+1	-3.214+1	9.269	6.551	4.141+1	6.497-1
2970	1.218+1	-3.218+1	9.279	6.570	4.145+1	5.400-1
2980	1.218+1	-3.221+1	9.289	6.589	4.150+1	4.310-1
2990	1.219+1	-3.224+1	9.298	6.608	4.154+1	3.227-1
3000	1.219+1	-3.227+1	9.308	6.626	4.158+1	2.152-1
3010	1.220+1	-3.230+1	9.317	6.645	4.162+1	1.082-1
3020	1.220+1	-3.233+1	9.327	6.663	4.166+1	2.035-3
3030	1.221+1	-3.236+1	9.337	6.681	4.170+1	-1.035-1
3040	1.221+1	-3.239+1	9.346	6.700	4.174+1	-2.084-1
3050	1.222+1	-3.242+1	9.355	6.718	4.178+1	-3.126-1
3060	1.222+1	-3.245+1	9.365	6.736	4.182+1	-4.162-1
3070	1.222+1	-3.249+1	9.374	6.754	4.186+1	-5.190-1
3080	1.223+1	-3.252+1	9.383	6.771	4.190+1	-6.213-1
3090	1.223+1	-3.255+1	9.393	6.789	4.194+1	-7.229-1

SPECIE CH4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	1.224+1	-3.258+1	9.402	6.807	4.198+1	-8.238-1
3110	1.224+1	-3.261+1	9.411	6.824	4.202+1	-9.240-1
3120	1.225+1	-3.264+1	9.420	6.841	4.206+1	-1.024
3130	1.225+1	-3.267+1	9.429	6.859	4.210+1	-1.122
3140	1.226+1	-3.270+1	9.438	6.876	4.214+1	-1.221
3150	1.226+1	-3.273+1	9.447	6.893	4.217+1	-1.318
3160	1.227+1	-3.276+1	9.456	6.910	4.221+1	-1.415
3170	1.227+1	-3.279+1	9.465	6.927	4.225+1	-1.512
3180	1.227+1	-3.282+1	9.474	6.944	4.229+1	-1.608
3190	1.228+1	-3.285+1	9.483	6.961	4.233+1	-1.703
3200	1.228+1	-3.288+1	9.491	6.977	4.237+1	-1.797
3210	1.229+1	-3.291+1	9.500	6.994	4.241+1	-1.891
3220	1.229+1	-3.294+1	9.509	7.010	4.244+1	-1.985
3230	1.230+1	-3.296+1	9.517	7.027	4.248+1	-2.077
3240	1.230+1	-3.299+1	9.526	7.043	4.252+1	-2.170
3250	1.230+1	-3.302+1	9.534	7.059	4.256+1	-2.261
3260	1.231+1	-3.305+1	9.543	7.075	4.260+1	-2.352
3270	1.231+1	-3.308+1	9.551	7.091	4.263+1	-2.443
3280	1.232+1	-3.311+1	9.560	7.107	4.267+1	-2.533
3290	1.232+1	-3.314+1	9.568	7.123	4.271+1	-2.622
3300	1.232+1	-3.317+1	9.577	7.139	4.275+1	-2.711
3310	1.233+1	-3.320+1	9.585	7.154	4.278+1	-2.800
3320	1.233+1	-3.323+1	9.593	7.170	4.282+1	-2.888
3330	1.233+1	-3.326+1	9.601	7.185	4.286+1	-2.975
3340	1.234+1	-3.329+1	9.610	7.201	4.289+1	-3.062
3350	1.234+1	-3.331+1	9.618	7.216	4.293+1	-3.148
3360	1.234+1	-3.334+1	9.626	7.231	4.297+1	-3.234
3370	1.235+1	-3.337+1	9.634	7.247	4.301+1	-3.319
3380	1.235+1	-3.340+1	9.642	7.262	4.304+1	-3.404
3390	1.236+1	-3.343+1	9.650	7.277	4.308+1	-3.488
3400	1.236+1	-3.346+1	9.658	7.292	4.311+1	-3.572
3410	1.236+1	-3.348+1	9.666	7.307	4.315+1	-3.655
3420	1.237+1	-3.351+1	9.674	7.321	4.319+1	-3.738
3430	1.237+1	-3.354+1	9.682	7.336	4.322+1	-3.820
3440	1.237+1	-3.357+1	9.689	7.351	4.326+1	-3.901
3450	1.238+1	-3.360+1	9.697	7.365	4.329+1	-3.982
3460	1.238+1	-3.363+1	9.705	7.380	4.333+1	-4.063
3470	1.238+1	-3.365+1	9.713	7.394	4.337+1	-4.143
3480	1.239+1	-3.368+1	9.720	7.409	4.340+1	-4.222
3490	1.239+1	-3.371+1	9.728	7.423	4.344+1	-4.301
3500	1.239+1	-3.374+1	9.736	7.437	4.347+1	-4.380
3510	1.240+1	-3.377+1	9.743	7.451	4.351+1	-4.458
3520	1.240+1	-3.379+1	9.751	7.465	4.354+1	-4.536
3530	1.240+1	-3.382+1	9.758	7.479	4.358+1	-4.614
3540	1.241+1	-3.385+1	9.766	7.493	4.361+1	-4.691
3550	1.241+1	-3.388+1	9.773	7.507	4.365+1	-4.767
3560	1.241+1	-3.390+1	9.781	7.521	4.368+1	-4.843
3570	1.242+1	-3.393+1	9.788	7.535	4.372+1	-4.919
3580	1.242+1	-3.396+1	9.795	7.548	4.375+1	-4.994
3590	1.242+1	-3.399+1	9.803	7.562	4.379+1	-5.069

SPECIE CH4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	1.242+1	-3.401+1	9.810	7.575	4.382+1	-5.144
3610	1.243+1	-3.404+1	9.817	7.589	4.386+1	-5.218
3620	1.243+1	-3.407+1	9.825	7.602	4.389+1	-5.292
3630	1.243+1	-3.409+1	9.832	7.615	4.393+1	-5.365
3640	1.244+1	-3.412+1	9.839	7.629	4.396+1	-5.438
3650	1.244+1	-3.415+1	9.846	7.642	4.399+1	-5.510
3660	1.244+1	-3.418+1	9.853	7.655	4.403+1	-5.583
3670	1.245+1	-3.420+1	9.860	7.668	4.406+1	-5.654
3680	1.245+1	-3.423+1	9.867	7.681	4.410+1	-5.726
3690	1.245+1	-3.426+1	9.874	7.694	4.413+1	-5.797
3700	1.245+1	-3.428+1	9.881	7.707	4.416+1	-5.867
3710	1.246+1	-3.431+1	9.888	7.720	4.420+1	-5.937
3720	1.246+1	-3.434+1	9.895	7.732	4.423+1	-6.007
3730	1.246+1	-3.436+1	9.902	7.745	4.426+1	-6.076
3740	1.246+1	-3.439+1	9.909	7.758	4.430+1	-6.145
3750	1.247+1	-3.442+1	9.916	7.770	4.433+1	-6.214
3760	1.247+1	-3.444+1	9.922	7.783	4.436+1	-6.282
3770	1.247+1	-3.447+1	9.929	7.795	4.440+1	-6.350
3780	1.247+1	-3.449+1	9.936	7.808	4.443+1	-6.417
3790	1.248+1	-3.452+1	9.943	7.820	4.446+1	-6.484
3800	1.248+1	-3.455+1	9.949	7.832	4.450+1	-6.551
3810	1.248+1	-3.457+1	9.956	7.844	4.453+1	-6.618
3820	1.248+1	-3.460+1	9.962	7.856	4.456+1	-6.684
3830	1.249+1	-3.463+1	9.969	7.869	4.459+1	-6.750
3840	1.249+1	-3.465+1	9.976	7.881	4.463+1	-6.816
3850	1.249+1	-3.468+1	9.982	7.893	4.466+1	-6.881
3860	1.249+1	-3.470+1	9.989	7.905	4.469+1	-6.946
3870	1.250+1	-3.473+1	9.995	7.916	4.472+1	-7.011
3880	1.250+1	-3.476+1	1.000+1	7.928	4.476+1	-7.075
3890	1.250+1	-3.478+1	1.001+1	7.940	4.479+1	-7.139
3900	1.250+1	-3.481+1	1.001+1	7.952	4.482+1	-7.202
3910	1.251+1	-3.483+1	1.002+1	7.963	4.485+1	-7.265
3920	1.251+1	-3.486+1	1.003+1	7.975	4.488+1	-7.328
3930	1.251+1	-3.488+1	1.003+1	7.986	4.492+1	-7.390
3940	1.251+1	-3.491+1	1.004+1	7.998	4.495+1	-7.452
3950	1.252+1	-3.493+1	1.005+1	8.009	4.498+1	-7.514
3960	1.252+1	-3.496+1	1.005+1	8.021	4.501+1	-7.575
3970	1.252+1	-3.499+1	1.006+1	8.032	4.504+1	-7.636
3980	1.252+1	-3.501+1	1.006+1	8.043	4.508+1	-7.697
3990	1.253+1	-3.504+1	1.007+1	8.055	4.511+1	-7.757
4000	1.253+1	-3.506+1	1.008+1	8.066	4.514+1	-7.817
4010	1.253+1	-3.509+1	1.008+1	8.077	4.517+1	-7.877
4020	1.253+1	-3.511+1	1.009+1	8.088	4.520+1	-7.937
4030	1.254+1	-3.514+1	1.010+1	8.099	4.523+1	-7.996
4040	1.254+1	-3.516+1	1.010+1	8.110	4.526+1	-8.055
4050	1.254+1	-3.519+1	1.011+1	8.121	4.529+1	-8.114
4060	1.254+1	-3.521+1	1.011+1	8.132	4.532+1	-8.172
4070	1.254+1	-3.524+1	1.012+1	8.143	4.536+1	-8.230
4080	1.255+1	-3.526+1	1.013+1	8.154	4.539+1	-8.288
4090	1.255+1	-3.529+1	1.013+1	8.164	4.542+1	-8.346

SPECIE CH4.

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	1.255+1	-3.531+1	1.014+1	8.175	4.545+1	-8.403
4110	1.255+1	-3.533+1	1.014+1	8.186	4.548+1	-8.460
4120	1.255+1	-3.536+1	1.015+1	8.196	4.551+1	-8.517
4130	1.256+1	-3.538+1	1.015+1	8.207	4.554+1	-8.573
4140	1.256+1	-3.541+1	1.016+1	8.217	4.557+1	-8.629
4150	1.256+1	-3.543+1	1.017+1	8.228	4.560+1	-8.685
4160	1.256+1	-3.546+1	1.017+1	8.238	4.563+1	-8.740
4170	1.256+1	-3.548+1	1.018+1	8.249	4.566+1	-8.796
4180	1.257+1	-3.551+1	1.018+1	8.259	4.569+1	-8.851
4190	1.257+1	-3.553+1	1.019+1	8.269	4.572+1	-8.905
4200	1.257+1	-3.556+1	1.020+1	8.280	4.575+1	-8.960
4210	1.257+1	-3.558+1	1.020+1	8.290	4.578+1	-9.014
4220	1.257+1	-3.560+1	1.021+1	8.300	4.581+1	-9.068
4230	1.258+1	-3.563+1	1.021+1	8.310	4.584+1	-9.121
4240	1.258+1	-3.565+1	1.022+1	8.320	4.587+1	-9.175
4250	1.258+1	-3.568+1	1.022+1	8.330	4.590+1	-9.228
4260	1.258+1	-3.570+1	1.023+1	8.340	4.593+1	-9.281
4270	1.258+1	-3.572+1	1.023+1	8.350	4.596+1	-9.333
4280	1.259+1	-3.575+1	1.024+1	8.360	4.599+1	-9.386
4290	1.259+1	-3.577+1	1.024+1	8.370	4.602+1	-9.438
4300	1.259+1	-3.580+1	1.025+1	8.380	4.605+1	-9.490
4310	1.259+1	-3.582+1	1.026+1	8.389	4.608+1	-9.542
4320	1.259+1	-3.584+1	1.026+1	8.399	4.610+1	-9.593
4330	1.260+1	-3.587+1	1.027+1	8.409	4.613+1	-9.645
4340	1.260+1	-3.589+1	1.027+1	8.418	4.616+1	-9.696
4350	1.260+1	-3.591+1	1.028+1	8.428	4.619+1	-9.747
4360	1.260+1	-3.594+1	1.028+1	8.438	4.622+1	-9.797
4370	1.260+1	-3.596+1	1.029+1	8.447	4.625+1	-9.848
4380	1.260+1	-3.599+1	1.029+1	8.457	4.628+1	-9.898
4390	1.260+1	-3.601+1	1.030+1	8.466	4.631+1	-9.948
4400	1.261+1	-3.603+1	1.030+1	8.475	4.634+1	-9.998
4410	1.261+1	-3.606+1	1.031+1	8.485	4.636+1	-1.005+1
4420	1.261+1	-3.608+1	1.031+1	8.494	4.639+1	-1.010+1
4430	1.261+1	-3.610+1	1.032+1	8.503	4.642+1	-1.015+1
4440	1.261+1	-3.613+1	1.032+1	8.513	4.645+1	-1.020+1
4450	1.261+1	-3.615+1	1.033+1	8.522	4.648+1	-1.024+1
4460	1.261+1	-3.617+1	1.033+1	8.531	4.651+1	-1.029+1
4470	1.262+1	-3.620+1	1.034+1	8.540	4.654+1	-1.034+1
4480	1.262+1	-3.622+1	1.034+1	8.549	4.656+1	-1.039+1
4490	1.262+1	-3.624+1	1.035+1	8.558	4.659+1	-1.044+1
4500	1.262+1	-3.626+1	1.036+1	8.567	4.662+1	-1.048+1
4510	1.262+1	-3.629+1	1.036+1	8.576	4.665+1	-1.053+1
4520	1.262+1	-3.631+1	1.036+1	8.585	4.668+1	-1.058+1
4530	1.262+1	-3.633+1	1.037+1	8.594	4.670+1	-1.063+1
4540	1.263+1	-3.636+1	1.038+1	8.603	4.673+1	-1.067+1
4550	1.263+1	-3.638+1	1.038+1	8.612	4.676+1	-1.072+1
4560	1.263+1	-3.640+1	1.038+1	8.621	4.679+1	-1.076+1
4570	1.263+1	-3.642+1	1.039+1	8.630	4.681+1	-1.081+1
4580	1.263+1	-3.645+1	1.039+1	8.638	4.684+1	-1.086+1
4590	1.263+1	-3.647+1	1.040+1	8.647	4.687+1	-1.090+1

SPECIE CH4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	1.264+1	-3.649+1	1.040+1	8.656	4.690+1	-1.095+1
4610	1.264+1	-3.651+1	1.041+1	8.664	4.692+1	-1.099+1
4620	1.264+1	-3.654+1	1.041+1	8.673	4.695+1	-1.104+1
4630	1.264+1	-3.656+1	1.042+1	8.682	4.698+1	-1.108+1
4640	1.264+1	-3.658+1	1.042+1	8.690	4.701+1	-1.113+1
4650	1.264+1	-3.660+1	1.043+1	8.699	4.703+1	-1.117+1
4660	1.264+1	-3.663+1	1.043+1	8.707	4.706+1	-1.121+1
4670	1.265+1	-3.665+1	1.044+1	8.715	4.709+1	-1.126+1
4680	1.265+1	-3.667+1	1.044+1	8.724	4.712+1	-1.130+1
4690	1.265+1	-3.669+1	1.045+1	8.732	4.714+1	-1.135+1
4700	1.265+1	-3.672+1	1.045+1	8.741	4.717+1	-1.139+1
4710	1.265+1	-3.674+1	1.046+1	8.749	4.720+1	-1.143+1
4720	1.265+1	-3.676+1	1.046+1	8.757	4.722+1	-1.148+1
4730	1.266+1	-3.678+1	1.047+1	8.765	4.725+1	-1.152+1
4740	1.266+1	-3.681+1	1.047+1	8.774	4.728+1	-1.156+1
4750	1.266+1	-3.683+1	1.048+1	8.782	4.730+1	-1.160+1
4760	1.266+1	-3.685+1	1.048+1	8.790	4.733+1	-1.165+1
4770	1.266+1	-3.687+1	1.048+1	8.798	4.736+1	-1.169+1
4780	1.266+1	-3.689+1	1.049+1	8.806	4.738+1	-1.173+1
4790	1.266+1	-3.692+1	1.049+1	8.814	4.741+1	-1.177+1
4800	1.267+1	-3.694+1	1.050+1	8.822	4.744+1	-1.181+1
4810	1.267+1	-3.696+1	1.050+1	8.830	4.746+1	-1.185+1
4820	1.267+1	-3.698+1	1.051+1	8.838	4.749+1	-1.190+1
4830	1.267+1	-3.700+1	1.051+1	8.846	4.751+1	-1.194+1
4840	1.267+1	-3.702+1	1.052+1	8.854	4.754+1	-1.198+1
4850	1.267+1	-3.705+1	1.052+1	8.862	4.757+1	-1.202+1
4860	1.267+1	-3.707+1	1.052+1	8.870	4.759+1	-1.206+1
4870	1.268+1	-3.709+1	1.053+1	8.878	4.762+1	-1.210+1
4880	1.268+1	-3.711+1	1.053+1	8.885	4.764+1	-1.214+1
4890	1.268+1	-3.713+1	1.054+1	8.893	4.767+1	-1.218+1
4900	1.268+1	-3.715+1	1.054+1	8.901	4.770+1	-1.222+1
4910	1.268+1	-3.718+1	1.055+1	8.908	4.772+1	-1.226+1
4920	1.268+1	-3.720+1	1.055+1	8.916	4.775+1	-1.230+1
4930	1.269+1	-3.722+1	1.056+1	8.924	4.777+1	-1.234+1
4940	1.269+1	-3.724+1	1.056+1	8.931	4.780+1	-1.238+1
4950	1.269+1	-3.726+1	1.056+1	8.939	4.783+1	-1.242+1
4960	1.269+1	-3.728+1	1.057+1	8.947	4.785+1	-1.246+1
4970	1.269+1	-3.730+1	1.057+1	8.954	4.788+1	-1.250+1
4980	1.269+1	-3.733+1	1.058+1	8.962	4.790+1	-1.254+1
4990	1.269+1	-3.735+1	1.058+1	8.969	4.793+1	-1.257+1
5000	1.270+1	-3.737+1	1.059+1	8.977	4.795+1	-1.261+1
5010	1.270+1	-3.739+1	1.059+1	8.984	4.798+1	-1.265+1
5020	1.270+1	-3.741+1	1.059+1	8.991	4.800+1	-1.269+1
5030	1.270+1	-3.743+1	1.060+1	8.999	4.803+1	-1.273+1
5040	1.270+1	-3.745+1	1.060+1	9.006	4.805+1	-1.277+1
5050	1.270+1	-3.747+1	1.061+1	9.013	4.808+1	-1.280+1
5060	1.270+1	-3.749+1	1.061+1	9.021	4.810+1	-1.284+1
5070	1.271+1	-3.751+1	1.061+1	9.028	4.813+1	-1.288+1
5080	1.271+1	-3.754+1	1.062+1	9.035	4.815+1	-1.292+1
5090	1.271+1	-3.756+1	1.062+1	9.042	4.818+1	-1.295+1

SPECIE CH4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	1.271+1	-3.758+1	1.063+1	9.050	4.820+1	-1.299+1
5110	1.271+1	-3.760+1	1.063+1	9.057	4.823+1	-1.303+1
5120	1.271+1	-3.762+1	1.064+1	9.064	4.825+1	-1.306+1
5130	1.272+1	-3.764+1	1.064+1	9.071	4.828+1	-1.310+1
5140	1.272+1	-3.766+1	1.064+1	9.078	4.830+1	-1.314+1
5150	1.272+1	-3.768+1	1.065+1	9.085	4.833+1	-1.317+1
5160	1.272+1	-3.770+1	1.065+1	9.092	4.835+1	-1.321+1
5170	1.272+1	-3.772+1	1.066+1	9.099	4.838+1	-1.325+1
5180	1.272+1	-3.774+1	1.066+1	9.106	4.840+1	-1.328+1
5190	1.272+1	-3.776+1	1.066+1	9.113	4.843+1	-1.332+1
5200	1.273+1	-3.778+1	1.067+1	9.120	4.845+1	-1.335+1
5210	1.273+1	-3.780+1	1.067+1	9.127	4.848+1	-1.339+1
5220	1.273+1	-3.783+1	1.068+1	9.134	4.850+1	-1.342+1
5230	1.273+1	-3.785+1	1.068+1	9.141	4.852+1	-1.346+1
5240	1.273+1	-3.787+1	1.068+1	9.148	4.855+1	-1.349+1
5250	1.273+1	-3.789+1	1.069+1	9.155	4.857+1	-1.353+1
5260	1.273+1	-3.791+1	1.069+1	9.161	4.860+1	-1.356+1
5270	1.274+1	-3.793+1	1.069+1	9.168	4.862+1	-1.360+1
5280	1.274+1	-3.795+1	1.070+1	9.175	4.865+1	-1.363+1
5290	1.274+1	-3.797+1	1.070+1	9.182	4.867+1	-1.367+1
5300	1.274+1	-3.799+1	1.071+1	9.188	4.869+1	-1.370+1
5310	1.274+1	-3.801+1	1.071+1	9.195	4.872+1	-1.373+1
5320	1.274+1	-3.803+1	1.071+1	9.202	4.874+1	-1.377+1
5330	1.275+1	-3.805+1	1.072+1	9.208	4.877+1	-1.380+1
5340	1.275+1	-3.807+1	1.072+1	9.215	4.879+1	-1.384+1
5350	1.275+1	-3.809+1	1.073+1	9.222	4.881+1	-1.387+1
5360	1.275+1	-3.811+1	1.073+1	9.228	4.884+1	-1.390+1
5370	1.275+1	-3.813+1	1.073+1	9.235	4.886+1	-1.394+1
5380	1.275+1	-3.815+1	1.074+1	9.241	4.889+1	-1.397+1
5390	1.275+1	-3.817+1	1.074+1	9.248	4.891+1	-1.400+1
5400	1.276+1	-3.819+1	1.074+1	9.254	4.893+1	-1.403+1
5410	1.276+1	-3.821+1	1.075+1	9.261	4.896+1	-1.407+1
5420	1.276+1	-3.823+1	1.075+1	9.267	4.898+1	-1.410+1
5430	1.276+1	-3.825+1	1.076+1	9.274	4.900+1	-1.413+1
5440	1.276+1	-3.827+1	1.076+1	9.280	4.903+1	-1.417+1
5450	1.276+1	-3.829+1	1.076+1	9.286	4.905+1	-1.420+1
5460	1.277+1	-3.831+1	1.077+1	9.293	4.907+1	-1.423+1
5470	1.277+1	-3.833+1	1.077+1	9.299	4.910+1	-1.426+1
5480	1.277+1	-3.835+1	1.077+1	9.305	4.912+1	-1.429+1
5490	1.277+1	-3.837+1	1.078+1	9.312	4.914+1	-1.433+1
5500	1.277+1	-3.839+1	1.078+1	9.318	4.917+1	-1.436+1
5510	1.277+1	-3.841+1	1.078+1	9.324	4.919+1	-1.439+1
5520	1.277+1	-3.842+1	1.079+1	9.331	4.921+1	-1.442+1
5530	1.278+1	-3.844+1	1.079+1	9.337	4.924+1	-1.445+1
5540	1.278+1	-3.846+1	1.079+1	9.343	4.926+1	-1.448+1
5550	1.278+1	-3.848+1	1.080+1	9.349	4.928+1	-1.451+1
5560	1.278+1	-3.850+1	1.080+1	9.355	4.931+1	-1.455+1
5570	1.278+1	-3.852+1	1.081+1	9.362	4.933+1	-1.458+1
5580	1.278+1	-3.854+1	1.081+1	9.368	4.935+1	-1.461+1
5590	1.278+1	-3.856+1	1.081+1	9.374	4.937+1	-1.464+1

SPECIE CH4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	1.279+1	-3.858+1	1.082+1	9.380	4.940+1	-1.467+1
5610	1.279+1	-3.860+1	1.082+1	9.386	4.942+1	-1.470+1
5620	1.279+1	-3.862+1	1.082+1	9.392	4.944+1	-1.473+1
5630	1.279+1	-3.864+1	1.083+1	9.398	4.947+1	-1.476+1
5640	1.279+1	-3.866+1	1.083+1	9.404	4.949+1	-1.479+1
5650	1.279+1	-3.868+1	1.083+1	9.410	4.951+1	-1.482+1
5660	1.280+1	-3.870+1	1.084+1	9.416	4.953+1	-1.485+1
5670	1.280+1	-3.871+1	1.084+1	9.422	4.956+1	-1.488+1
5680	1.280+1	-3.873+1	1.084+1	9.428	4.958+1	-1.491+1
5690	1.280+1	-3.875+1	1.085+1	9.434	4.960+1	-1.494+1
5700	1.280+1	-3.877+1	1.085+1	9.440	4.962+1	-1.497+1
5710	1.280+1	-3.879+1	1.085+1	9.446	4.965+1	-1.500+1
5720	1.280+1	-3.881+1	1.086+1	9.452	4.967+1	-1.503+1
5730	1.281+1	-3.883+1	1.086+1	9.457	4.969+1	-1.506+1
5740	1.281+1	-3.885+1	1.086+1	9.463	4.971+1	-1.509+1
5750	1.281+1	-3.887+1	1.087+1	9.469	4.974+1	-1.512+1
5760	1.281+1	-3.889+1	1.087+1	9.475	4.976+1	-1.514+1
5770	1.281+1	-3.890+1	1.087+1	9.481	4.978+1	-1.517+1
5780	1.281+1	-3.892+1	1.088+1	9.486	4.980+1	-1.520+1
5790	1.281+1	-3.894+1	1.088+1	9.492	4.982+1	-1.523+1
5800	1.282+1	-3.896+1	1.088+1	9.498	4.985+1	-1.526+1
5810	1.282+1	-3.898+1	1.089+1	9.504	4.987+1	-1.529+1
5820	1.282+1	-3.900+1	1.089+1	9.509	4.989+1	-1.532+1
5830	1.282+1	-3.902+1	1.089+1	9.515	4.991+1	-1.534+1
5840	1.282+1	-3.904+1	1.090+1	9.521	4.993+1	-1.537+1
5850	1.282+1	-3.905+1	1.090+1	9.526	4.996+1	-1.540+1
5860	1.283+1	-3.907+1	1.090+1	9.532	4.998+1	-1.543+1
5870	1.283+1	-3.909+1	1.091+1	9.538	5.000+1	-1.546+1
5880	1.283+1	-3.911+1	1.091+1	9.543	5.002+1	-1.548+1
5890	1.283+1	-3.913+1	1.091+1	9.549	5.004+1	-1.551+1
5900	1.283+1	-3.915+1	1.092+1	9.554	5.007+1	-1.554+1
5910	1.283+1	-3.917+1	1.092+1	9.560	5.009+1	-1.557+1
5920	1.283+1	-3.918+1	1.092+1	9.565	5.011+1	-1.559+1
5930	1.284+1	-3.920+1	1.093+1	9.571	5.013+1	-1.562+1
5940	1.284+1	-3.922+1	1.093+1	9.576	5.015+1	-1.565+1
5950	1.284+1	-3.924+1	1.093+1	9.582	5.017+1	-1.567+1
5960	1.284+1	-3.926+1	1.094+1	9.587	5.020+1	-1.570+1
5970	1.284+1	-3.928+1	1.094+1	9.593	5.022+1	-1.573+1
5980	1.284+1	-3.929+1	1.094+1	9.598	5.024+1	-1.576+1
5990	1.285+1	-3.931+1	1.095+1	9.604	5.026+1	-1.578+1
6000	1.285+1	-3.933+1	1.095+1	9.609	5.028+1	-1.581+1

SPECIE C2H2

MOLECULAR WEIGHT EQUALS 26.0388

DELTA E ZERO EQUALS 54.329 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(NBS 500, 2/1/52) (10)

THERMAL

(G. C. SINKE, DOW AR-15-59, 4/1/59) (13)

SPECIE C2H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	3.573	-1.735+1	2.866	2.763+2	2.821+1	1.418+3
110	3.646	-1.750+1	2.933	2.555+2	2.843+1	1.308+3
120	3.722	-1.765+1	2.997	2.366+2	2.065+1	1.208+3
130	3.802	-1.779+1	3.062	2.196+2	2.086+1	1.118+3
140	3.884	-1.794+1	3.126	2.043+2	2.107+1	1.036+3
150	3.969	-1.809+1	3.190	1.904+2	2.128+1	9.631+2
160	4.055	-1.823+1	3.253	1.780+2	2.149+1	8.971+2
170	4.143	-1.838+1	3.315	1.669+2	2.169+1	8.380+2
180	4.232	-1.852+1	3.378	1.570+2	2.190+1	7.851+2
190	4.322	-1.866+1	3.438	1.481+2	2.210+1	7.379+2
200	4.413	-1.880+1	3.496	1.402+2	2.230+1	6.957+2
210	4.504	-1.894+1	3.554	1.332+2	2.249+1	6.581+2
220	4.595	-1.908+1	3.610	1.269+2	2.269+1	6.246+2
230	4.686	-1.922+1	3.666	1.213+2	2.288+1	5.947+2
240	4.777	-1.935+1	3.721	1.163+2	2.307+1	5.680+2
250	4.867	-1.949+1	3.774	1.118+2	2.326+1	5.441+2
260	4.956	-1.962+1	3.826	1.078+2	2.345+1	5.226+2
270	5.043	-1.975+1	3.878	1.042+2	2.363+1	5.032+2
280	5.130	-1.989+1	3.928	1.009+2	2.381+1	4.855+2
290	5.215	-2.002+1	3.977	9.794+1	2.399+1	4.692+2
300	5.299	-2.015+1	4.025	9.516+1	2.417+1	4.542+2
310	5.381	-2.027+1	4.070	9.220+1	2.434+1	4.382+2
320	5.461	-2.040+1	4.114	8.944+1	2.452+1	4.234+2
330	5.539	-2.053+1	4.157	8.686+1	2.469+1	4.094+2
340	5.615	-2.065+1	4.199	8.445+1	2.485+1	3.964+2
350	5.689	-2.077+1	4.241	8.220+1	2.502+1	3.842+2
360	5.760	-2.090+1	4.282	8.009+1	2.518+1	3.728+2
370	5.830	-2.102+1	4.322	7.810+1	2.534+1	3.620+2
380	5.897	-2.113+1	4.362	7.623+1	2.550+1	3.519+2
390	5.961	-2.125+1	4.401	7.446+1	2.565+1	3.423+2
400	6.023	-2.136+1	4.440	7.279+1	2.580+1	3.331+2
410	6.083	-2.147+1	4.479	7.120+1	2.595+1	3.245+2
420	6.141	-2.158+1	4.518	6.968+1	2.610+1	3.162+2
430	6.196	-2.169+1	4.556	6.823+1	2.625+1	3.083+2
440	6.249	-2.180+1	4.594	6.684+1	2.639+1	3.007+2
450	6.300	-2.190+1	4.631	6.550+1	2.653+1	2.934+2
460	6.349	-2.200+1	4.668	6.422+1	2.667+1	2.863+2
470	6.396	-2.210+1	4.704	6.297+1	2.681+1	2.795+2
480	6.441	-2.220+1	4.740	6.177+1	2.694+1	2.729+2
490	6.485	-2.230+1	4.775	6.061+1	2.708+1	2.665+2
500	6.527	-2.240+1	4.810	5.949+1	2.721+1	2.604+2
510	6.569	-2.249+1	4.844	5.846+1	2.734+1	2.547+2
520	6.610	-2.259+1	4.878	5.747+1	2.747+1	2.493+2
530	6.650	-2.268+1	4.912	5.652+1	2.759+1	2.440+2
540	6.690	-2.278+1	4.944	5.560+1	2.772+1	2.389+2
550	6.728	-2.287+1	4.977	5.471+1	2.784+1	2.340+2
560	6.766	-2.296+1	5.009	5.386+1	2.797+1	2.293+2
570	6.803	-2.305+1	5.040	5.303+1	2.809+1	2.247+2
580	6.839	-2.313+1	5.071	5.223+1	2.821+1	2.203+2
590	6.874	-2.322+1	5.102	5.145+1	2.832+1	2.160+2

SPECIE C2H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	6.909	-2.331+1	5.132	5.070+1	2.844+1	2.118+2
610	6.944	-2.339+1	5.162	4.998+1	2.855+1	2.078+2
620	6.978	-2.348+1	5.192	4.929+1	2.867+1	2.040+2
630	7.011	-2.356+1	5.221	4.862+1	2.878+1	2.003+2
640	7.043	-2.364+1	5.249	4.798+1	2.889+1	1.967+2
650	7.075	-2.372+1	5.278	4.735+1	2.900+1	1.932+2
660	7.107	-2.380+1	5.305	4.674+1	2.911+1	1.898+2
670	7.139	-2.388+1	5.333	4.615+1	2.922+1	1.864+2
680	7.171	-2.396+1	5.360	4.557+1	2.932+1	1.832+2
690	7.201	-2.404+1	5.386	4.501+1	2.943+1	1.801+2
700	7.231	-2.412+1	5.413	4.447+1	2.953+1	1.771+2
710	7.261	-2.419+1	5.438	4.395+1	2.963+1	1.741+2
720	7.290	-2.427+1	5.464	4.344+1	2.973+1	1.713+2
730	7.319	-2.435+1	5.488	4.294+1	2.984+1	1.685+2
740	7.347	-2.442+1	5.513	4.246+1	2.993+1	1.658+2
750	7.376	-2.450+1	5.538	4.199+1	3.003+1	1.632+2
760	7.404	-2.457+1	5.562	4.154+1	3.013+1	1.606+2
770	7.431	-2.464+1	5.585	4.109+1	3.023+1	1.581+2
780	7.459	-2.472+1	5.608	4.066+1	3.032+1	1.557+2
790	7.486	-2.479+1	5.632	4.024+1	3.042+1	1.533+2
800	7.513	-2.486+1	5.654	3.983+1	3.051+1	1.510+2
810	7.540	-2.493+1	5.678	3.943+1	3.061+1	1.487+2
820	7.567	-2.500+1	5.700	3.904+1	3.070+1	1.465+2
830	7.594	-2.507+1	5.723	3.866+1	3.079+1	1.444+2
840	7.620	-2.514+1	5.745	3.829+1	3.088+1	1.423+2
850	7.647	-2.520+1	5.768	3.793+1	3.097+1	1.403+2
860	7.673	-2.527+1	5.790	3.758+1	3.106+1	1.383+2
870	7.698	-2.534+1	5.812	3.724+1	3.115+1	1.363+2
880	7.724	-2.540+1	5.833	3.690+1	3.124+1	1.344+2
890	7.749	-2.547+1	5.855	3.657+1	3.132+1	1.325+2
900	7.775	-2.553+1	5.876	3.625+1	3.141+1	1.307+2
910	7.799	-2.560+1	5.897	3.594+1	3.150+1	1.289+2
920	7.824	-2.566+1	5.918	3.563+1	3.158+1	1.272+2
930	7.848	-2.573+1	5.939	3.534+1	3.167+1	1.255+2
940	7.872	-2.579+1	5.959	3.504+1	3.175+1	1.238+2
950	7.896	-2.586+1	5.980	3.476+1	3.184+1	1.222+2
960	7.919	-2.592+1	6.000	3.448+1	3.192+1	1.206+2
970	7.942	-2.598+1	6.020	3.421+1	3.200+1	1.190+2
980	7.965	-2.604+1	6.040	3.394+1	3.208+1	1.174+2
990	7.988	-2.611+1	6.059	3.367+1	3.216+1	1.159+2
1000	8.011	-2.617+1	6.078	3.342+1	3.225+1	1.145+2
1010	8.034	-2.623+1	6.098	3.317+1	3.233+1	1.130+2
1020	8.056	-2.629+1	6.116	3.292+1	3.240+1	1.116+2
1030	8.078	-2.635+1	6.135	3.268+1	3.248+1	1.102+2
1040	8.100	-2.641+1	6.154	3.244+1	3.256+1	1.088+2
1050	8.122	-2.647+1	6.172	3.221+1	3.264+1	1.075+2
1060	8.143	-2.652+1	6.190	3.198+1	3.272+1	1.062+2
1070	8.165	-2.658+1	6.209	3.176+1	3.279+1	1.049+2
1080	8.186	-2.664+1	6.227	3.154+1	3.287+1	1.036+2
1090	8.207	-2.670+1	6.245	3.133+1	3.294+1	1.024+2

SPECIE C2H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	8.227	-2.675+1	6.262	3.112+1	3.302+1	8.012+2
1110	8.248	-2.681+1	6.280	3.091+1	3.309+1	9.996+1
1120	8.268	-2.687+1	6.298	3.071+1	3.317+1	9.878+1
1130	8.288	-2.692+1	6.316	3.051+1	3.324+1	9.763+1
1140	8.308	-2.698+1	6.334	3.032+1	3.331+1	9.649+1
1150	8.328	-2.704+1	6.351	3.012+1	3.339+1	9.538+1
1160	8.347	-2.709+1	6.368	2.994+1	3.346+1	9.428+1
1170	8.367	-2.715+1	6.386	2.975+1	3.353+1	9.320+1
1180	8.386	-2.720+1	6.403	2.957+1	3.360+1	9.214+1
1190	8.405	-2.725+1	6.420	2.939+1	3.367+1	9.110+1
1200	8.424	-2.731+1	6.437	2.922+1	3.374+1	9.007+1
1210	8.442	-2.736+1	6.453	2.905+1	3.382+1	8.907+1
1220	8.461	-2.741+1	6.469	2.888+1	3.388+1	8.807+1
1230	8.480	-2.747+1	6.486	2.871+1	3.395+1	8.710+1
1240	8.498	-2.752+1	6.502	2.855+1	3.402+1	8.614+1
1250	8.516	-2.757+1	6.518	2.839+1	3.409+1	8.520+1
1260	8.534	-2.762+1	6.533	2.823+1	3.416+1	8.427+1
1270	8.552	-2.768+1	6.549	2.808+1	3.423+1	8.335+1
1280	8.570	-2.773+1	6.565	2.792+1	3.429+1	8.245+1
1290	8.587	-2.778+1	6.580	2.777+1	3.436+1	8.156+1
1300	8.605	-2.783+1	6.596	2.763+1	3.442+1	8.069+1
1310	8.622	-2.788+1	6.611	2.748+1	3.449+1	7.983+1
1320	8.639	-2.793+1	6.626	2.734+1	3.456+1	7.899+1
1330	8.655	-2.798+1	6.642	2.720+1	3.462+1	7.815+1
1340	8.672	-2.803+1	6.657	2.706+1	3.469+1	7.733+1
1350	8.688	-2.808+1	6.672	2.692+1	3.475+1	7.652+1
1360	8.704	-2.813+1	6.687	2.679+1	3.482+1	7.573+1
1370	8.720	-2.818+1	6.702	2.666+1	3.488+1	7.494+1
1380	8.735	-2.823+1	6.717	2.653+1	3.495+1	7.417+1
1390	8.751	-2.828+1	6.732	2.640+1	3.501+1	7.340+1
1400	8.766	-2.833+1	6.746	2.627+1	3.507+1	7.265+1
1410	8.781	-2.838+1	6.761	2.615+1	3.514+1	7.191+1
1420	8.796	-2.842+1	6.775	2.603+1	3.520+1	7.118+1
1430	8.809	-2.847+1	6.789	2.591+1	3.526+1	7.046+1
1440	8.823	-2.852+1	6.802	2.579+1	3.532+1	6.975+1
1450	8.838	-2.857+1	6.816	2.567+1	3.538+1	6.905+1
1460	8.852	-2.861+1	6.830	2.556+1	3.544+1	6.835+1
1470	8.865	-2.866+1	6.843	2.544+1	3.550+1	6.767+1
1480	8.880	-2.871+1	6.857	2.533+1	3.556+1	6.700+1
1490	8.894	-2.875+1	6.871	2.522+1	3.562+1	6.634+1
1500	8.907	-2.880+1	6.884	2.511+1	3.568+1	6.568+1
1510	8.921	-2.884+1	6.897	2.500+1	3.574+1	6.504+1
1520	8.935	-2.889+1	6.911	2.490+1	3.580+1	6.440+1
1530	8.949	-2.893+1	6.924	2.479+1	3.586+1	6.377+1
1540	8.963	-2.898+1	6.937	2.469+1	3.592+1	6.315+1
1550	8.977	-2.902+1	6.951	2.459+1	3.597+1	6.253+1
1560	8.991	-2.907+1	6.964	2.449+1	3.603+1	6.193+1
1570	9.005	-2.911+1	6.977	2.439+1	3.609+1	6.133+1
1580	9.019	-2.916+1	6.990	2.429+1	3.615+1	6.074+1
1590	9.034	-2.920+1	7.003	2.420+1	3.620+1	6.016+1

SPECIE C2H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	9.048	-2.924+1	7.016	2.410+1	3.626+1	5.958+1
1610	9.061	-2.929+1	7.029	2.401+1	3.632+1	5.901+1
1620	9.075	-2.933+1	7.042	2.392+1	3.637+1	5.845+1
1630	9.089	-2.937+1	7.054	2.383+1	3.643+1	5.790+1
1640	9.103	-2.942+1	7.067	2.374+1	3.648+1	5.735+1
1650	9.116	-2.946+1	7.079	2.365+1	3.654+1	5.681+1
1660	9.130	-2.950+1	7.091	2.356+1	3.659+1	5.627+1
1670	9.143	-2.955+1	7.103	2.347+1	3.665+1	5.575+1
1680	9.157	-2.959+1	7.116	2.339+1	3.670+1	5.522+1
1690	9.170	-2.963+1	7.128	2.330+1	3.676+1	5.471+1
1700	9.183	-2.967+1	7.139	2.322+1	3.681+1	5.420+1
1710	9.197	-2.971+1	7.151	2.314+1	3.686+1	5.370+1
1720	9.209	-2.975+1	7.163	2.306+1	3.692+1	5.320+1
1730	9.222	-2.980+1	7.175	2.298+1	3.697+1	5.271+1
1740	9.235	-2.984+1	7.187	2.290+1	3.702+1	5.222+1
1750	9.248	-2.988+1	7.199	2.282+1	3.708+1	5.174+1
1760	9.260	-2.992+1	7.211	2.274+1	3.713+1	5.126+1
1770	9.273	-2.996+1	7.222	2.267+1	3.718+1	5.079+1
1780	9.285	-3.000+1	7.234	2.259+1	3.724+1	5.033+1
1790	9.297	-3.004+1	7.246	2.252+1	3.729+1	4.987+1
1800	9.309	-3.008+1	7.257	2.245+1	3.734+1	4.942+1
1810	9.321	-3.012+1	7.269	2.237+1	3.739+1	4.897+1
1820	9.333	-3.016+1	7.280	2.230+1	3.744+1	4.852+1
1830	9.345	-3.020+1	7.291	2.223+1	3.749+1	4.809+1
1840	9.357	-3.024+1	7.302	2.216+1	3.755+1	4.765+1
1850	9.368	-3.028+1	7.313	2.209+1	3.760+1	4.722+1
1860	9.380	-3.032+1	7.324	2.202+1	3.765+1	4.680+1
1870	9.391	-3.036+1	7.335	2.196+1	3.770+1	4.638+1
1880	9.403	-3.040+1	7.346	2.189+1	3.775+1	4.596+1
1890	9.414	-3.044+1	7.357	2.182+1	3.780+1	4.555+1
1900	9.425	-3.048+1	7.368	2.176+1	3.785+1	4.514+1
1910	9.436	-3.052+1	7.379	2.169+1	3.790+1	4.474+1
1920	9.448	-3.056+1	7.389	2.163+1	3.795+1	4.434+1
1930	9.459	-3.060+1	7.400	2.157+1	3.800+1	4.394+1
1940	9.470	-3.063+1	7.410	2.150+1	3.804+1	4.355+1
1950	9.481	-3.067+1	7.421	2.144+1	3.809+1	4.316+1
1960	9.492	-3.071+1	7.431	2.138+1	3.814+1	4.278+1
1970	9.503	-3.075+1	7.442	2.132+1	3.819+1	4.240+1
1980	9.514	-3.078+1	7.452	2.126+1	3.824+1	4.203+1
1990	9.525	-3.082+1	7.462	2.120+1	3.828+1	4.166+1
2000	9.536	-3.086+1	7.472	2.114+1	3.833+1	4.129+1
2010	9.545	-3.090+1	7.483	2.108+1	3.838+1	4.093+1
2020	9.552	-3.093+1	7.493	2.103+1	3.843+1	4.057+1
2030	9.559	-3.097+1	7.503	2.097+1	3.847+1	4.021+1
2040	9.568	-3.101+1	7.514	2.092+1	3.852+1	3.986+1
2050	9.575	-3.105+1	7.524	2.086+1	3.857+1	3.951+1
2060	9.582	-3.108+1	7.534	2.081+1	3.862+1	3.916+1
2070	9.589	-3.112+1	7.544	2.075+1	3.866+1	3.882+1
2080	9.594	-3.116+1	7.554	2.070+1	3.871+1	3.848+1
2090	9.601	-3.119+1	7.564	2.065+1	3.876+1	3.814+1

SPECIE C2H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	9.606	-3.123+1	7.574	2.059+1	3.880+1	3.781+1
2110	9.613	-3.127+1	7.584	2.054+1	3.885+1	3.748+1
2120	9.620	-3.130+1	7.594	2.049+1	3.890+1	3.715+1
2130	9.626	-3.134+1	7.603	2.044+1	3.894+1	3.683+1
2140	9.633	-3.137+1	7.612	2.039+1	3.899+1	3.651+1
2150	9.640	-3.141+1	7.621	2.034+1	3.903+1	3.619+1
2160	9.646	-3.144+1	7.631	2.029+1	3.907+1	3.587+1
2170	9.652	-3.148+1	7.640	2.024+1	3.912+1	3.556+1
2180	9.659	-3.151+1	7.649	2.019+1	3.916+1	3.525+1
2190	9.665	-3.155+1	7.658	2.014+1	3.921+1	3.495+1
2200	9.672	-3.158+1	7.667	2.009+1	3.925+1	3.464+1
2210	9.678	-3.162+1	7.676	2.005+1	3.929+1	3.434+1
2220	9.684	-3.165+1	7.685	2.000+1	3.934+1	3.404+1
2230	9.690	-3.169+1	7.694	1.995+1	3.938+1	3.375+1
2240	9.696	-3.172+1	7.703	1.991+1	3.942+1	3.346+1
2250	9.702	-3.175+1	7.712	1.986+1	3.947+1	3.317+1
2260	9.708	-3.179+1	7.721	1.982+1	3.951+1	3.288+1
2270	9.714	-3.182+1	7.730	1.977+1	3.955+1	3.259+1
2280	9.720	-3.186+1	7.738	1.973+1	3.960+1	3.231+1
2290	9.726	-3.189+1	7.747	1.969+1	3.964+1	3.203+1
2300	9.732	-3.192+1	7.756	1.964+1	3.968+1	3.175+1
2310	9.738	-3.196+1	7.764	1.960+1	3.972+1	3.148+1
2320	9.743	-3.199+1	7.773	1.956+1	3.976+1	3.121+1
2330	9.749	-3.202+1	7.781	1.952+1	3.981+1	3.094+1
2340	9.755	-3.206+1	7.790	1.947+1	3.985+1	3.067+1
2350	9.760	-3.209+1	7.798	1.943+1	3.989+1	3.040+1
2360	9.766	-3.212+1	7.807	1.939+1	3.993+1	3.014+1
2370	9.771	-3.216+1	7.815	1.935+1	3.997+1	2.988+1
2380	9.777	-3.219+1	7.823	1.931+1	4.001+1	2.962+1
2390	9.782	-3.222+1	7.831	1.927+1	4.006+1	2.936+1
2400	9.787	-3.226+1	7.839	1.923+1	4.010+1	2.911+1
2410	9.792	-3.229+1	7.848	1.919+1	4.014+1	2.886+1
2420	9.797	-3.232+1	7.856	1.915+1	4.018+1	2.861+1
2430	9.802	-3.236+1	7.864	1.911+1	4.022+1	2.836+1
2440	9.807	-3.239+1	7.872	1.908+1	4.026+1	2.811+1
2450	9.811	-3.242+1	7.879	1.904+1	4.030+1	2.787+1
2460	9.816	-3.245+1	7.887	1.900+1	4.034+1	2.762+1
2470	9.820	-3.248+1	7.895	1.896+1	4.038+1	2.738+1
2480	9.824	-3.252+1	7.903	1.893+1	4.042+1	2.715+1
2490	9.829	-3.255+1	7.911	1.889+1	4.046+1	2.691+1
2500	9.833	-3.258+1	7.918	1.885+1	4.050+1	2.667+1
2510	9.837	-3.261+1	7.926	1.882+1	4.054+1	2.644+1
2520	9.841	-3.264+1	7.934	1.878+1	4.058+1	2.621+1
2530	9.845	-3.267+1	7.941	1.875+1	4.061+1	2.598+1
2540	9.849	-3.271+1	7.949	1.871+1	4.065+1	2.575+1
2550	9.853	-3.274+1	7.956	1.868+1	4.069+1	2.553+1
2560	9.857	-3.277+1	7.964	1.864+1	4.073+1	2.530+1
2570	9.861	-3.280+1	7.971	1.861+1	4.077+1	2.508+1
2580	9.865	-3.283+1	7.979	1.857+1	4.081+1	2.486+1
2590	9.869	-3.286+1	7.986	1.854+1	4.085+1	2.464+1

SPECIE C2H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	9.873	-3.289+1	7.993	1.851+1	4.088+1	2.442+1
2610	9.877	-3.292+1	8.000	1.848+1	4.092+1	2.421+1
2620	9.882	-3.295+1	8.007	1.844+1	4.096+1	2.400+1
2630	9.886	-3.298+1	8.014	1.841+1	4.100+1	2.378+1
2640	9.890	-3.301+1	8.021	1.838+1	4.103+1	2.357+1
2650	9.895	-3.304+1	8.028	1.835+1	4.107+1	2.336+1
2660	9.899	-3.307+1	8.035	1.831+1	4.111+1	2.316+1
2670	9.904	-3.310+1	8.042	1.828+1	4.115+1	2.295+1
2680	9.909	-3.313+1	8.049	1.825+1	4.118+1	2.275+1
2690	9.913	-3.316+1	8.056	1.822+1	4.122+1	2.255+1
2700	9.918	-3.319+1	8.062	1.819+1	4.126+1	2.235+1
2710	9.922	-3.322+1	8.069	1.816+1	4.129+1	2.215+1
2720	9.926	-3.325+1	8.076	1.813+1	4.133+1	2.195+1
2730	9.930	-3.328+1	8.083	1.810+1	4.137+1	2.175+1
2740	9.933	-3.331+1	8.090	1.807+1	4.140+1	2.156+1
2750	9.937	-3.334+1	8.096	1.804+1	4.144+1	2.136+1
2760	9.940	-3.337+1	8.103	1.801+1	4.147+1	2.117+1
2770	9.944	-3.340+1	8.110	1.798+1	4.151+1	2.098+1
2780	9.947	-3.343+1	8.117	1.795+1	4.155+1	2.079+1
2790	9.950	-3.346+1	8.124	1.792+1	4.158+1	2.060+1
2800	9.953	-3.349+1	8.130	1.789+1	4.162+1	2.041+1
2810	9.957	-3.352+1	8.137	1.787+1	4.165+1	2.023+1
2820	9.960	-3.354+1	8.143	1.784+1	4.169+1	2.004+1
2830	9.964	-3.357+1	8.150	1.781+1	4.172+1	1.986+1
2840	9.967	-3.360+1	8.156	1.778+1	4.176+1	1.968+1
2850	9.971	-3.363+1	8.162	1.776+1	4.179+1	1.950+1
2860	9.975	-3.366+1	8.169	1.773+1	4.183+1	1.932+1
2870	9.978	-3.369+1	8.175	1.770+1	4.186+1	1.914+1
2880	9.982	-3.372+1	8.181	1.767+1	4.190+1	1.897+1
2890	9.985	-3.374+1	8.187	1.765+1	4.193+1	1.879+1
2900	9.989	-3.377+1	8.193	1.762+1	4.197+1	1.862+1
2910	9.992	-3.380+1	8.200	1.759+1	4.200+1	1.844+1
2920	9.995	-3.383+1	8.206	1.757+1	4.204+1	1.827+1
2930	9.998	-3.386+1	8.212	1.754+1	4.207+1	1.810+1
2940	1.000+1	-3.389+1	8.218	1.752+1	4.210+1	1.793+1
2950	1.000+1	-3.391+1	8.224	1.749+1	4.214+1	1.776+1
2960	1.001+1	-3.394+1	8.230	1.747+1	4.217+1	1.760+1
2970	1.001+1	-3.397+1	8.236	1.744+1	4.221+1	1.743+1
2980	1.001+1	-3.400+1	8.242	1.742+1	4.224+1	1.727+1
2990	1.002+1	-3.403+1	8.248	1.739+1	4.227+1	1.710+1
3000	1.002+1	-3.405+1	8.254	1.737+1	4.231+1	1.694+1
3010	1.002+1	-3.408+1	8.260	1.734+1	4.234+1	1.678+1
3020	1.002+1	-3.411+1	8.266	1.732+1	4.237+1	1.662+1
3030	1.003+1	-3.414+1	8.272	1.729+1	4.241+1	1.646+1
3040	1.003+1	-3.416+1	8.277	1.727+1	4.244+1	1.630+1
3050	1.003+1	-3.419+1	8.283	1.725+1	4.247+1	1.614+1
3060	1.004+1	-3.422+1	8.289	1.722+1	4.251+1	1.599+1
3070	1.004+1	-3.424+1	8.294	1.720+1	4.254+1	1.583+1
3080	1.004+1	-3.427+1	8.300	1.718+1	4.257+1	1.568+1
3090	1.005+1	-3.430+1	8.305	1.715+1	4.260+1	1.552+1

SPECIE C2H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	1.005+1	-3.432+1	8.311	1.713+1	4.263+1	1.537+1
3110	1.005+1	-3.435+1	8.316	1.711+1	4.267+1	1.522+1
3120	1.005+1	-3.438+1	8.322	1.708+1	4.270+1	1.507+1
3130	1.006+1	-3.440+1	8.328	1.706+1	4.273+1	1.492+1
3140	1.006+1	-3.443+1	8.333	1.704+1	4.276+1	1.477+1
3150	1.006+1	-3.446+1	8.339	1.702+1	4.280+1	1.463+1
3160	1.006+1	-3.448+1	8.344	1.700+1	4.283+1	1.448+1
3170	1.007+1	-3.451+1	8.349	1.697+1	4.286+1	1.434+1
3180	1.007+1	-3.454+1	8.355	1.695+1	4.289+1	1.419+1
3190	1.007+1	-3.457+1	8.360	1.693+1	4.293+1	1.405+1
3200	1.007+1	-3.459+1	8.366	1.691+1	4.296+1	1.391+1
3210	1.008+1	-3.462+1	8.371	1.689+1	4.299+1	1.376+1
3220	1.008+1	-3.464+1	8.376	1.687+1	4.302+1	1.362+1
3230	1.008+1	-3.467+1	8.382	1.685+1	4.305+1	1.348+1
3240	1.008+1	-3.470+1	8.387	1.682+1	4.308+1	1.334+1
3250	1.008+1	-3.472+1	8.392	1.680+1	4.311+1	1.320+1
3260	1.009+1	-3.475+1	8.397	1.678+1	4.314+1	1.307+1
3270	1.009+1	-3.477+1	8.402	1.676+1	4.318+1	1.293+1
3280	1.009+1	-3.480+1	8.407	1.674+1	4.321+1	1.279+1
3290	1.009+1	-3.482+1	8.412	1.672+1	4.324+1	1.266+1
3300	1.009+1	-3.485+1	8.417	1.670+1	4.327+1	1.252+1
3310	1.010+1	-3.488+1	8.422	1.668+1	4.330+1	1.239+1
3320	1.010+1	-3.490+1	8.427	1.666+1	4.333+1	1.226+1
3330	1.010+1	-3.493+1	8.432	1.664+1	4.336+1	1.213+1
3340	1.010+1	-3.495+1	8.437	1.662+1	4.339+1	1.199+1
3350	1.010+1	-3.498+1	8.442	1.660+1	4.342+1	1.186+1
3360	1.011+1	-3.500+1	8.447	1.658+1	4.345+1	1.173+1
3370	1.011+1	-3.503+1	8.452	1.656+1	4.348+1	1.161+1
3380	1.011+1	-3.505+1	8.457	1.655+1	4.351+1	1.148+1
3390	1.011+1	-3.508+1	8.462	1.653+1	4.354+1	1.135+1
3400	1.011+1	-3.510+1	8.467	1.651+1	4.357+1	1.122+1
3410	1.012+1	-3.513+1	8.472	1.649+1	4.360+1	1.110+1
3420	1.012+1	-3.515+1	8.477	1.647+1	4.363+1	1.097+1
3430	1.012+1	-3.518+1	8.482	1.645+1	4.366+1	1.085+1
3440	1.012+1	-3.520+1	8.486	1.643+1	4.369+1	1.072+1
3450	1.012+1	-3.522+1	8.491	1.642+1	4.372+1	1.060+1
3460	1.013+1	-3.525+1	8.496	1.640+1	4.374+1	1.048+1
3470	1.013+1	-3.527+1	8.500	1.638+1	4.377+1	1.036+1
3480	1.013+1	-3.530+1	8.505	1.636+1	4.380+1	1.024+1
3490	1.013+1	-3.532+1	8.510	1.634+1	4.383+1	1.012+1
3500	1.013+1	-3.534+1	8.514	1.633+1	4.386+1	9.996
3510	1.014+1	-3.537+1	8.519	1.631+1	4.389+1	9.878
3520	1.014+1	-3.539+1	8.523	1.629+1	4.392+1	9.760
3530	1.014+1	-3.542+1	8.528	1.627+1	4.394+1	9.642
3540	1.014+1	-3.544+1	8.533	1.626+1	4.397+1	9.526
3550	1.014+1	-3.546+1	8.537	1.624+1	4.400+1	9.410
3560	1.015+1	-3.549+1	8.542	1.622+1	4.403+1	9.295
3570	1.015+1	-3.551+1	8.546	1.620+1	4.406+1	9.180
3580	1.015+1	-3.554+1	8.551	1.619+1	4.409+1	9.066
3590	1.015+1	-3.556+1	8.555	1.617+1	4.412+1	8.953

SPECIE C2H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	1.015+1	-3.558+1	8.560	1.615+1	4.414+1	8.840
3610	1.016+1	-3.561+1	8.564	1.614+1	4.417+1	8.728
3620	1.016+1	-3.563+1	8.569	1.612+1	4.420+1	8.617
3630	1.016+1	-3.566+1	8.573	1.610+1	4.423+1	8.506
3640	1.016+1	-3.568+1	8.578	1.609+1	4.426+1	8.396
3650	1.016+1	-3.570+1	8.582	1.607+1	4.428+1	8.286
3660	1.016+1	-3.573+1	8.586	1.606+1	4.431+1	8.177
3670	1.017+1	-3.575+1	8.591	1.604+1	4.434+1	8.068
3680	1.017+1	-3.577+1	8.595	1.602+1	4.437+1	7.961
3690	1.017+1	-3.580+1	8.599	1.601+1	4.440+1	7.853
3700	1.017+1	-3.582+1	8.603	1.599+1	4.442+1	7.747
3710	1.017+1	-3.584+1	8.608	1.598+1	4.445+1	7.641
3720	1.017+1	-3.587+1	8.612	1.596+1	4.448+1	7.535
3730	1.017+1	-3.589+1	8.616	1.595+1	4.451+1	7.430
3740	1.018+1	-3.591+1	8.620	1.593+1	4.453+1	7.326
3750	1.018+1	-3.594+1	8.624	1.591+1	4.456+1	7.222
3760	1.018+1	-3.596+1	8.628	1.590+1	4.459+1	7.119
3770	1.018+1	-3.598+1	8.632	1.588+1	4.461+1	7.016
3780	1.018+1	-3.600+1	8.636	1.587+1	4.464+1	6.914
3790	1.018+1	-3.603+1	8.640	1.585+1	4.467+1	6.812
3800	1.018+1	-3.605+1	8.644	1.584+1	4.469+1	6.711
3810	1.019+1	-3.607+1	8.649	1.582+1	4.472+1	6.610
3820	1.019+1	-3.610+1	8.653	1.581+1	4.475+1	6.510
3830	1.019+1	-3.612+1	8.657	1.579+1	4.477+1	6.410
3840	1.019+1	-3.614+1	8.661	1.578+1	4.480+1	6.311
3850	1.019+1	-3.616+1	8.665	1.577+1	4.483+1	6.212
3860	1.019+1	-3.619+1	8.669	1.575+1	4.485+1	6.114
3870	1.020+1	-3.621+1	8.673	1.574+1	4.488+1	6.016
3880	1.020+1	-3.623+1	8.677	1.572+1	4.491+1	5.919
3890	1.020+1	-3.625+1	8.681	1.571+1	4.493+1	5.822
3900	1.020+1	-3.627+1	8.685	1.569+1	4.496+1	5.726
3910	1.020+1	-3.630+1	8.689	1.568+1	4.499+1	5.631
3920	1.020+1	-3.632+1	8.693	1.567+1	4.501+1	5.537
3930	1.020+1	-3.634+1	8.696	1.565+1	4.504+1	5.442
3940	1.021+1	-3.636+1	8.700	1.564+1	4.506+1	5.349
3950	1.021+1	-3.639+1	8.704	1.563+1	4.509+1	5.255
3960	1.021+1	-3.641+1	8.708	1.561+1	4.512+1	5.163
3970	1.021+1	-3.643+1	8.712	1.560+1	4.514+1	5.071
3980	1.021+1	-3.645+1	8.716	1.558+1	4.517+1	4.979
3990	1.021+1	-3.648+1	8.719	1.557+1	4.520+1	4.888
4000	1.021+1	-3.650+1	8.723	1.556+1	4.522+1	4.797
4010	1.022+1	-3.652+1	8.727	1.554+1	4.525+1	4.706
4020	1.022+1	-3.654+1	8.730	1.553+1	4.527+1	4.616
4030	1.022+1	-3.656+1	8.734	1.552+1	4.530+1	4.525
4040	1.022+1	-3.659+1	8.738	1.550+1	4.532+1	4.436
4050	1.022+1	-3.661+1	8.741	1.549+1	4.535+1	4.346
4060	1.022+1	-3.663+1	8.745	1.548+1	4.537+1	4.258
4070	1.023+1	-3.665+1	8.749	1.547+1	4.540+1	4.169
4080	1.023+1	-3.667+1	8.752	1.545+1	4.542+1	4.081
4090	1.023+1	-3.669+1	8.756	1.544+1	4.545+1	3.994

SPECIE C2H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	1.023+1	-3.671+1	8.759	1.543+1	4.547+1	3.907
4110	1.023+1	-3.673+1	8.763	1.541+1	4.550+1	3.820
4120	1.023+1	-3.676+1	8.766	1.540+1	4.552+1	3.735
4130	1.023+1	-3.678+1	8.770	1.539+1	4.555+1	3.649
4140	1.023+1	-3.680+1	8.773	1.538+1	4.557+1	3.564
4150	1.024+1	-3.682+1	8.777	1.536+1	4.560+1	3.479
4160	1.024+1	-3.684+1	8.780	1.535+1	4.562+1	3.395
4170	1.024+1	-3.686+1	8.784	1.534+1	4.565+1	3.312
4180	1.024+1	-3.688+1	8.787	1.533+1	4.567+1	3.229
4190	1.024+1	-3.690+1	8.791	1.532+1	4.569+1	3.146
4200	1.024+1	-3.693+1	8.794	1.530+1	4.572+1	3.063
4210	1.024+1	-3.695+1	8.797	1.529+1	4.574+1	2.981
4220	1.024+1	-3.697+1	8.801	1.528+1	4.577+1	2.900
4230	1.024+1	-3.699+1	8.804	1.527+1	4.579+1	2.818
4240	1.024+1	-3.701+1	8.808	1.526+1	4.582+1	2.737
4250	1.025+1	-3.703+1	8.811	1.524+1	4.584+1	2.656
4260	1.025+1	-3.705+1	8.815	1.523+1	4.587+1	2.576
4270	1.025+1	-3.707+1	8.818	1.522+1	4.589+1	2.496
4280	1.025+1	-3.709+1	8.821	1.521+1	4.591+1	2.417
4290	1.025+1	-3.711+1	8.825	1.520+1	4.594+1	2.337
4300	1.025+1	-3.713+1	8.828	1.519+1	4.596+1	2.259
4310	1.025+1	-3.715+1	8.832	1.517+1	4.599+1	2.180
4320	1.025+1	-3.717+1	8.835	1.516+1	4.601+1	2.102
4330	1.025+1	-3.719+1	8.838	1.515+1	4.603+1	2.024
4340	1.025+1	-3.722+1	8.842	1.514+1	4.606+1	1.946
4350	1.026+1	-3.724+1	8.845	1.513+1	4.608+1	1.869
4360	1.026+1	-3.726+1	8.848	1.512+1	4.610+1	1.792
4370	1.026+1	-3.728+1	8.851	1.511+1	4.613+1	1.715
4380	1.026+1	-3.730+1	8.855	1.510+1	4.615+1	1.639
4390	1.026+1	-3.732+1	8.858	1.509+1	4.617+1	1.563
4400	1.026+1	-3.734+1	8.861	1.507+1	4.620+1	1.488
4410	1.026+1	-3.736+1	8.864	1.506+1	4.622+1	1.412
4420	1.026+1	-3.738+1	8.867	1.505+1	4.624+1	1.337
4430	1.026+1	-3.740+1	8.870	1.504+1	4.627+1	1.262
4440	1.026+1	-3.742+1	8.874	1.503+1	4.629+1	1.188
4450	1.027+1	-3.744+1	8.877	1.502+1	4.631+1	1.114
4460	1.027+1	-3.746+1	8.880	1.501+1	4.633+1	1.040
4470	1.027+1	-3.747+1	8.883	1.500+1	4.636+1	9.671-1
4480	1.027+1	-3.749+1	8.886	1.499+1	4.638+1	8.940-1
4490	1.027+1	-3.751+1	8.889	1.498+1	4.640+1	8.214-1
4500	1.027+1	-3.753+1	8.892	1.497+1	4.643+1	7.491-1
4510	1.027+1	-3.755+1	8.895	1.496+1	4.645+1	6.773-1
4520	1.027+1	-3.757+1	8.898	1.495+1	4.647+1	6.059-1
4530	1.027+1	-3.759+1	8.901	1.494+1	4.649+1	5.349-1
4540	1.027+1	-3.761+1	8.904	1.493+1	4.652+1	4.642-1
4550	1.028+1	-3.763+1	8.907	1.492+1	4.654+1	3.939-1
4560	1.028+1	-3.765+1	8.910	1.491+1	4.656+1	3.240-1
4570	1.028+1	-3.767+1	8.913	1.490+1	4.658+1	2.544-1
4580	1.028+1	-3.769+1	8.916	1.489+1	4.661+1	1.851-1
4590	1.028+1	-3.771+1	8.919	1.488+1	4.663+1	1.161-1

SPECIE C2H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	1.028+1	-3.773+1	8.922	1.487+1	4.665+1	-4.744-2
4610	1.028+1	-3.775+1	8.925	1.486+1	4.667+1	-2.127-2
4620	1.028+1	-3.777+1	8.928	1.485+1	4.670+1	-8.951-2
4630	1.028+1	-3.779+1	8.931	1.484+1	4.672+1	-1.576-1
4640	1.028+1	-3.781+1	8.934	1.483+1	4.674+1	-2.254-1
4650	1.029+1	-3.783+1	8.936	1.482+1	4.676+1	-2.929-1
4660	1.029+1	-3.785+1	8.939	1.481+1	4.679+1	-3.602-1
4670	1.029+1	-3.787+1	8.942	1.480+1	4.681+1	-4.272-1
4680	1.029+1	-3.788+1	8.945	1.479+1	4.683+1	-4.939-1
4690	1.029+1	-3.790+1	8.948	1.478+1	4.685+1	-5.603-1
4700	1.029+1	-3.792+1	8.951	1.477+1	4.687+1	-6.264-1
4710	1.029+1	-3.794+1	8.953	1.476+1	4.689+1	-6.918-1
4720	1.029+1	-3.796+1	8.956	1.475+1	4.692+1	-7.571-1
4730	1.029+1	-3.798+1	8.959	1.474+1	4.694+1	-8.220-1
4740	1.029+1	-3.800+1	8.962	1.473+1	4.696+1	-8.865-1
4750	1.030+1	-3.802+1	8.965	1.472+1	4.698+1	-9.507-1
4760	1.030+1	-3.804+1	8.968	1.471+1	4.700+1	-1.015
4770	1.030+1	-3.806+1	8.970	1.470+1	4.703+1	-1.078
4780	1.030+1	-3.808+1	8.973	1.469+1	4.705+1	-1.142
4790	1.030+1	-3.809+1	8.976	1.468+1	4.707+1	-1.205
4800	1.030+1	-3.811+1	8.979	1.467+1	4.709+1	-1.268
4810	1.030+1	-3.813+1	8.982	1.467+1	4.711+1	-1.331
4820	1.030+1	-3.815+1	8.985	1.466+1	4.714+1	-1.394
4830	1.030+1	-3.817+1	8.987	1.465+1	4.716+1	-1.457
4840	1.030+1	-3.819+1	8.990	1.464+1	4.718+1	-1.520
4850	1.030+1	-3.821+1	8.993	1.463+1	4.720+1	-1.582
4860	1.030+1	-3.822+1	8.996	1.462+1	4.722+1	-1.644
4870	1.030+1	-3.824+1	8.998	1.461+1	4.724+1	-1.706
4880	1.030+1	-3.826+1	9.001	1.460+1	4.726+1	-1.768
4890	1.031+1	-3.828+1	9.004	1.459+1	4.728+1	-1.830
4900	1.031+1	-3.829+1	9.006	1.459+1	4.730+1	-1.891
4910	1.031+1	-3.831+1	9.009	1.458+1	4.732+1	-1.952
4920	1.031+1	-3.833+1	9.012	1.457+1	4.734+1	-2.012
4930	1.031+1	-3.835+1	9.014	1.456+1	4.736+1	-2.072
4940	1.031+1	-3.837+1	9.017	1.455+1	4.739+1	-2.132
4950	1.031+1	-3.839+1	9.019	1.454+1	4.741+1	-2.191
4960	1.031+1	-3.841+1	9.022	1.453+1	4.743+1	-2.250
4970	1.031+1	-3.842+1	9.024	1.452+1	4.745+1	-2.308
4980	1.031+1	-3.844+1	9.027	1.452+1	4.747+1	-2.367
4990	1.031+1	-3.846+1	9.029	1.451+1	4.749+1	-2.425
5000	1.031+1	-3.848+1	9.031	1.450+1	4.751+1	-2.483
5010	1.031+1	-3.850+1	9.034	1.449+1	4.753+1	-2.541
5020	1.031+1	-3.852+1	9.036	1.448+1	4.755+1	-2.599
5030	1.031+1	-3.853+1	9.039	1.447+1	4.757+1	-2.657
5040	1.031+1	-3.855+1	9.042	1.447+1	4.759+1	-2.715
5050	1.031+1	-3.857+1	9.044	1.446+1	4.761+1	-2.773
5060	1.032+1	-3.859+1	9.047	1.445+1	4.763+1	-2.830
5070	1.032+1	-3.861+1	9.049	1.444+1	4.765+1	-2.887
5080	1.032+1	-3.862+1	9.052	1.443+1	4.767+1	-2.945
5090	1.032+1	-3.864+1	9.054	1.443+1	4.769+1	-3.002

SPECIE C2H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	1.032+1	-3.866+1	9.057	1.442+1	4.771+1	
5110	1.032+1	-3.867+1	9.059	1.441+1	4.773+1	-3.058
5120	1.032+1	-3.869+1	9.062	1.440+1	4.775+1	-3.114
5130	1.032+1	-3.871+1	9.064	1.439+1	4.777+1	-3.170
5140	1.032+1	-3.873+1	9.067	1.439+1	4.779+1	-3.226
5150	1.032+1	-3.874+1	9.069	1.438+1	4.781+1	-3.281
5160	1.032+1	-3.876+1	9.072	1.437+1	4.783+1	-3.336
5170	1.032+1	-3.878+1	9.074	1.436+1	4.785+1	-3.391
5180	1.033+1	-3.880+1	9.077	1.435+1	4.787+1	-3.445
5190	1.033+1	-3.882+1	9.079	1.435+1	4.789+1	-3.499
5200	1.033+1	-3.883+1	9.082	1.434+1	4.791+1	-3.554
5210	1.033+1	-3.885+1	9.084	1.433+1	4.793+1	-3.607
5220	1.033+1	-3.887+1	9.087	1.432+1	4.795+1	-3.661
5230	1.033+1	-3.889+1	9.089	1.432+1	4.797+1	-3.714
5240	1.033+1	-3.890+1	9.091	1.431+1	4.799+1	-3.768
5250	1.033+1	-3.892+1	9.094	1.430+1	4.801+1	-3.821
5260	1.033+1	-3.894+1	9.096	1.429+1	4.803+1	-3.874
5270	1.033+1	-3.896+1	9.098	1.429+1	4.805+1	-3.926
5280	1.033+1	-3.897+1	9.101	1.428+1	4.807+1	-3.979
5290	1.033+1	-3.899+1	9.103	1.427+1	4.809+1	-4.031
5300	1.033+1	-3.901+1	9.105	1.426+1	4.811+1	-4.083
5310	1.033+1	-3.903+1	9.107	1.426+1	4.813+1	-4.135
5320	1.033+1	-3.904+1	9.110	1.425+1	4.815+1	-4.186
5330	1.033+1	-3.906+1	9.112	1.424+1	4.817+1	-4.238
5340	1.033+1	-3.908+1	9.114	1.423+1	4.819+1	-4.289
5350	1.033+1	-3.909+1	9.116	1.423+1	4.821+1	-4.340
5360	1.033+1	-3.911+1	9.119	1.422+1	4.823+1	-4.391
5370	1.033+1	-3.913+1	9.121	1.421+1	4.825+1	-4.441
5380	1.033+1	-3.914+1	9.123	1.420+1	4.827+1	-4.492
5390	1.034+1	-3.916+1	9.125	1.420+1	4.829+1	-4.542
5400	1.034+1	-3.918+1	9.128	1.419+1	4.831+1	-4.593
5410	1.034+1	-3.919+1	9.130	1.418+1	4.832+1	-4.643
5420	1.034+1	-3.921+1	9.132	1.418+1	4.834+1	-4.693
5430	1.034+1	-3.923+1	9.134	1.417+1	4.836+1	-4.743
5440	1.034+1	-3.924+1	9.137	1.416+1	4.838+1	-4.793
5450	1.034+1	-3.926+1	9.139	1.415+1	4.840+1	-4.842
5460	1.034+1	-3.928+1	9.141	1.415+1	4.842+1	-4.892
5470	1.034+1	-3.929+1	9.143	1.414+1	4.844+1	-4.941
5480	1.034+1	-3.931+1	9.146	1.413+1	4.846+1	-4.990
5490	1.034+1	-3.933+1	9.148	1.413+1	4.847+1	-5.039
5500	1.034+1	-3.934+1	9.150	1.412+1	4.849+1	-5.087
5510	1.034+1	-3.936+1	9.152	1.411+1	4.851+1	-5.136
5520	1.034+1	-3.938+1	9.154	1.411+1	4.853+1	-5.184
5530	1.034+1	-3.939+1	9.156	1.410+1	4.855+1	-5.232
5540	1.034+1	-3.941+1	9.159	1.410+1	4.857+1	-5.280
5550	1.034+1	-3.943+1	9.161	1.409+1	4.859+1	-5.328
5560	1.034+1	-3.944+1	9.163	1.408+1	4.861+1	-5.375
5570	1.034+1	-3.946+1	9.165	1.407+1	4.862+1	-5.423
5580	1.034+1	-3.948+1	9.167	1.407+1	4.864+1	-5.470
5590	1.035+1	-3.949+1	9.169	1.406+1	4.866+1	-5.516
						-5.563

SPECIE C2H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	1.035+1	-3.951+1	9.171	1.405+1	4.868+1	-5.610
5610	1.035+1	-3.952+1	9.173	1.405+1	4.870+1	-5.656
5620	1.035+1	-3.954+1	9.175	1.404+1	4.872+1	-5.702
5630	1.035+1	-3.956+1	9.177	1.403+1	4.873+1	-5.748
5640	1.035+1	-3.957+1	9.179	1.403+1	4.875+1	-5.793
5650	1.035+1	-3.959+1	9.181	1.402+1	4.877+1	-5.839
5660	1.035+1	-3.961+1	9.183	1.401+1	4.879+1	-5.884
5670	1.035+1	-3.962+1	9.186	1.401+1	4.881+1	-5.929
5680	1.035+1	-3.964+1	9.188	1.400+1	4.883+1	-5.974
5690	1.035+1	-3.966+1	9.190	1.399+1	4.885+1	-6.020
5700	1.035+1	-3.967+1	9.192	1.399+1	4.886+1	-6.064
5710	1.035+1	-3.969+1	9.194	1.398+1	4.888+1	-6.109
5720	1.035+1	-3.971+1	9.196	1.398+1	4.890+1	-6.153
5730	1.035+1	-3.972+1	9.198	1.397+1	4.892+1	-6.198
5740	1.035+1	-3.974+1	9.200	1.396+1	4.894+1	-6.242
5750	1.035+1	-3.975+1	9.202	1.396+1	4.896+1	-6.286
5760	1.035+1	-3.977+1	9.204	1.395+1	4.897+1	-6.330
5770	1.035+1	-3.979+1	9.206	1.394+1	4.899+1	-6.374
5780	1.035+1	-3.980+1	9.208	1.394+1	4.901+1	-6.418
5790	1.036+1	-3.982+1	9.210	1.393+1	4.903+1	-6.461
5800	1.036+1	-3.983+1	9.212	1.393+1	4.904+1	-6.505
5810	1.036+1	-3.985+1	9.214	1.392+1	4.906+1	-6.548
5820	1.036+1	-3.986+1	9.216	1.391+1	4.908+1	-6.591
5830	1.036+1	-3.988+1	9.218	1.391+1	4.910+1	-6.634
5840	1.036+1	-3.990+1	9.220	1.390+1	4.912+1	-6.676
5850	1.036+1	-3.991+1	9.222	1.389+1	4.913+1	-6.719
5860	1.036+1	-3.993+1	9.223	1.389+1	4.915+1	-6.761
5870	1.036+1	-3.994+1	9.225	1.388+1	4.917+1	-6.803
5880	1.036+1	-3.996+1	9.227	1.388+1	4.919+1	-6.845
5890	1.036+1	-3.998+1	9.229	1.387+1	4.921+1	-6.887
5900	1.036+1	-3.999+1	9.231	1.386+1	4.922+1	-6.929
5910	1.036+1	-4.001+1	9.233	1.386+1	4.924+1	-6.971
5920	1.036+1	-4.002+1	9.235	1.385+1	4.926+1	-7.012
5930	1.036+1	-4.004+1	9.236	1.385+1	4.928+1	-7.054
5940	1.036+1	-4.005+1	9.238	1.384+1	4.929+1	-7.095
5950	1.036+1	-4.007+1	9.240	1.383+1	4.931+1	-7.136
5960	1.036+1	-4.009+1	9.242	1.383+1	4.933+1	-7.178
5970	1.036+1	-4.010+1	9.244	1.382+1	4.934+1	-7.219
5980	1.036+1	-4.012+1	9.246	1.382+1	4.936+1	-7.260
5990	1.037+1	-4.013+1	9.248	1.381+1	4.938+1	-7.301
6000	1.037+1	-4.015+1	9.250	1.381+1	4.940+1	-7.342

SPECIE C2H4
MÓLECULAR WEIGHT EQUALS 28.0548
DELTA E ZERO EQUALS 14.522 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(NBS 500, 2/1/52) (10)

THERMAL

(J. S. GURDON, PRIVATE COMMUNICATION, 5/5/60) (6)

SPECIE C2H4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
300	5.264	-2.264+1	4.270	2.863+1	2.691+1	5.112+2
310	5.388	-2.278+1	4.304	2.790+1	2.708+1	4.937+2
320	5.512	-2.291+1	4.340	2.720+1	2.725+1	4.772+2
330	5.637	-2.305+1	4.377	2.655+1	2.742+1	4.615+2
340	5.761	-2.318+1	4.416	2.594+1	2.759+1	4.466+2
350	5.885	-2.331+1	4.456	2.536+1	2.776+1	4.326+2
360	6.009	-2.343+1	4.497	2.482+1	2.793+1	4.193+2
370	6.132	-2.356+1	4.539	2.431+1	2.810+1	4.066+2
380	6.255	-2.368+1	4.583	2.382+1	2.826+1	3.946+2
390	6.376	-2.380+1	4.627	2.337+1	2.843+1	3.833+2
400	6.497	-2.392+1	4.672	2.294+1	2.859+1	3.725+2
410	6.617	-2.404+1	4.718	2.254+1	2.875+1	3.622+2
420	6.735	-2.415+1	4.765	2.216+1	2.891+1	3.525+2
430	6.852	-2.426+1	4.812	2.180+1	2.907+1	3.432+2
440	6.968	-2.437+1	4.860	2.146+1	2.923+1	3.344+2
450	7.083	-2.448+1	4.908	2.114+1	2.939+1	3.259+2
460	7.196	-2.459+1	4.956	2.083+1	2.955+1	3.179+2
470	7.307	-2.470+1	5.005	2.055+1	2.970+1	3.102+2
480	7.417	-2.480+1	5.054	2.027+1	2.986+1	3.028+2
490	7.525	-2.491+1	5.104	2.002+1	3.001+1	2.958+2
500	7.631	-2.501+1	5.153	1.977+1	3.017+1	2.890+2
510	7.735	-2.511+1	5.202	1.953+1	3.032+1	2.825+2
520	7.838	-2.522+1	5.252	1.931+1	3.047+1	2.762+2
530	7.938	-2.532+1	5.303	1.910+1	3.062+1	2.702+2
540	8.037	-2.542+1	5.352	1.889+1	3.077+1	2.644+2
550	8.135	-2.552+1	5.402	1.870+1	3.092+1	2.587+2
560	8.231	-2.561+1	5.452	1.851+1	3.106+1	2.533+2
570	8.326	-2.571+1	5.501	1.833+1	3.121+1	2.480+2
580	8.419	-2.581+1	5.551	1.816+1	3.136+1	2.429+2
590	8.510	-2.590+1	5.599	1.799+1	3.150+1	2.380+2
600	8.600	-2.600+1	5.649	1.783+1	3.164+1	2.332+2
610	8.689	-2.609+1	5.698	1.768+1	3.179+1	2.286+2
620	8.776	-2.618+1	5.747	1.754+1	3.193+1	2.242+2
630	8.862	-2.628+1	5.796	1.740+1	3.207+1	2.199+2
640	8.947	-2.637+1	5.844	1.727+1	3.221+1	2.158+2
650	9.030	-2.646+1	5.893	1.714+1	3.235+1	2.117+2
660	9.112	-2.655+1	5.941	1.702+1	3.249+1	2.078+2
670	9.193	-2.664+1	5.989	1.690+1	3.263+1	2.040+2
680	9.272	-2.673+1	6.037	1.678+1	3.276+1	2.003+2
690	9.351	-2.682+1	6.084	1.668+1	3.290+1	1.967+2
700	9.428	-2.690+1	6.132	1.657+1	3.303+1	1.932+2
710	9.504	-2.699+1	6.178	1.647+1	3.317+1	1.899+2
720	9.580	-2.708+1	6.225	1.638+1	3.330+1	1.866+2
730	9.654	-2.716+1	6.272	1.628+1	3.343+1	1.834+2
740	9.727	-2.725+1	6.318	1.619+1	3.357+1	1.803+2
750	9.799	-2.733+1	6.364	1.611+1	3.370+1	1.773+2
760	9.870	-2.742+1	6.409	1.603+1	3.383+1	1.743+2
770	9.940	-2.750+1	6.455	1.595+1	3.396+1	1.714+2
780	1.001+1	-2.759+1	6.500	1.587+1	3.409+1	1.686+2
790	1.008+1	-2.767+1	6.545	1.580+1	3.421+1	1.659+2

SPECIE C2H4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
800	1.014+1	-2.775+1	6.589	1.572+1	3.434+1	1.632+2
810	1.021+1	-2.783+1	6.634	1.566+1	3.447+1	1.606+2
820	1.028+1	-2.792+1	6.678	1.559+1	3.459+1	1.581+2
830	1.034+1	-2.800+1	6.721	1.553+1	3.472+1	1.556+2
840	1.041+1	-2.808+1	6.765	1.547+1	3.484+1	1.532+2
850	1.047+1	-2.816+1	6.808	1.541+1	3.497+1	1.509+2
860	1.053+1	-2.824+1	6.851	1.535+1	3.509+1	1.486+2
870	1.059+1	-2.832+1	6.894	1.529+1	3.521+1	1.463+2
880	1.065+1	-2.840+1	6.936	1.524+1	3.533+1	1.441+2
890	1.071+1	-2.848+1	6.978	1.519+1	3.545+1	1.420+2
900	1.077+1	-2.855+1	7.020	1.514+1	3.557+1	1.399+2
910	1.083+1	-2.863+1	7.062	1.509+1	3.569+1	1.378+2
920	1.089+1	-2.871+1	7.103	1.505+1	3.581+1	1.358+2
930	1.095+1	-2.879+1	7.144	1.500+1	3.593+1	1.338+2
940	1.100+1	-2.886+1	7.185	1.496+1	3.605+1	1.319+2
950	1.106+1	-2.894+1	7.225	1.492+1	3.616+1	1.300+2
960	1.111+1	-2.901+1	7.265	1.488+1	3.628+1	1.282+2
970	1.117+1	-2.909+1	7.305	1.484+1	3.640+1	1.264+2
980	1.122+1	-2.917+1	7.345	1.480+1	3.651+1	1.246+2
990	1.127+1	-2.924+1	7.384	1.477+1	3.662+1	1.229+2
1000	1.132+1	-2.931+1	7.424	1.473+1	3.674+1	1.212+2
1010	1.138+1	-2.939+1	7.462	1.470+1	3.685+1	1.195+2
1020	1.143+1	-2.946+1	7.501	1.467+1	3.696+1	1.179+2
1030	1.148+1	-2.954+1	7.539	1.463+1	3.707+1	1.163+2
1040	1.153+1	-2.961+1	7.577	1.460+1	3.719+1	1.147+2
1050	1.157+1	-2.968+1	7.615	1.458+1	3.730+1	1.131+2
1060	1.162+1	-2.975+1	7.653	1.455+1	3.741+1	1.116+2
1070	1.167+1	-2.983+1	7.690	1.452+1	3.752+1	1.101+2
1080	1.172+1	-2.990+1	7.727	1.449+1	3.762+1	1.087+2
1090	1.176+1	-2.997+1	7.764	1.447+1	3.773+1	1.073+2
1100	1.181+1	-3.004+1	7.801	1.444+1	3.784+1	1.058+2
1110	1.185+1	-3.011+1	7.837	1.442+1	3.795+1	1.045+2
1120	1.190+1	-3.018+1	7.873	1.440+1	3.805+1	1.031+2
1130	1.194+1	-3.025+1	7.909	1.438+1	3.816+1	1.018+2
1140	1.199+1	-3.032+1	7.944	1.435+1	3.827+1	1.005+2
1150	1.203+1	-3.039+1	7.980	1.433+1	3.837+1	9.919+1
1160	1.207+1	-3.046+1	8.015	1.431+1	3.847+1	9.792+1
1170	1.211+1	-3.053+1	8.050	1.430+1	3.858+1	9.668+1
1180	1.215+1	-3.060+1	8.084	1.428+1	3.868+1	9.546+1
1190	1.219+1	-3.067+1	8.119	1.426+1	3.878+1	9.426+1
1200	1.223+1	-3.073+1	8.153	1.424+1	3.889+1	9.308+1
1210	1.227+1	-3.080+1	8.187	1.423+1	3.899+1	9.192+1
1220	1.231+1	-3.087+1	8.220	1.421+1	3.909+1	9.077+1
1230	1.235+1	-3.094+1	8.254	1.419+1	3.919+1	8.965+1
1240	1.239+1	-3.100+1	8.287	1.418+1	3.929+1	8.855+1
1250	1.243+1	-3.107+1	8.320	1.417+1	3.939+1	8.746+1
1260	1.246+1	-3.114+1	8.353	1.415+1	3.949+1	8.639+1
1270	1.250+1	-3.120+1	8.385	1.414+1	3.959+1	8.534+1
1280	1.254+1	-3.127+1	8.418	1.413+1	3.969+1	8.430+1
1290	1.257+1	-3.133+1	8.450	1.411+1	3.978+1	8.328+1

SPECIE C2H4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1300	1.261+1	-3.140+1	8.481	1.410+1	3.988+1	8.227+1
1310	1.264+1	-3.146+1	8.513	1.409+1	3.998+1	8.128+1
1320	1.268+1	-3.153+1	8.544	1.408+1	4.007+1	8.031+1
1330	1.271+1	-3.159+1	8.576	1.407+1	4.017+1	7.935+1
1340	1.274+1	-3.166+1	8.607	1.406+1	4.026+1	7.840+1
1350	1.278+1	-3.172+1	8.637	1.405+1	4.036+1	7.747+1
1360	1.281+1	-3.179+1	8.668	1.404+1	4.045+1	7.655+1
1370	1.284+1	-3.185+1	8.698	1.403+1	4.055+1	7.565+1
1380	1.287+1	-3.191+1	8.728	1.402+1	4.064+1	7.475+1
1390	1.290+1	-3.198+1	8.758	1.402+1	4.073+1	7.388+1
1400	1.294+1	-3.204+1	8.788	1.401+1	4.083+1	7.301+1
1410	1.297+1	-3.210+1	8.818	1.400+1	4.092+1	7.216+1
1420	1.300+1	-3.216+1	8.847	1.399+1	4.101+1	7.131+1
1430	1.303+1	-3.223+1	8.876	1.399+1	4.110+1	7.048+1
1440	1.306+1	-3.229+1	8.905	1.398+1	4.119+1	6.967+1
1450	1.308+1	-3.235+1	8.934	1.397+1	4.128+1	6.886+1
1460	1.311+1	-3.241+1	8.962	1.397+1	4.137+1	6.806+1
1470	1.314+1	-3.247+1	8.991	1.396+1	4.146+1	6.728+1
1480	1.317+1	-3.253+1	9.019	1.396+1	4.155+1	6.650+1
1490	1.320+1	-3.259+1	9.047	1.395+1	4.164+1	6.574+1
1500	1.322+1	-3.266+1	9.074	1.395+1	4.173+1	6.499+1
1510	1.325+1	-3.272+1	9.102	1.394+1	4.182+1	6.424+1
1520	1.328+1	-3.278+1	9.129	1.394+1	4.191+1	6.351+1
1530	1.330+1	-3.284+1	9.157	1.393+1	4.199+1	6.278+1
1540	1.333+1	-3.290+1	9.184	1.393+1	4.208+1	6.207+1
1550	1.336+1	-3.296+1	9.210	1.392+1	4.217+1	6.136+1
1560	1.338+1	-3.301+1	9.237	1.392+1	4.225+1	6.067+1
1570	1.341+1	-3.307+1	9.264	1.392+1	4.234+1	5.998+1
1580	1.343+1	-3.313+1	9.290	1.391+1	4.242+1	5.930+1
1590	1.345+1	-3.319+1	9.316	1.391+1	4.251+1	5.863+1
1600	1.348+1	-3.325+1	9.342	1.391+1	4.259+1	5.797+1
1610	1.350+1	-3.331+1	9.368	1.391+1	4.268+1	5.731+1
1620	1.353+1	-3.337+1	9.393	1.390+1	4.276+1	5.667+1
1630	1.355+1	-3.342+1	9.419	1.390+1	4.284+1	5.603+1
1640	1.357+1	-3.348+1	9.444	1.390+1	4.293+1	5.540+1
1650	1.359+1	-3.354+1	9.469	1.390+1	4.301+1	5.478+1
1660	1.362+1	-3.360+1	9.494	1.390+1	4.309+1	5.416+1
1670	1.364+1	-3.365+1	9.519	1.389+1	4.317+1	5.356+1
1680	1.366+1	-3.371+1	9.543	1.389+1	4.325+1	5.296+1
1690	1.368+1	-3.377+1	9.568	1.389+1	4.333+1	5.236+1
1700	1.370+1	-3.382+1	9.592	1.389+1	4.342+1	5.178+1
1710	1.372+1	-3.388+1	9.616	1.389+1	4.350+1	5.120+1
1720	1.374+1	-3.394+1	9.640	1.389+1	4.358+1	5.062+1
1730	1.376+1	-3.399+1	9.664	1.389+1	4.366+1	5.006+1
1740	1.378+1	-3.405+1	9.687	1.389+1	4.374+1	4.950+1
1750	1.380+1	-3.410+1	9.711	1.389+1	4.381+1	4.895+1
1760	1.382+1	-3.416+1	9.734	1.389+1	4.389+1	4.840+1
1770	1.384+1	-3.421+1	9.757	1.389+1	4.397+1	4.786+1
1780	1.386+1	-3.427+1	9.780	1.389+1	4.405+1	4.733+1
1790	1.388+1	-3.432+1	9.803	1.389+1	4.413+1	4.680+1

SPECIE C2H4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1800	1.390+1	-3.438+1	9.826	1.389+1	4.420+1	4.627+1
1810	1.392+1	-3.443+1	9.848	1.389+1	4.428+1	4.576+1
1820	1.394+1	-3.449+1	9.871	1.389+1	4.436+1	4.525+1
1830	1.395+1	-3.454+1	9.893	1.389+1	4.443+1	4.474+1
1840	1.397+1	-3.460+1	9.915	1.389+1	4.451+1	4.424+1
1850	1.399+1	-3.465+1	9.937	1.389+1	4.459+1	4.375+1
1860	1.401+1	-3.470+1	9.959	1.389+1	4.466+1	4.326+1
1870	1.402+1	-3.476+1	9.981	1.389+1	4.474+1	4.277+1
1880	1.404+1	-3.481+1	1.000+1	1.389+1	4.481+1	4.230+1
1890	1.406+1	-3.486+1	1.002+1	1.389+1	4.489+1	4.182+1
1900	1.407+1	-3.492+1	1.004+1	1.389+1	4.496+1	4.135+1
1910	1.409+1	-3.497+1	1.007+1	1.389+1	4.503+1	4.089+1
1920	1.411+1	-3.502+1	1.009+1	1.389+1	4.511+1	4.043+1
1930	1.412+1	-3.507+1	1.011+1	1.389+1	4.518+1	3.998+1
1940	1.414+1	-3.513+1	1.013+1	1.390+1	4.525+1	3.953+1
1950	1.415+1	-3.518+1	1.015+1	1.390+1	4.533+1	3.908+1
1960	1.417+1	-3.523+1	1.017+1	1.390+1	4.540+1	3.864+1
1970	1.419+1	-3.528+1	1.019+1	1.390+1	4.547+1	3.821+1
1980	1.420+1	-3.533+1	1.021+1	1.390+1	4.554+1	3.778+1
1990	1.422+1	-3.538+1	1.023+1	1.390+1	4.562+1	3.735+1
2000	1.423+1	-3.544+1	1.025+1	1.390+1	4.569+1	3.693+1
2010	1.424+1	-3.549+1	1.027+1	1.391+1	4.576+1	3.651+1
2020	1.426+1	-3.554+1	1.029+1	1.391+1	4.583+1	3.610+1
2030	1.427+1	-3.559+1	1.031+1	1.391+1	4.590+1	3.569+1
2040	1.429+1	-3.564+1	1.033+1	1.391+1	4.597+1	3.528+1
2050	1.430+1	-3.569+1	1.035+1	1.391+1	4.604+1	3.488+1
2060	1.431+1	-3.574+1	1.037+1	1.391+1	4.611+1	3.448+1
2070	1.433+1	-3.579+1	1.039+1	1.392+1	4.618+1	3.408+1
2080	1.434+1	-3.584+1	1.041+1	1.392+1	4.625+1	3.369+1
2090	1.436+1	-3.589+1	1.042+1	1.392+1	4.632+1	3.331+1
2100	1.437+1	-3.594+1	1.044+1	1.392+1	4.638+1	3.292+1
2110	1.438+1	-3.599+1	1.046+1	1.393+1	4.645+1	3.255+1
2120	1.439+1	-3.604+1	1.048+1	1.393+1	4.652+1	3.217+1
2130	1.441+1	-3.609+1	1.050+1	1.393+1	4.659+1	3.180+1
2140	1.442+1	-3.614+1	1.052+1	1.393+1	4.666+1	3.143+1
2150	1.443+1	-3.619+1	1.054+1	1.393+1	4.672+1	3.106+1
2160	1.444+1	-3.624+1	1.055+1	1.394+1	4.679+1	3.070+1
2170	1.446+1	-3.629+1	1.057+1	1.394+1	4.686+1	3.034+1
2180	1.447+1	-3.633+1	1.059+1	1.394+1	4.692+1	2.999+1
2190	1.448+1	-3.638+1	1.061+1	1.394+1	4.699+1	2.964+1
2200	1.449+1	-3.643+1	1.062+1	1.395+1	4.706+1	2.929+1
2210	1.450+1	-3.648+1	1.064+1	1.395+1	4.712+1	2.894+1
2220	1.452+1	-3.653+1	1.066+1	1.395+1	4.719+1	2.860+1
2230	1.453+1	-3.658+1	1.068+1	1.395+1	4.725+1	2.826+1
2240	1.454+1	-3.662+1	1.069+1	1.396+1	4.732+1	2.792+1
2250	1.455+1	-3.667+1	1.071+1	1.396+1	4.738+1	2.759+1
2260	1.456+1	-3.672+1	1.073+1	1.396+1	4.745+1	2.726+1
2270	1.457+1	-3.677+1	1.074+1	1.396+1	4.751+1	2.693+1
2280	1.458+1	-3.681+1	1.076+1	1.397+1	4.757+1	2.661+1
2290	1.459+1	-3.686+1	1.078+1	1.397+1	4.764+1	2.629+1

SPECIE C2H4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2300	1.460+1	-3.691+1	1.079+1	1.397+1	4.770+1	2.527+1
2310	1.461+1	-3.695+1	1.081+1	1.398+1	4.777+1	2.525+1
2320	1.462+1	-3.700+1	1.083+1	1.398+1	4.783+1	2.534+1
2330	1.463+1	-3.705+1	1.084+1	1.398+1	4.789+1	2.503+1
2340	1.464+1	-3.709+1	1.086+1	1.398+1	4.795+1	2.472+1
2350	1.465+1	-3.714+1	1.088+1	1.399+1	4.802+1	2.442+1
2360	1.466+1	-3.719+1	1.089+1	1.399+1	4.808+1	2.411+1
2370	1.467+1	-3.723+1	1.091+1	1.399+1	4.814+1	2.382+1
2380	1.468+1	-3.728+1	1.092+1	1.399+1	4.820+1	2.352+1
2390	1.469+1	-3.732+1	1.094+1	1.400+1	4.826+1	2.322+1
2400	1.470+1	-3.737+1	1.096+1	1.400+1	4.833+1	2.293+1
2410	1.471+1	-3.742+1	1.097+1	1.400+1	4.839+1	2.264+1
2420	1.472+1	-3.746+1	1.099+1	1.401+1	4.845+1	2.235+1
2430	1.473+1	-3.751+1	1.100+1	1.401+1	4.851+1	2.207+1
2440	1.474+1	-3.755+1	1.102+1	1.401+1	4.857+1	2.179+1
2450	1.475+1	-3.760+1	1.103+1	1.402+1	4.863+1	2.151+1
2460	1.476+1	-3.764+1	1.105+1	1.402+1	4.869+1	2.123+1
2470	1.477+1	-3.769+1	1.106+1	1.402+1	4.875+1	2.095+1
2480	1.478+1	-3.773+1	1.108+1	1.402+1	4.881+1	2.068+1
2490	1.478+1	-3.778+1	1.109+1	1.403+1	4.887+1	2.041+1
2500	1.479+1	-3.782+1	1.111+1	1.403+1	4.893+1	2.014+1
2510	1.480+1	-3.786+1	1.112+1	1.403+1	4.899+1	1.987+1
2520	1.481+1	-3.791+1	1.114+1	1.404+1	4.905+1	1.960+1
2530	1.482+1	-3.795+1	1.115+1	1.404+1	4.910+1	1.934+1
2540	1.483+1	-3.800+1	1.117+1	1.404+1	4.916+1	1.908+1
2550	1.483+1	-3.804+1	1.118+1	1.405+1	4.922+1	1.882+1
2560	1.484+1	-3.808+1	1.119+1	1.405+1	4.928+1	1.856+1
2570	1.485+1	-3.813+1	1.121+1	1.405+1	4.934+1	1.831+1
2580	1.486+1	-3.817+1	1.122+1	1.406+1	4.939+1	1.806+1
2590	1.487+1	-3.822+1	1.124+1	1.406+1	4.945+1	1.781+1
2600	1.487+1	-3.826+1	1.125+1	1.406+1	4.951+1	1.756+1
2610	1.488+1	-3.830+1	1.126+1	1.406+1	4.957+1	1.731+1
2620	1.489+1	-3.835+1	1.128+1	1.407+1	4.962+1	1.707+1
2630	1.490+1	-3.839+1	1.129+1	1.407+1	4.968+1	1.682+1
2640	1.490+1	-3.843+1	1.131+1	1.407+1	4.974+1	1.658+1
2650	1.491+1	-3.847+1	1.132+1	1.408+1	4.979+1	1.634+1
2660	1.492+1	-3.852+1	1.133+1	1.408+1	4.985+1	1.610+1
2670	1.493+1	-3.856+1	1.135+1	1.408+1	4.991+1	1.587+1
2680	1.493+1	-3.860+1	1.136+1	1.409+1	4.996+1	1.563+1
2690	1.494+1	-3.864+1	1.137+1	1.409+1	5.002+1	1.540+1
2700	1.495+1	-3.869+1	1.139+1	1.409+1	5.007+1	1.517+1
2710	1.495+1	-3.873+1	1.140+1	1.410+1	5.013+1	1.494+1
2720	1.496+1	-3.877+1	1.141+1	1.410+1	5.018+1	1.472+1
2730	1.497+1	-3.881+1	1.143+1	1.410+1	5.024+1	1.449+1
2740	1.497+1	-3.885+1	1.144+1	1.411+1	5.029+1	1.427+1
2750	1.498+1	-3.890+1	1.145+1	1.411+1	5.035+1	1.405+1
2760	1.499+1	-3.894+1	1.146+1	1.411+1	5.040+1	1.382+1
2770	1.500+1	-3.898+1	1.148+1	1.412+1	5.046+1	1.361+1
2780	1.500+1	-3.902+1	1.149+1	1.412+1	5.051+1	1.339+1
2790	1.501+1	-3.906+1	1.150+1	1.412+1	5.056+1	1.317+1

SPECIE C2H4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2800	1.501+1	-3.910+1	1.151+1	1.412+1	5.062+1	1.296+1
2810	1.502+1	-3.914+1	1.153+1	1.413+1	5.067+1	1.275+1
2820	1.503+1	-3.918+1	1.154+1	1.413+1	5.072+1	1.253+1
2830	1.503+1	-3.923+1	1.155+1	1.413+1	5.078+1	1.233+1
2840	1.504+1	-3.927+1	1.156+1	1.414+1	5.083+1	1.212+1
2850	1.505+1	-3.931+1	1.158+1	1.414+1	5.088+1	1.191+1
2860	1.505+1	-3.935+1	1.159+1	1.414+1	5.094+1	1.171+1
2870	1.506+1	-3.939+1	1.160+1	1.415+1	5.099+1	1.150+1
2880	1.506+1	-3.943+1	1.161+1	1.415+1	5.104+1	1.130+1
2890	1.507+1	-3.947+1	1.162+1	1.415+1	5.109+1	1.110+1
2900	1.508+1	-3.951+1	1.164+1	1.416+1	5.115+1	1.090+1
2910	1.508+1	-3.955+1	1.165+1	1.416+1	5.120+1	1.070+1
2920	1.509+1	-3.959+1	1.166+1	1.416+1	5.125+1	1.050+1
2930	1.509+1	-3.963+1	1.167+1	1.417+1	5.130+1	1.031+1
2940	1.510+1	-3.967+1	1.168+1	1.417+1	5.135+1	1.012+1
2950	1.510+1	-3.971+1	1.170+1	1.417+1	5.140+1	9.923
2960	1.511+1	-3.975+1	1.171+1	1.418+1	5.145+1	9.732
2970	1.511+1	-3.979+1	1.172+1	1.418+1	5.151+1	9.542
2980	1.512+1	-3.983+1	1.173+1	1.418+1	5.156+1	9.353
2990	1.513+1	-3.987+1	1.174+1	1.418+1	5.161+1	9.165
3000	1.513+1	-3.991+1	1.175+1	1.419+1	5.166+1	8.979
3010	1.514+1	-3.994+1	1.176+1	1.419+1	5.171+1	8.794
3020	1.514+1	-3.998+1	1.177+1	1.419+1	5.176+1	8.611
3030	1.515+1	-4.002+1	1.179+1	1.420+1	5.181+1	8.428
3040	1.515+1	-4.006+1	1.180+1	1.420+1	5.186+1	8.246
3050	1.516+1	-4.010+1	1.181+1	1.420+1	5.191+1	8.066
3060	1.516+1	-4.014+1	1.182+1	1.421+1	5.196+1	7.887
3070	1.517+1	-4.018+1	1.183+1	1.421+1	5.201+1	7.709
3080	1.517+1	-4.022+1	1.184+1	1.421+1	5.206+1	7.533
3090	1.518+1	-4.025+1	1.185+1	1.422+1	5.211+1	7.357
3100	1.518+1	-4.029+1	1.186+1	1.422+1	5.215+1	7.183
3110	1.519+1	-4.033+1	1.187+1	1.422+1	5.220+1	7.010
3120	1.519+1	-4.037+1	1.188+1	1.423+1	5.225+1	6.837
3130	1.520+1	-4.041+1	1.189+1	1.423+1	5.230+1	6.666
3140	1.520+1	-4.044+1	1.190+1	1.423+1	5.235+1	6.497
3150	1.521+1	-4.048+1	1.191+1	1.423+1	5.240+1	6.328
3160	1.521+1	-4.052+1	1.193+1	1.424+1	5.245+1	6.160
3170	1.521+1	-4.056+1	1.194+1	1.424+1	5.249+1	5.993
3180	1.522+1	-4.060+1	1.195+1	1.424+1	5.254+1	5.828
3190	1.522+1	-4.063+1	1.196+1	1.425+1	5.259+1	5.663
3200	1.523+1	-4.067+1	1.197+1	1.425+1	5.264+1	5.500
3210	1.523+1	-4.071+1	1.198+1	1.425+1	5.268+1	5.337
3220	1.524+1	-4.074+1	1.199+1	1.426+1	5.273+1	5.176
3230	1.524+1	-4.078+1	1.200+1	1.426+1	5.278+1	5.015
3240	1.525+1	-4.082+1	1.201+1	1.426+1	5.283+1	4.856
3250	1.525+1	-4.086+1	1.202+1	1.427+1	5.287+1	4.697
3260	1.525+1	-4.089+1	1.203+1	1.427+1	5.292+1	4.539
3270	1.526+1	-4.093+1	1.204+1	1.427+1	5.297+1	4.383
3280	1.526+1	-4.097+1	1.205+1	1.427+1	5.301+1	4.227
3290	1.527+1	-4.100+1	1.206+1	1.428+1	5.306+1	4.073

SPECIE C2H4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3300	1.527+1	-4.104+1	1.207+1	1.428+1	5.311+1	3.919
3310	1.528+1	-4.108+1	1.208+1	1.428+1	5.315+1	3.766
3320	1.528+1	-4.111+1	1.209+1	1.429+1	5.320+1	3.614
3330	1.528+1	-4.115+1	1.210+1	1.429+1	5.324+1	3.463
3340	1.529+1	-4.119+1	1.210+1	1.429+1	5.329+1	3.313
3350	1.529+1	-4.122+1	1.211+1	1.430+1	5.334+1	3.164
3360	1.530+1	-4.126+1	1.212+1	1.430+1	5.338+1	3.016
3370	1.530+1	-4.129+1	1.213+1	1.430+1	5.343+1	2.868
3380	1.530+1	-4.133+1	1.214+1	1.430+1	5.347+1	2.722
3390	1.531+1	-4.137+1	1.215+1	1.431+1	5.352+1	2.576
3400	1.531+1	-4.140+1	1.216+1	1.431+1	5.356+1	2.431
3410	1.531+1	-4.144+1	1.217+1	1.431+1	5.361+1	2.288
3420	1.532+1	-4.147+1	1.218+1	1.432+1	5.365+1	2.145
3430	1.532+1	-4.151+1	1.219+1	1.432+1	5.370+1	2.003
3440	1.533+1	-4.154+1	1.220+1	1.432+1	5.374+1	1.862
3450	1.533+1	-4.158+1	1.221+1	1.432+1	5.379+1	1.722
3460	1.533+1	-4.161+1	1.222+1	1.433+1	5.383+1	1.582
3470	1.534+1	-4.165+1	1.222+1	1.433+1	5.388+1	1.444
3480	1.534+1	-4.169+1	1.223+1	1.433+1	5.392+1	1.306
3490	1.534+1	-4.172+1	1.224+1	1.434+1	5.396+1	1.169
3500	1.535+1	-4.176+1	1.225+1	1.434+1	5.401+1	1.033
3510	1.535+1	-4.179+1	1.226+1	1.434+1	5.405+1	8.972-1
3520	1.535+1	-4.183+1	1.227+1	1.435+1	5.409+1	7.624-1
3530	1.536+1	-4.186+1	1.228+1	1.435+1	5.414+1	6.285-1
3540	1.536+1	-4.190+1	1.229+1	1.435+1	5.418+1	4.952-1
3550	1.536+1	-4.193+1	1.229+1	1.435+1	5.422+1	3.627-1
3560	1.537+1	-4.196+1	1.230+1	1.436+1	5.427+1	2.309-1
3570	1.537+1	-4.200+1	1.231+1	1.436+1	5.431+1	9.985-2
3580	1.537+1	-4.203+1	1.232+1	1.436+1	5.435+1	-3.050-2
3590	1.538+1	-4.207+1	1.233+1	1.436+1	5.440+1	-1.602-1
3600	1.538+1	-4.210+1	1.234+1	1.437+1	5.444+1	-2.890-1
3610	1.538+1	-4.214+1	1.235+1	1.437+1	5.448+1	-4.172-1
3620	1.539+1	-4.217+1	1.235+1	1.437+1	5.453+1	-5.447-1
3630	1.539+1	-4.220+1	1.236+1	1.438+1	5.457+1	-6.715-1
3640	1.539+1	-4.224+1	1.237+1	1.438+1	5.461+1	-7.976-1
3650	1.540+1	-4.227+1	1.238+1	1.438+1	5.465+1	-9.229-1
3660	1.540+1	-4.231+1	1.239+1	1.438+1	5.469+1	-1.048
3670	1.540+1	-4.234+1	1.240+1	1.439+1	5.474+1	-1.172
3680	1.541+1	-4.237+1	1.240+1	1.439+1	5.478+1	-1.295
3690	1.541+1	-4.241+1	1.241+1	1.439+1	5.482+1	-1.418
3700	1.541+1	-4.244+1	1.242+1	1.440+1	5.486+1	-1.540
3710	1.542+1	-4.247+1	1.243+1	1.440+1	5.490+1	-1.661
3720	1.542+1	-4.251+1	1.244+1	1.440+1	5.494+1	-1.781
3730	1.542+1	-4.254+1	1.244+1	1.440+1	5.499+1	-1.901
3740	1.542+1	-4.257+1	1.245+1	1.441+1	5.503+1	-2.021
3750	1.543+1	-4.261+1	1.246+1	1.441+1	5.507+1	-2.139
3760	1.543+1	-4.264+1	1.247+1	1.441+1	5.511+1	-2.258
3770	1.543+1	-4.267+1	1.248+1	1.441+1	5.515+1	-2.375
3780	1.544+1	-4.271+1	1.248+1	1.442+1	5.519+1	-2.492
3790	1.544+1	-4.274+1	1.249+1	1.442+1	5.523+1	-2.608

SPECIE C2H4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3800	1.544+1	-4.277+1	1.250+1	1.442+1	5.527+1	-2.723
3810	1.544+1	-4.281+1	1.251+1	1.443+1	5.531+1	-2.839
3820	1.545+1	-4.284+1	1.251+1	1.443+1	5.535+1	-2.953
3830	1.545+1	-4.287+1	1.252+1	1.443+1	5.539+1	-3.067
3840	1.545+1	-4.290+1	1.253+1	1.443+1	5.543+1	-3.180
3850	1.545+1	-4.294+1	1.254+1	1.444+1	5.548+1	-3.293
3860	1.546+1	-4.297+1	1.255+1	1.444+1	5.552+1	-3.405
3870	1.546+1	-4.300+1	1.255+1	1.444+1	5.556+1	-3.517
3880	1.546+1	-4.303+1	1.256+1	1.444+1	5.560+1	-3.628
3890	1.547+1	-4.307+1	1.257+1	1.445+1	5.563+1	-3.738
3900	1.547+1	-4.310+1	1.258+1	1.445+1	5.567+1	-3.848
3910	1.547+1	-4.313+1	1.258+1	1.445+1	5.571+1	-3.957
3920	1.547+1	-4.316+1	1.259+1	1.445+1	5.575+1	-4.065
3930	1.548+1	-4.320+1	1.260+1	1.446+1	5.579+1	-4.173
3940	1.548+1	-4.323+1	1.260+1	1.446+1	5.583+1	-4.281
3950	1.548+1	-4.326+1	1.261+1	1.446+1	5.587+1	-4.387
3960	1.548+1	-4.329+1	1.262+1	1.446+1	5.591+1	-4.493
3970	1.549+1	-4.332+1	1.263+1	1.447+1	5.595+1	-4.599
3980	1.549+1	-4.336+1	1.263+1	1.447+1	5.599+1	-4.704
3990	1.549+1	-4.339+1	1.264+1	1.447+1	5.603+1	-4.809
4000	1.549+1	-4.342+1	1.265+1	1.447+1	5.607+1	-4.913
4010	1.549+1	-4.345+1	1.266+1	1.448+1	5.611+1	-5.016
4020	1.550+1	-4.348+1	1.266+1	1.448+1	5.614+1	-5.119
4030	1.550+1	-4.351+1	1.267+1	1.448+1	5.618+1	-5.222
4040	1.550+1	-4.354+1	1.268+1	1.449+1	5.622+1	-5.324
4050	1.550+1	-4.358+1	1.268+1	1.449+1	5.626+1	-5.426
4060	1.551+1	-4.361+1	1.269+1	1.449+1	5.630+1	-5.527
4070	1.551+1	-4.364+1	1.270+1	1.449+1	5.634+1	-5.627
4080	1.551+1	-4.367+1	1.270+1	1.449+1	5.637+1	-5.727
4090	1.551+1	-4.370+1	1.271+1	1.450+1	5.641+1	-5.827
4100	1.552+1	-4.373+1	1.272+1	1.450+1	5.645+1	-5.926
4110	1.552+1	-4.376+1	1.272+1	1.450+1	5.649+1	-6.025
4120	1.552+1	-4.379+1	1.273+1	1.451+1	5.652+1	-6.123
4130	1.552+1	-4.382+1	1.274+1	1.451+1	5.656+1	-6.220
4140	1.552+1	-4.386+1	1.274+1	1.451+1	5.660+1	-6.317
4150	1.553+1	-4.389+1	1.275+1	1.451+1	5.664+1	-6.414
4160	1.553+1	-4.392+1	1.276+1	1.451+1	5.667+1	-6.510
4170	1.553+1	-4.395+1	1.276+1	1.452+1	5.671+1	-6.606
4180	1.553+1	-4.398+1	1.277+1	1.452+1	5.675+1	-6.701
4190	1.554+1	-4.401+1	1.278+1	1.452+1	5.679+1	-6.796
4200	1.554+1	-4.404+1	1.278+1	1.452+1	5.682+1	-6.890
4210	1.554+1	-4.407+1	1.279+1	1.453+1	5.686+1	-6.984
4220	1.554+1	-4.410+1	1.280+1	1.453+1	5.690+1	-7.077
4230	1.554+1	-4.413+1	1.280+1	1.453+1	5.693+1	-7.170
4240	1.555+1	-4.416+1	1.281+1	1.453+1	5.697+1	-7.262
4250	1.555+1	-4.419+1	1.282+1	1.454+1	5.701+1	-7.354
4260	1.555+1	-4.422+1	1.282+1	1.454+1	5.704+1	-7.446
4270	1.555+1	-4.425+1	1.283+1	1.454+1	5.708+1	-7.537
4280	1.555+1	-4.428+1	1.284+1	1.454+1	5.712+1	-7.628
4290	1.556+1	-4.431+1	1.284+1	1.455+1	5.715+1	-7.718

SPECIE C2H4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4300	1.556+1	-4.434+1	1.285+1	1.455+1	5.719+1	-7.808
4310	1.556+1	-4.437+1	1.286+1	1.455+1	5.723+1	-7.898
4320	1.556+1	-4.440+1	1.286+1	1.455+1	5.726+1	-7.987
4330	1.556+1	-4.443+1	1.287+1	1.456+1	5.730+1	-8.076
4340	1.557+1	-4.446+1	1.287+1	1.456+1	5.733+1	-8.164
4350	1.557+1	-4.449+1	1.288+1	1.456+1	5.737+1	-8.252
4360	1.557+1	-4.452+1	1.289+1	1.456+1	5.741+1	-8.340
4370	1.557+1	-4.455+1	1.289+1	1.456+1	5.744+1	-8.427
4380	1.557+1	-4.458+1	1.290+1	1.457+1	5.748+1	-8.514
4390	1.558+1	-4.461+1	1.290+1	1.457+1	5.751+1	-8.601
4400	1.558+1	-4.464+1	1.291+1	1.457+1	5.755+1	-8.687
4410	1.558+1	-4.467+1	1.292+1	1.457+1	5.758+1	-8.772
4420	1.558+1	-4.470+1	1.292+1	1.458+1	5.762+1	-8.858
4430	1.558+1	-4.472+1	1.293+1	1.458+1	5.765+1	-8.943
4440	1.558+1	-4.475+1	1.293+1	1.458+1	5.769+1	-9.027
4450	1.559+1	-4.478+1	1.294+1	1.458+1	5.772+1	-9.112
4460	1.559+1	-4.481+1	1.295+1	1.458+1	5.776+1	-9.195
4470	1.559+1	-4.484+1	1.295+1	1.459+1	5.779+1	-9.279
4480	1.559+1	-4.487+1	1.296+1	1.459+1	5.783+1	-9.362
4490	1.559+1	-4.490+1	1.296+1	1.459+1	5.786+1	-9.445
4500	1.560+1	-4.493+1	1.297+1	1.459+1	5.790+1	-9.527
4510	1.560+1	-4.496+1	1.298+1	1.460+1	5.793+1	-9.609
4520	1.560+1	-4.499+1	1.298+1	1.460+1	5.797+1	-9.690
4530	1.560+1	-4.501+1	1.299+1	1.460+1	5.800+1	-9.771
4540	1.560+1	-4.504+1	1.299+1	1.460+1	5.804+1	-9.851
4550	1.560+1	-4.507+1	1.300+1	1.461+1	5.807+1	-9.932
4560	1.561+1	-4.510+1	1.300+1	1.461+1	5.810+1	-1.001+1
4570	1.561+1	-4.513+1	1.301+1	1.461+1	5.814+1	-1.009+1
4580	1.561+1	-4.516+1	1.302+1	1.461+1	5.817+1	-1.017+1
4590	1.561+1	-4.518+1	1.302+1	1.461+1	5.821+1	-1.025+1
4600	1.561+1	-4.521+1	1.303+1	1.462+1	5.824+1	-1.033+1
4610	1.561+1	-4.524+1	1.303+1	1.462+1	5.827+1	-1.041+1
4620	1.562+1	-4.527+1	1.304+1	1.462+1	5.831+1	-1.048+1
4630	1.562+1	-4.530+1	1.304+1	1.462+1	5.834+1	-1.056+1
4640	1.562+1	-4.533+1	1.305+1	1.462+1	5.838+1	-1.064+1
4650	1.562+1	-4.535+1	1.306+1	1.463+1	5.841+1	-1.072+1
4660	1.562+1	-4.538+1	1.306+1	1.463+1	5.844+1	-1.079+1
4670	1.562+1	-4.541+1	1.307+1	1.463+1	5.848+1	-1.087+1
4680	1.562+1	-4.544+1	1.307+1	1.463+1	5.851+1	-1.094+1
4690	1.563+1	-4.547+1	1.308+1	1.464+1	5.854+1	-1.102+1
4700	1.563+1	-4.549+1	1.308+1	1.464+1	5.858+1	-1.109+1
4710	1.563+1	-4.552+1	1.309+1	1.464+1	5.861+1	-1.117+1
4720	1.563+1	-4.555+1	1.309+1	1.464+1	5.864+1	-1.124+1
4730	1.563+1	-4.558+1	1.310+1	1.464+1	5.868+1	-1.132+1
4740	1.563+1	-4.560+1	1.310+1	1.465+1	5.871+1	-1.139+1
4750	1.564+1	-4.563+1	1.311+1	1.465+1	5.874+1	-1.146+1
4760	1.564+1	-4.566+1	1.311+1	1.465+1	5.877+1	-1.154+1
4770	1.564+1	-4.569+1	1.312+1	1.465+1	5.881+1	-1.161+1
4780	1.564+1	-4.572+1	1.313+1	1.465+1	5.884+1	-1.168+1
4790	1.564+1	-4.574+1	1.313+1	1.466+1	5.887+1	-1.176+1

SPECIE C2H4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4800	1.564+1	-4.577+1	1.314+1	1.466+1	5.891+1	-1.183+1
4810	1.564+1	-4.580+1	1.314+1	1.466+1	5.894+1	-1.190+1
4820	1.565+1	-4.582+1	1.315+1	1.466+1	5.897+1	-1.197+1
4830	1.565+1	-4.585+1	1.315+1	1.466+1	5.900+1	-1.204+1
4840	1.565+1	-4.588+1	1.316+1	1.467+1	5.904+1	-1.211+1
4850	1.565+1	-4.591+1	1.316+1	1.467+1	5.907+1	-1.218+1
4860	1.565+1	-4.593+1	1.317+1	1.467+1	5.910+1	-1.225+1
4870	1.565+1	-4.596+1	1.317+1	1.467+1	5.913+1	-1.232+1
4880	1.565+1	-4.599+1	1.318+1	1.467+1	5.916+1	-1.239+1
4890	1.566+1	-4.601+1	1.318+1	1.468+1	5.920+1	-1.246+1
4900	1.566+1	-4.604+1	1.319+1	1.468+1	5.923+1	-1.253+1
4910	1.566+1	-4.607+1	1.319+1	1.468+1	5.926+1	-1.260+1
4920	1.566+1	-4.609+1	1.320+1	1.468+1	5.929+1	-1.267+1
4930	1.566+1	-4.612+1	1.320+1	1.468+1	5.932+1	-1.274+1
4940	1.566+1	-4.615+1	1.321+1	1.469+1	5.936+1	-1.281+1
4950	1.566+1	-4.618+1	1.321+1	1.469+1	5.939+1	-1.288+1
4960	1.566+1	-4.620+1	1.322+1	1.469+1	5.942+1	-1.294+1
4970	1.567+1	-4.623+1	1.322+1	1.469+1	5.945+1	-1.301+1
4980	1.567+1	-4.626+1	1.323+1	1.469+1	5.948+1	-1.308+1
4990	1.567+1	-4.628+1	1.323+1	1.470+1	5.951+1	-1.314+1
5000	1.567+1	-4.631+1	1.324+1	1.470+1	5.954+1	-1.321+1
5010	1.567+1	-4.633+1	1.324+1	1.470+1	5.958+1	-1.328+1
5020	1.567+1	-4.636+1	1.325+1	1.470+1	5.961+1	-1.334+1
5030	1.567+1	-4.639+1	1.325+1	1.470+1	5.964+1	-1.341+1
5040	1.567+1	-4.641+1	1.326+1	1.471+1	5.967+1	-1.347+1
5050	1.568+1	-4.644+1	1.326+1	1.471+1	5.970+1	-1.354+1
5060	1.568+1	-4.647+1	1.327+1	1.471+1	5.973+1	-1.361+1
5070	1.568+1	-4.649+1	1.327+1	1.471+1	5.976+1	-1.367+1
5080	1.568+1	-4.652+1	1.327+1	1.471+1	5.979+1	-1.373+1
5090	1.568+1	-4.654+1	1.328+1	1.472+1	5.982+1	-1.380+1
5100	1.568+1	-4.657+1	1.328+1	1.472+1	5.986+1	-1.386+1
5110	1.568+1	-4.660+1	1.329+1	1.472+1	5.989+1	-1.393+1
5120	1.568+1	-4.662+1	1.329+1	1.472+1	5.992+1	-1.399+1
5130	1.569+1	-4.665+1	1.330+1	1.472+1	5.995+1	-1.405+1
5140	1.569+1	-4.667+1	1.330+1	1.472+1	5.998+1	-1.412+1
5150	1.569+1	-4.670+1	1.331+1	1.473+1	6.001+1	-1.418+1
5160	1.569+1	-4.673+1	1.331+1	1.473+1	6.004+1	-1.424+1
5170	1.569+1	-4.675+1	1.332+1	1.473+1	6.007+1	-1.430+1
5180	1.569+1	-4.678+1	1.332+1	1.473+1	6.010+1	-1.436+1
5190	1.569+1	-4.680+1	1.333+1	1.473+1	6.013+1	-1.443+1
5200	1.569+1	-4.683+1	1.333+1	1.474+1	6.016+1	-1.449+1
5210	1.569+1	-4.685+1	1.333+1	1.474+1	6.019+1	-1.455+1
5220	1.570+1	-4.688+1	1.334+1	1.474+1	6.022+1	-1.461+1
5230	1.570+1	-4.691+1	1.334+1	1.474+1	6.025+1	-1.467+1
5240	1.570+1	-4.693+1	1.335+1	1.474+1	6.028+1	-1.473+1
5250	1.570+1	-4.696+1	1.335+1	1.475+1	6.031+1	-1.479+1
5260	1.570+1	-4.698+1	1.336+1	1.475+1	6.034+1	-1.485+1
5270	1.570+1	-4.701+1	1.336+1	1.475+1	6.037+1	-1.491+1
5280	1.570+1	-4.703+1	1.337+1	1.475+1	6.040+1	-1.497+1
5290	1.570+1	-4.706+1	1.337+1	1.475+1	6.043+1	-1.503+1

SPECIE C2H4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5300	1.570+1	-4.708+1	1.338+1	1.475+1	6.046+1	-1.509+1
5310	1.571+1	-4.711+1	1.338+1	1.476+1	6.049+1	-1.515+1
5320	1.571+1	-4.713+1	1.338+1	1.476+1	6.052+1	-1.521+1
5330	1.571+1	-4.716+1	1.339+1	1.476+1	6.055+1	-1.526+1
5340	1.571+1	-4.718+1	1.339+1	1.476+1	6.058+1	-1.532+1
5350	1.571+1	-4.721+1	1.340+1	1.476+1	6.061+1	-1.538+1
5360	1.571+1	-4.723+1	1.340+1	1.476+1	6.064+1	-1.544+1
5370	1.571+1	-4.726+1	1.341+1	1.477+1	6.066+1	-1.550+1
5380	1.571+1	-4.728+1	1.341+1	1.477+1	6.069+1	-1.555+1
5390	1.571+1	-4.731+1	1.341+1	1.477+1	6.072+1	-1.561+1
5400	1.572+1	-4.733+1	1.342+1	1.477+1	6.075+1	-1.567+1
5410	1.572+1	-4.736+1	1.342+1	1.477+1	6.078+1	-1.572+1
5420	1.572+1	-4.738+1	1.343+1	1.478+1	6.081+1	-1.578+1
5430	1.572+1	-4.741+1	1.343+1	1.478+1	6.084+1	-1.584+1
5440	1.572+1	-4.743+1	1.344+1	1.478+1	6.087+1	-1.589+1
5450	1.572+1	-4.746+1	1.344+1	1.478+1	6.090+1	-1.595+1
5460	1.572+1	-4.748+1	1.344+1	1.478+1	6.093+1	-1.600+1
5470	1.572+1	-4.751+1	1.345+1	1.478+1	6.095+1	-1.606+1
5480	1.572+1	-4.753+1	1.345+1	1.479+1	6.098+1	-1.611+1
5490	1.572+1	-4.756+1	1.346+1	1.479+1	6.101+1	-1.617+1
5500	1.573+1	-4.758+1	1.346+1	1.479+1	6.104+1	-1.622+1
5510	1.573+1	-4.760+1	1.346+1	1.479+1	6.107+1	-1.628+1
5520	1.573+1	-4.763+1	1.347+1	1.479+1	6.110+1	-1.633+1
5530	1.573+1	-4.765+1	1.347+1	1.479+1	6.113+1	-1.639+1
5540	1.573+1	-4.768+1	1.348+1	1.480+1	6.116+1	-1.644+1
5550	1.573+1	-4.770+1	1.348+1	1.480+1	6.118+1	-1.650+1
5560	1.573+1	-4.773+1	1.348+1	1.480+1	6.121+1	-1.655+1
5570	1.573+1	-4.775+1	1.349+1	1.480+1	6.124+1	-1.660+1
5580	1.573+1	-4.778+1	1.349+1	1.480+1	6.127+1	-1.666+1
5590	1.573+1	-4.780+1	1.350+1	1.480+1	6.130+1	-1.671+1
5600	1.574+1	-4.782+1	1.350+1	1.481+1	6.132+1	-1.676+1
5610	1.574+1	-4.785+1	1.350+1	1.481+1	6.135+1	-1.682+1
5620	1.574+1	-4.787+1	1.351+1	1.481+1	6.138+1	-1.687+1
5630	1.574+1	-4.790+1	1.351+1	1.481+1	6.141+1	-1.692+1
5640	1.574+1	-4.792+1	1.352+1	1.481+1	6.144+1	-1.697+1
5650	1.574+1	-4.794+1	1.352+1	1.481+1	6.146+1	-1.702+1
5660	1.574+1	-4.797+1	1.352+1	1.482+1	6.149+1	-1.708+1
5670	1.574+1	-4.799+1	1.353+1	1.482+1	6.152+1	-1.713+1
5680	1.574+1	-4.802+1	1.353+1	1.482+1	6.155+1	-1.718+1
5690	1.574+1	-4.804+1	1.354+1	1.482+1	6.158+1	-1.723+1
5700	1.574+1	-4.806+1	1.354+1	1.482+1	6.160+1	-1.728+1
5710	1.574+1	-4.809+1	1.354+1	1.482+1	6.163+1	-1.733+1
5720	1.575+1	-4.811+1	1.355+1	1.483+1	6.166+1	-1.738+1
5730	1.575+1	-4.813+1	1.355+1	1.483+1	6.169+1	-1.743+1
5740	1.575+1	-4.816+1	1.356+1	1.483+1	6.171+1	-1.748+1
5750	1.575+1	-4.818+1	1.356+1	1.483+1	6.174+1	-1.753+1
5760	1.575+1	-4.820+1	1.356+1	1.483+1	6.177+1	-1.758+1
5770	1.575+1	-4.823+1	1.357+1	1.483+1	6.180+1	-1.763+1
5780	1.575+1	-4.825+1	1.357+1	1.483+1	6.182+1	-1.768+1
5790	1.575+1	-4.828+1	1.357+1	1.484+1	6.185+1	-1.773+1

SPECIE C2H4

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5800	1.575+1	-4.830+1	1.358+1	1.484+1	6.188+1	-1.778+1
5810	1.575+1	-4.832+1	1.358+1	1.484+1	6.190+1	-1.783+1
5820	1.575+1	-4.835+1	1.359+1	1.484+1	6.193+1	-1.788+1
5830	1.576+1	-4.837+1	1.359+1	1.484+1	6.196+1	-1.793+1
5840	1.576+1	-4.839+1	1.359+1	1.484+1	6.199+1	-1.798+1
5850	1.576+1	-4.842+1	1.360+1	1.485+1	6.201+1	-1.803+1
5860	1.576+1	-4.844+1	1.360+1	1.485+1	6.204+1	-1.807+1
5870	1.576+1	-4.846+1	1.360+1	1.485+1	6.207+1	-1.812+1
5880	1.576+1	-4.848+1	1.361+1	1.485+1	6.209+1	-1.817+1
5890	1.576+1	-4.851+1	1.361+1	1.485+1	6.212+1	-1.822+1
5900	1.576+1	-4.853+1	1.362+1	1.485+1	6.215+1	-1.827+1
5910	1.576+1	-4.855+1	1.362+1	1.486+1	6.217+1	-1.831+1
5920	1.576+1	-4.858+1	1.362+1	1.486+1	6.220+1	-1.836+1
5930	1.576+1	-4.860+1	1.363+1	1.486+1	6.223+1	-1.841+1
5940	1.576+1	-4.862+1	1.363+1	1.486+1	6.225+1	-1.845+1
5950	1.576+1	-4.865+1	1.363+1	1.486+1	6.228+1	-1.850+1
5960	1.577+1	-4.867+1	1.364+1	1.486+1	6.231+1	-1.855+1
5970	1.577+1	-4.869+1	1.364+1	1.486+1	6.233+1	-1.859+1
5980	1.577+1	-4.871+1	1.364+1	1.487+1	6.236+1	-1.864+1
5990	1.577+1	-4.874+1	1.365+1	1.487+1	6.238+1	-1.869+1
6000	1.577+1	-4.876+1	1.365+1	1.487+1	6.241+1	-1.873+1

SPECIE C2H6
MOLECULAR WEIGHT EQUALS 30.0708
DELTA E ZERO EQUALS -16.517 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(NBS 500, 2/1/52) (IO)

THERMAL

(E. D. ROSSINI, APIRP-44, 1953) (II)

SPECIE C2H6

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
300	6.366	-2.281+1	4.831	-2.287+1	2.766+1	5.511+2
310	6.514	-2.297+1	4.884	-2.195+1	2.785+1	5.319+2
320	6.663	-2.312+1	4.938	-2.107+1	2.806+1	5.137+2
330	6.814	-2.328+1	4.993	-2.023+1	2.827+1	4.965+2
340	6.967	-2.343+1	5.049	-1.943+1	2.847+1	4.802+2
350	7.120	-2.357+1	5.106	-1.867+1	2.868+1	4.647+2
360	7.273	-2.372+1	5.164	-1.795+1	2.888+1	4.500+2
370	7.427	-2.386+1	5.223	-1.726+1	2.908+1	4.361+2
380	7.582	-2.400+1	5.283	-1.660+1	2.928+1	4.230+2
390	7.736	-2.414+1	5.343	-1.597+1	2.948+1	4.105+2
400	7.891	-2.428+1	5.405	-1.537+1	2.968+1	3.986+2
410	8.042	-2.441+1	5.467	-1.480+1	2.988+1	3.873+2
420	8.198	-2.454+1	5.529	-1.425+1	3.007+1	3.766+2
430	8.351	-2.467+1	5.592	-1.373+1	3.027+1	3.664+2
440	8.503	-2.480+1	5.656	-1.322+1	3.046+1	3.566+2
450	8.654	-2.493+1	5.720	-1.274+1	3.065+1	3.474+2
460	8.803	-2.506+1	5.785	-1.227+1	3.084+1	3.385+2
470	8.952	-2.518+1	5.850	-1.183+1	3.103+1	3.300+2
480	9.100	-2.531+1	5.916	-1.139+1	3.122+1	3.219+2
490	9.241	-2.543+1	5.982	-1.098+1	3.141+1	3.142+2
500	9.390	-2.555+1	6.049	-1.057+1	3.160+1	3.067+2
510	9.532	-2.567+1	6.115	-1.018+1	3.178+1	2.995+2
520	9.673	-2.579+1	6.182	-9.806	3.197+1	2.926+2
530	9.812	-2.591+1	6.250	-9.439	3.216+1	2.860+2
540	9.950	-2.602+1	6.317	-9.083	3.234+1	2.796+2
550	1.009+1	-2.614+1	6.385	-8.736	3.253+1	2.734+2
560	1.022+1	-2.626+1	6.452	-8.398	3.271+1	2.674+2
570	1.035+1	-2.637+1	6.520	-8.069	3.289+1	2.616+2
580	1.049+1	-2.649+1	6.588	-7.748	3.307+1	2.560+2
590	1.062+1	-2.660+1	6.655	-7.435	3.325+1	2.505+2
600	1.074+1	-2.671+1	6.723	-7.130	3.343+1	2.452+2
610	1.087+1	-2.682+1	6.790	-6.836	3.361+1	2.402+2
620	1.099+1	-2.693+1	6.857	-6.550	3.379+1	2.353+2
630	1.112+1	-2.705+1	6.924	-6.271	3.397+1	2.306+2
640	1.124+1	-2.716+1	6.991	-5.998	3.415+1	2.261+2
650	1.136+1	-2.727+1	7.057	-5.732	3.432+1	2.216+2
660	1.148+1	-2.737+1	7.124	-5.472	3.450+1	2.173+2
670	1.159+1	-2.748+1	7.190	-5.217	3.467+1	2.131+2
680	1.171+1	-2.759+1	7.255	-4.969	3.485+1	2.090+2
690	1.182+1	-2.770+1	7.321	-4.725	3.502+1	2.051+2
700	1.194+1	-2.780+1	7.387	-4.487	3.519+1	2.012+2
710	1.205+1	-2.791+1	7.452	-4.254	3.536+1	1.975+2
720	1.216+1	-2.801+1	7.517	-4.027	3.553+1	1.939+2
730	1.227+1	-2.812+1	7.582	-3.804	3.570+1	1.904+2
740	1.238+1	-2.822+1	7.647	-3.586	3.587+1	1.869+2
750	1.248+1	-2.832+1	7.711	-3.373	3.603+1	1.836+2
760	1.259+1	-2.843+1	7.774	-3.163	3.620+1	1.804+2
770	1.269+1	-2.853+1	7.838	-2.957	3.637+1	1.772+2
780	1.280+1	-2.863+1	7.901	-2.756	3.653+1	1.741+2
790	1.290+1	-2.873+1	7.964	-2.558	3.669+1	1.711+2

SPECIE C2H6

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
800	1.300+1	-2.883+1	8.026	-2.363	3.686+1	1.681+2
810	1.310+1	-2.893+1	8.088	-2.173	3.702+1	1.653+2
820	1.319+1	-2.903+1	8.150	-1.986	3.718+1	1.625+2
830	1.329+1	-2.913+1	8.211	-1.803	3.734+1	1.598+2
840	1.339+1	-2.923+1	8.272	-1.623	3.750+1	1.571+2
850	1.348+1	-2.933+1	8.333	-1.446	3.766+1	1.545+2
860	1.357+1	-2.942+1	8.393	-1.272	3.782+1	1.520+2
870	1.367+1	-2.952+1	8.453	-1.101	3.797+1	1.495+2
880	1.376+1	-2.962+1	8.512	-9.330-1	3.813+1	1.471+2
890	1.385+1	-2.971+1	8.571	-7.676-1	3.829+1	1.447+2
900	1.393+1	-2.981+1	8.630	-6.050-1	3.844+1	1.424+2
910	1.402+1	-2.991+1	8.689	-4.452-1	3.860+1	1.401+2
920	1.411+1	-3.000+1	8.747	-2.879-1	3.875+1	1.379+2
930	1.419+1	-3.010+1	8.804	-1.331-1	3.890+1	1.357+2
940	1.428+1	-3.019+1	8.862	1.931-2	3.905+1	1.336+2
950	1.436+1	-3.029+1	8.919	1.694-1	3.921+1	1.315+2
960	1.444+1	-3.038+1	8.975	3.172-1	3.936+1	1.295+2
970	1.452+1	-3.047+1	9.032	4.628-1	3.951+1	1.275+2
980	1.460+1	-3.057+1	9.088	6.063-1	3.965+1	1.255+2
990	1.468+1	-3.066+1	9.144	7.478-1	3.980+1	1.236+2
1000	1.476+1	-3.075+1	9.199	8.872-1	3.995+1	1.217+2
1010	1.484+1	-3.084+1	9.254	1.025	4.010+1	1.199+2
1020	1.491+1	-3.094+1	9.309	1.160	4.024+1	1.181+2
1030	1.499+1	-3.103+1	9.364	1.294	4.039+1	1.163+2
1040	1.506+1	-3.112+1	9.418	1.426	4.053+1	1.146+2
1050	1.513+1	-3.121+1	9.472	1.556	4.068+1	1.129+2
1060	1.521+1	-3.130+1	9.526	1.684	4.082+1	1.112+2
1070	1.528+1	-3.139+1	9.579	1.811	4.097+1	1.096+2
1080	1.535+1	-3.148+1	9.632	1.936	4.111+1	1.080+2
1090	1.542+1	-3.156+1	9.685	2.059	4.125+1	1.064+2
1100	1.548+1	-3.165+1	9.737	2.181	4.139+1	1.048+2
1110	1.555+1	-3.174+1	9.789	2.301	4.153+1	1.033+2
1120	1.562+1	-3.183+1	9.841	2.420	4.167+1	1.018+2
1130	1.568+1	-3.192+1	9.892	2.536	4.181+1	1.004+2
1140	1.575+1	-3.200+1	9.943	2.652	4.195+1	9.892+1
1150	1.581+1	-3.209+1	9.993	2.766	4.208+1	9.750+1
1160	1.587+1	-3.218+1	1.004+1	2.878	4.222+1	9.611+1
1170	1.593+1	-3.227+1	1.009+1	2.989	4.236+1	9.474+1
1180	1.599+1	-3.235+1	1.014+1	3.099	4.249+1	9.339+1
1190	1.605+1	-3.244+1	1.019+1	3.207	4.263+1	9.207+1
1200	1.611+1	-3.252+1	1.024+1	3.314	4.276+1	9.077+1
1210	1.617+1	-3.261+1	1.029+1	3.420	4.290+1	8.949+1
1220	1.623+1	-3.269+1	1.034+1	3.525	4.303+1	8.823+1
1230	1.629+1	-3.278+1	1.039+1	3.628	4.316+1	8.699+1
1240	1.634+1	-3.286+1	1.043+1	3.730	4.330+1	8.577+1
1250	1.640+1	-3.295+1	1.048+1	3.831	4.343+1	8.458+1
1260	1.645+1	-3.303+1	1.053+1	3.931	4.356+1	8.340+1
1270	1.650+1	-3.311+1	1.057+1	4.030	4.369+1	8.224+1
1280	1.656+1	-3.320+1	1.062+1	4.128	4.382+1	8.109+1
1290	1.661+1	-3.328+1	1.067+1	4.225	4.395+1	7.997+1

SPECIE C2H6

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1300	1.666+1	-3.336+1	1.071+1	4.320	4.408+1	7.886+1
1310	1.671+1	-3.345+1	1.076+1	4.414	4.421+1	7.777+1
1320	1.676+1	-3.353+1	1.080+1	4.508	4.433+1	7.669+1
1330	1.681+1	-3.361+1	1.085+1	4.600	4.446+1	7.563+1
1340	1.686+1	-3.369+1	1.089+1	4.691	4.459+1	7.459+1
1350	1.691+1	-3.377+1	1.094+1	4.782	4.471+1	7.356+1
1360	1.696+1	-3.385+1	1.098+1	4.871	4.484+1	7.255+1
1370	1.701+1	-3.393+1	1.103+1	4.960	4.496+1	7.155+1
1380	1.705+1	-3.401+1	1.107+1	5.047	4.508+1	7.056+1
1390	1.710+1	-3.409+1	1.111+1	5.134	4.521+1	6.959+1
1400	1.714+1	-3.417+1	1.116+1	5.219	4.533+1	6.864+1
1410	1.719+1	-3.425+1	1.120+1	5.304	4.545+1	6.770+1
1420	1.723+1	-3.433+1	1.124+1	5.388	4.557+1	6.677+1
1430	1.728+1	-3.441+1	1.128+1	5.472	4.570+1	6.585+1
1440	1.732+1	-3.449+1	1.133+1	5.554	4.582+1	6.495+1
1450	1.736+1	-3.457+1	1.137+1	5.636	4.594+1	6.406+1
1460	1.740+1	-3.465+1	1.141+1	5.717	4.606+1	6.318+1
1470	1.744+1	-3.472+1	1.145+1	5.797	4.617+1	6.231+1
1480	1.748+1	-3.480+1	1.149+1	5.876	4.629+1	6.146+1
1490	1.752+1	-3.488+1	1.153+1	5.955	4.641+1	6.062+1
1500	1.756+1	-3.495+1	1.157+1	6.033	4.653+1	5.979+1

SPECIE C3H8

MOLECULAR WEIGHT EQUALS 44.0982

DELTA E ZERO EQUALS -19.482 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(E. D. ROSSINI, APIRP-44, 1953) (II)

THERMAL

(E. D. ROSSINI, APIRP-44, 1953) (II)

SPECIE C3H8

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
300	8.887	-2.657+1	5.948	-2.673+1	3.252+1	8.163+2
310	9.133	-2.677+1	6.046	-2.560+1	3.281+1	7.878+2
320	9.379	-2.696+1	6.145	-2.453+1	3.311+1	7.608+2
330	9.627	-2.715+1	6.247	-2.350+1	3.340+1	7.352+2
340	9.874	-2.734+1	6.349	-2.253+1	3.369+1	7.110+2
350	1.012+1	-2.752+1	6.453	-2.159+1	3.398+1	6.880+2
360	1.037+1	-2.771+1	6.559	-2.070+1	3.427+1	6.663+2
370	1.061+1	-2.789+1	6.665	-1.985+1	3.456+1	6.456+2
380	1.086+1	-2.807+1	6.773	-1.904+1	3.484+1	6.261+2
390	1.110+1	-2.825+1	6.881	-1.826+1	3.513+1	6.075+2
400	1.134+1	-2.842+1	6.990	-1.752+1	3.541+1	5.899+2
410	1.158+1	-2.860+1	7.099	-1.681+1	3.569+1	5.731+2
420	1.182+1	-2.877+1	7.209	-1.612+1	3.598+1	5.572+2
430	1.205+1	-2.894+1	7.319	-1.547+1	3.626+1	5.421+2
440	1.228+1	-2.911+1	7.430	-1.484+1	3.654+1	5.276+2
450	1.251+1	-2.928+1	7.540	-1.423+1	3.682+1	5.138+2
460	1.274+1	-2.944+1	7.651	-1.365+1	3.709+1	5.007+2
470	1.296+1	-2.961+1	7.761	-1.309+1	3.737+1	4.881+2
480	1.318+1	-2.977+1	7.872	-1.255+1	3.764+1	4.761+2
490	1.339+1	-2.994+1	7.982	-1.202+1	3.792+1	4.646+2
500	1.361+1	-3.010+1	8.092	-1.152+1	3.819+1	4.535+2
510	1.381+1	-3.026+1	8.201	-1.102+1	3.846+1	4.429+2
520	1.402+1	-3.042+1	8.310	-1.055+1	3.873+1	4.327+2
530	1.422+1	-3.058+1	8.418	-1.009+1	3.900+1	4.228+2
540	1.442+1	-3.074+1	8.527	-9.636	3.926+1	4.133+2
550	1.462+1	-3.089+1	8.635	-9.199	3.953+1	4.041+2
560	1.481+1	-3.105+1	8.742	-8.773	3.979+1	3.952+2
570	1.499+1	-3.121+1	8.849	-8.357	4.006+1	3.866+2
580	1.518+1	-3.136+1	8.956	-7.952	4.032+1	3.783+2
590	1.536+1	-3.151+1	9.062	-7.557	4.058+1	3.702+2
600	1.554+1	-3.167+1	9.169	-7.171	4.084+1	3.624+2
610	1.572+1	-3.182+1	9.274	-6.799	4.109+1	3.549+2
620	1.589+1	-3.197+1	9.379	-6.435	4.135+1	3.477+2
630	1.607+1	-3.212+1	9.484	-6.080	4.161+1	3.407+2
640	1.624+1	-3.227+1	9.588	-5.734	4.186+1	3.339+2
650	1.641+1	-3.242+1	9.691	-5.395	4.211+1	3.273+2
660	1.657+1	-3.257+1	9.794	-5.063	4.237+1	3.209+2
670	1.673+1	-3.272+1	9.896	-4.739	4.262+1	3.147+2
680	1.689+1	-3.287+1	9.998	-4.421	4.287+1	3.087+2
690	1.705+1	-3.302+1	1.010+1	-4.110	4.312+1	3.028+2
700	1.721+1	-3.316+1	1.020+1	-3.805	4.336+1	2.971+2
710	1.736+1	-3.331+1	1.030+1	-3.508	4.361+1	2.916+2
720	1.752+1	-3.345+1	1.040+1	-3.217	4.385+1	2.862+2
730	1.767+1	-3.360+1	1.050+1	-2.932	4.410+1	2.810+2
740	1.781+1	-3.374+1	1.060+1	-2.653	4.434+1	2.759+2
750	1.796+1	-3.388+1	1.069+1	-2.379	4.458+1	2.710+2
760	1.810+1	-3.403+1	1.079+1	-2.110	4.482+1	2.662+2
770	1.825+1	-3.417+1	1.089+1	-1.846	4.506+1	2.615+2
780	1.839+1	-3.431+1	1.098+1	-1.587	4.529+1	2.569+2
790	1.852+1	-3.445+1	1.108+1	-1.333	4.553+1	2.524+2

SPECIE C3H8

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DÉLTA H/RT	S/R	LN K
800	1.866+1	-3.459+1	1.117+1	-1.083	4.576+1	2.481+2
810	1.879+1	-3.473+1	1.126+1	-8.385-1	4.600+1	2.439+2
820	1.893+1	-3.487+1	1.136+1	-5.981-1	4.623+1	2.397+2
830	1.906+1	-3.501+1	1.145+1	-3.620-1	4.646+1	2.357+2
840	1.919+1	-3.515+1	1.154+1	-1.298-1	4.669+1	2.317+2
850	1.932+1	-3.529+1	1.163+1	9.834-2	4.692+1	2.279+2
860	1.944+1	-3.542+1	1.172+1	3.227-1	4.714+1	2.241+2
870	1.957+1	-3.556+1	1.181+1	5.434-1	4.737+1	2.205+2
880	1.969+1	-3.569+1	1.190+1	7.605-1	4.760+1	2.169+2
890	1.981+1	-3.583+1	1.199+1	9.741-1	4.782+1	2.133+2
900	1.993+1	-3.597+1	1.208+1	1.184	4.804+1	2.099+2
910	2.005+1	-3.610+1	1.216+1	1.391	4.826+1	2.066+2
920	2.017+1	-3.623+1	1.225+1	1.594	4.848+1	2.033+2
930	2.028+1	-3.637+1	1.234+1	1.794	4.870+1	2.001+2
940	2.040+1	-3.650+1	1.242+1	1.991	4.892+1	1.969+2
950	2.051+1	-3.663+1	1.250+1	2.185	4.914+1	1.938+2
960	2.062+1	-3.677+1	1.259+1	2.376	4.935+1	1.908+2
970	2.073+1	-3.690+1	1.267+1	2.565	4.957+1	1.879+2
980	2.084+1	-3.703+1	1.275+1	2.750	4.978+1	1.850+2
990	2.094+1	-3.716+1	1.284+1	2.934	5.000+1	1.821+2
1000	2.105+1	-3.729+1	1.292+1	3.114	5.021+1	1.794+2
1010	2.115+1	-3.742+1	1.300+1	3.292	5.042+1	1.766+2
1020	2.125+1	-3.755+1	1.308+1	3.467	5.063+1	1.740+2
1030	2.135+1	-3.768+1	1.316+1	3.641	5.083+1	1.714+2
1040	2.145+1	-3.780+1	1.324+1	3.811	5.104+1	1.688+2
1050	2.155+1	-3.793+1	1.332+1	3.980	5.125+1	1.663+2
1060	2.165+1	-3.806+1	1.340+1	4.146	5.145+1	1.638+2
1070	2.174+1	-3.819+1	1.347+1	4.310	5.166+1	1.614+2
1080	2.183+1	-3.831+1	1.355+1	4.472	5.186+1	1.590+2
1090	2.193+1	-3.844+1	1.363+1	4.632	5.206+1	1.566+2
1100	2.202+1	-3.856+1	1.370+1	4.790	5.226+1	1.543+2
1110	2.211+1	-3.869+1	1.378+1	4.946	5.246+1	1.521+2
1120	2.219+1	-3.881+1	1.385+1	5.100	5.266+1	1.499+2
1130	2.228+1	-3.893+1	1.393+1	5.251	5.286+1	1.477+2
1140	2.237+1	-3.906+1	1.400+1	5.401	5.306+1	1.456+2
1150	2.245+1	-3.918+1	1.407+1	5.549	5.326+1	1.435+2
1160	2.253+1	-3.930+1	1.415+1	5.696	5.345+1	1.414+2
1170	2.262+1	-3.943+1	1.422+1	5.840	5.365+1	1.394+2
1180	2.270+1	-3.955+1	1.429+1	5.983	5.384+1	1.374+2
1190	2.278+1	-3.967+1	1.436+1	6.123	5.403+1	1.354+2
1200	2.286+1	-3.979+1	1.443+1	6.263	5.422+1	1.335+2
1210	2.293+1	-3.991+1	1.450+1	6.400	5.441+1	1.316+2
1220	2.301+1	-4.003+1	1.457+1	6.536	5.460+1	1.297+2
1230	2.309+1	-4.015+1	1.464+1	6.670	5.479+1	1.279+2
1240	2.316+1	-4.027+1	1.471+1	6.802	5.498+1	1.261+2
1250	2.324+1	-4.039+1	1.478+1	6.933	5.516+1	1.243+2
1260	2.331+1	-4.051+1	1.484+1	7.062	5.535+1	1.226+2
1270	2.338+1	-4.063+1	1.491+1	7.190	5.554+1	1.209+2
1280	2.346+1	-4.074+1	1.498+1	7.317	5.572+1	1.192+2
1290	2.353+1	-4.086+1	1.504+1	7.442	5.590+1	1.175+2

SPECIE C3H8

TEMP	CP/R	(F-EI)/RT	(H-EI)/RT	DELTA H/RT	S/R	LN K
1300	2.360+1	-4.098+1	1.511+1	7.585	5.608+1	1.159+2
1310	2.366+1	-4.109+1	1.517+1	7.688	5.627+1	1.143+2
1320	2.373+1	-4.121+1	1.524+1	7.809	5.645+1	1.127+2
1330	2.380+1	-4.132+1	1.530+1	7.929	5.663+1	1.111+2
1340	2.386+1	-4.144+1	1.536+1	8.048	5.680+1	1.095+2
1350	2.393+1	-4.155+1	1.543+1	8.165	5.698+1	1.080+2
1360	2.399+1	-4.167+1	1.549+1	8.281	5.716+1	1.065+2
1370	2.405+1	-4.178+1	1.555+1	8.396	5.733+1	1.051+2
1380	2.411+1	-4.189+1	1.561+1	8.509	5.751+1	1.036+2
1390	2.418+1	-4.201+1	1.567+1	8.622	5.768+1	1.022+2
1400	2.423+1	-4.212+1	1.574+1	8.733	5.786+1	1.007+2
1410	2.429+1	-4.223+1	1.580+1	8.843	5.803+1	9.935+1
1420	2.435+1	-4.234+1	1.586+1	8.952	5.820+1	9.798+1
1430	2.441+1	-4.245+1	1.592+1	9.060	5.837+1	9.662+1
1440	2.447+1	-4.256+1	1.597+1	9.166	5.854+1	9.528+1
1450	2.452+1	-4.267+1	1.603+1	9.272	5.870+1	9.396+1
1460	2.458+1	-4.278+1	1.609+1	9.376	5.887+1	9.266+1
1470	2.463+1	-4.289+1	1.615+1	9.480	5.904+1	9.138+1
1480	2.468+1	-4.299+1	1.621+1	9.582	5.920+1	9.011+1
1490	2.474+1	-4.310+1	1.626+1	9.683	5.936+1	8.887+1
1500	2.479+1	-4.321+1	1.632+1	9.784	5.953+1	8.764+1

SPECIE CHO

MOLECULAR WEIGHT EQUALS 29.0194

DELTA E ZERO EQUALS -0.700 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(J. S. GORDON, RMD 210-E3, 1/60) (5)

THERMAL

(J. S. GORDON WADC TR 57-33, 1/57) (4)

SPECIE CHO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	3.510	-2.501+1	-3.097	4.252-1	2.191+1	8.499+2
110	3.473	-2.501+1	-2.556	6.975-1	2.242+1	7.844+2
120	3.455	-2.494+1	-2.065	9.451-1	2.288+1	7.251+2
130	3.453	-2.492+1	-1.620	1.170	2.330+1	6.714+2
140	3.465	-2.491+1	-1.218	1.373	2.370+1	6.229+2
150	3.490	-2.491+1	-8.549-1	1.558	2.405+1	5.792+2
160	3.525	-2.491+1	-5.278-1	1.724	2.438+1	5.400+2
170	3.569	-2.492+1	-2.338-1	1.874	2.469+1	5.048+2
180	3.619	-2.494+1	3.026-2	2.009	2.497+1	4.734+2
190	3.676	-2.496+1	2.670-1	2.131	2.522+1	4.452+2
200	3.736	-2.498+1	4.792-1	2.241	2.546+1	4.202+2
210	3.800	-2.501+1	6.694-1	2.339	2.568+1	3.978+2
220	3.864	-2.505+1	8.398-1	2.428	2.589+1	3.778+2
230	3.930	-2.509+1	9.928-1	2.508	2.608+1	3.600+2
240	3.995	-2.513+1	1.130	2.581	2.626+1	3.441+2
250	4.058	-2.518+1	1.255	2.647	2.643+1	3.299+2
260	4.119	-2.522+1	1.367	2.707	2.659+1	3.171+2
270	4.177	-2.527+1	1.470	2.763	2.674+1	3.055+2
280	4.232	-2.533+1	1.564	2.814	2.689+1	2.949+2
290	4.283	-2.538+1	1.652	2.862	2.703+1	2.852+2
300	4.330	-2.544+1	1.733	2.907	2.717+1	2.763+2
310	4.361	-2.549+1	1.819	2.955	2.732+1	2.668+2
320	4.389	-2.555+1	1.900	3.000	2.745+1	2.579+2
330	4.415	-2.561+1	1.977	3.042	2.759+1	2.496+2
340	4.438	-2.567+1	2.049	3.083	2.772+1	2.418+2
350	4.461	-2.573+1	2.117	3.121	2.785+1	2.346+2
360	4.482	-2.579+1	2.182	3.158	2.797+1	2.278+2
370	4.502	-2.585+1	2.243	3.194	2.810+1	2.213+2
380	4.521	-2.591+1	2.302	3.228	2.822+1	2.153+2
390	4.540	-2.598+1	2.358	3.261	2.833+1	2.096+2
400	4.560	-2.604+1	2.412	3.292	2.845+1	2.041+2
410	4.581	-2.610+1	2.463	3.323	2.856+1	1.990+2
420	4.603	-2.616+1	2.513	3.353	2.867+1	1.940+2
430	4.624	-2.622+1	2.561	3.381	2.878+1	1.893+2
440	4.646	-2.627+1	2.608	3.410	2.889+1	1.848+2
450	4.667	-2.633+1	2.653	3.437	2.899+1	1.804+2
460	4.687	-2.639+1	2.697	3.464	2.909+1	1.762+2
470	4.708	-2.645+1	2.740	3.491	2.919+1	1.722+2
480	4.729	-2.651+1	2.782	3.517	2.929+1	1.682+2
490	4.749	-2.657+1	2.823	3.542	2.939+1	1.644+2
500	4.769	-2.663+1	2.862	3.567	2.949+1	1.608+2
510	4.790	-2.668+1	2.900	3.591	2.958+1	1.574+2
520	4.810	-2.674+1	2.936	3.614	2.968+1	1.541+2
530	4.830	-2.680+1	2.972	3.636	2.977+1	1.510+2
540	4.849	-2.685+1	3.006	3.659	2.986+1	1.480+2
550	4.869	-2.691+1	3.040	3.680	2.995+1	1.451+2
560	4.888	-2.696+1	3.073	3.702	3.004+1	1.422+2
570	4.908	-2.702+1	3.105	3.723	3.012+1	1.395+2
580	4.927	-2.707+1	3.136	3.744	3.021+1	1.369+2
590	4.946	-2.713+1	3.167	3.764	3.029+1	1.343+2

SPECIE CHO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	4.965	-2.718+1	3.197	3.784	3.038+1	1.318+2
610	4.984	-2.723+1	3.226	3.803	3.046+1	1.294+2
620	5.003	-2.729+1	3.254	3.823	3.054+1	1.272+2
630	5.021	-2.734+1	3.282	3.841	3.062+1	1.249+2
640	5.040	-2.739+1	3.309	3.860	3.070+1	1.228+2
650	5.058	-2.744+1	3.336	3.878	3.078+1	1.207+2
660	5.076	-2.749+1	3.362	3.896	3.085+1	1.187+2
670	5.094	-2.754+1	3.388	3.914	3.093+1	1.167+2
680	5.112	-2.759+1	3.413	3.932	3.101+1	1.148+2
690	5.130	-2.764+1	3.438	3.949	3.108+1	1.129+2
700	5.148	-2.769+1	3.463	3.966	3.116+1	1.111+2
710	5.165	-2.774+1	3.487	3.983	3.123+1	1.094+2
720	5.183	-2.779+1	3.510	3.999	3.130+1	1.077+2
730	5.200	-2.784+1	3.533	4.016	3.137+1	1.060+2
740	5.218	-2.789+1	3.556	4.032	3.144+1	1.044+2
750	5.235	-2.794+1	3.578	4.048	3.151+1	1.028+2
760	5.252	-2.798+1	3.600	4.064	3.158+1	1.013+2
770	5.269	-2.803+1	3.622	4.079	3.165+1	9.980+1
780	5.286	-2.808+1	3.643	4.095	3.172+1	9.835+1
790	5.302	-2.812+1	3.664	4.110	3.179+1	9.693+1
800	5.319	-2.817+1	3.684	4.125	3.185+1	9.555+1
810	5.335	-2.822+1	3.705	4.140	3.192+1	9.420+1
820	5.352	-2.826+1	3.725	4.154	3.199+1	9.289+1
830	5.369	-2.831+1	3.745	4.169	3.205+1	9.161+1
840	5.385	-2.835+1	3.764	4.183	3.212+1	9.036+1
850	5.401	-2.840+1	3.783	4.198	3.218+1	8.914+1
860	5.417	-2.844+1	3.802	4.212	3.224+1	8.795+1
870	5.433	-2.849+1	3.821	4.226	3.231+1	8.678+1
880	5.448	-2.853+1	3.839	4.240	3.237+1	8.564+1
890	5.464	-2.857+1	3.857	4.253	3.243+1	8.453+1
900	5.480	-2.862+1	3.875	4.267	3.249+1	8.344+1
910	5.495	-2.866+1	3.893	4.280	3.255+1	8.237+1
920	5.509	-2.870+1	3.911	4.293	3.261+1	8.133+1
930	5.524	-2.874+1	3.928	4.307	3.267+1	8.031+1
940	5.538	-2.879+1	3.945	4.320	3.273+1	7.931+1
950	5.552	-2.883+1	3.962	4.333	3.279+1	7.834+1
960	5.566	-2.887+1	3.978	4.345	3.285+1	7.738+1
970	5.580	-2.891+1	3.995	4.358	3.291+1	7.644+1
980	5.594	-2.895+1	4.011	4.371	3.296+1	7.552+1
990	5.608	-2.899+1	4.027	4.383	3.302+1	7.462+1
1000	5.621	-2.903+1	4.043	4.395	3.308+1	7.374+1
1010	5.635	-2.907+1	4.059	4.408	3.313+1	7.287+1
1020	5.648	-2.911+1	4.074	4.420	3.319+1	7.203+1
1030	5.662	-2.915+1	4.090	4.432	3.324+1	7.120+1
1040	5.676	-2.919+1	4.105	4.444	3.330+1	7.038+1
1050	5.689	-2.923+1	4.120	4.456	3.335+1	6.958+1
1060	5.703	-2.927+1	4.135	4.467	3.341+1	6.880+1
1070	5.716	-2.931+1	4.150	4.479	3.346+1	6.803+1
1080	5.730	-2.935+1	4.164	4.491	3.351+1	6.727+1
1090	5.743	-2.939+1	4.179	4.502	3.357+1	6.652+1

SPECIE CHO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	5.757	-2.943+1	4.193	4.513	3.362+1	6.580+1
1110	5.769	-2.946+1	4.207	4.525	3.367+1	6.508+1
1120	5.781	-2.950+1	4.221	4.536	3.372+1	6.438+1
1130	5.793	-2.954+1	4.235	4.547	3.377+1	6.369+1
1140	5.805	-2.958+1	4.249	4.558	3.383+1	6.301+1
1150	5.816	-2.961+1	4.263	4.569	3.388+1	6.234+1
1160	5.828	-2.965+1	4.276	4.580	3.393+1	6.169+1
1170	5.839	-2.969+1	4.289	4.590	3.398+1	6.104+1
1180	5.850	-2.972+1	4.302	4.601	3.403+1	6.041+1
1190	5.862	-2.976+1	4.316	4.612	3.408+1	5.979+1
1200	5.872	-2.980+1	4.328	4.622	3.412+1	5.917+1
1210	5.883	-2.983+1	4.341	4.632	3.417+1	5.857+1
1220	5.894	-2.987+1	4.354	4.643	3.422+1	5.798+1
1230	5.905	-2.990+1	4.366	4.653	3.427+1	5.740+1
1240	5.916	-2.994+1	4.379	4.663	3.432+1	5.682+1
1250	5.926	-2.997+1	4.391	4.673	3.437+1	5.626+1
1260	5.937	-3.001+1	4.403	4.683	3.441+1	5.570+1
1270	5.947	-3.004+1	4.416	4.693	3.446+1	5.516+1
1280	5.958	-3.008+1	4.428	4.703	3.451+1	5.462+1
1290	5.968	-3.011+1	4.440	4.713	3.455+1	5.409+1
1300	5.978	-3.015+1	4.451	4.722	3.460+1	5.357+1
1310	5.988	-3.018+1	4.463	4.732	3.464+1	5.305+1
1320	5.998	-3.022+1	4.475	4.741	3.469+1	5.254+1
1330	6.008	-3.025+1	4.486	4.751	3.474+1	5.205+1
1340	6.018	-3.028+1	4.497	4.760	3.478+1	5.156+1
1350	6.027	-3.032+1	4.509	4.770	3.483+1	5.107+1
1360	6.037	-3.035+1	4.520	4.779	3.487+1	5.059+1
1370	6.046	-3.038+1	4.531	4.788	3.491+1	5.012+1
1380	6.055	-3.042+1	4.542	4.797	3.496+1	4.966+1
1390	6.065	-3.045+1	4.553	4.806	3.500+1	4.920+1
1400	6.074	-3.048+1	4.564	4.815	3.505+1	4.875+1
1410	6.082	-3.051+1	4.575	4.824	3.509+1	4.831+1
1420	6.091	-3.055+1	4.585	4.833	3.513+1	4.787+1
1430	6.099	-3.058+1	4.596	4.842	3.517+1	4.744+1
1440	6.107	-3.061+1	4.606	4.851	3.522+1	4.702+1
1450	6.115	-3.064+1	4.617	4.860	3.526+1	4.660+1
1460	6.123	-3.067+1	4.627	4.868	3.530+1	4.618+1
1470	6.131	-3.071+1	4.637	4.877	3.534+1	4.577+1
1480	6.139	-3.074+1	4.648	4.885	3.538+1	4.537+1
1490	6.147	-3.077+1	4.658	4.894	3.543+1	4.497+1
1500	6.154	-3.080+1	4.668	4.902	3.547+1	4.458+1
1510	6.162	-3.083+1	4.677	4.911	3.551+1	4.419+1
1520	6.170	-3.086+1	4.687	4.919	3.555+1	4.381+1
1530	6.177	-3.089+1	4.697	4.927	3.559+1	4.344+1
1540	6.185	-3.092+1	4.707	4.935	3.563+1	4.306+1
1550	6.193	-3.095+1	4.716	4.944	3.567+1	4.270+1
1560	6.200	-3.098+1	4.726	4.952	3.571+1	4.233+1
1570	6.208	-3.101+1	4.735	4.960	3.575+1	4.198+1
1580	6.215	-3.104+1	4.745	4.967	3.579+1	4.162+1
1590	6.222	-3.107+1	4.754	4.975	3.583+1	4.127+1

SPECIE CHO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	6.230	-3.110+1	4.763	4.983	3.587+1	4.093+1
1610	6.237	-3.113+1	4.772	4.991	3.591+1	4.059+1
1620	6.244	-3.116+1	4.781	4.999	3.594+1	4.025+1
1630	6.250	-3.119+1	4.790	5.006	3.598+1	3.992+1
1640	6.257	-3.122+1	4.799	5.014	3.602+1	3.959+1
1650	6.263	-3.125+1	4.808	5.022	3.606+1	3.927+1
1660	6.270	-3.128+1	4.817	5.029	3.610+1	3.895+1
1670	6.276	-3.131+1	4.826	5.036	3.613+1	3.863+1
1680	6.283	-3.134+1	4.834	5.044	3.617+1	3.832+1
1690	6.289	-3.137+1	4.843	5.051	3.621+1	3.801+1
1700	6.295	-3.140+1	4.851	5.059	3.625+1	3.771+1
1710	6.301	-3.142+1	4.860	5.066	3.628+1	3.740+1
1720	6.308	-3.145+1	4.868	5.073	3.632+1	3.711+1
1730	6.314	-3.148+1	4.877	5.080	3.636+1	3.681+1
1740	6.320	-3.151+1	4.885	5.087	3.639+1	3.652+1
1750	6.326	-3.154+1	4.893	5.094	3.643+1	3.623+1
1760	6.332	-3.156+1	4.901	5.102	3.647+1	3.595+1
1770	6.338	-3.159+1	4.909	5.108	3.650+1	3.566+1
1780	6.344	-3.162+1	4.918	5.115	3.654+1	3.539+1
1790	6.350	-3.165+1	4.926	5.122	3.657+1	3.511+1
1800	6.355	-3.168+1	4.934	5.129	3.661+1	3.484+1
1810	6.361	-3.170+1	4.941	5.136	3.664+1	3.457+1
1820	6.366	-3.173+1	4.949	5.143	3.668+1	3.430+1
1830	6.371	-3.176+1	4.957	5.149	3.671+1	3.404+1
1840	6.377	-3.178+1	4.965	5.156	3.675+1	3.378+1
1850	6.382	-3.181+1	4.972	5.163	3.678+1	3.352+1
1860	6.387	-3.184+1	4.980	5.169	3.682+1	3.327+1
1870	6.391	-3.186+1	4.987	5.176	3.685+1	3.301+1
1880	6.397	-3.189+1	4.995	5.182	3.689+1	3.276+1
1890	6.401	-3.192+1	5.002	5.189	3.692+1	3.252+1
1900	6.406	-3.194+1	5.010	5.195	3.695+1	3.227+1
1910	6.411	-3.197+1	5.017	5.201	3.699+1	3.203+1
1920	6.415	-3.200+1	5.024	5.208	3.702+1	3.179+1
1930	6.420	-3.202+1	5.031	5.214	3.705+1	3.155+1
1940	6.424	-3.205+1	5.039	5.220	3.709+1	3.132+1
1950	6.429	-3.207+1	5.046	5.226	3.712+1	3.109+1
1960	6.434	-3.210+1	5.053	5.233	3.715+1	3.086+1
1970	6.438	-3.213+1	5.060	5.239	3.719+1	3.063+1
1980	6.442	-3.215+1	5.067	5.245	3.722+1	3.040+1
1990	6.447	-3.218+1	5.074	5.251	3.725+1	3.018+1
2000	6.451	-3.220+1	5.081	5.257	3.728+1	2.996+1
2010	6.456	-3.223+1	5.088	5.263	3.732+1	2.974+1
2020	6.460	-3.225+1	5.094	5.269	3.735+1	2.953+1
2030	6.465	-3.228+1	5.101	5.275	3.738+1	2.931+1
2040	6.469	-3.230+1	5.108	5.281	3.741+1	2.910+1
2050	6.474	-3.233+1	5.115	5.286	3.744+1	2.889+1
2060	6.478	-3.235+1	5.121	5.292	3.747+1	2.868+1
2070	6.483	-3.238+1	5.128	5.298	3.751+1	2.847+1
2080	6.487	-3.240+1	5.134	5.304	3.754+1	2.827+1
2090	6.492	-3.243+1	5.141	5.309	3.757+1	2.807+1

SPECIE CHO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	6.496	-3.245+1	5.147	5.315	3.760+1	2.787+1
2110	6.500	-3.248+1	5.154	5.321	3.763+1	2.767+1
2120	6.504	-3.250+1	5.160	5.326	3.766+1	2.747+1
2130	6.508	-3.253+1	5.166	5.332	3.769+1	2.728+1
2140	6.511	-3.255+1	5.173	5.337	3.772+1	2.709+1
2150	6.515	-3.257+1	5.179	5.343	3.775+1	2.689+1
2160	6.518	-3.260+1	5.185	5.348	3.778+1	2.671+1
2170	6.521	-3.262+1	5.191	5.354	3.781+1	2.652+1
2180	6.525	-3.265+1	5.197	5.359	3.784+1	2.633+1
2190	6.529	-3.267+1	5.203	5.364	3.787+1	2.615+1
2200	6.532	-3.269+1	5.209	5.370	3.790+1	2.596+1
2210	6.535	-3.272+1	5.215	5.375	3.793+1	2.578+1
2220	6.539	-3.274+1	5.221	5.380	3.796+1	2.560+1
2230	6.542	-3.276+1	5.227	5.385	3.799+1	2.543+1
2240	6.546	-3.279+1	5.233	5.390	3.802+1	2.525+1
2250	6.549	-3.281+1	5.239	5.396	3.805+1	2.508+1
2260	6.553	-3.283+1	5.245	5.401	3.808+1	2.490+1
2270	6.556	-3.286+1	5.251	5.406	3.811+1	2.473+1
2280	6.560	-3.288+1	5.256	5.411	3.814+1	2.456+1
2290	6.563	-3.290+1	5.262	5.416	3.817+1	2.439+1
2300	6.567	-3.293+1	5.268	5.421	3.819+1	2.423+1
2310	6.570	-3.295+1	5.273	5.426	3.822+1	2.406+1
2320	6.573	-3.297+1	5.279	5.431	3.825+1	2.390+1
2330	6.576	-3.299+1	5.285	5.436	3.828+1	2.373+1
2340	6.579	-3.302+1	5.290	5.441	3.831+1	2.357+1
2350	6.583	-3.304+1	5.296	5.445	3.834+1	2.341+1
2360	6.586	-3.306+1	5.301	5.450	3.836+1	2.325+1
2370	6.588	-3.308+1	5.306	5.455	3.839+1	2.310+1
2380	6.591	-3.311+1	5.312	5.460	3.842+1	2.294+1
2390	6.594	-3.313+1	5.317	5.465	3.845+1	2.279+1
2400	6.597	-3.315+1	5.323	5.469	3.847+1	2.263+1
2410	6.600	-3.317+1	5.328	5.474	3.850+1	2.248+1
2420	6.602	-3.320+1	5.333	5.479	3.853+1	2.233+1
2430	6.605	-3.322+1	5.338	5.483	3.856+1	2.218+1
2440	6.608	-3.324+1	5.344	5.488	3.858+1	2.203+1
2450	6.610	-3.326+1	5.349	5.492	3.861+1	2.189+1
2460	6.613	-3.328+1	5.354	5.497	3.864+1	2.174+1
2470	6.615	-3.331+1	5.359	5.502	3.866+1	2.159+1
2480	6.618	-3.333+1	5.364	5.506	3.869+1	2.145+1
2490	6.620	-3.335+1	5.369	5.511	3.872+1	2.131+1
2500	6.622	-3.337+1	5.374	5.515	3.874+1	2.117+1
2510	6.625	-3.339+1	5.379	5.519	3.877+1	2.103+1
2520	6.627	-3.341+1	5.384	5.524	3.880+1	2.089+1
2530	6.630	-3.343+1	5.389	5.528	3.882+1	2.075+1
2540	6.632	-3.346+1	5.394	5.533	3.885+1	2.061+1
2550	6.635	-3.348+1	5.399	5.537	3.888+1	2.048+1
2560	6.637	-3.350+1	5.404	5.541	3.890+1	2.034+1
2570	6.640	-3.352+1	5.408	5.546	3.893+1	2.021+1
2580	6.642	-3.354+1	5.413	5.550	3.895+1	2.007+1
2590	6.645	-3.356+1	5.418	5.554	3.898+1	1.994+1

SPECIE CHO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	6.647	-3.358+1	5.423	5.558	3.900+1	1.981+1
2610	6.650	-3.360+1	5.427	5.562	3.903+1	1.968+1
2620	6.652	-3.362+1	5.432	5.567	3.906+1	1.955+1
2630	6.655	-3.364+1	5.437	5.571	3.908+1	1.942+1
2640	6.657	-3.366+1	5.441	5.575	3.911+1	1.930+1
2650	6.660	-3.368+1	5.446	5.579	3.913+1	1.917+1
2660	6.662	-3.371+1	5.451	5.583	3.916+1	1.905+1
2670	6.665	-3.373+1	5.455	5.587	3.918+1	1.892+1
2680	6.667	-3.375+1	5.460	5.591	3.921+1	1.880+1
2690	6.670	-3.377+1	5.464	5.595	3.923+1	1.868+1
2700	6.672	-3.379+1	5.469	5.599	3.926+1	1.856+1
2710	6.675	-3.381+1	5.473	5.603	3.928+1	1.844+1
2720	6.677	-3.383+1	5.477	5.607	3.931+1	1.832+1
2730	6.679	-3.385+1	5.482	5.611	3.933+1	1.820+1
2740	6.681	-3.387+1	5.486	5.615	3.935+1	1.808+1
2750	6.683	-3.389+1	5.491	5.619	3.938+1	1.796+1
2760	6.685	-3.391+1	5.495	5.623	3.940+1	1.785+1
2770	6.687	-3.393+1	5.499	5.626	3.943+1	1.773+1
2780	6.689	-3.395+1	5.504	5.630	3.945+1	1.762+1
2790	6.691	-3.397+1	5.508	5.634	3.947+1	1.750+1
2800	6.693	-3.399+1	5.512	5.638	3.950+1	1.739+1
2810	6.694	-3.401+1	5.516	5.642	3.952+1	1.728+1
2820	6.696	-3.403+1	5.520	5.645	3.955+1	1.717+1
2830	6.698	-3.405+1	5.525	5.649	3.957+1	1.706+1
2840	6.699	-3.407+1	5.529	5.653	3.959+1	1.695+1
2850	6.701	-3.408+1	5.533	5.656	3.962+1	1.684+1
2860	6.702	-3.410+1	5.537	5.660	3.964+1	1.673+1
2870	6.704	-3.412+1	5.541	5.664	3.966+1	1.662+1
2880	6.705	-3.414+1	5.545	5.667	3.969+1	1.651+1
2890	6.706	-3.416+1	5.549	5.671	3.971+1	1.641+1
2900	6.708	-3.418+1	5.553	5.674	3.973+1	1.630+1
2910	6.710	-3.420+1	5.557	5.678	3.976+1	1.620+1
2920	6.711	-3.422+1	5.561	5.682	3.978+1	1.609+1
2930	6.713	-3.424+1	5.565	5.685	3.980+1	1.599+1
2940	6.715	-3.426+1	5.569	5.689	3.983+1	1.589+1
2950	6.717	-3.427+1	5.573	5.692	3.985+1	1.579+1
2960	6.719	-3.429+1	5.577	5.696	3.987+1	1.568+1
2970	6.721	-3.431+1	5.580	5.699	3.989+1	1.558+1
2980	6.723	-3.433+1	5.584	5.702	3.991+1	1.548+1
2990	6.726	-3.435+1	5.588	5.706	3.994+1	1.538+1
3000	6.728	-3.437+1	5.592	5.709	3.996+1	1.529+1
3010	6.730	-3.439+1	5.596	5.713	3.998+1	1.519+1
3020	6.731	-3.440+1	5.599	5.716	4.000+1	1.509+1
3030	6.733	-3.442+1	5.603	5.719	4.003+1	1.500+1
3040	6.734	-3.444+1	5.607	5.723	4.005+1	1.490+1
3050	6.736	-3.446+1	5.611	5.726	4.007+1	1.480+1
3060	6.737	-3.448+1	5.614	5.729	4.009+1	1.471+1
3070	6.739	-3.450+1	5.618	5.733	4.012+1	1.462+1
3080	6.740	-3.452+1	5.622	5.736	4.014+1	1.452+1
3090	6.742	-3.453+1	5.625	5.739	4.016+1	1.443+1

SPECIE CHO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	6.743	-3.455+1	5.629	5.742	4.018+1	1.434+1
3110	6.744	-3.457+1	5.632	5.746	4.020+1	1.425+1
3120	6.746	-3.459+1	5.636	5.749	4.023+1	1.416+1
3130	6.747	-3.461+1	5.640	5.752	4.025+1	1.407+1
3140	6.749	-3.463+1	5.643	5.755	4.027+1	1.398+1
3150	6.750	-3.464+1	5.647	5.758	4.029+1	1.389+1
3160	6.752	-3.466+1	5.650	5.762	4.031+1	1.380+1
3170	6.754	-3.468+1	5.654	5.765	4.033+1	1.371+1
3180	6.755	-3.470+1	5.657	5.768	4.036+1	1.362+1
3190	6.757	-3.472+1	5.661	5.771	4.038+1	1.354+1
3200	6.758	-3.473+1	5.664	5.774	4.040+1	1.345+1
3210	6.759	-3.475+1	5.667	5.777	4.042+1	1.336+1
3220	6.760	-3.477+1	5.671	5.780	4.044+1	1.328+1
3230	6.762	-3.479+1	5.674	5.783	4.046+1	1.319+1
3240	6.763	-3.480+1	5.677	5.786	4.048+1	1.311+1
3250	6.764	-3.482+1	5.681	5.789	4.050+1	1.302+1
3260	6.765	-3.484+1	5.684	5.792	4.052+1	1.294+1
3270	6.766	-3.486+1	5.687	5.795	4.054+1	1.286+1
3280	6.766	-3.487+1	5.691	5.798	4.056+1	1.277+1
3290	6.767	-3.489+1	5.694	5.801	4.058+1	1.269+1
3300	6.768	-3.491+1	5.697	5.804	4.061+1	1.261+1
3310	6.769	-3.493+1	5.701	5.807	4.063+1	1.253+1
3320	6.771	-3.494+1	5.704	5.810	4.065+1	1.245+1
3330	6.772	-3.496+1	5.707	5.813	4.067+1	1.237+1
3340	6.774	-3.498+1	5.710	5.816	4.069+1	1.229+1
3350	6.775	-3.499+1	5.713	5.819	4.071+1	1.221+1
3360	6.777	-3.501+1	5.717	5.821	4.073+1	1.213+1
3370	6.778	-3.503+1	5.720	5.824	4.075+1	1.205+1
3380	6.780	-3.504+1	5.723	5.827	4.077+1	1.198+1
3390	6.781	-3.506+1	5.726	5.830	4.079+1	1.190+1
3400	6.783	-3.508+1	5.729	5.833	4.081+1	1.182+1
3410	6.784	-3.510+1	5.732	5.836	4.083+1	1.175+1
3420	6.786	-3.511+1	5.735	5.838	4.085+1	1.167+1
3430	6.787	-3.513+1	5.738	5.841	4.087+1	1.160+1
3440	6.788	-3.515+1	5.742	5.844	4.089+1	1.152+1
3450	6.789	-3.516+1	5.745	5.847	4.091+1	1.145+1
3460	6.790	-3.518+1	5.748	5.849	4.093+1	1.137+1
3470	6.791	-3.520+1	5.751	5.852	4.095+1	1.130+1
3480	6.792	-3.521+1	5.754	5.855	4.097+1	1.122+1
3490	6.792	-3.523+1	5.757	5.857	4.099+1	1.115+1
3500	6.793	-3.524+1	5.759	5.860	4.100+1	1.108+1
3510	6.794	-3.526+1	5.762	5.863	4.102+1	1.101+1
3520	6.795	-3.528+1	5.765	5.865	4.104+1	1.094+1
3530	6.796	-3.529+1	5.768	5.868	4.106+1	1.086+1
3540	6.797	-3.531+1	5.771	5.871	4.108+1	1.079+1
3550	6.798	-3.533+1	5.774	5.873	4.110+1	1.072+1
3560	6.799	-3.534+1	5.777	5.876	4.112+1	1.065+1
3570	6.800	-3.536+1	5.780	5.878	4.114+1	1.058+1
3580	6.801	-3.538+1	5.783	5.881	4.116+1	1.051+1
3590	6.802	-3.539+1	5.785	5.884	4.118+1	1.044+1

SPECIE CHO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	6.803	-3.541+1	5.788	5.886	4.120+1	1.038+1
3610	6.804	-3.542+1	5.791	5.889	4.122+1	1.031+1
3620	6.805	-3.544+1	5.794	5.891	4.123+1	1.024+1
3630	6.806	-3.546+1	5.797	5.894	4.125+1	1.017+1
3640	6.807	-3.547+1	5.800	5.896	4.127+1	1.011+1
3650	6.808	-3.549+1	5.802	5.899	4.129+1	1.004+1
3660	6.809	-3.550+1	5.805	5.901	4.131+1	9.973
3670	6.810	-3.552+1	5.808	5.904	4.133+1	9.907
3680	6.811	-3.554+1	5.811	5.906	4.135+1	9.841
3690	6.812	-3.555+1	5.813	5.909	4.136+1	9.776
3700	6.813	-3.557+1	5.816	5.911	4.138+1	9.711
3710	6.814	-3.558+1	5.819	5.914	4.140+1	9.646
3720	6.815	-3.560+1	5.821	5.916	4.142+1	9.582
3730	6.816	-3.561+1	5.824	5.919	4.144+1	9.518
3740	6.817	-3.563+1	5.827	5.921	4.146+1	9.455
3750	6.818	-3.564+1	5.829	5.923	4.147+1	9.391
3760	6.819	-3.566+1	5.832	5.926	4.149+1	9.328
3770	6.820	-3.568+1	5.835	5.928	4.151+1	9.266
3780	6.821	-3.569+1	5.837	5.930	4.153+1	9.204
3790	6.822	-3.571+1	5.840	5.933	4.155+1	9.142
3800	6.823	-3.572+1	5.842	5.935	4.156+1	9.080
3810	6.824	-3.574+1	5.845	5.937	4.158+1	9.019
3820	6.825	-3.575+1	5.848	5.940	4.160+1	8.958
3830	6.826	-3.577+1	5.850	5.942	4.162+1	8.897
3840	6.826	-3.578+1	5.853	5.944	4.164+1	8.837
3850	6.827	-3.580+1	5.855	5.947	4.165+1	8.776
3860	6.827	-3.581+1	5.858	5.949	4.167+1	8.717
3870	6.828	-3.583+1	5.860	5.951	4.169+1	8.657
3880	6.828	-3.584+1	5.863	5.953	4.171+1	8.598
3890	6.828	-3.586+1	5.865	5.956	4.172+1	8.539
3900	6.828	-3.587+1	5.868	5.958	4.174+1	8.481
3910	6.829	-3.589+1	5.870	5.960	4.176+1	8.422
3920	6.830	-3.590+1	5.873	5.962	4.178+1	8.364
3930	6.831	-3.592+1	5.875	5.965	4.179+1	8.307
3940	6.832	-3.593+1	5.878	5.967	4.181+1	8.249
3950	6.833	-3.595+1	5.880	5.969	4.183+1	8.192
3960	6.834	-3.596+1	5.882	5.971	4.185+1	8.135
3970	6.835	-3.598+1	5.885	5.974	4.186+1	8.079
3980	6.836	-3.599+1	5.887	5.976	4.188+1	8.023
3990	6.837	-3.601+1	5.890	5.978	4.190+1	7.967
4000	6.839	-3.602+1	5.892	5.980	4.191+1	7.911
4010	6.839	-3.604+1	5.894	5.982	4.193+1	7.855
4020	6.840	-3.605+1	5.897	5.984	4.195+1	7.800
4030	6.841	-3.607+1	5.899	5.986	4.197+1	7.746
4040	6.841	-3.608+1	5.901	5.989	4.198+1	7.691
4050	6.842	-3.610+1	5.904	5.991	4.200+1	7.637
4060	6.842	-3.611+1	5.906	5.993	4.202+1	7.583
4070	6.843	-3.613+1	5.908	5.995	4.203+1	7.529
4080	6.843	-3.614+1	5.911	5.997	4.205+1	7.475
4090	6.843	-3.615+1	5.913	5.999	4.207+1	7.422

SPECIE CHO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	6.844	-3.617+1	5.915	6.001	4.208+1	7.369
4110	6.844	-3.618+1	5.917	6.003	4.210+1	7.316
4120	6.845	-3.620+1	5.920	6.005	4.212+1	7.264
4130	6.846	-3.621+1	5.922	6.007	4.213+1	7.212
4140	6.847	-3.623+1	5.924	6.009	4.215+1	7.160
4150	6.848	-3.624+1	5.926	6.011	4.217+1	7.108
4160	6.849	-3.626+1	5.929	6.013	4.218+1	7.056
4170	6.850	-3.627+1	5.931	6.015	4.220+1	7.005
4180	6.851	-3.628+1	5.933	6.017	4.222+1	6.954
4190	6.852	-3.630+1	5.935	6.019	4.223+1	6.903
4200	6.854	-3.631+1	5.938	6.021	4.225+1	6.853
4210	6.854	-3.633+1	5.940	6.023	4.227+1	6.802
4220	6.855	-3.634+1	5.942	6.025	4.228+1	6.752
4230	6.856	-3.635+1	5.944	6.027	4.230+1	6.702
4240	6.856	-3.637+1	5.946	6.029	4.231+1	6.653
4250	6.857	-3.638+1	5.948	6.031	4.233+1	6.603
4260	6.857	-3.640+1	5.950	6.033	4.235+1	6.554
4270	6.858	-3.641+1	5.953	6.035	4.236+1	6.505
4280	6.858	-3.642+1	5.955	6.037	4.238+1	6.457
4290	6.858	-3.644+1	5.957	6.039	4.239+1	6.408
4300	6.859	-3.645+1	5.959	6.041	4.241+1	6.360
4310	6.859	-3.647+1	5.961	6.043	4.243+1	6.312
4320	6.860	-3.648+1	5.963	6.045	4.244+1	6.264
4330	6.860	-3.649+1	5.965	6.047	4.246+1	6.216
4340	6.861	-3.651+1	5.967	6.048	4.247+1	6.169
4350	6.861	-3.652+1	5.969	6.050	4.249+1	6.122
4360	6.862	-3.653+1	5.971	6.052	4.251+1	6.075
4370	6.862	-3.655+1	5.973	6.054	4.252+1	6.028
4380	6.863	-3.656+1	5.975	6.056	4.254+1	5.981
4390	6.863	-3.658+1	5.977	6.058	4.255+1	5.935
4400	6.864	-3.659+1	5.979	6.060	4.257+1	5.888
4410	6.864	-3.660+1	5.982	6.061	4.258+1	5.842
4420	6.865	-3.662+1	5.984	6.063	4.260+1	5.796
4430	6.865	-3.663+1	5.986	6.065	4.262+1	5.751
4440	6.866	-3.664+1	5.987	6.067	4.263+1	5.705
4450	6.866	-3.666+1	5.989	6.069	4.265+1	5.660
4460	6.867	-3.667+1	5.991	6.070	4.266+1	5.615
4470	6.867	-3.668+1	5.993	6.072	4.268+1	5.570
4480	6.868	-3.670+1	5.995	6.074	4.269+1	5.526
4490	6.868	-3.671+1	5.997	6.076	4.271+1	5.481
4500	6.869	-3.672+1	5.999	6.078	4.272+1	5.437
4510	6.869	-3.674+1	6.001	6.079	4.274+1	5.393
4520	6.870	-3.675+1	6.003	6.081	4.275+1	5.349
4530	6.870	-3.676+1	6.005	6.083	4.277+1	5.306
4540	6.871	-3.678+1	6.007	6.085	4.278+1	5.262
4550	6.871	-3.679+1	6.009	6.086	4.280+1	5.219
4560	6.872	-3.680+1	6.011	6.088	4.281+1	5.176
4570	6.872	-3.682+1	6.013	6.090	4.283+1	5.133
4580	6.873	-3.683+1	6.015	6.091	4.284+1	5.090
4590	6.873	-3.684+1	6.016	6.093	4.286+1	5.048

SPECIE CHO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	6.874	-3.686+1	6.018	6.095	4.287+1	5.006
4610	6.874	-3.687+1	6.020	6.097	4.289+1	4.964
4620	6.875	-3.688+1	6.022	6.098	4.290+1	4.922
4630	6.875	-3.689+1	6.024	6.100	4.292+1	4.880
4640	6.876	-3.691+1	6.026	6.102	4.293+1	4.838
4650	6.876	-3.692+1	6.028	6.103	4.295+1	4.797
4660	6.877	-3.693+1	6.029	6.105	4.296+1	4.756
4670	6.877	-3.695+1	6.031	6.107	4.298+1	4.715
4680	6.878	-3.696+1	6.033	6.108	4.299+1	4.674
4690	6.878	-3.697+1	6.035	6.110	4.301+1	4.633
4700	6.879	-3.699+1	6.037	6.112	4.302+1	4.593
4710	6.879	-3.700+1	6.038	6.113	4.304+1	4.552
4720	6.880	-3.701+1	6.040	6.115	4.305+1	4.512
4730	6.880	-3.702+1	6.042	6.117	4.307+1	4.472
4740	6.881	-3.704+1	6.044	6.118	4.308+1	4.432
4750	6.881	-3.705+1	6.046	6.120	4.310+1	4.393
4760	6.882	-3.706+1	6.047	6.121	4.311+1	4.353
4770	6.882	-3.707+1	6.049	6.123	4.312+1	4.314
4780	6.883	-3.709+1	6.051	6.125	4.314+1	4.275
4790	6.883	-3.710+1	6.053	6.126	4.315+1	4.236
4800	6.884	-3.711+1	6.054	6.128	4.317+1	4.197
4810	6.884	-3.713+1	6.056	6.129	4.318+1	4.158
4820	6.885	-3.714+1	6.058	6.131	4.320+1	4.119
4830	6.885	-3.715+1	6.060	6.132	4.321+1	4.081
4840	6.886	-3.716+1	6.061	6.134	4.322+1	4.043
4850	6.886	-3.718+1	6.063	6.136	4.324+1	4.004
4860	6.887	-3.719+1	6.065	6.137	4.325+1	3.966
4870	6.887	-3.720+1	6.066	6.139	4.327+1	3.928
4880	6.888	-3.721+1	6.068	6.140	4.328+1	3.891
4890	6.888	-3.723+1	6.070	6.142	4.329+1	3.853
4900	6.889	-3.724+1	6.071	6.143	4.331+1	3.816
4910	6.889	-3.725+1	6.073	6.145	4.332+1	3.778
4920	6.890	-3.726+1	6.075	6.146	4.334+1	3.741
4930	6.890	-3.727+1	6.076	6.148	4.335+1	3.704
4940	6.891	-3.729+1	6.078	6.149	4.336+1	3.668
4950	6.891	-3.730+1	6.080	6.151	4.338+1	3.631
4960	6.892	-3.731+1	6.081	6.152	4.339+1	3.594
4970	6.892	-3.732+1	6.083	6.154	4.341+1	3.558
4980	6.893	-3.734+1	6.085	6.155	4.342+1	3.522
4990	6.893	-3.735+1	6.086	6.157	4.343+1	3.486
5000	6.894	-3.736+1	6.088	6.158	4.345+1	3.449
5010	6.894	-3.737+1	6.089	6.160	4.346+1	3.414
5020	6.895	-3.738+1	6.091	6.161	4.348+1	3.378
5030	6.895	-3.740+1	6.093	6.163	4.349+1	3.342
5040	6.896	-3.741+1	6.094	6.164	4.350+1	3.307
5050	6.896	-3.742+1	6.096	6.166	4.352+1	3.271
5060	6.897	-3.743+1	6.097	6.167	4.353+1	3.236
5070	6.897	-3.745+1	6.099	6.168	4.354+1	3.201
5080	6.898	-3.746+1	6.101	6.170	4.356+1	3.166
5090	6.898	-3.747+1	6.102	6.171	4.357+1	3.131

SPECIE CHO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	6.899	-3.748+1	6.104	6.173	4.358+1	3.097
5110	6.899	-3.749+1	6.105	6.174	4.360+1	3.062
5120	6.899	-3.750+1	6.107	6.176	4.361+1	3.028
5130	6.899	-3.752+1	6.108	6.177	4.363+1	2.994
5140	6.899	-3.753+1	6.110	6.178	4.364+1	2.960
5150	6.899	-3.754+1	6.111	6.180	4.365+1	2.926
5160	6.899	-3.755+1	6.113	6.181	4.367+1	2.892
5170	6.899	-3.756+1	6.115	6.183	4.368+1	2.859
5180	6.899	-3.758+1	6.116	6.184	4.369+1	2.825
5190	6.899	-3.759+1	6.118	6.185	4.371+1	2.792
5200	6.899	-3.760+1	6.119	6.187	4.372+1	2.759
5210	6.899	-3.761+1	6.121	6.188	4.373+1	2.725
5220	6.900	-3.762+1	6.122	6.190	4.375+1	2.692
5230	6.900	-3.763+1	6.124	6.191	4.376+1	2.659
5240	6.900	-3.765+1	6.125	6.192	4.377+1	2.626
5250	6.901	-3.766+1	6.127	6.194	4.378+1	2.594
5260	6.901	-3.767+1	6.128	6.195	4.380+1	2.561
5270	6.902	-3.768+1	6.130	6.196	4.381+1	2.528
5280	6.903	-3.769+1	6.131	6.198	4.382+1	2.496
5290	6.903	-3.770+1	6.132	6.199	4.384+1	2.464
5300	6.904	-3.772+1	6.134	6.200	4.385+1	2.432
5310	6.904	-3.773+1	6.135	6.202	4.386+1	2.400
5320	6.905	-3.774+1	6.137	6.203	4.388+1	2.368
5330	6.905	-3.775+1	6.138	6.204	4.389+1	2.336
5340	6.906	-3.776+1	6.140	6.206	4.390+1	2.305
5350	6.906	-3.777+1	6.141	6.207	4.392+1	2.273
5360	6.907	-3.779+1	6.143	6.208	4.393+1	2.242
5370	6.907	-3.780+1	6.144	6.210	4.394+1	2.211
5380	6.908	-3.781+1	6.145	6.211	4.395+1	2.180
5390	6.908	-3.782+1	6.147	6.212	4.397+1	2.149
5400	6.909	-3.783+1	6.148	6.214	4.398+1	2.118
5410	6.909	-3.784+1	6.150	6.215	4.399+1	2.087
5420	6.909	-3.785+1	6.151	6.216	4.400+1	2.056
5430	6.909	-3.786+1	6.152	6.217	4.402+1	2.026
5440	6.909	-3.788+1	6.154	6.219	4.403+1	1.995
5450	6.909	-3.789+1	6.155	6.220	4.404+1	1.965
5460	6.909	-3.790+1	6.157	6.221	4.406+1	1.935
5470	6.909	-3.791+1	6.158	6.222	4.407+1	1.905
5480	6.909	-3.792+1	6.159	6.224	4.408+1	1.874
5490	6.909	-3.793+1	6.161	6.225	4.409+1	1.844
5500	6.909	-3.794+1	6.162	6.226	4.411+1	1.815
5510	6.909	-3.796+1	6.163	6.227	4.412+1	1.785
5520	6.910	-3.797+1	6.165	6.229	4.413+1	1.755
5530	6.910	-3.798+1	6.166	6.230	4.414+1	1.726
5540	6.910	-3.799+1	6.168	6.231	4.416+1	1.696
5550	6.911	-3.800+1	6.169	6.232	4.417+1	1.667
5560	6.911	-3.801+1	6.170	6.234	4.418+1	1.637
5570	6.912	-3.802+1	6.172	6.235	4.419+1	1.608
5580	6.913	-3.803+1	6.173	6.236	4.421+1	1.579
5590	6.913	-3.804+1	6.174	6.237	4.422+1	1.550

SPECIE CHO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	6.914	-3.806+1	6.176	6.238	4.423+1	1.521
5610	6.915	-3.807+1	6.177	6.240	4.424+1	1.493
5620	6.915	-3.808+1	6.178	6.241	4.426+1	1.464
5630	6.916	-3.809+1	6.179	6.242	4.427+1	1.435
5640	6.916	-3.810+1	6.181	6.243	4.428+1	1.407
5650	6.917	-3.811+1	6.182	6.244	4.429+1	1.379
5660	6.917	-3.812+1	6.183	6.246	4.430+1	1.351
5670	6.918	-3.813+1	6.185	6.247	4.432+1	1.322
5680	6.918	-3.814+1	6.186	6.248	4.433+1	1.294
5690	6.919	-3.815+1	6.187	6.249	4.434+1	1.267
5700	6.919	-3.816+1	6.189	6.250	4.435+1	1.239
5710	6.919	-3.818+1	6.190	6.252	4.437+1	1.211
5720	6.919	-3.819+1	6.191	6.253	4.438+1	1.183
5730	6.919	-3.820+1	6.192	6.254	4.439+1	1.156
5740	6.919	-3.821+1	6.194	6.255	4.440+1	1.129
5750	6.919	-3.822+1	6.195	6.256	4.441+1	1.101
5760	6.919	-3.823+1	6.196	6.257	4.443+1	1.074
5770	6.919	-3.824+1	6.197	6.259	4.444+1	1.047
5780	6.919	-3.825+1	6.199	6.260	4.445+1	1.020
5790	6.919	-3.826+1	6.200	6.261	4.446+1	9.928-1
5800	6.919	-3.827+1	6.201	6.262	4.447+1	9.659-1
5810	6.920	-3.828+1	6.202	6.263	4.449+1	9.390-1
5820	6.920	-3.829+1	6.204	6.264	4.450+1	9.123-1
5830	6.920	-3.830+1	6.205	6.265	4.451+1	8.856-1
5840	6.920	-3.831+1	6.206	6.267	4.452+1	8.590-1
5850	6.921	-3.833+1	6.207	6.268	4.453+1	8.325-1
5860	6.921	-3.834+1	6.209	6.269	4.454+1	8.061-1
5870	6.922	-3.835+1	6.210	6.270	4.456+1	7.798-1
5880	6.923	-3.836+1	6.211	6.271	4.457+1	7.535-1
5890	6.923	-3.837+1	6.212	6.272	4.458+1	7.274-1
5900	6.924	-3.838+1	6.213	6.273	4.459+1	7.013-1
5910	6.924	-3.839+1	6.215	6.274	4.460+1	6.753-1
5920	6.924	-3.840+1	6.216	6.275	4.462+1	6.494-1
5930	6.924	-3.841+1	6.217	6.276	4.463+1	6.236-1
5940	6.924	-3.842+1	6.218	6.278	4.464+1	5.979-1
5950	6.924	-3.843+1	6.219	6.279	4.465+1	5.723-1
5960	6.924	-3.844+1	6.221	6.280	4.466+1	5.468-1
5970	6.924	-3.845+1	6.222	6.281	4.467+1	5.213-1
5980	6.924	-3.846+1	6.223	6.282	4.469+1	4.960-1
5990	6.924	-3.847+1	6.224	6.283	4.470+1	4.707-1
6000	6.924	-3.848+1	6.225	6.284	4.471+1	4.456-1

SPECIE CH3OH
MOLECULAR WEIGHT EQUALS 32.0434
DELTA E ZERO EQUALS -45.390 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(E. V. IVASH, 9/55) (7)

THERMAL

(E. V. IVASH, 9/55) (7)

SPECIE CH3OH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	-1.943+1	4.230	4.443	-2.242+2	2.365+1	1.062+3
110	-1.981+1	4.243	4.482	-2.068+2	2.405+1	9.785+2
120	-2.016+1	4.256	4.517	-1.909+2	2.444+1	9.032+2
130	-2.050+1	4.270	4.550	-1.766+2	2.480+1	8.350+2
140	-2.082+1	4.285	4.581	-1.637+2	2.514+1	7.736+2
150	-2.112+1	4.301	4.611	-1.521+2	2.547+1	7.183+2
160	-2.141+1	4.317	4.641	-1.417+2	2.577+1	6.686+2
170	-2.168+1	4.335	4.672	-1.323+2	2.606+1	6.240+2
180	-2.194+1	4.352	4.703	-1.239+2	2.634+1	5.842+2
190	-2.219+1	4.371	4.736	-1.165+2	2.660+1	5.486+2
200	-2.242+1	4.390	4.771	-1.098+2	2.685+1	5.168+2
210	-2.264+1	4.410	4.808	-1.038+2	2.708+1	4.885+2
220	-2.285+1	4.430	4.847	-9.853+1	2.731+1	4.632+2
230	-2.305+1	4.451	4.890	-9.380+1	2.753+1	4.407+2
240	-2.325+1	4.473	4.936	-8.957+1	2.774+1	4.206+2
250	-2.343+1	4.495	4.986	-8.578+1	2.794+1	4.025+2
260	-2.361+1	4.518	5.040	-8.237+1	2.814+1	3.863+2
270	-2.378+1	4.541	5.097	-7.929+1	2.832+1	3.716+2
280	-2.395+1	4.565	5.159	-7.649+1	2.851+1	3.582+2
290	-2.411+1	4.590	5.224	-7.391+1	2.869+1	3.459+2
300	-2.426+1	4.615	5.294	-7.152+1	2.886+1	3.344+2
310	-2.441+1	4.639	5.372	-6.899+1	2.904+1	3.223+2
320	-2.456+1	4.665	5.454	-6.662+1	2.921+1	3.109+2
330	-2.470+1	4.689	5.538	-6.441+1	2.938+1	3.002+2
340	-2.484+1	4.715	5.625	-6.234+1	2.955+1	2.903+2
350	-2.498+1	4.742	5.715	-6.039+1	2.971+1	2.810+2
360	-2.511+1	4.770	5.806	-5.857+1	2.987+1	2.722+2
370	-2.524+1	4.799	5.899	-5.684+1	3.003+1	2.639+2
380	-2.537+1	4.828	5.993	-5.522+1	3.019+1	2.561+2
390	-2.549+1	4.859	6.088	-5.368+1	3.035+1	2.487+2
400	-2.561+1	4.890	6.185	-5.221+1	3.050+1	2.417+2
410	-2.574+1	4.923	6.282	-5.082+1	3.065+1	2.351+2
420	-2.585+1	4.955	6.379	-4.949+1	3.081+1	2.287+2
430	-2.597+1	4.989	6.477	-4.821+1	3.096+1	2.227+2
440	-2.608+1	5.024	6.575	-4.698+1	3.111+1	2.169+2
450	-2.620+1	5.059	6.673	-4.580+1	3.126+1	2.113+2
460	-2.631+1	5.095	6.770	-4.466+1	3.141+1	2.059+2
470	-2.642+1	5.132	6.867	-4.355+1	3.155+1	2.007+2
480	-2.653+1	5.170	6.964	-4.248+1	3.170+1	1.957+2
490	-2.664+1	5.208	7.060	-4.144+1	3.184+1	1.909+2
500	-2.674+1	5.247	7.156	-4.044+1	3.198+1	1.862+2
510	-2.685+1	5.285	7.250	-3.951+1	3.213+1	1.818+2
520	-2.695+1	5.324	7.343	-3.862+1	3.227+1	1.777+2
530	-2.705+1	5.363	7.436	-3.775+1	3.241+1	1.736+2
540	-2.715+1	5.402	7.530	-3.692+1	3.255+1	1.698+2
550	-2.725+1	5.442	7.622	-3.611+1	3.269+1	1.660+2
560	-2.735+1	5.481	7.712	-3.533+1	3.283+1	1.624+2
570	-2.745+1	5.521	7.801	-3.457+1	3.297+1	1.589+2
580	-2.754+1	5.561	7.887	-3.384+1	3.310+1	1.555+2
590	-2.764+1	5.602	7.975	-3.312+1	3.324+1	1.522+2

SPECIE CH3OH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	-2.773+1	5.642	8.062	-3.243+1	3.337+1	1.490+2
610	-2.783+1	5.682	8.146	-3.176+1	3.351+1	1.459+2
620	-2.792+1	5.722	8.230	-3.112+1	3.364+1	1.430+2
630	-2.801+1	5.762	8.313	-3.050+1	3.377+1	1.401+2
640	-2.810+1	5.804	8.395	-2.989+1	3.390+1	1.374+2
650	-2.819+1	5.844	8.476	-2.930+1	3.404+1	1.347+2
660	-2.828+1	5.885	8.556	-2.873+1	3.417+1	1.321+2
670	-2.837+1	5.924	8.635	-2.817+1	3.429+1	1.295+2
680	-2.846+1	5.965	8.713	-2.763+1	3.442+1	1.271+2
690	-2.855+1	6.006	8.790	-2.710+1	3.455+1	1.247+2
700	-2.863+1	6.047	8.867	-2.658+1	3.468+1	1.223+2
710	-2.872+1	6.087	8.942	-2.608+1	3.480+1	1.201+2
720	-2.880+1	6.127	9.017	-2.560+1	3.493+1	1.179+2
730	-2.889+1	6.167	9.090	-2.512+1	3.505+1	1.158+2
740	-2.897+1	6.207	9.163	-2.466+1	3.518+1	1.137+2
750	-2.906+1	6.246	9.235	-2.421+1	3.530+1	1.117+2
760	-2.914+1	6.286	9.306	-2.377+1	3.543+1	1.097+2
770	-2.922+1	6.326	9.376	-2.334+1	3.555+1	1.078+2
780	-2.930+1	6.365	9.445	-2.292+1	3.567+1	1.059+2
790	-2.938+1	6.405	9.514	-2.251+1	3.579+1	1.041+2
800	-2.946+1	6.444	9.581	-2.211+1	3.591+1	1.023+2
810	-2.954+1	6.483	9.648	-2.172+1	3.603+1	1.006+2
820	-2.962+1	6.522	9.714	-2.133+1	3.615+1	9.887+1
830	-2.970+1	6.561	9.779	-2.096+1	3.627+1	9.722+1
840	-2.978+1	6.599	9.843	-2.059+1	3.638+1	9.561+1
850	-2.986+1	6.638	9.906	-2.024+1	3.650+1	9.404+1
860	-2.994+1	6.676	9.969	-1.988+1	3.661+1	9.250+1
870	-3.002+1	6.714	1.003+1	-1.954+1	3.673+1	9.100+1
880	-3.010+1	6.752	1.009+1	-1.920+1	3.685+1	8.953+1
890	-3.017+1	6.789	1.015+1	-1.888+1	3.696+1	8.809+1
900	-3.025+1	6.827	1.021+1	-1.855+1	3.707+1	8.668+1
910	-3.032+1	6.864	1.027+1	-1.824+1	3.719+1	8.531+1
920	-3.040+1	6.902	1.033+1	-1.792+1	3.730+1	8.396+1
930	-3.048+1	6.939	1.038+1	-1.762+1	3.741+1	8.265+1
940	-3.055+1	6.976	1.044+1	-1.732+1	3.752+1	8.136+1
950	-3.062+1	7.012	1.049+1	-1.703+1	3.763+1	8.009+1
960	-3.070+1	7.049	1.055+1	-1.674+1	3.774+1	7.886+1
970	-3.077+1	7.085	1.060+1	-1.646+1	3.785+1	7.765+1
980	-3.084+1	7.122	1.066+1	-1.618+1	3.796+1	7.647+1
990	-3.092+1	7.158	1.071+1	-1.591+1	3.807+1	7.531+1
1000	-3.099+1	7.194	1.076+1	-1.565+1	3.818+1	7.418+1

SPECIE CO
MOLECULAR WEIGHT EQUALS 28.01139
DELTA E ZERO EQUALS -27.202 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(NBS 500, 2/1/52) (10)

THERMAL

(J. S. GORDON WADC TR 57-33, 1/57) (4)

SPECIE CO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	3.500	-1.635+1	3.493	-1.334+2	1.984+1	9.866+2
110	3.500	-1.668+1	3.493	-1.230+2	2.018+1	9.108+2
120	3.500	-1.700+1	3.494	-1.135+2	2.049+1	8.422+2
130	3.500	-1.729+1	3.494	-1.049+2	2.078+1	7.801+2
140	3.500	-1.756+1	3.495	-9.721+1	2.106+1	7.240+2
150	3.500	-1.782+1	3.495	-9.026+1	2.131+1	6.736+2
160	3.500	-1.806+1	3.496	-8.401+1	2.155+1	6.282+2
170	3.500	-1.828+1	3.496	-7.842+1	2.178+1	5.876+2
180	3.500	-1.849+1	3.497	-7.341+1	2.199+1	5.513+2
190	3.500	-1.869+1	3.497	-6.894+1	2.219+1	5.188+2
200	3.500	-1.887+1	3.497	-6.495+1	2.237+1	4.898+2
210	3.501	-1.905+1	3.498	-6.139+1	2.255+1	4.640+2
220	3.501	-1.921+1	3.498	-5.822+1	2.271+1	4.410+2
230	3.501	-1.937+1	3.498	-5.540+1	2.287+1	4.205+2
240	3.502	-1.952+1	3.498	-5.287+1	2.302+1	4.021+2
250	3.501	-1.966+1	3.499	-5.061+1	2.316+1	3.857+2
260	3.503	-1.979+1	3.499	-4.858+1	2.329+1	3.710+2
270	3.503	-1.992+1	3.499	-4.675+1	2.342+1	3.576+2
280	3.504	-2.005+1	3.499	-4.508+1	2.354+1	3.455+2
290	3.504	-2.017+1	3.499	-4.355+1	2.366+1	3.344+2
300	3.505	-2.028+1	3.499	-4.213+1	2.378+1	3.241+2
310	3.506	-2.040+1	3.499	-4.062+1	2.390+1	3.131+2
320	3.508	-2.051+1	3.500	-3.922+1	2.401+1	3.029+2
330	3.510	-2.061+1	3.500	-3.791+1	2.411+1	2.934+2
340	3.511	-2.072+1	3.500	-3.668+1	2.422+1	2.845+2
350	3.513	-2.082+1	3.500	-3.553+1	2.432+1	2.761+2
360	3.516	-2.092+1	3.501	-3.446+1	2.442+1	2.683+2
370	3.519	-2.102+1	3.501	-3.344+1	2.452+1	2.609+2
380	3.522	-2.111+1	3.502	-3.248+1	2.461+1	2.539+2
390	3.525	-2.120+1	3.502	-3.158+1	2.470+1	2.474+2
400	3.529	-2.129+1	3.502	-3.072+1	2.479+1	2.411+2
410	3.533	-2.137+1	3.503	-2.990+1	2.488+1	2.352+2
420	3.538	-2.146+1	3.504	-2.912+1	2.496+1	2.295+2
430	3.542	-2.154+1	3.505	-2.838+1	2.504+1	2.241+2
440	3.547	-2.162+1	3.506	-2.766+1	2.513+1	2.189+2
450	3.553	-2.170+1	3.507	-2.697+1	2.521+1	2.139+2
460	3.558	-2.178+1	3.508	-2.631+1	2.528+1	2.091+2
470	3.564	-2.185+1	3.509	-2.567+1	2.536+1	2.044+2
480	3.570	-2.193+1	3.510	-2.505+1	2.544+1	1.999+2
490	3.577	-2.200+1	3.511	-2.445+1	2.551+1	1.955+2
500	3.583	-2.207+1	3.513	-2.386+1	2.558+1	1.913+2
510	3.590	-2.214+1	3.514	-2.333+1	2.565+1	1.874+2
520	3.597	-2.221+1	3.516	-2.282+1	2.572+1	1.837+2
530	3.605	-2.228+1	3.517	-2.232+1	2.579+1	1.801+2
540	3.612	-2.234+1	3.519	-2.184+1	2.586+1	1.766+2
550	3.620	-2.241+1	3.521	-2.138+1	2.593+1	1.733+2
560	3.628	-2.247+1	3.523	-2.093+1	2.599+1	1.701+2
570	3.636	-2.253+1	3.525	-2.050+1	2.606+1	1.669+2
580	3.644	-2.259+1	3.527	-2.008+1	2.612+1	1.639+2
590	3.653	-2.265+1	3.529	-1.968+1	2.618+1	1.609+2

SPECIE CO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	3.661	-2.271+1	3.531	-1.928+1	2.624+1	1.581+2
610	3.670	-2.277+1	3.533	-1.891+1	2.630+1	1.554+2
620	3.678	-2.283+1	3.535	-1.855+1	2.636+1	1.527+2
630	3.687	-2.288+1	3.538	-1.819+1	2.642+1	1.502+2
640	3.696	-2.294+1	3.540	-1.785+1	2.648+1	1.477+2
650	3.705	-2.300+1	3.542	-1.752+1	2.654+1	1.453+2
660	3.713	-2.305+1	3.545	-1.720+1	2.659+1	1.430+2
670	3.722	-2.310+1	3.548	-1.689+1	2.665+1	1.407+2
680	3.731	-2.316+1	3.550	-1.658+1	2.671+1	1.386+2
690	3.740	-2.321+1	3.553	-1.629+1	2.676+1	1.364+2
700	3.749	-2.326+1	3.556	-1.600+1	2.681+1	1.343+2
710	3.758	-2.331+1	3.558	-1.572+1	2.687+1	1.323+2
720	3.766	-2.336+1	3.561	-1.545+1	2.692+1	1.304+2
730	3.775	-2.341+1	3.564	-1.519+1	2.697+1	1.285+2
740	3.784	-2.346+1	3.567	-1.493+1	2.702+1	1.266+2
750	3.793	-2.350+1	3.570	-1.468+1	2.707+1	1.248+2
760	3.801	-2.355+1	3.573	-1.444+1	2.712+1	1.231+2
770	3.810	-2.360+1	3.576	-1.420+1	2.717+1	1.214+2
780	3.819	-2.364+1	3.579	-1.397+1	2.722+1	1.197+2
790	3.828	-2.369+1	3.582	-1.375+1	2.727+1	1.181+2
800	3.836	-2.373+1	3.585	-1.353+1	2.732+1	1.165+2
810	3.845	-2.378+1	3.588	-1.331+1	2.737+1	1.150+2
820	3.853	-2.382+1	3.592	-1.310+1	2.742+1	1.135+2
830	3.862	-2.387+1	3.595	-1.290+1	2.746+1	1.120+2
840	3.870	-2.391+1	3.598	-1.270+1	2.751+1	1.106+2
850	3.878	-2.395+1	3.601	-1.250+1	2.755+1	1.092+2
860	3.886	-2.400+1	3.605	-1.231+1	2.760+1	1.078+2
870	3.894	-2.404+1	3.608	-1.213+1	2.764+1	1.065+2
880	3.902	-2.408+1	3.611	-1.194+1	2.769+1	1.052+2
890	3.910	-2.412+1	3.615	-1.177+1	2.773+1	1.039+2
900	3.918	-2.416+1	3.618	-1.159+1	2.778+1	1.026+2
910	3.926	-2.420+1	3.621	-1.142+1	2.782+1	1.014+2
920	3.933	-2.424+1	3.625	-1.125+1	2.786+1	1.002+2
930	3.941	-2.428+1	3.628	-1.109+1	2.791+1	9.905+1
940	3.948	-2.432+1	3.631	-1.093+1	2.795+1	9.791+1
950	3.956	-2.436+1	3.635	-1.077+1	2.799+1	9.679+1
960	3.963	-2.439+1	3.638	-1.062+1	2.803+1	9.570+1
970	3.970	-2.443+1	3.641	-1.047+1	2.807+1	9.462+1
980	3.977	-2.447+1	3.645	-1.032+1	2.811+1	9.357+1
990	3.984	-2.451+1	3.648	-1.018+1	2.815+1	9.254+1
1000	3.991	-2.454+1	3.652	-1.004+1	2.819+1	9.153+1
1010	3.998	-2.458+1	3.655	-9.898	2.823+1	9.053+1
1020	4.004	-2.461+1	3.658	-9.762	2.827+1	8.957+1
1030	4.011	-2.465+1	3.662	-9.628	2.831+1	8.861+1
1040	4.017	-2.469+1	3.665	-9.497	2.835+1	8.768+1
1050	4.024	-2.472+1	3.668	-9.369	2.839+1	8.677+1
1060	4.030	-2.476+1	3.672	-9.242	2.843+1	8.587+1
1070	4.036	-2.479+1	3.675	-9.118	2.847+1	8.498+1
1080	4.042	-2.482+1	3.678	-8.996	2.850+1	8.412+1
1090	4.048	-2.486+1	3.682	-8.877	2.854+1	8.327+1

SPECIE CO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	4.054	-2.489+1	3.685	-8.759	2.858+1	8.243+1
1110	4.060	-2.493+1	3.689	-8.643	2.861+1	8.161+1
1120	4.066	-2.496+1	3.692	-8.530	2.865+1	8.081+1
1130	4.072	-2.499+1	3.695	-8.419	2.869+1	8.002+1
1140	4.078	-2.502+1	3.698	-8.309	2.872+1	7.924+1
1150	4.083	-2.506+1	3.702	-8.201	2.876+1	7.848+1
1160	4.089	-2.509+1	3.705	-8.095	2.879+1	7.773+1
1170	4.094	-2.512+1	3.708	-7.991	2.883+1	7.699+1
1180	4.100	-2.515+1	3.712	-7.889	2.886+1	7.626+1
1190	4.105	-2.518+1	3.715	-7.788	2.890+1	7.555+1
1200	4.110	-2.521+1	3.718	-7.689	2.893+1	7.485+1
1210	4.115	-2.525+1	3.722	-7.591	2.897+1	7.416+1
1220	4.120	-2.528+1	3.725	-7.495	2.900+1	7.348+1
1230	4.125	-2.531+1	3.728	-7.401	2.903+1	7.281+1
1240	4.130	-2.534+1	3.731	-7.308	2.907+1	7.216+1
1250	4.135	-2.537+1	3.735	-7.216	2.910+1	7.151+1
1260	4.140	-2.540+1	3.738	-7.126	2.913+1	7.088+1
1270	4.144	-2.543+1	3.741	-7.038	2.917+1	7.025+1
1280	4.149	-2.546+1	3.744	-6.950	2.920+1	6.963+1
1290	4.154	-2.548+1	3.747	-6.864	2.923+1	6.903+1
1300	4.158	-2.551+1	3.750	-6.779	2.926+1	6.843+1
1310	4.162	-2.554+1	3.754	-6.696	2.930+1	6.784+1
1320	4.167	-2.557+1	3.757	-6.613	2.933+1	6.726+1
1330	4.171	-2.560+1	3.760	-6.532	2.936+1	6.669+1
1340	4.175	-2.563+1	3.763	-6.453	2.939+1	6.613+1
1350	4.180	-2.565+1	3.766	-6.374	2.942+1	6.557+1
1360	4.184	-2.568+1	3.769	-6.296	2.945+1	6.503+1
1370	4.188	-2.571+1	3.772	-6.220	2.948+1	6.449+1
1380	4.192	-2.574+1	3.775	-6.144	2.951+1	6.396+1
1390	4.196	-2.576+1	3.778	-6.070	2.954+1	6.344+1
1400	4.200	-2.579+1	3.781	-5.996	2.957+1	6.292+1
1410	4.204	-2.582+1	3.784	-5.924	2.960+1	6.242+1
1420	4.207	-2.585+1	3.787	-5.853	2.963+1	6.192+1
1430	4.211	-2.587+1	3.790	-5.782	2.966+1	6.142+1
1440	4.215	-2.590+1	3.793	-5.713	2.969+1	6.094+1
1450	4.218	-2.592+1	3.796	-5.645	2.972+1	6.046+1
1460	4.222	-2.595+1	3.799	-5.577	2.975+1	5.998+1
1470	4.225	-2.598+1	3.802	-5.510	2.978+1	5.952+1
1480	4.229	-2.600+1	3.804	-5.445	2.981+1	5.905+1
1490	4.232	-2.603+1	3.807	-5.380	2.984+1	5.860+1
1500	4.235	-2.605+1	3.810	-5.316	2.986+1	5.815+1
1510	4.239	-2.608+1	3.813	-5.252	2.989+1	5.771+1
1520	4.242	-2.610+1	3.816	-5.190	2.992+1	5.727+1
1530	4.245	-2.613+1	3.819	-5.128	2.995+1	5.684+1
1540	4.249	-2.615+1	3.821	-5.067	2.998+1	5.641+1
1550	4.252	-2.618+1	3.824	-5.007	3.000+1	5.599+1
1560	4.255	-2.620+1	3.827	-4.948	3.003+1	5.558+1
1570	4.258	-2.623+1	3.830	-4.889	3.006+1	5.517+1
1580	4.261	-2.625+1	3.832	-4.831	3.008+1	5.477+1
1590	4.264	-2.628+1	3.835	-4.774	3.011+1	5.437+1

SPECIE CO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	4.267	-2.630+1	3.838	-4.718	3.014+1	5.397+1
1610	4.270	-2.632+1	3.840	-4.662	3.016+1	5.358+1
1620	4.273	-2.635+1	3.843	-4.607	3.019+1	5.320+1
1630	4.276	-2.637+1	3.846	-4.552	3.022+1	5.282+1
1640	4.279	-2.640+1	3.848	-4.498	3.024+1	5.244+1
1650	4.281	-2.642+1	3.851	-4.445	3.027+1	5.207+1
1660	4.284	-2.644+1	3.853	-4.393	3.030+1	5.171+1
1670	4.287	-2.647+1	3.856	-4.341	3.032+1	5.134+1
1680	4.290	-2.649+1	3.859	-4.289	3.035+1	5.099+1
1690	4.292	-2.651+1	3.861	-4.239	3.037+1	5.063+1
1700	4.295	-2.653+1	3.864	-4.188	3.040+1	5.028+1
1710	4.297	-2.656+1	3.866	-4.139	3.042+1	4.994+1
1720	4.300	-2.658+1	3.869	-4.090	3.045+1	4.960+1
1730	4.302	-2.660+1	3.871	-4.041	3.047+1	4.926+1
1740	4.305	-2.662+1	3.874	-3.993	3.050+1	4.893+1
1750	4.307	-2.665+1	3.876	-3.946	3.052+1	4.860+1
1760	4.310	-2.667+1	3.879	-3.899	3.055+1	4.827+1
1770	4.312	-2.669+1	3.881	-3.853	3.057+1	4.795+1
1780	4.314	-2.671+1	3.884	-3.807	3.060+1	4.763+1
1790	4.317	-2.673+1	3.886	-3.761	3.062+1	4.731+1
1800	4.319	-2.676+1	3.888	-3.716	3.064+1	4.700+1
1810	4.321	-2.678+1	3.891	-3.672	3.067+1	4.669+1
1820	4.324	-2.680+1	3.893	-3.628	3.069+1	4.639+1
1830	4.326	-2.682+1	3.896	-3.585	3.072+1	4.609+1
1840	4.328	-2.684+1	3.898	-3.542	3.074+1	4.579+1
1850	4.330	-2.686+1	3.900	-3.499	3.076+1	4.549+1
1860	4.332	-2.688+1	3.902	-3.457	3.079+1	4.520+1
1870	4.334	-2.690+1	3.905	-3.415	3.081+1	4.491+1
1880	4.337	-2.693+1	3.907	-3.374	3.083+1	4.463+1
1890	4.339	-2.695+1	3.909	-3.333	3.086+1	4.435+1
1900	4.341	-2.697+1	3.912	-3.293	3.088+1	4.407+1
1910	4.343	-2.699+1	3.914	-3.253	3.090+1	4.379+1
1920	4.345	-2.701+1	3.916	-3.213	3.092+1	4.352+1
1930	4.347	-2.703+1	3.918	-3.174	3.095+1	4.324+1
1940	4.349	-2.705+1	3.921	-3.135	3.097+1	4.298+1
1950	4.351	-2.707+1	3.923	-3.097	3.099+1	4.271+1
1960	4.352	-2.709+1	3.925	-3.059	3.101+1	4.245+1
1970	4.354	-2.711+1	3.927	-3.021	3.104+1	4.219+1
1980	4.356	-2.713+1	3.929	-2.984	3.106+1	4.193+1
1990	4.358	-2.715+1	3.931	-2.947	3.108+1	4.168+1
2000	4.360	-2.717+1	3.934	-2.911	3.110+1	4.142+1
2010	4.362	-2.719+1	3.936	-2.875	3.112+1	4.117+1
2020	4.363	-2.721+1	3.938	-2.839	3.114+1	4.092+1
2030	4.365	-2.723+1	3.940	-2.803	3.117+1	4.068+1
2040	4.367	-2.725+1	3.942	-2.768	3.119+1	4.044+1
2050	4.369	-2.727+1	3.944	-2.733	3.121+1	4.020+1
2060	4.370	-2.728+1	3.946	-2.699	3.123+1	3.996+1
2070	4.372	-2.730+1	3.948	-2.665	3.125+1	3.972+1
2080	4.374	-2.732+1	3.950	-2.631	3.127+1	3.949+1
2090	4.375	-2.734+1	3.952	-2.597	3.129+1	3.926+1

TEMP	CP/R	SPECIE CO					LN K
		(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R		
2100	4.377	-2.736+1	3.954	-2.564	3.131+1	3.903+1	
2110	4.378	-2.738+1	3.956	-2.531	3.134+1	3.880+1	
2120	4.380	-2.740+1	3.958	-2.499	3.136+1	3.858+1	
2130	4.382	-2.742+1	3.960	-2.466	3.138+1	3.836+1	
2140	4.383	-2.743+1	3.962	-2.434	3.140+1	3.813+1	
2150	4.385	-2.745+1	3.964	-2.402	3.142+1	3.792+1	
2160	4.386	-2.747+1	3.966	-2.371	3.144+1	3.770+1	
2170	4.388	-2.749+1	3.968	-2.340	3.146+1	3.749+1	
2180	4.389	-2.751+1	3.970	-2.309	3.148+1	3.727+1	
2190	4.391	-2.753+1	3.972	-2.279	3.150+1	3.706+1	
2200	4.392	-2.754+1	3.974	-2.248	3.152+1	3.685+1	
2210	4.393	-2.756+1	3.976	-2.218	3.154+1	3.665+1	
2220	4.395	-2.758+1	3.978	-2.188	3.156+1	3.644+1	
2230	4.396	-2.760+1	3.980	-2.159	3.158+1	3.624+1	
2240	4.398	-2.762+1	3.981	-2.130	3.160+1	3.604+1	
2250	4.399	-2.763+1	3.983	-2.101	3.162+1	3.584+1	
2260	4.401	-2.765+1	3.985	-2.072	3.164+1	3.564+1	
2270	4.402	-2.767+1	3.987	-2.043	3.166+1	3.544+1	
2280	4.403	-2.769+1	3.989	-2.015	3.168+1	3.525+1	
2290	4.405	-2.770+1	3.991	-1.987	3.169+1	3.506+1	
2300	4.406	-2.772+1	3.992	-1.959	3.171+1	3.487+1	
2310	4.407	-2.774+1	3.994	-1.932	3.173+1	3.468+1	
2320	4.409	-2.776+1	3.996	-1.904	3.175+1	3.449+1	
2330	4.410	-2.777+1	3.998	-1.877	3.177+1	3.430+1	
2340	4.411	-2.779+1	3.999	-1.850	3.179+1	3.412+1	
2350	4.413	-2.781+1	4.001	-1.824	3.181+1	3.393+1	
2360	4.414	-2.782+1	4.003	-1.797	3.183+1	3.375+1	
2370	4.415	-2.784+1	4.005	-1.771	3.185+1	3.357+1	
2380	4.416	-2.786+1	4.006	-1.745	3.186+1	3.339+1	
2390	4.417	-2.788+1	4.008	-1.719	3.188+1	3.322+1	
2400	4.419	-2.789+1	4.010	-1.694	3.190+1	3.304+1	
2410	4.420	-2.791+1	4.012	-1.668	3.192+1	3.287+1	
2420	4.421	-2.793+1	4.013	-1.643	3.194+1	3.270+1	
2430	4.422	-2.794+1	4.015	-1.618	3.196+1	3.252+1	
2440	4.423	-2.796+1	4.017	-1.593	3.197+1	3.235+1	
2450	4.425	-2.797+1	4.018	-1.569	3.199+1	3.219+1	
2460	4.426	-2.799+1	4.020	-1.545	3.201+1	3.202+1	
2470	4.427	-2.801+1	4.022	-1.520	3.203+1	3.185+1	
2480	4.428	-2.802+1	4.023	-1.496	3.205+1	3.169+1	
2490	4.429	-2.804+1	4.025	-1.473	3.206+1	3.153+1	
2500	4.430	-2.806+1	4.026	-1.449	3.208+1	3.136+1	
2510	4.431	-2.807+1	4.028	-1.426	3.210+1	3.120+1	
2520	4.432	-2.809+1	4.030	-1.402	3.212+1	3.104+1	
2530	4.433	-2.810+1	4.031	-1.379	3.214+1	3.089+1	
2540	4.435	-2.812+1	4.033	-1.356	3.215+1	3.073+1	
2550	4.436	-2.814+1	4.034	-1.334	3.217+1	3.057+1	
2560	4.437	-2.815+1	4.036	-1.311	3.219+1	3.042+1	
2570	4.438	-2.817+1	4.037	-1.289	3.220+1	3.027+1	
2580	4.439	-2.818+1	4.039	-1.267	3.222+1	3.011+1	
2590	4.440	-2.820+1	4.041	-1.245	3.224+1	2.996+1	

SPECIE CO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	4.441	-2.821+1	4.042	-1.223	3.226+1	2.981+1
2610	4.442	-2.823+1	4.044	-1.201	3.227+1	2.967+1
2620	4.443	-2.825+1	4.045	-1.180	3.229+1	2.952+1
2630	4.444	-2.826+1	4.047	-1.158	3.231+1	2.937+1
2640	4.445	-2.828+1	4.048	-1.137	3.232+1	2.923+1
2650	4.446	-2.829+1	4.050	-1.116	3.234+1	2.908+1
2660	4.447	-2.831+1	4.051	-1.095	3.236+1	2.894+1
2670	4.448	-2.832+1	4.053	-1.074	3.237+1	2.880+1
2680	4.449	-2.834+1	4.054	-1.053	3.239+1	2.866+1
2690	4.449	-2.835+1	4.056	-1.033	3.241+1	2.852+1
2700	4.450	-2.837+1	4.057	-1.013	3.242+1	2.838+1
2710	4.451	-2.838+1	4.059	-9.926-1	3.244+1	2.824+1
2720	4.452	-2.840+1	4.060	-9.726-1	3.246+1	2.810+1
2730	4.453	-2.841+1	4.061	-9.527-1	3.247+1	2.797+1
2740	4.454	-2.843+1	4.063	-9.330-1	3.249+1	2.783+1
2750	4.455	-2.844+1	4.064	-9.134-1	3.251+1	2.770+1
2760	4.456	-2.846+1	4.066	-8.939-1	3.252+1	2.757+1
2770	4.457	-2.847+1	4.067	-8.746-1	3.254+1	2.743+1
2780	4.458	-2.849+1	4.069	-8.555-1	3.255+1	2.730+1
2790	4.459	-2.850+1	4.070	-8.364-1	3.257+1	2.717+1
2800	4.460	-2.851+1	4.071	-8.175-1	3.259+1	2.704+1
2810	4.461	-2.853+1	4.073	-7.987-1	3.260+1	2.692+1
2820	4.462	-2.854+1	4.074	-7.801-1	3.262+1	2.679+1
2830	4.462	-2.856+1	4.075	-7.616-1	3.263+1	2.666+1
2840	4.463	-2.857+1	4.077	-7.432-1	3.265+1	2.654+1
2850	4.464	-2.859+1	4.078	-7.249-1	3.267+1	2.641+1
2860	4.465	-2.860+1	4.079	-7.068-1	3.268+1	2.629+1
2870	4.466	-2.862+1	4.081	-6.887-1	3.270+1	2.617+1
2880	4.466	-2.863+1	4.082	-6.708-1	3.271+1	2.604+1
2890	4.467	-2.864+1	4.083	-6.531-1	3.273+1	2.592+1
2900	4.468	-2.866+1	4.085	-6.354-1	3.274+1	2.580+1
2910	4.469	-2.867+1	4.086	-6.179-1	3.276+1	2.568+1
2920	4.470	-2.869+1	4.087	-6.004-1	3.277+1	2.556+1
2930	4.470	-2.870+1	4.089	-5.831-1	3.279+1	2.545+1
2940	4.471	-2.871+1	4.090	-5.659-1	3.280+1	2.533+1
2950	4.472	-2.873+1	4.091	-5.488-1	3.282+1	2.521+1
2960	4.473	-2.874+1	4.093	-5.319-1	3.283+1	2.510+1
2970	4.474	-2.876+1	4.094	-5.150-1	3.285+1	2.498+1
2980	4.474	-2.877+1	4.095	-4.983-1	3.286+1	2.487+1
2990	4.475	-2.878+1	4.096	-4.816-1	3.288+1	2.475+1
3000	4.476	-2.880+1	4.098	-4.651-1	3.289+1	2.464+1
3010	4.477	-2.881+1	4.099	-4.487-1	3.291+1	2.453+1
3020	4.478	-2.882+1	4.100	-4.324-1	3.292+1	2.442+1
3030	4.478	-2.884+1	4.102	-4.162-1	3.294+1	2.431+1
3040	4.479	-2.885+1	4.103	-4.001-1	3.295+1	2.420+1
3050	4.480	-2.886+1	4.104	-3.842-1	3.297+1	2.409+1
3060	4.481	-2.888+1	4.105	-3.683-1	3.298+1	2.398+1
3070	4.481	-2.889+1	4.106	-3.525-1	3.300+1	2.387+1
3080	4.482	-2.890+1	4.108	-3.368-1	3.301+1	2.377+1
3090	4.483	-2.892+1	4.109	-3.213-1	3.303+1	2.366+1

SPECIE CO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	4.484	-2.893+1	4.110	-3.058-1	3.304+1	2.356+1
3110	4.484	-2.894+1	4.111	-2.904-1	3.306+1	2.345+1
3120	4.485	-2.896+1	4.112	-2.751-1	3.307+1	2.335+1
3130	4.486	-2.897+1	4.113	-2.599-1	3.308+1	2.324+1
3140	4.486	-2.898+1	4.115	-2.448-1	3.310+1	2.314+1
3150	4.487	-2.900+1	4.116	-2.297-1	3.311+1	2.304+1
3160	4.488	-2.901+1	4.117	-2.148-1	3.313+1	2.294+1
3170	4.489	-2.902+1	4.118	-2.000-1	3.314+1	2.284+1
3180	4.489	-2.904+1	4.119	-1.852-1	3.316+1	2.274+1
3190	4.490	-2.905+1	4.121	-1.705-1	3.317+1	2.264+1
3200	4.491	-2.906+1	4.122	-1.560-1	3.318+1	2.254+1
3210	4.491	-2.907+1	4.123	-1.415-1	3.320+1	2.244+1
3220	4.492	-2.909+1	4.124	-1.271-1	3.321+1	2.234+1
3230	4.493	-2.910+1	4.125	-1.128-1	3.323+1	2.224+1
3240	4.493	-2.911+1	4.126	-9.859-2	3.324+1	2.215+1
3250	4.494	-2.913+1	4.127	-8.446-2	3.325+1	2.205+1
3260	4.495	-2.914+1	4.129	-7.042-2	3.327+1	2.196+1
3270	4.495	-2.915+1	4.130	-5.646-2	3.328+1	2.186+1
3280	4.496	-2.916+1	4.131	-4.259-2	3.329+1	2.177+1
3290	4.496	-2.918+1	4.132	-2.880-2	3.331+1	2.167+1
3300	4.497	-2.919+1	4.133	-1.508-2	3.332+1	2.158+1
3310	4.498	-2.920+1	4.134	-1.437-3	3.334+1	2.149+1
3320	4.498	-2.921+1	4.135	1.213-2	3.335+1	2.140+1
3330	4.499	-2.923+1	4.136	2.560-2	3.336+1	2.130+1
3340	4.500	-2.924+1	4.137	3.901-2	3.338+1	2.121+1
3350	4.500	-2.925+1	4.138	5.233-2	3.339+1	2.112+1
3360	4.501	-2.926+1	4.140	6.558-2	3.340+1	2.103+1
3370	4.501	-2.928+1	4.141	7.876-2	3.342+1	2.094+1
3380	4.502	-2.929+1	4.142	9.186-2	3.343+1	2.085+1
3390	4.503	-2.930+1	4.143	1.049-1	3.344+1	2.077+1
3400	4.503	-2.931+1	4.144	1.178-1	3.346+1	2.068+1
3410	4.504	-2.932+1	4.145	1.307-1	3.347+1	2.059+1
3420	4.504	-2.934+1	4.146	1.435-1	3.348+1	2.050+1
3430	4.505	-2.935+1	4.147	1.562-1	3.350+1	2.042+1
3440	4.506	-2.936+1	4.148	1.688-1	3.351+1	2.033+1
3450	4.506	-2.937+1	4.149	1.814-1	3.352+1	2.025+1
3460	4.507	-2.939+1	4.150	1.939-1	3.354+1	2.016+1
3470	4.507	-2.940+1	4.151	2.063-1	3.355+1	2.008+1
3480	4.508	-2.941+1	4.152	2.186-1	3.356+1	1.999+1
3490	4.509	-2.942+1	4.153	2.309-1	3.357+1	1.991+1
3500	4.509	-2.943+1	4.154	2.431-1	3.359+1	1.983+1
3510	4.510	-2.944+1	4.155	2.553-1	3.360+1	1.975+1
3520	4.510	-2.946+1	4.156	2.674-1	3.361+1	1.966+1
3530	4.511	-2.947+1	4.157	2.794-1	3.363+1	1.958+1
3540	4.512	-2.948+1	4.158	2.914-1	3.364+1	1.950+1
3550	4.512	-2.949+1	4.159	3.033-1	3.365+1	1.942+1
3560	4.513	-2.950+1	4.160	3.151-1	3.366+1	1.934+1
3570	4.513	-2.952+1	4.161	3.268-1	3.368+1	1.926+1
3580	4.514	-2.953+1	4.162	3.385-1	3.369+1	1.918+1
3590	4.515	-2.954+1	4.163	3.502-1	3.370+1	1.910+1

SPECIE CO

TEMP	CP/R	(F-EI)/RT	(H-EI)/RT	DELTA H/RT	S/R	LN K
3600	4.515	-2.955+1	4.164	3.618-1	3.371+1	1.902+1
3610	4.516	-2.956+1	4.165	3.733-1	3.373+1	1.895+1
3620	4.516	-2.957+1	4.166	3.847-1	3.374+1	1.887+1
3630	4.517	-2.958+1	4.167	3.961-1	3.375+1	1.879+1
3640	4.518	-2.960+1	4.168	4.074-1	3.376+1	1.872+1
3650	4.518	-2.961+1	4.169	4.187-1	3.378+1	1.864+1
3660	4.519	-2.962+1	4.170	4.299-1	3.379+1	1.856+1
3670	4.519	-2.963+1	4.171	4.410-1	3.380+1	1.849+1
3680	4.520	-2.964+1	4.172	4.521-1	3.381+1	1.841+1
3690	4.520	-2.965+1	4.173	4.632-1	3.383+1	1.834+1
3700	4.521	-2.966+1	4.174	4.741-1	3.384+1	1.826+1
3710	4.521	-2.968+1	4.175	4.850-1	3.385+1	1.819+1
3720	4.522	-2.969+1	4.176	4.959-1	3.386+1	1.812+1
3730	4.522	-2.970+1	4.177	5.066-1	3.387+1	1.804+1
3740	4.523	-2.971+1	4.177	5.174-1	3.389+1	1.797+1
3750	4.523	-2.972+1	4.178	5.280-1	3.390+1	1.790+1
3760	4.524	-2.973+1	4.179	5.386-1	3.391+1	1.783+1
3770	4.524	-2.974+1	4.180	5.492-1	3.392+1	1.776+1
3780	4.525	-2.975+1	4.181	5.597-1	3.393+1	1.768+1
3790	4.525	-2.976+1	4.182	5.702-1	3.395+1	1.761+1
3800	4.526	-2.978+1	4.183	5.806-1	3.396+1	1.754+1
3810	4.526	-2.979+1	4.184	5.909-1	3.397+1	1.747+1
3820	4.527	-2.980+1	4.185	6.012-1	3.398+1	1.740+1
3830	4.527	-2.981+1	4.186	6.115-1	3.399+1	1.733+1
3840	4.528	-2.982+1	4.186	6.217-1	3.401+1	1.726+1
3850	4.528	-2.983+1	4.187	6.318-1	3.402+1	1.720+1
3860	4.529	-2.984+1	4.188	6.419-1	3.403+1	1.713+1
3870	4.529	-2.985+1	4.189	6.520-1	3.404+1	1.706+1
3880	4.530	-2.986+1	4.190	6.619-1	3.405+1	1.699+1
3890	4.530	-2.987+1	4.191	6.719-1	3.406+1	1.693+1
3900	4.531	-2.988+1	4.192	6.818-1	3.408+1	1.686+1
3910	4.531	-2.990+1	4.193	6.916-1	3.409+1	1.679+1
3920	4.532	-2.991+1	4.193	7.014-1	3.410+1	1.673+1
3930	4.532	-2.992+1	4.194	7.112-1	3.411+1	1.666+1
3940	4.533	-2.993+1	4.195	7.209-1	3.412+1	1.659+1
3950	4.533	-2.994+1	4.196	7.305-1	3.413+1	1.653+1
3960	4.534	-2.995+1	4.197	7.401-1	3.415+1	1.646+1
3970	4.534	-2.996+1	4.198	7.497-1	3.416+1	1.640+1
3980	4.535	-2.997+1	4.199	7.592-1	3.417+1	1.634+1
3990	4.535	-2.998+1	4.199	7.687-1	3.418+1	1.627+1
4000	4.536	-2.999+1	4.200	7.781-1	3.419+1	1.621+1
4010	4.536	-3.000+1	4.201	7.875-1	3.420+1	1.614+1
4020	4.537	-3.001+1	4.202	7.968-1	3.421+1	1.608+1
4030	4.537	-3.002+1	4.203	8.061-1	3.422+1	1.602+1
4040	4.538	-3.003+1	4.204	8.154-1	3.424+1	1.596+1
4050	4.538	-3.004+1	4.204	8.246-1	3.425+1	1.589+1
4060	4.539	-3.005+1	4.205	8.337-1	3.426+1	1.583+1
4070	4.539	-3.006+1	4.206	8.428-1	3.427+1	1.577+1
4080	4.540	-3.007+1	4.207	8.519-1	3.428+1	1.571+1
4090	4.540	-3.008+1	4.208	8.610-1	3.429+1	1.565+1

SPECIE CO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	4.541	-3.009+1	4.209	8.699-1	3.430+1	1.553+1
4110	4.541	-3.010+1	4.209	8.789-1	3.431+1	1.553+1
4120	4.542	-3.012+1	4.210	8.878-1	3.433+1	1.547+1
4130	4.542	-3.013+1	4.211	8.966-1	3.434+1	1.541+1
4140	4.543	-3.014+1	4.212	9.054-1	3.435+1	1.535+1
4150	4.543	-3.015+1	4.213	9.142-1	3.436+1	1.529+1
4160	4.544	-3.016+1	4.213	9.229-1	3.437+1	1.523+1
4170	4.544	-3.017+1	4.214	9.316-1	3.438+1	1.517+1
4180	4.545	-3.018+1	4.215	9.403-1	3.439+1	1.511+1
4190	4.545	-3.019+1	4.216	9.489-1	3.440+1	1.506+1
4200	4.545	-3.020+1	4.217	9.574-1	3.441+1	1.500+1
4210	4.546	-3.021+1	4.217	9.659-1	3.442+1	1.494+1
4220	4.546	-3.022+1	4.218	9.744-1	3.443+1	1.488+1
4230	4.547	-3.023+1	4.219	9.829-1	3.445+1	1.483+1
4240	4.547	-3.024+1	4.220	9.913-1	3.446+1	1.477+1
4250	4.548	-3.025+1	4.221	9.997-1	3.447+1	1.471+1
4260	4.548	-3.026+1	4.221	1.008	3.448+1	1.466+1
4270	4.549	-3.027+1	4.222	1.016	3.449+1	1.460+1
4280	4.549	-3.028+1	4.223	1.025	3.450+1	1.455+1
4290	4.550	-3.029+1	4.224	1.033	3.451+1	1.449+1
4300	4.550	-3.030+1	4.224	1.041	3.452+1	1.443+1
4310	4.550	-3.030+1	4.225	1.049	3.453+1	1.438+1
4320	4.551	-3.031+1	4.226	1.057	3.454+1	1.432+1
4330	4.551	-3.032+1	4.227	1.065	3.455+1	1.427+1
4340	4.552	-3.033+1	4.227	1.073	3.456+1	1.422+1
4350	4.552	-3.034+1	4.228	1.081	3.457+1	1.416+1
4360	4.553	-3.035+1	4.229	1.089	3.458+1	1.411+1
4370	4.553	-3.036+1	4.230	1.097	3.459+1	1.406+1
4380	4.554	-3.037+1	4.230	1.105	3.460+1	1.400+1
4390	4.554	-3.038+1	4.231	1.113	3.461+1	1.395+1
4400	4.555	-3.039+1	4.232	1.121	3.462+1	1.390+1
4410	4.555	-3.040+1	4.232	1.128	3.463+1	1.384+1
4420	4.555	-3.041+1	4.233	1.136	3.464+1	1.379+1
4430	4.556	-3.042+1	4.234	1.144	3.466+1	1.374+1
4440	4.556	-3.043+1	4.235	1.152	3.467+1	1.369+1
4450	4.557	-3.044+1	4.235	1.159	3.468+1	1.364+1
4460	4.557	-3.045+1	4.236	1.167	3.469+1	1.358+1
4470	4.557	-3.046+1	4.237	1.174	3.470+1	1.353+1
4480	4.558	-3.047+1	4.238	1.182	3.471+1	1.348+1
4490	4.558	-3.048+1	4.238	1.190	3.472+1	1.343+1
4500	4.559	-3.049+1	4.239	1.197	3.473+1	1.338+1
4510	4.559	-3.050+1	4.240	1.205	3.474+1	1.333+1
4520	4.559	-3.051+1	4.240	1.212	3.475+1	1.328+1
4530	4.560	-3.052+1	4.241	1.219	3.476+1	1.323+1
4540	4.560	-3.053+1	4.242	1.227	3.477+1	1.318+1
4550	4.561	-3.053+1	4.243	1.234	3.478+1	1.313+1
4560	4.561	-3.054+1	4.243	1.241	3.479+1	1.308+1
4570	4.562	-3.055+1	4.244	1.249	3.480+1	1.303+1
4580	4.562	-3.056+1	4.245	1.256	3.481+1	1.299+1
4590	4.563	-3.057+1	4.245	1.263	3.482+1	1.294+1

SPECIE CO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	4.563	-3.058+1	4.246	1.270	3.483+1	1.289+1
4610	4.563	-3.059+1	4.247	1.277	3.484+1	1.284+1
4620	4.564	-3.060+1	4.247	1.284	3.485+1	1.279+1
4630	4.564	-3.061+1	4.248	1.291	3.486+1	1.275+1
4640	4.565	-3.062+1	4.249	1.299	3.487+1	1.270+1
4650	4.565	-3.063+1	4.249	1.306	3.488+1	1.265+1
4660	4.566	-3.064+1	4.250	1.313	3.489+1	1.260+1
4670	4.566	-3.065+1	4.251	1.320	3.490+1	1.256+1
4680	4.566	-3.065+1	4.251	1.326	3.491+1	1.251+1
4690	4.567	-3.066+1	4.252	1.333	3.492+1	1.246+1
4700	4.567	-3.067+1	4.253	1.340	3.492+1	1.242+1
4710	4.567	-3.068+1	4.253	1.347	3.493+1	1.237+1
4720	4.568	-3.069+1	4.254	1.354	3.494+1	1.233+1
4730	4.568	-3.070+1	4.255	1.361	3.495+1	1.228+1
4740	4.569	-3.071+1	4.255	1.367	3.496+1	1.223+1
4750	4.569	-3.072+1	4.256	1.374	3.497+1	1.219+1
4760	4.569	-3.073+1	4.257	1.381	3.498+1	1.214+1
4770	4.570	-3.073+1	4.257	1.388	3.499+1	1.210+1
4780	4.570	-3.074+1	4.258	1.394	3.500+1	1.205+1
4790	4.571	-3.075+1	4.259	1.401	3.501+1	1.201+1
4800	4.571	-3.076+1	4.259	1.408	3.502+1	1.197+1
4810	4.572	-3.077+1	4.260	1.414	3.503+1	1.192+1
4820	4.572	-3.078+1	4.261	1.421	3.504+1	1.188+1
4830	4.572	-3.079+1	4.261	1.427	3.505+1	1.183+1
4840	4.573	-3.080+1	4.262	1.434	3.506+1	1.179+1
4850	4.573	-3.081+1	4.263	1.440	3.507+1	1.175+1
4860	4.574	-3.081+1	4.263	1.447	3.508+1	1.170+1
4870	4.574	-3.082+1	4.264	1.453	3.509+1	1.166+1
4880	4.574	-3.083+1	4.264	1.459	3.510+1	1.162+1
4890	4.575	-3.084+1	4.265	1.466	3.511+1	1.157+1
4900	4.575	-3.085+1	4.266	1.472	3.512+1	1.153+1
4910	4.576	-3.086+1	4.266	1.478	3.512+1	1.149+1
4920	4.576	-3.087+1	4.267	1.485	3.513+1	1.145+1
4930	4.576	-3.088+1	4.268	1.491	3.514+1	1.140+1
4940	4.577	-3.088+1	4.268	1.497	3.515+1	1.136+1
4950	4.577	-3.089+1	4.269	1.503	3.516+1	1.132+1
4960	4.578	-3.090+1	4.269	1.510	3.517+1	1.128+1
4970	4.578	-3.091+1	4.270	1.516	3.518+1	1.124+1
4980	4.578	-3.092+1	4.271	1.522	3.519+1	1.120+1
4990	4.579	-3.093+1	4.271	1.528	3.520+1	1.116+1
5000	4.579	-3.094+1	4.272	1.534	3.521+1	1.111+1
5010	4.579	-3.094+1	4.273	1.540	3.522+1	1.107+1
5020	4.580	-3.095+1	4.273	1.546	3.523+1	1.103+1
5030	4.580	-3.096+1	4.274	1.552	3.524+1	1.099+1
5040	4.581	-3.097+1	4.274	1.558	3.524+1	1.095+1
5050	4.581	-3.098+1	4.275	1.564	3.525+1	1.091+1
5060	4.581	-3.099+1	4.276	1.570	3.526+1	1.087+1
5070	4.582	-3.100+1	4.276	1.576	3.527+1	1.083+1
5080	4.582	-3.100+1	4.277	1.582	3.528+1	1.079+1
5090	4.582	-3.101+1	4.277	1.588	3.529+1	1.075+1

SPECIE CO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	4.583	-3.102+1	4.278	1.594	3.530+1	1.071+1
5110	4.583	-3.103+1	4.279	1.600	3.531+1	1.067+1
5120	4.583	-3.104+1	4.279	1.606	3.532+1	1.063+1
5130	4.584	-3.105+1	4.280	1.611	3.533+1	1.060+1
5140	4.584	-3.105+1	4.280	1.617	3.533+1	1.056+1
5150	4.585	-3.106+1	4.281	1.623	3.534+1	1.052+1
5160	4.585	-3.107+1	4.282	1.629	3.535+1	1.048+1
5170	4.585	-3.108+1	4.282	1.634	3.536+1	1.044+1
5180	4.586	-3.109+1	4.283	1.640	3.537+1	1.040+1
5190	4.586	-3.110+1	4.283	1.646	3.538+1	1.036+1
5200	4.587	-3.110+1	4.284	1.651	3.539+1	1.033+1
5210	4.587	-3.111+1	4.284	1.657	3.540+1	1.029+1
5220	4.587	-3.112+1	4.285	1.663	3.541+1	1.025+1
5230	4.588	-3.113+1	4.286	1.668	3.541+1	1.021+1
5240	4.588	-3.114+1	4.286	1.674	3.542+1	1.018+1
5250	4.589	-3.114+1	4.287	1.679	3.543+1	1.014+1
5260	4.589	-3.115+1	4.287	1.685	3.544+1	1.010+1
5270	4.590	-3.116+1	4.288	1.690	3.545+1	1.007+1
5280	4.590	-3.117+1	4.289	1.696	3.546+1	1.003+1
5290	4.590	-3.118+1	4.289	1.701	3.547+1	9.992
5300	4.591	-3.119+1	4.290	1.707	3.548+1	9.955
5310	4.591	-3.119+1	4.290	1.712	3.548+1	9.919
5320	4.591	-3.120+1	4.291	1.718	3.549+1	9.882
5330	4.592	-3.121+1	4.291	1.723	3.550+1	9.846
5340	4.592	-3.122+1	4.292	1.729	3.551+1	9.810
5350	4.593	-3.123+1	4.293	1.734	3.552+1	9.774
5360	4.593	-3.123+1	4.293	1.739	3.553+1	9.739
5370	4.593	-3.124+1	4.294	1.745	3.554+1	9.703
5380	4.594	-3.125+1	4.294	1.750	3.554+1	9.668
5390	4.594	-3.126+1	4.295	1.755	3.555+1	9.633
5400	4.594	-3.127+1	4.295	1.760	3.556+1	9.598
5410	4.595	-3.127+1	4.296	1.766	3.557+1	9.563
5420	4.595	-3.128+1	4.296	1.771	3.558+1	9.528
5430	4.595	-3.129+1	4.297	1.776	3.559+1	9.493
5440	4.596	-3.130+1	4.298	1.781	3.560+1	9.458
5450	4.596	-3.131+1	4.298	1.786	3.560+1	9.423
5460	4.597	-3.131+1	4.299	1.792	3.561+1	9.389
5470	4.597	-3.132+1	4.299	1.797	3.562+1	9.354
5480	4.597	-3.133+1	4.300	1.802	3.563+1	9.320
5490	4.598	-3.134+1	4.300	1.807	3.564+1	9.286
5500	4.598	-3.134+1	4.301	1.812	3.565+1	9.252
5510	4.599	-3.135+1	4.301	1.817	3.565+1	9.218
5520	4.599	-3.136+1	4.302	1.822	3.566+1	9.184
5530	4.599	-3.137+1	4.302	1.827	3.567+1	9.150
5540	4.600	-3.138+1	4.303	1.832	3.568+1	9.117
5550	4.600	-3.138+1	4.303	1.837	3.569+1	9.083
5560	4.600	-3.139+1	4.304	1.842	3.569+1	9.050
5570	4.601	-3.140+1	4.305	1.847	3.570+1	9.017
5580	4.601	-3.141+1	4.305	1.852	3.571+1	8.984
5590	4.601	-3.141+1	4.306	1.857	3.572+1	8.951

SPECIE CO

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	4.602	-3.142+1	4.306	1.862	3.573+1	8.918
5610	4.602	-3.143+1	4.307	1.867	3.574+1	8.885
5620	4.603	-3.144+1	4.307	1.871	3.574+1	8.853
5630	4.603	-3.145+1	4.308	1.876	3.575+1	8.820
5640	4.603	-3.145+1	4.308	1.881	3.576+1	8.788
5650	4.604	-3.146+1	4.309	1.886	3.577+1	8.756
5660	4.604	-3.147+1	4.309	1.891	3.578+1	8.724
5670	4.605	-3.148+1	4.310	1.896	3.579+1	8.692
5680	4.605	-3.148+1	4.310	1.900	3.579+1	8.660
5690	4.605	-3.149+1	4.311	1.905	3.580+1	8.628
5700	4.606	-3.150+1	4.311	1.910	3.581+1	8.597
5710	4.606	-3.151+1	4.312	1.915	3.582+1	8.565
5720	4.607	-3.151+1	4.312	1.919	3.583+1	8.534
5730	4.607	-3.152+1	4.313	1.924	3.583+1	8.502
5740	4.607	-3.153+1	4.313	1.929	3.584+1	8.471
5750	4.608	-3.154+1	4.314	1.933	3.585+1	8.440
5760	4.608	-3.154+1	4.314	1.938	3.586+1	8.409
5770	4.608	-3.155+1	4.315	1.943	3.587+1	8.378
5780	4.609	-3.156+1	4.315	1.947	3.587+1	8.347
5790	4.609	-3.157+1	4.316	1.952	3.588+1	8.317
5800	4.609	-3.157+1	4.316	1.956	3.589+1	8.286
5810	4.610	-3.158+1	4.317	1.961	3.590+1	8.256
5820	4.610	-3.159+1	4.317	1.965	3.591+1	8.225
5830	4.610	-3.160+1	4.318	1.970	3.591+1	8.195
5840	4.611	-3.160+1	4.318	1.975	3.592+1	8.165
5850	4.611	-3.161+1	4.319	1.979	3.593+1	8.135
5860	4.611	-3.162+1	4.319	1.983	3.594+1	8.105
5870	4.612	-3.163+1	4.320	1.988	3.595+1	8.075
5880	4.612	-3.163+1	4.320	1.992	3.595+1	8.045
5890	4.613	-3.164+1	4.321	1.997	3.596+1	8.015
5900	4.613	-3.165+1	4.321	2.001	3.597+1	7.985
5910	4.613	-3.165+1	4.322	2.006	3.598+1	7.956
5920	4.614	-3.166+1	4.322	2.010	3.598+1	7.926
5930	4.614	-3.167+1	4.323	2.015	3.599+1	7.897
5940	4.614	-3.168+1	4.323	2.019	3.600+1	7.868
5950	4.615	-3.168+1	4.324	2.023	3.601+1	7.839
5960	4.615	-3.169+1	4.324	2.028	3.602+1	7.809
5970	4.616	-3.170+1	4.325	2.032	3.602+1	7.780
5980	4.616	-3.171+1	4.325	2.036	3.603+1	7.751
5990	4.616	-3.171+1	4.326	2.041	3.604+1	7.723
6000	4.617	-3.172+1	4.326	2.045	3.605+1	7.694

SPECIE CO2

MOLECULAR WEIGHT EQUALS 44.01139

DELTA E ZERO EQUALS -93.969 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(NBS 500, 2/1/52) (10)

THERMAL

(J. S. GORDON WADC TR 57-33, 1/57) (4)

SPECIE CO2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	3.313	-1.800+1	3.516	-4.694+2	2.151+1	1.316+3
110	3.527	-1.831+1	3.512	-4.333+2	2.182+1	1.214+3
120	3.548	-1.861+1	3.511	-4.006+2	2.212+1	1.122+3
130	3.575	-1.889+1	3.513	-3.710+2	2.240+1	1.039+3
140	3.608	-1.915+1	3.518	-3.444+2	2.267+1	9.635+2
150	3.646	-1.940+1	3.525	-3.203+2	2.292+1	8.959+2
160	3.689	-1.963+1	3.535	-2.988+2	2.316+1	8.351+2
170	3.735	-1.985+1	3.546	-2.794+2	2.340+1	7.806+2
180	3.784	-2.006+1	3.559	-2.621+2	2.362+1	7.319+2
190	3.837	-2.026+1	3.574	-2.466+2	2.383+1	6.884+2
200	3.891	-2.045+1	3.590	-2.328+2	2.404+1	6.495+2
210	3.948	-2.063+1	3.607	-2.205+2	2.423+1	6.149+2
220	4.005	-2.080+1	3.625	-2.096+2	2.442+1	5.840+2
230	4.064	-2.096+1	3.644	-1.998+2	2.460+1	5.565+2
240	4.124	-2.112+1	3.663	-1.911+2	2.478+1	5.319+2
250	4.183	-2.127+1	3.683	-1.832+2	2.495+1	5.099+2
260	4.243	-2.141+1	3.704	-1.762+2	2.511+1	4.901+2
270	4.302	-2.155+1	3.725	-1.699+2	2.527+1	4.722+2
280	4.361	-2.168+1	3.746	-1.641+2	2.543+1	4.559+2
290	4.419	-2.181+1	3.767	-1.588+2	2.558+1	4.410+2
300	4.476	-2.194+1	3.789	-1.538+2	2.573+1	4.271+2
310	4.530	-2.206+1	3.809	-1.486+2	2.587+1	4.124+2
320	4.582	-2.219+1	3.830	-1.437+2	2.601+1	3.987+2
330	4.634	-2.230+1	3.851	-1.392+2	2.615+1	3.860+2
340	4.685	-2.242+1	3.870	-1.349+2	2.629+1	3.740+2
350	4.735	-2.253+1	3.891	-1.310+2	2.642+1	3.628+2
360	4.784	-2.264+1	3.913	-1.272+2	2.655+1	3.523+2
370	4.832	-2.275+1	3.935	-1.237+2	2.668+1	3.424+2
380	4.879	-2.286+1	3.959	-1.203+2	2.681+1	3.330+2
390	4.925	-2.296+1	3.982	-1.172+2	2.694+1	3.242+2
400	4.970	-2.306+1	4.004	-1.142+2	2.706+1	3.158+2
410	5.014	-2.316+1	4.028	-1.114+2	2.719+1	3.078+2
420	5.056	-2.326+1	4.052	-1.087+2	2.731+1	3.002+2
430	5.099	-2.335+1	4.077	-1.061+2	2.743+1	2.929+2
440	5.140	-2.345+1	4.102	-1.036+2	2.755+1	2.860+2
450	5.180	-2.354+1	4.127	-1.012+2	2.767+1	2.792+2
460	5.219	-2.363+1	4.153	-9.885+1	2.779+1	2.728+2
470	5.257	-2.372+1	4.178	-9.661+1	2.790+1	2.665+2
480	5.294	-2.381+1	4.204	-9.444+1	2.802+1	2.605+2
490	5.331	-2.390+1	4.229	-9.235+1	2.813+1	2.546+2
500	5.367	-2.398+1	4.255	-9.032+1	2.824+1	2.489+2
510	5.402	-2.407+1	4.277	-8.846+1	2.835+1	2.437+2
520	5.437	-2.415+1	4.300	-8.666+1	2.845+1	2.387+2
530	5.471	-2.423+1	4.322	-8.494+1	2.855+1	2.339+2
540	5.504	-2.431+1	4.345	-8.327+1	2.866+1	2.292+2
550	5.537	-2.439+1	4.367	-8.166+1	2.876+1	2.247+2
560	5.569	-2.447+1	4.388	-8.010+1	2.886+1	2.204+2
570	5.600	-2.455+1	4.408	-7.859+1	2.896+1	2.162+2
580	5.631	-2.463+1	4.428	-7.713+1	2.905+1	2.121+2
590	5.662	-2.470+1	4.447	-7.572+1	2.915+1	2.082+2

SPECIE CO2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	5.691	-2.478+1	4.467	-7.434+1	2.925+1	2.043+2
610	5.721	-2.485+1	4.488	-7.304+1	2.934+1	2.007+2
620	5.749	-2.493+1	4.508	-7.177+1	2.943+1	1.972+2
630	5.777	-2.500+1	4.528	-7.054+1	2.953+1	1.938+2
640	5.805	-2.507+1	4.547	-6.935+1	2.962+1	1.904+2
650	5.832	-2.514+1	4.567	-6.820+1	2.971+1	1.872+2
660	5.859	-2.521+1	4.586	-6.708+1	2.980+1	1.841+2
670	5.885	-2.528+1	4.606	-6.599+1	2.988+1	1.811+2
680	5.911	-2.535+1	4.625	-6.493+1	2.997+1	1.781+2
690	5.936	-2.541+1	4.644	-6.389+1	3.006+1	1.753+2
700	5.961	-2.548+1	4.662	-6.289+1	3.014+1	1.725+2
710	5.985	-2.555+1	4.681	-6.192+1	3.023+1	1.698+2
720	6.009	-2.561+1	4.699	-6.098+1	3.031+1	1.672+2
730	6.033	-2.568+1	4.717	-6.006+1	3.040+1	1.646+2
740	6.056	-2.574+1	4.735	-5.917+1	3.048+1	1.621+2
750	6.078	-2.581+1	4.753	-5.830+1	3.056+1	1.597+2
760	6.100	-2.587+1	4.771	-5.746+1	3.064+1	1.574+2
770	6.122	-2.593+1	4.788	-5.663+1	3.072+1	1.551+2
780	6.144	-2.599+1	4.805	-5.582+1	3.080+1	1.529+2
790	6.165	-2.605+1	4.822	-5.504+1	3.088+1	1.507+2
800	6.185	-2.612+1	4.839	-5.427+1	3.095+1	1.485+2
810	6.206	-2.618+1	4.856	-5.352+1	3.103+1	1.465+2
820	6.226	-2.624+1	4.873	-5.280+1	3.111+1	1.445+2
830	6.246	-2.629+1	4.889	-5.209+1	3.118+1	1.425+2
840	6.265	-2.635+1	4.905	-5.139+1	3.126+1	1.406+2
850	6.284	-2.641+1	4.921	-5.071+1	3.133+1	1.387+2
860	6.303	-2.647+1	4.937	-5.005+1	3.141+1	1.369+2
870	6.321	-2.653+1	4.953	-4.940+1	3.148+1	1.351+2
880	6.339	-2.658+1	4.969	-4.877+1	3.155+1	1.333+2
890	6.357	-2.664+1	4.984	-4.815+1	3.162+1	1.316+2
900	6.374	-2.670+1	4.999	-4.754+1	3.169+1	1.299+2
910	6.391	-2.675+1	5.015	-4.695+1	3.177+1	1.283+2
920	6.408	-2.681+1	5.030	-4.637+1	3.184+1	1.267+2
930	6.424	-2.686+1	5.045	-4.580+1	3.190+1	1.251+2
940	6.440	-2.691+1	5.059	-4.525+1	3.197+1	1.236+2
950	6.456	-2.697+1	5.074	-4.470+1	3.204+1	1.221+2
960	6.472	-2.702+1	5.089	-4.417+1	3.211+1	1.206+2
970	6.487	-2.707+1	5.103	-4.365+1	3.218+1	1.192+2
980	6.502	-2.713+1	5.117	-4.314+1	3.224+1	1.178+2
990	6.517	-2.718+1	5.131	-4.263+1	3.231+1	1.164+2
1000	6.531	-2.723+1	5.145	-4.214+1	3.237+1	1.151+2
1010	6.545	-2.728+1	5.159	-4.166+1	3.244+1	1.137+2
1020	6.559	-2.733+1	5.172	-4.119+1	3.250+1	1.124+2
1030	6.573	-2.738+1	5.186	-4.072+1	3.257+1	1.112+2
1040	6.587	-2.743+1	5.199	-4.027+1	3.263+1	1.099+2
1050	6.600	-2.748+1	5.212	-3.982+1	3.270+1	1.087+2
1060	6.613	-2.753+1	5.225	-3.939+1	3.276+1	1.075+2
1070	6.626	-2.758+1	5.238	-3.896+1	3.282+1	1.063+2
1080	6.639	-2.763+1	5.251	-3.853+1	3.288+1	1.051+2
1090	6.652	-2.768+1	5.264	-3.812+1	3.294+1	1.040+2

SPECIE CO2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	6.664	-2.773+1	5.277	-3.771+1	3.300+1	1.029+2
1110	6.676	-2.777+1	5.289	-3.731+1	3.306+1	1.018+2
1120	6.688	-2.782+1	5.302	-3.692+1	3.312+1	1.007+2
1130	6.699	-2.787+1	5.314	-3.653+1	3.318+1	9.964+1
1140	6.711	-2.792+1	5.326	-3.615+1	3.324+1	9.860+1
1150	6.722	-2.796+1	5.338	-3.578+1	3.330+1	9.758+1
1160	6.733	-2.801+1	5.350	-3.541+1	3.336+1	9.657+1
1170	6.744	-2.805+1	5.362	-3.505+1	3.342+1	9.559+1
1180	6.755	-2.810+1	5.374	-3.470+1	3.347+1	9.462+1
1190	6.765	-2.815+1	5.386	-3.435+1	3.353+1	9.366+1
1200	6.776	-2.819+1	5.398	-3.401+1	3.359+1	9.272+1
1210	6.786	-2.824+1	5.409	-3.367+1	3.364+1	9.180+1
1220	6.796	-2.828+1	5.420	-3.334+1	3.370+1	9.089+1
1230	6.806	-2.832+1	5.432	-3.301+1	3.376+1	9.000+1
1240	6.816	-2.837+1	5.443	-3.269+1	3.381+1	8.912+1
1250	6.826	-2.841+1	5.454	-3.237+1	3.387+1	8.826+1
1260	6.835	-2.846+1	5.465	-3.206+1	3.392+1	8.740+1
1270	6.845	-2.850+1	5.476	-3.176+1	3.397+1	8.657+1
1280	6.854	-2.854+1	5.487	-3.146+1	3.403+1	8.574+1
1290	6.863	-2.858+1	5.497	-3.116+1	3.408+1	8.493+1
1300	6.872	-2.863+1	5.508	-3.087+1	3.413+1	8.413+1
1310	6.880	-2.867+1	5.518	-3.058+1	3.419+1	8.334+1
1320	6.889	-2.871+1	5.528	-3.029+1	3.424+1	8.257+1
1330	6.897	-2.875+1	5.539	-3.002+1	3.429+1	8.180+1
1340	6.905	-2.880+1	5.549	-2.974+1	3.434+1	8.105+1
1350	6.913	-2.884+1	5.559	-2.947+1	3.440+1	8.031+1
1360	6.921	-2.888+1	5.569	-2.920+1	3.445+1	7.958+1
1370	6.929	-2.892+1	5.579	-2.894+1	3.450+1	7.886+1
1380	6.937	-2.896+1	5.589	-2.868+1	3.455+1	7.815+1
1390	6.944	-2.900+1	5.598	-2.842+1	3.460+1	7.746+1
1400	6.952	-2.904+1	5.608	-2.817+1	3.465+1	7.677+1
1410	6.959	-2.908+1	5.617	-2.792+1	3.470+1	7.609+1
1420	6.966	-2.912+1	5.627	-2.767+1	3.475+1	7.542+1
1430	6.973	-2.916+1	5.636	-2.743+1	3.480+1	7.476+1
1440	6.980	-2.920+1	5.646	-2.719+1	3.484+1	7.411+1
1450	6.987	-2.924+1	5.655	-2.696+1	3.489+1	7.347+1
1460	6.994	-2.928+1	5.664	-2.672+1	3.494+1	7.283+1
1470	7.001	-2.931+1	5.673	-2.649+1	3.499+1	7.221+1
1480	7.008	-2.935+1	5.682	-2.627+1	3.504+1	7.159+1
1490	7.014	-2.939+1	5.691	-2.605+1	3.508+1	7.099+1
1500	7.021	-2.943+1	5.700	-2.582+1	3.513+1	7.039+1
1510	7.027	-2.947+1	5.709	-2.561+1	3.518+1	6.980+1
1520	7.034	-2.951+1	5.717	-2.539+1	3.522+1	6.921+1
1530	7.040	-2.954+1	5.726	-2.518+1	3.527+1	6.863+1
1540	7.046	-2.958+1	5.735	-2.497+1	3.531+1	6.807+1
1550	7.052	-2.962+1	5.743	-2.476+1	3.536+1	6.750+1
1560	7.058	-2.965+1	5.751	-2.456+1	3.541+1	6.695+1
1570	7.064	-2.969+1	5.760	-2.436+1	3.545+1	6.640+1
1580	7.070	-2.973+1	5.768	-2.416+1	3.549+1	6.586+1
1590	7.076	-2.976+1	5.776	-2.396+1	3.554+1	6.533+1

SPECIE CO2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	7.082	-2.980+1	5.784	-2.377+1	3.558+1	6.480+1
1610	7.087	-2.984+1	5.792	-2.358+1	3.563+1	6.428+1
1620	7.093	-2.987+1	5.800	-2.339+1	3.567+1	6.377+1
1630	7.098	-2.991+1	5.808	-2.320+1	3.572+1	6.326+1
1640	7.103	-2.994+1	5.816	-2.302+1	3.576+1	6.276+1
1650	7.109	-2.998+1	5.824	-2.283+1	3.580+1	6.227+1
1660	7.114	-3.001+1	5.832	-2.265+1	3.585+1	6.178+1
1670	7.119	-3.005+1	5.840	-2.248+1	3.589+1	6.129+1
1680	7.124	-3.008+1	5.847	-2.230+1	3.593+1	6.082+1
1690	7.129	-3.012+1	5.855	-2.213+1	3.597+1	6.035+1
1700	7.134	-3.015+1	5.862	-2.195+1	3.602+1	5.988+1
1710	7.139	-3.019+1	5.870	-2.178+1	3.606+1	5.942+1
1720	7.144	-3.022+1	5.877	-2.162+1	3.610+1	5.896+1
1730	7.148	-3.026+1	5.884	-2.145+1	3.614+1	5.851+1
1740	7.153	-3.029+1	5.892	-2.128+1	3.618+1	5.807+1
1750	7.158	-3.032+1	5.899	-2.112+1	3.622+1	5.763+1
1760	7.162	-3.036+1	5.906	-2.096+1	3.626+1	5.719+1
1770	7.167	-3.039+1	5.913	-2.080+1	3.630+1	5.676+1
1780	7.171	-3.042+1	5.920	-2.065+1	3.634+1	5.634+1
1790	7.175	-3.046+1	5.927	-2.049+1	3.638+1	5.592+1
1800	7.180	-3.049+1	5.934	-2.034+1	3.642+1	5.550+1
1810	7.184	-3.052+1	5.941	-2.018+1	3.646+1	5.508+1
1820	7.188	-3.055+1	5.948	-2.003+1	3.650+1	5.467+1
1830	7.193	-3.057+1	5.955	-1.989+1	3.652+1	5.426+1
1840	7.197	-3.060+1	5.961	-1.974+1	3.656+1	5.386+1
1850	7.201	-3.063+1	5.968	-1.959+1	3.659+1	5.346+1
1860	7.205	-3.065+1	5.975	-1.945+1	3.663+1	5.306+1
1870	7.209	-3.068+1	5.981	-1.931+1	3.666+1	5.267+1
1880	7.213	-3.070+1	5.988	-1.916+1	3.670+1	5.229+1
1890	7.217	-3.073+1	5.994	-1.903+1	3.673+1	5.190+1
1900	7.221	-3.076+1	6.001	-1.889+1	3.676+1	5.153+1
1910	7.225	-3.079+1	6.007	-1.875+1	3.680+1	5.116+1
1920	7.229	-3.082+1	6.014	-1.862+1	3.684+1	5.080+1
1930	7.233	-3.086+1	6.020	-1.848+1	3.688+1	5.044+1
1940	7.237	-3.089+1	6.026	-1.835+1	3.692+1	5.009+1
1950	7.240	-3.093+1	6.032	-1.822+1	3.696+1	4.974+1
1960	7.244	-3.097+1	6.039	-1.809+1	3.701+1	4.939+1
1970	7.247	-3.101+1	6.045	-1.796+1	3.705+1	4.905+1
1980	7.251	-3.104+1	6.051	-1.783+1	3.709+1	4.872+1
1990	7.254	-3.108+1	6.057	-1.771+1	3.714+1	4.839+1
2000	7.258	-3.112+1	6.063	-1.758+1	3.718+1	4.806+1
2010	7.261	-3.115+1	6.069	-1.746+1	3.722+1	4.773+1
2020	7.265	-3.118+1	6.075	-1.733+1	3.726+1	4.740+1
2030	7.268	-3.122+1	6.081	-1.721+1	3.730+1	4.707+1
2040	7.271	-3.125+1	6.086	-1.709+1	3.733+1	4.675+1
2050	7.275	-3.128+1	6.092	-1.697+1	3.737+1	4.643+1
2060	7.278	-3.130+1	6.098	-1.686+1	3.740+1	4.611+1
2070	7.281	-3.133+1	6.104	-1.674+1	3.744+1	4.580+1
2080	7.285	-3.136+1	6.109	-1.662+1	3.747+1	4.549+1
2090	7.288	-3.139+1	6.115	-1.651+1	3.751+1	4.518+1

SPECIE C02

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	7.291	-3.142+1	6.121	-1.640+1	3.754+1	4.487+1
2110	7.294	-3.145+1	6.126	-1.628+1	3.757+1	4.457+1
2120	7.297	-3.148+1	6.132	-1.617+1	3.761+1	4.427+1
2130	7.300	-3.151+1	6.137	-1.606+1	3.764+1	4.397+1
2140	7.303	-3.153+1	6.143	-1.595+1	3.768+1	4.368+1
2150	7.306	-3.156+1	6.148	-1.585+1	3.771+1	4.339+1
2160	7.309	-3.159+1	6.153	-1.574+1	3.775+1	4.310+1
2170	7.311	-3.162+1	6.159	-1.563+1	3.778+1	4.281+1
2180	7.314	-3.165+1	6.164	-1.553+1	3.781+1	4.253+1
2190	7.317	-3.168+1	6.169	-1.542+1	3.785+1	4.225+1
2200	7.320	-3.171+1	6.174	-1.532+1	3.788+1	4.197+1
2210	7.322	-3.173+1	6.180	-1.522+1	3.791+1	4.170+1
2220	7.325	-3.176+1	6.185	-1.511+1	3.795+1	4.143+1
2230	7.328	-3.179+1	6.191	-1.501+1	3.798+1	4.116+1
2240	7.331	-3.182+1	6.196	-1.491+1	3.801+1	4.089+1
2250	7.333	-3.184+1	6.202	-1.481+1	3.805+1	4.062+1
2260	7.336	-3.187+1	6.207	-1.472+1	3.808+1	4.036+1
2270	7.339	-3.190+1	6.213	-1.462+1	3.811+1	4.010+1
2280	7.341	-3.193+1	6.218	-1.452+1	3.814+1	3.984+1
2290	7.344	-3.195+1	6.224	-1.443+1	3.818+1	3.958+1
2300	7.346	-3.198+1	6.229	-1.433+1	3.821+1	3.933+1
2310	7.349	-3.201+1	6.234	-1.424+1	3.824+1	3.908+1
2320	7.351	-3.203+1	6.239	-1.414+1	3.827+1	3.883+1
2330	7.354	-3.206+1	6.243	-1.405+1	3.830+1	3.858+1
2340	7.356	-3.209+1	6.247	-1.396+1	3.834+1	3.833+1
2350	7.359	-3.212+1	6.251	-1.387+1	3.837+1	3.809+1
2360	7.361	-3.214+1	6.255	-1.378+1	3.840+1	3.785+1
2370	7.364	-3.217+1	6.260	-1.369+1	3.843+1	3.761+1
2380	7.366	-3.219+1	6.264	-1.360+1	3.846+1	3.737+1
2390	7.369	-3.222+1	6.268	-1.352+1	3.849+1	3.714+1
2400	7.371	-3.225+1	6.272	-1.343+1	3.852+1	3.690+1
2410	7.373	-3.227+1	6.276	-1.334+1	3.855+1	3.667+1
2420	7.376	-3.230+1	6.281	-1.326+1	3.858+1	3.644+1
2430	7.378	-3.233+1	6.285	-1.317+1	3.861+1	3.622+1
2440	7.380	-3.235+1	6.290	-1.309+1	3.864+1	3.599+1
2450	7.382	-3.238+1	6.294	-1.301+1	3.867+1	3.577+1
2460	7.384	-3.240+1	6.298	-1.292+1	3.870+1	3.554+1
2470	7.386	-3.243+1	6.303	-1.284+1	3.873+1	3.532+1
2480	7.388	-3.245+1	6.307	-1.276+1	3.876+1	3.511+1
2490	7.391	-3.248+1	6.312	-1.268+1	3.879+1	3.489+1
2500	7.393	-3.250+1	6.317	-1.260+1	3.882+1	3.467+1
2510	7.395	-3.253+1	6.321	-1.252+1	3.885+1	3.446+1
2520	7.397	-3.255+1	6.325	-1.244+1	3.888+1	3.425+1
2530	7.399	-3.258+1	6.329	-1.236+1	3.891+1	3.404+1
2540	7.401	-3.260+1	6.334	-1.228+1	3.894+1	3.383+1
2550	7.403	-3.263+1	6.338	-1.221+1	3.897+1	3.362+1
2560	7.405	-3.265+1	6.342	-1.213+1	3.900+1	3.342+1
2570	7.407	-3.268+1	6.346	-1.205+1	3.902+1	3.322+1
2580	7.410	-3.270+1	6.350	-1.198+1	3.905+1	3.301+1
2590	7.412	-3.273+1	6.354	-1.190+1	3.908+1	3.281+1

SPECIE CO2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	7.414	-3.275+1	6.358	-1.183+1	3.911+1	3.261+1
2610	7.416	-3.278+1	6.362	-1.176+1	3.914+1	3.242+1
2620	7.418	-3.280+1	6.366	-1.168+1	3.917+1	3.222+1
2630	7.420	-3.282+1	6.370	-1.161+1	3.919+1	3.203+1
2640	7.422	-3.285+1	6.374	-1.154+1	3.922+1	3.183+1
2650	7.424	-3.287+1	6.378	-1.147+1	3.925+1	3.164+1
2660	7.425	-3.290+1	6.382	-1.139+1	3.928+1	3.145+1
2670	7.427	-3.292+1	6.386	-1.132+1	3.931+1	3.127+1
2680	7.429	-3.295+1	6.390	-1.125+1	3.934+1	3.108+1
2690	7.431	-3.297+1	6.394	-1.118+1	3.936+1	3.089+1
2700	7.433	-3.299+1	6.398	-1.112+1	3.939+1	3.071+1
2710	7.435	-3.302+1	6.402	-1.105+1	3.942+1	3.053+1
2720	7.437	-3.304+1	6.405	-1.098+1	3.945+1	3.034+1
2730	7.438	-3.306+1	6.409	-1.091+1	3.947+1	3.016+1
2740	7.440	-3.309+1	6.413	-1.085+1	3.950+1	2.999+1
2750	7.442	-3.311+1	6.417	-1.078+1	3.953+1	2.981+1
2760	7.444	-3.313+1	6.420	-1.071+1	3.955+1	2.963+1
2770	7.446	-3.316+1	6.424	-1.065+1	3.958+1	2.946+1
2780	7.447	-3.318+1	6.428	-1.058+1	3.961+1	2.928+1
2790	7.449	-3.320+1	6.431	-1.052+1	3.963+1	2.911+1
2800	7.451	-3.323+1	6.435	-1.045+1	3.966+1	2.894+1
2810	7.453	-3.325+1	6.438	-1.039+1	3.969+1	2.877+1
2820	7.454	-3.327+1	6.442	-1.033+1	3.971+1	2.860+1
2830	7.456	-3.329+1	6.446	-1.026+1	3.974+1	2.843+1
2840	7.458	-3.332+1	6.449	-1.020+1	3.977+1	2.827+1
2850	7.459	-3.334+1	6.453	-1.014+1	3.979+1	2.810+1
2860	7.461	-3.336+1	6.456	-1.008+1	3.982+1	2.794+1
2870	7.463	-3.339+1	6.460	-1.002+1	3.985+1	2.777+1
2880	7.464	-3.341+1	6.463	-9.956	3.987+1	2.761+1
2890	7.466	-3.343+1	6.467	-9.896	3.990+1	2.745+1
2900	7.468	-3.345+1	6.470	-9.836	3.992+1	2.729+1
2910	7.469	-3.348+1	6.474	-9.776	3.995+1	2.713+1
2920	7.471	-3.350+1	6.477	-9.717	3.997+1	2.698+1
2930	7.472	-3.352+1	6.481	-9.659	4.000+1	2.682+1
2940	7.474	-3.354+1	6.484	-9.600	4.003+1	2.666+1
2950	7.476	-3.356+1	6.487	-9.542	4.005+1	2.651+1
2960	7.477	-3.359+1	6.491	-9.485	4.008+1	2.636+1
2970	7.479	-3.361+1	6.494	-9.428	4.010+1	2.621+1
2980	7.480	-3.363+1	6.497	-9.371	4.013+1	2.605+1
2990	7.482	-3.365+1	6.500	-9.315	4.015+1	2.590+1
3000	7.484	-3.367+1	6.504	-9.259	4.018+1	2.575+1
3010	7.485	-3.369+1	6.507	-9.203	4.020+1	2.561+1
3020	7.487	-3.372+1	6.510	-9.148	4.023+1	2.546+1
3030	7.488	-3.374+1	6.513	-9.093	4.025+1	2.531+1
3040	7.490	-3.376+1	6.517	-9.038	4.028+1	2.517+1
3050	7.491	-3.378+1	6.520	-8.984	4.030+1	2.502+1
3060	7.493	-3.380+1	6.523	-8.930	4.033+1	2.488+1
3070	7.494	-3.382+1	6.526	-8.877	4.035+1	2.474+1
3080	7.496	-3.384+1	6.529	-8.824	4.037+1	2.460+1
3090	7.497	-3.387+1	6.532	-8.771	4.040+1	2.445+1

SPECIE CO2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	7.499	-3.389+1	6.536	-8.718	4.042+1	2.432+1
3110	7.500	-3.391+1	6.539	-8.666	4.045+1	2.418+1
3120	7.502	-3.393+1	6.542	-8.614	4.047+1	2.404+1
3130	7.503	-3.395+1	6.545	-8.563	4.049+1	2.390+1
3140	7.504	-3.397+1	6.548	-8.512	4.052+1	2.377+1
3150	7.506	-3.399+1	6.551	-8.461	4.054+1	2.363+1
3160	7.507	-3.401+1	6.554	-8.410	4.057+1	2.350+1
3170	7.508	-3.403+1	6.557	-8.360	4.059+1	2.336+1
3180	7.510	-3.405+1	6.560	-8.310	4.061+1	2.323+1
3190	7.511	-3.407+1	6.563	-8.260	4.064+1	2.310+1
3200	7.512	-3.409+1	6.566	-8.211	4.066+1	2.297+1
3210	7.514	-3.411+1	6.569	-8.162	4.068+1	2.284+1
3220	7.515	-3.413+1	6.572	-8.114	4.071+1	2.271+1
3230	7.516	-3.416+1	6.575	-8.065	4.073+1	2.258+1
3240	7.518	-3.418+1	6.578	-8.017	4.075+1	2.245+1
3250	7.519	-3.420+1	6.581	-7.969	4.078+1	2.232+1
3260	7.520	-3.422+1	6.583	-7.922	4.080+1	2.220+1
3270	7.522	-3.424+1	6.586	-7.875	4.082+1	2.207+1
3280	7.523	-3.426+1	6.589	-7.828	4.085+1	2.195+1
3290	7.525	-3.428+1	6.592	-7.781	4.087+1	2.182+1
3300	7.526	-3.430+1	6.595	-7.735	4.089+1	2.170+1
3310	7.527	-3.432+1	6.598	-7.689	4.091+1	2.158+1
3320	7.529	-3.434+1	6.600	-7.643	4.094+1	2.146+1
3330	7.530	-3.436+1	6.603	-7.597	4.096+1	2.134+1
3340	7.531	-3.438+1	6.606	-7.552	4.098+1	2.122+1
3350	7.532	-3.440+1	6.609	-7.507	4.101+1	2.110+1
3360	7.534	-3.442+1	6.612	-7.462	4.103+1	2.098+1
3370	7.535	-3.444+1	6.614	-7.418	4.105+1	2.086+1
3380	7.536	-3.446+1	6.617	-7.373	4.107+1	2.074+1
3390	7.537	-3.447+1	6.620	-7.329	4.109+1	2.062+1
3400	7.539	-3.449+1	6.622	-7.286	4.112+1	2.051+1
3410	7.540	-3.451+1	6.625	-7.242	4.114+1	2.039+1
3420	7.541	-3.453+1	6.628	-7.199	4.116+1	2.028+1
3430	7.542	-3.455+1	6.630	-7.156	4.118+1	2.016+1
3440	7.543	-3.457+1	6.633	-7.113	4.120+1	2.005+1
3450	7.545	-3.459+1	6.636	-7.071	4.123+1	1.994+1
3460	7.546	-3.461+1	6.638	-7.029	4.125+1	1.983+1
3470	7.547	-3.463+1	6.641	-6.987	4.127+1	1.972+1
3480	7.548	-3.465+1	6.644	-6.945	4.129+1	1.960+1
3490	7.549	-3.467+1	6.646	-6.903	4.131+1	1.949+1
3500	7.551	-3.469+1	6.649	-6.862	4.134+1	1.938+1
3510	7.552	-3.471+1	6.651	-6.821	4.136+1	1.928+1
3520	7.553	-3.472+1	6.654	-6.780	4.138+1	1.917+1
3530	7.554	-3.474+1	6.656	-6.739	4.140+1	1.906+1
3540	7.555	-3.476+1	6.659	-6.699	4.142+1	1.895+1
3550	7.557	-3.478+1	6.661	-6.659	4.144+1	1.885+1
3560	7.558	-3.480+1	6.664	-6.619	4.146+1	1.874+1
3570	7.559	-3.482+1	6.667	-6.579	4.148+1	1.864+1
3580	7.560	-3.484+1	6.669	-6.540	4.151+1	1.853+1
3590	7.561	-3.486+1	6.672	-6.500	4.153+1	1.843+1

SPECIE CO2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	7.563	-3.487+1	6.674	-6.461	4.155+1	1.832+1
3610	7.564	-3.489+1	6.676	-6.422	4.157+1	1.822+1
3620	7.565	-3.491+1	6.679	-6.384	4.159+1	1.812+1
3630	7.566	-3.493+1	6.681	-6.345	4.161+1	1.802+1
3640	7.568	-3.495+1	6.684	-6.307	4.163+1	1.792+1
3650	7.569	-3.497+1	6.686	-6.269	4.165+1	1.781+1
3660	7.570	-3.498+1	6.689	-6.231	4.167+1	1.771+1
3670	7.571	-3.500+1	6.691	-6.194	4.169+1	1.761+1
3680	7.572	-3.502+1	6.693	-6.156	4.171+1	1.752+1
3690	7.574	-3.504+1	6.696	-6.119	4.173+1	1.742+1
3700	7.575	-3.506+1	6.698	-6.082	4.176+1	1.732+1
3710	7.576	-3.508+1	6.701	-6.045	4.178+1	1.722+1
3720	7.577	-3.509+1	6.703	-6.009	4.180+1	1.713+1
3730	7.578	-3.511+1	6.705	-5.972	4.182+1	1.703+1
3740	7.579	-3.513+1	6.708	-5.936	4.184+1	1.693+1
3750	7.580	-3.515+1	6.710	-5.900	4.186+1	1.684+1
3760	7.582	-3.517+1	6.712	-5.864	4.188+1	1.674+1
3770	7.583	-3.518+1	6.715	-5.828	4.190+1	1.665+1
3780	7.584	-3.520+1	6.717	-5.793	4.192+1	1.655+1
3790	7.585	-3.522+1	6.719	-5.758	4.194+1	1.646+1
3800	7.586	-3.524+1	6.721	-5.723	4.196+1	1.637+1
3810	7.587	-3.525+1	6.724	-5.688	4.198+1	1.628+1
3820	7.588	-3.527+1	6.726	-5.653	4.200+1	1.618+1
3830	7.589	-3.529+1	6.728	-5.618	4.202+1	1.609+1
3840	7.590	-3.531+1	6.730	-5.584	4.204+1	1.600+1
3850	7.591	-3.532+1	6.733	-5.550	4.206+1	1.591+1
3860	7.592	-3.534+1	6.735	-5.516	4.208+1	1.582+1
3870	7.594	-3.536+1	6.737	-5.482	4.210+1	1.573+1
3880	7.595	-3.538+1	6.739	-5.448	4.212+1	1.564+1
3890	7.596	-3.539+1	6.741	-5.415	4.214+1	1.555+1
3900	7.597	-3.541+1	6.744	-5.381	4.215+1	1.547+1
3910	7.598	-3.543+1	6.746	-5.348	4.217+1	1.538+1
3920	7.599	-3.545+1	6.748	-5.315	4.219+1	1.529+1
3930	7.600	-3.546+1	6.750	-5.282	4.221+1	1.520+1
3940	7.601	-3.548+1	6.752	-5.249	4.223+1	1.512+1
3950	7.602	-3.550+1	6.755	-5.217	4.225+1	1.503+1
3960	7.604	-3.551+1	6.757	-5.185	4.227+1	1.495+1
3970	7.605	-3.553+1	6.759	-5.152	4.229+1	1.486+1
3980	7.606	-3.555+1	6.761	-5.120	4.231+1	1.478+1
3990	7.607	-3.557+1	6.763	-5.088	4.233+1	1.469+1
4000	7.608	-3.558+1	6.765	-5.057	4.235+1	1.461+1
4010	7.609	-3.560+1	6.767	-5.025	4.237+1	1.452+1
4020	7.610	-3.562+1	6.769	-4.994	4.239+1	1.444+1
4030	7.611	-3.563+1	6.771	-4.962	4.240+1	1.436+1
4040	7.612	-3.565+1	6.774	-4.931	4.242+1	1.428+1
4050	7.613	-3.567+1	6.776	-4.900	4.244+1	1.419+1
4060	7.614	-3.568+1	6.778	-4.869	4.246+1	1.411+1
4070	7.615	-3.570+1	6.780	-4.839	4.248+1	1.403+1
4080	7.616	-3.572+1	6.782	-4.808	4.250+1	1.395+1
4090	7.617	-3.573+1	6.784	-4.778	4.252+1	1.387+1

SPECIE CO2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	7.618	-3.575+1	6.786	-4.748	4.254+1	1.379+1
4110	7.618	-3.577+1	6.788	-4.717	4.255+1	1.371+1
4120	7.619	-3.578+1	6.790	-4.688	4.257+1	1.363+1
4130	7.620	-3.580+1	6.792	-4.658	4.259+1	1.355+1
4140	7.621	-3.581+1	6.794	-4.628	4.261+1	1.348+1
4150	7.622	-3.583+1	6.796	-4.599	4.263+1	1.340+1
4160	7.623	-3.585+1	6.798	-4.569	4.265+1	1.332+1
4170	7.625	-3.586+1	6.800	-4.540	4.266+1	1.324+1
4180	7.626	-3.588+1	6.802	-4.511	4.268+1	1.317+1
4190	7.627	-3.590+1	6.804	-4.482	4.270+1	1.309+1
4200	7.628	-3.591+1	6.806	-4.453	4.272+1	1.302+1
4210	7.629	-3.593+1	6.808	-4.424	4.274+1	1.294+1
4220	7.630	-3.595+1	6.810	-4.396	4.275+1	1.286+1
4230	7.631	-3.596+1	6.812	-4.367	4.277+1	1.279+1
4240	7.632	-3.598+1	6.814	-4.339	4.279+1	1.271+1
4250	7.633	-3.599+1	6.815	-4.311	4.281+1	1.264+1
4260	7.634	-3.601+1	6.817	-4.283	4.283+1	1.257+1
4270	7.635	-3.603+1	6.819	-4.255	4.284+1	1.249+1
4280	7.636	-3.604+1	6.821	-4.227	4.286+1	1.242+1
4290	7.637	-3.606+1	6.823	-4.200	4.288+1	1.235+1
4300	7.638	-3.607+1	6.825	-4.172	4.290+1	1.227+1
4310	7.639	-3.609+1	6.827	-4.145	4.292+1	1.220+1
4320	7.640	-3.611+1	6.829	-4.117	4.293+1	1.213+1
4330	7.640	-3.612+1	6.831	-4.090	4.295+1	1.206+1
4340	7.641	-3.614+1	6.832	-4.063	4.297+1	1.199+1
4350	7.642	-3.615+1	6.834	-4.036	4.299+1	1.192+1
4360	7.643	-3.617+1	6.836	-4.010	4.300+1	1.185+1
4370	7.644	-3.618+1	6.838	-3.983	4.302+1	1.178+1
4380	7.645	-3.620+1	6.840	-3.956	4.304+1	1.171+1
4390	7.646	-3.622+1	6.842	-3.930	4.306+1	1.164+1
4400	7.647	-3.623+1	6.844	-3.904	4.307+1	1.157+1
4410	7.648	-3.625+1	6.845	-3.877	4.309+1	1.150+1
4420	7.649	-3.626+1	6.847	-3.851	4.311+1	1.143+1
4430	7.650	-3.628+1	6.849	-3.825	4.313+1	1.136+1
4440	7.651	-3.629+1	6.851	-3.799	4.314+1	1.129+1
4450	7.652	-3.631+1	6.853	-3.774	4.316+1	1.123+1
4460	7.653	-3.632+1	6.854	-3.748	4.318+1	1.116+1
4470	7.654	-3.634+1	6.856	-3.723	4.320+1	1.109+1
4480	7.655	-3.635+1	6.858	-3.697	4.321+1	1.103+1
4490	7.656	-3.637+1	6.860	-3.672	4.323+1	1.096+1
4500	7.657	-3.639+1	6.862	-3.647	4.325+1	1.089+1
4510	7.658	-3.640+1	6.863	-3.622	4.326+1	1.083+1
4520	7.659	-3.642+1	6.865	-3.597	4.328+1	1.076+1
4530	7.660	-3.643+1	6.867	-3.572	4.330+1	1.070+1
4540	7.660	-3.645+1	6.869	-3.547	4.331+1	1.063+1
4550	7.661	-3.646+1	6.870	-3.523	4.333+1	1.057+1
4560	7.662	-3.648+1	6.872	-3.498	4.335+1	1.050+1
4570	7.663	-3.649+1	6.874	-3.474	4.336+1	1.044+1
4580	7.664	-3.651+1	6.875	-3.449	4.338+1	1.037+1
4590	7.665	-3.652+1	6.877	-3.425	4.340+1	1.031+1

SPECIE CO2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	7.666	-3.654+1	6.879	-3.401	4.341+1	1.025+1
4610	7.667	-3.655+1	6.881	-3.377	4.343+1	1.018+1
4620	7.668	-3.657+1	6.882	-3.353	4.345+1	1.012+1
4630	7.669	-3.658+1	6.884	-3.329	4.346+1	1.006+1
4640	7.670	-3.660+1	6.886	-3.306	4.348+1	9.995
4650	7.671	-3.661+1	6.887	-3.282	4.350+1	9.933
4660	7.672	-3.663+1	6.889	-3.258	4.351+1	9.871
4670	7.673	-3.664+1	6.891	-3.235	4.353+1	9.810
4680	7.674	-3.665+1	6.892	-3.212	4.355+1	9.748
4690	7.675	-3.667+1	6.894	-3.189	4.356+1	9.687
4700	7.676	-3.668+1	6.896	-3.165	4.358+1	9.627
4710	7.677	-3.670+1	6.897	-3.142	4.360+1	9.566
4720	7.678	-3.671+1	6.899	-3.119	4.361+1	9.506
4730	7.679	-3.673+1	6.901	-3.097	4.363+1	9.446
4740	7.680	-3.674+1	6.902	-3.074	4.364+1	9.386
4750	7.681	-3.676+1	6.904	-3.051	4.366+1	9.327
4760	7.681	-3.677+1	6.906	-3.029	4.368+1	9.268
4770	7.682	-3.679+1	6.907	-3.006	4.369+1	9.209
4780	7.683	-3.680+1	6.909	-2.984	4.371+1	9.150
4790	7.684	-3.681+1	6.910	-2.962	4.373+1	9.091
4800	7.685	-3.683+1	6.912	-2.939	4.374+1	9.033
4810	7.686	-3.684+1	6.914	-2.917	4.376+1	8.975
4820	7.687	-3.686+1	6.915	-2.895	4.377+1	8.916
4830	7.688	-3.687+1	6.917	-2.873	4.379+1	8.859
4840	7.688	-3.689+1	6.919	-2.852	4.380+1	8.801
4850	7.689	-3.690+1	6.920	-2.830	4.382+1	8.744
4860	7.690	-3.691+1	6.922	-2.808	4.384+1	8.687
4870	7.691	-3.693+1	6.923	-2.787	4.385+1	8.631
4880	7.692	-3.694+1	6.925	-2.765	4.387+1	8.575
4890	7.693	-3.696+1	6.926	-2.744	4.388+1	8.520
4900	7.693	-3.697+1	6.928	-2.723	4.390+1	8.464
4910	7.694	-3.699+1	6.930	-2.701	4.392+1	8.411
4920	7.695	-3.700+1	6.931	-2.680	4.393+1	8.359
4930	7.696	-3.702+1	6.933	-2.659	4.395+1	8.305
4940	7.697	-3.704+1	6.934	-2.638	4.397+1	8.253
4950	7.698	-3.705+1	6.936	-2.617	4.399+1	8.201
4960	7.698	-3.707+1	6.937	-2.597	4.401+1	8.150
4970	7.699	-3.709+1	6.939	-2.576	4.403+1	8.099
4980	7.700	-3.711+1	6.940	-2.555	4.405+1	8.048
4990	7.701	-3.712+1	6.942	-2.535	4.407+1	7.998
5000	7.702	-3.714+1	6.943	-2.514	4.409+1	7.947
5010	7.703	-3.716+1	6.945	-2.494	4.410+1	7.895
5020	7.704	-3.717+1	6.947	-2.473	4.412+1	7.843
5030	7.705	-3.719+1	6.948	-2.453	4.414+1	7.791
5040	7.706	-3.720+1	6.950	-2.432	4.415+1	7.738
5050	7.707	-3.722+1	6.952	-2.412	4.417+1	7.686
5060	7.708	-3.723+1	6.954	-2.391	4.418+1	7.634
5070	7.709	-3.724+1	6.955	-2.371	4.420+1	7.581
5080	7.710	-3.726+1	6.957	-2.351	4.421+1	7.528
5090	7.711	-3.727+1	6.959	-2.331	4.423+1	7.476

SPECIE CO2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	7.713	-3.728+1	6.961	-2.311	4.424+1	7.423
5110	7.714	-3.729+1	6.963	-2.291	4.426+1	7.372
5120	7.715	-3.731+1	6.965	-2.271	4.427+1	7.321
5130	7.716	-3.732+1	6.966	-2.251	4.429+1	7.270
5140	7.717	-3.734+1	6.968	-2.232	4.430+1	7.219
5150	7.718	-3.735+1	6.970	-2.212	4.432+1	7.169
5160	7.719	-3.736+1	6.971	-2.193	4.433+1	7.119
5170	7.720	-3.738+1	6.973	-2.173	4.435+1	7.069
5180	7.721	-3.739+1	6.975	-2.154	4.436+1	7.019
5190	7.723	-3.740+1	6.977	-2.135	4.438+1	6.969
5200	7.724	-3.742+1	6.978	-2.115	4.440+1	6.920
5210	7.725	-3.743+1	6.980	-2.096	4.441+1	6.871
5220	7.726	-3.744+1	6.982	-2.077	4.443+1	6.821
5230	7.727	-3.746+1	6.983	-2.058	4.444+1	6.772
5240	7.728	-3.747+1	6.985	-2.039	4.446+1	6.723
5250	7.729	-3.748+1	6.987	-2.020	4.447+1	6.674
5260	7.730	-3.750+1	6.988	-2.002	4.449+1	6.626
5270	7.731	-3.751+1	6.990	-1.983	4.450+1	6.577
5280	7.733	-3.752+1	6.992	-1.964	4.452+1	6.529
5290	7.734	-3.754+1	6.993	-1.946	4.453+1	6.481
5300	7.735	-3.755+1	6.995	-1.927	4.455+1	6.434
5310	7.736	-3.756+1	6.997	-1.909	4.456+1	6.386
5320	7.737	-3.758+1	6.998	-1.890	4.458+1	6.339
5330	7.738	-3.759+1	7.000	-1.872	4.459+1	6.292
5340	7.739	-3.760+1	7.002	-1.854	4.461+1	6.245
5350	7.740	-3.762+1	7.003	-1.835	4.462+1	6.198
5360	7.741	-3.763+1	7.005	-1.817	4.464+1	6.152
5370	7.742	-3.764+1	7.007	-1.799	4.465+1	6.106
5380	7.744	-3.766+1	7.008	-1.781	4.466+1	6.060
5390	7.745	-3.767+1	7.010	-1.763	4.468+1	6.014
5400	7.746	-3.768+1	7.012	-1.745	4.469+1	5.968
5410	7.747	-3.770+1	7.013	-1.728	4.471+1	5.922
5420	7.748	-3.771+1	7.015	-1.710	4.472+1	5.877
5430	7.749	-3.772+1	7.016	-1.692	4.474+1	5.831
5440	7.750	-3.774+1	7.018	-1.674	4.475+1	5.786
5450	7.751	-3.775+1	7.020	-1.657	4.477+1	5.741
5460	7.752	-3.776+1	7.021	-1.639	4.478+1	5.696
5470	7.754	-3.777+1	7.023	-1.622	4.480+1	5.651
5480	7.755	-3.779+1	7.024	-1.605	4.481+1	5.607
5490	7.756	-3.780+1	7.026	-1.587	4.483+1	5.562
5500	7.757	-3.781+1	7.028	-1.570	4.484+1	5.518
5510	7.758	-3.783+1	7.029	-1.553	4.486+1	5.474
5520	7.759	-3.784+1	7.031	-1.536	4.487+1	5.429
5530	7.760	-3.785+1	7.032	-1.519	4.488+1	5.386
5540	7.761	-3.786+1	7.034	-1.502	4.490+1	5.342
5550	7.762	-3.788+1	7.035	-1.485	4.491+1	5.298
5560	7.764	-3.789+1	7.037	-1.468	4.493+1	5.255
5570	7.765	-3.790+1	7.039	-1.451	4.494+1	5.212
5580	7.766	-3.792+1	7.040	-1.434	4.496+1	5.169
5590	7.767	-3.793+1	7.042	-1.418	4.497+1	5.126

SPECIE CO2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	7.768	-3.794+1	7.043	-1.401	4.498+1	5.083
5610	7.769	-3.795+1	7.045	-1.384	4.500+1	5.041
5620	7.770	-3.797+1	7.046	-1.368	4.501+1	4.998
5630	7.771	-3.798+1	7.048	-1.351	4.503+1	4.956
5640	7.772	-3.799+1	7.049	-1.335	4.504+1	4.914
5650	7.773	-3.800+1	7.051	-1.319	4.505+1	4.872
5660	7.775	-3.802+1	7.052	-1.302	4.507+1	4.831
5670	7.776	-3.803+1	7.054	-1.286	4.508+1	4.789
5680	7.777	-3.804+1	7.055	-1.270	4.510+1	4.748
5690	7.778	-3.805+1	7.057	-1.254	4.511+1	4.706
5700	7.779	-3.807+1	7.059	-1.237	4.513+1	4.665
5710	7.780	-3.808+1	7.060	-1.221	4.514+1	4.624
5720	7.781	-3.809+1	7.062	-1.205	4.515+1	4.584
5730	7.782	-3.810+1	7.063	-1.190	4.517+1	4.543
5740	7.783	-3.812+1	7.065	-1.174	4.518+1	4.502
5750	7.785	-3.813+1	7.066	-1.158	4.519+1	4.462
5760	7.786	-3.814+1	7.068	-1.142	4.521+1	4.422
5770	7.787	-3.815+1	7.069	-1.126	4.522+1	4.382
5780	7.788	-3.817+1	7.070	-1.111	4.524+1	4.342
5790	7.789	-3.818+1	7.072	-1.095	4.525+1	4.302
5800	7.790	-3.819+1	7.073	-1.079	4.526+1	4.262
5810	7.791	-3.820+1	7.075	-1.064	4.528+1	4.222
5820	7.792	-3.822+1	7.076	-1.049	4.529+1	4.183
5830	7.793	-3.823+1	7.078	-1.033	4.531+1	4.143
5840	7.795	-3.824+1	7.079	-1.018	4.532+1	4.104
5850	7.796	-3.825+1	7.081	-1.002	4.533+1	4.065
5860	7.797	-3.826+1	7.082	-9.872-1	4.535+1	4.026
5870	7.798	-3.828+1	7.084	-9.720-1	4.536+1	3.987
5880	7.799	-3.829+1	7.085	-9.569-1	4.537+1	3.948
5890	7.800	-3.830+1	7.087	-9.418-1	4.539+1	3.910
5900	7.801	-3.831+1	7.088	-9.267-1	4.540+1	3.871
5910	7.802	-3.832+1	7.090	-9.117-1	4.541+1	3.833
5920	7.803	-3.834+1	7.091	-8.967-1	4.543+1	3.795
5930	7.805	-3.835+1	7.092	-8.818-1	4.544+1	3.757
5940	7.806	-3.836+1	7.094	-8.670-1	4.545+1	3.719
5950	7.807	-3.837+1	7.095	-8.522-1	4.547+1	3.681
5960	7.808	-3.838+1	7.097	-8.374-1	4.548+1	3.643
5970	7.809	-3.840+1	7.098	-8.227-1	4.549+1	3.605
5980	7.810	-3.841+1	7.100	-8.080-1	4.551+1	3.568
5990	7.811	-3.842+1	7.101	-7.933-1	4.552+1	3.530
6000	7.812	-3.843+1	7.102	-7.788-1	4.553+1	3.493

SPECIE C302

MOLECULAR WEIGHT EQUALS 68.03417

DELTA E ZERO EQUALS 69.931 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(W. H. THOMPSON, 1941) (14)

THERMAL

(J. S. GORDON, PRIVATE COMMUNICATION, 5/5/60) (6)

SPECIE C302

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
300	7.917	-2.548+1	5.535	1.228+2	3.101+1	6.932+2
310	8.034	-2.566+1	5.614	1.192+2	3.127+1	6.698+2
320	8.147	-2.584+1	5.692	1.158+2	3.153+1	6.476+2
330	8.255	-2.601+1	5.768	1.126+2	3.178+1	6.265+2
340	8.360	-2.619+1	5.843	1.095+2	3.203+1	6.066+2
350	8.461	-2.636+1	5.916	1.066+2	3.227+1	5.877+2
360	8.558	-2.653+1	5.988	1.038+2	3.251+1	5.699+2
370	8.652	-2.669+1	6.059	1.012+2	3.275+1	5.529+2
380	8.743	-2.685+1	6.128	9.879+1	3.298+1	5.368+2
390	8.831	-2.701+1	6.196	9.645+1	3.321+1	5.216+2
400	8.917	-2.717+1	6.263	9.424+1	3.344+1	5.071+2
410	8.999	-2.733+1	6.329	9.214+1	3.366+1	4.934+2
420	9.079	-2.748+1	6.393	9.015+1	3.388+1	4.803+2
430	9.157	-2.763+1	6.457	8.826+1	3.409+1	4.679+2
440	9.233	-2.778+1	6.519	8.645+1	3.430+1	4.561+2
450	9.307	-2.793+1	6.580	8.474+1	3.451+1	4.448+2
460	9.378	-2.807+1	6.640	8.310+1	3.471+1	4.340+2
470	9.448	-2.822+1	6.699	8.154+1	3.492+1	4.237+2
480	9.516	-2.836+1	6.757	8.005+1	3.512+1	4.139+2
490	9.583	-2.850+1	6.814	7.862+1	3.531+1	4.044+2
500	9.648	-2.864+1	6.870	7.725+1	3.551+1	3.954+2
510	9.712	-2.877+1	6.925	7.594+1	3.570+1	3.867+2
520	9.775	-2.891+1	6.979	7.467+1	3.589+1	3.783+2
530	9.835	-2.904+1	7.033	7.346+1	3.608+1	3.702+2
540	9.894	-2.917+1	7.085	7.229+1	3.626+1	3.624+2
550	9.953	-2.931+1	7.137	7.116+1	3.644+1	3.549+2
560	1.001+1	-2.943+1	7.188	7.006+1	3.662+1	3.477+2
570	1.007+1	-2.956+1	7.238	6.901+1	3.680+1	3.406+2
580	1.012+1	-2.969+1	7.287	6.798+1	3.697+1	3.338+2
590	1.018+1	-2.981+1	7.335	6.699+1	3.715+1	3.272+2
600	1.023+1	-2.994+1	7.383	6.603+1	3.732+1	3.208+2
610	1.028+1	-3.006+1	7.430	6.512+1	3.749+1	3.147+2
620	1.033+1	-3.018+1	7.477	6.424+1	3.766+1	3.088+2
630	1.038+1	-3.030+1	7.522	6.339+1	3.782+1	3.031+2
640	1.043+1	-3.042+1	7.568	6.256+1	3.799+1	2.976+2
650	1.048+1	-3.054+1	7.612	6.176+1	3.815+1	2.922+2
660	1.053+1	-3.065+1	7.656	6.099+1	3.831+1	2.870+2
670	1.057+1	-3.077+1	7.699	6.023+1	3.847+1	2.819+2
680	1.062+1	-3.088+1	7.742	5.950+1	3.862+1	2.770+2
690	1.067+1	-3.100+1	7.784	5.879+1	3.878+1	2.722+2
700	1.071+1	-3.111+1	7.825	5.810+1	3.893+1	2.675+2
710	1.075+1	-3.122+1	7.866	5.743+1	3.909+1	2.630+2
720	1.079+1	-3.133+1	7.906	5.678+1	3.924+1	2.586+2
730	1.084+1	-3.144+1	7.946	5.616+1	3.939+1	2.544+2
740	1.088+1	-3.155+1	7.986	5.554+1	3.953+1	2.502+2
750	1.092+1	-3.166+1	8.025	5.495+1	3.968+1	2.462+2
760	1.096+1	-3.176+1	8.063	5.437+1	3.982+1	2.423+2
770	1.100+1	-3.187+1	8.101	5.381+1	3.997+1	2.385+2
780	1.103+1	-3.197+1	8.138	5.326+1	4.011+1	2.347+2
790	1.107+1	-3.208+1	8.175	5.272+1	4.025+1	2.311+2

SPECIE C302

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
800	1.111+1	-3.218+1	8.211	5.220+1	4.039+1	2.275+2
810	1.114+1	-3.228+1	8.247	5.169+1	4.053+1	2.241+2
820	1.118+1	-3.238+1	8.283	5.120+1	4.067+1	2.207+2
830	1.121+1	-3.248+1	8.318	5.072+1	4.080+1	2.174+2
840	1.125+1	-3.258+1	8.353	5.025+1	4.094+1	2.142+2
850	1.128+1	-3.268+1	8.387	4.979+1	4.107+1	2.111+2
860	1.131+1	-3.278+1	8.421	4.934+1	4.120+1	2.080+2
870	1.135+1	-3.288+1	8.454	4.891+1	4.133+1	2.050+2
880	1.138+1	-3.298+1	8.487	4.848+1	4.146+1	2.021+2
890	1.141+1	-3.307+1	8.520	4.806+1	4.159+1	1.992+2
900	1.144+1	-3.317+1	8.552	4.765+1	4.172+1	1.964+2
910	1.147+1	-3.326+1	8.584	4.725+1	4.185+1	1.937+2
920	1.150+1	-3.336+1	8.616	4.687+1	4.197+1	1.910+2
930	1.153+1	-3.345+1	8.647	4.649+1	4.210+1	1.884+2
940	1.156+1	-3.354+1	8.678	4.612+1	4.222+1	1.858+2
950	1.158+1	-3.363+1	8.708	4.575+1	4.234+1	1.833+2
960	1.161+1	-3.372+1	8.738	4.540+1	4.246+1	1.809+2
970	1.164+1	-3.382+1	8.768	4.505+1	4.258+1	1.785+2
980	1.167+1	-3.391+1	8.797	4.471+1	4.270+1	1.761+2
990	1.169+1	-3.400+1	8.827	4.437+1	4.282+1	1.738+2
1000	1.172+1	-3.408+1	8.855	4.405+1	4.294+1	1.715+2
1010	1.174+1	-3.417+1	8.884	4.373+1	4.306+1	1.693+2
1020	1.177+1	-3.426+1	8.912	4.341+1	4.317+1	1.671+2
1030	1.179+1	-3.435+1	8.940	4.311+1	4.329+1	1.650+2
1040	1.181+1	-3.443+1	8.967	4.280+1	4.340+1	1.629+2
1050	1.184+1	-3.452+1	8.994	4.251+1	4.351+1	1.609+2
1060	1.186+1	-3.460+1	9.021	4.222+1	4.363+1	1.589+2
1070	1.188+1	-3.469+1	9.048	4.194+1	4.374+1	1.569+2
1080	1.190+1	-3.477+1	9.074	4.166+1	4.385+1	1.549+2
1090	1.193+1	-3.486+1	9.101	4.138+1	4.396+1	1.530+2
1100	1.195+1	-3.494+1	9.126	4.112+1	4.407+1	1.512+2
1110	1.197+1	-3.502+1	9.152	4.085+1	4.418+1	1.493+2
1120	1.199+1	-3.511+1	9.177	4.060+1	4.428+1	1.475+2
1130	1.201+1	-3.519+1	9.202	4.034+1	4.439+1	1.458+2
1140	1.203+1	-3.527+1	9.227	4.009+1	4.449+1	1.440+2
1150	1.205+1	-3.535+1	9.251	3.985+1	4.460+1	1.423+2
1160	1.207+1	-3.543+1	9.275	3.961+1	4.470+1	1.406+2
1170	1.208+1	-3.551+1	9.299	3.938+1	4.481+1	1.390+2
1180	1.210+1	-3.559+1	9.323	3.914+1	4.491+1	1.374+2
1190	1.212+1	-3.567+1	9.346	3.892+1	4.501+1	1.358+2
1200	1.214+1	-3.575+1	9.369	3.870+1	4.511+1	1.342+2
1210	1.216+1	-3.582+1	9.393	3.848+1	4.522+1	1.327+2
1220	1.217+1	-3.590+1	9.415	3.826+1	4.532+1	1.311+2
1230	1.219+1	-3.598+1	9.438	3.805+1	4.542+1	1.297+2
1240	1.221+1	-3.605+1	9.460	3.784+1	4.551+1	1.282+2
1250	1.222+1	-3.613+1	9.482	3.763+1	4.561+1	1.267+2
1260	1.224+1	-3.621+1	9.504	3.743+1	4.571+1	1.253+2
1270	1.225+1	-3.628+1	9.525	3.723+1	4.581+1	1.239+2
1280	1.227+1	-3.636+1	9.547	3.704+1	4.590+1	1.225+2
1290	1.229+1	-3.643+1	9.568	3.685+1	4.600+1	1.212+2

SPECIE C302

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1300	1.230+1	-3.650+1	9.589	3.666+1	4.609+1	1.199+2
1310	1.232+1	-3.658+1	9.610	3.647+1	4.619+1	1.185+2
1320	1.233+1	-3.665+1	9.630	3.629+1	4.628+1	1.172+2
1330	1.234+1	-3.672+1	9.651	3.611+1	4.637+1	1.160+2
1340	1.236+1	-3.680+1	9.671	3.593+1	4.647+1	1.147+2
1350	1.237+1	-3.687+1	9.691	3.576+1	4.656+1	1.135+2
1360	1.238+1	-3.694+1	9.710	3.559+1	4.665+1	1.123+2
1370	1.240+1	-3.701+1	9.730	3.542+1	4.674+1	1.111+2
1380	1.241+1	-3.708+1	9.750	3.525+1	4.683+1	1.099+2
1390	1.242+1	-3.715+1	9.769	3.509+1	4.692+1	1.087+2
1400	1.244+1	-3.722+1	9.788	3.492+1	4.701+1	1.076+2
1410	1.245+1	-3.729+1	9.806	3.476+1	4.710+1	1.064+2
1420	1.246+1	-3.736+1	9.825	3.461+1	4.719+1	1.053+2
1430	1.247+1	-3.743+1	9.844	3.445+1	4.727+1	1.042+2
1440	1.249+1	-3.750+1	9.862	3.430+1	4.736+1	1.031+2
1450	1.250+1	-3.757+1	9.880	3.415+1	4.745+1	1.020+2
1460	1.251+1	-3.764+1	9.898	3.400+1	4.753+1	1.010+2
1470	1.252+1	-3.770+1	9.916	3.385+1	4.762+1	9.994+1
1480	1.253+1	-3.777+1	9.934	3.371+1	4.770+1	9.891+1
1490	1.254+1	-3.784+1	9.951	3.357+1	4.779+1	9.790+1
1500	1.255+1	-3.790+1	9.968	3.343+1	4.787+1	9.690+1
1510	1.256+1	-3.797+1	9.985	3.329+1	4.796+1	9.591+1
1520	1.257+1	-3.804+1	1.000+1	3.315+1	4.804+1	9.493+1
1530	1.258+1	-3.810+1	1.002+1	3.302+1	4.812+1	9.397+1
1540	1.259+1	-3.817+1	1.004+1	3.289+1	4.820+1	9.302+1
1550	1.260+1	-3.823+1	1.005+1	3.276+1	4.828+1	9.208+1
1560	1.261+1	-3.830+1	1.007+1	3.263+1	4.837+1	9.116+1
1570	1.262+1	-3.836+1	1.009+1	3.250+1	4.845+1	9.024+1
1580	1.263+1	-3.842+1	1.010+1	3.237+1	4.853+1	8.934+1
1590	1.264+1	-3.849+1	1.012+1	3.225+1	4.861+1	8.845+1
1600	1.265+1	-3.855+1	1.013+1	3.213+1	4.868+1	8.757+1
1610	1.266+1	-3.862+1	1.015+1	3.201+1	4.876+1	8.671+1
1620	1.267+1	-3.868+1	1.016+1	3.189+1	4.884+1	8.585+1
1630	1.268+1	-3.874+1	1.018+1	3.177+1	4.892+1	8.500+1
1640	1.269+1	-3.880+1	1.019+1	3.165+1	4.900+1	8.416+1
1650	1.270+1	-3.887+1	1.021+1	3.154+1	4.908+1	8.334+1
1660	1.270+1	-3.893+1	1.022+1	3.142+1	4.915+1	8.252+1
1670	1.271+1	-3.899+1	1.024+1	3.131+1	4.923+1	8.171+1
1680	1.272+1	-3.905+1	1.025+1	3.120+1	4.930+1	8.092+1
1690	1.273+1	-3.911+1	1.027+1	3.109+1	4.938+1	8.013+1
1700	1.274+1	-3.917+1	1.028+1	3.098+1	4.945+1	7.935+1
1710	1.274+1	-3.923+1	1.030+1	3.088+1	4.953+1	7.858+1
1720	1.275+1	-3.929+1	1.031+1	3.077+1	4.960+1	7.782+1
1730	1.276+1	-3.935+1	1.033+1	3.067+1	4.968+1	7.707+1
1740	1.277+1	-3.941+1	1.034+1	3.056+1	4.975+1	7.633+1
1750	1.277+1	-3.947+1	1.035+1	3.046+1	4.982+1	7.559+1
1760	1.278+1	-3.953+1	1.037+1	3.036+1	4.990+1	7.487+1
1770	1.279+1	-3.959+1	1.038+1	3.026+1	4.997+1	7.415+1
1780	1.280+1	-3.965+1	1.040+1	3.017+1	5.004+1	7.344+1
1790	1.280+1	-3.970+1	1.041+1	3.007+1	5.011+1	7.274+1

SPECIE C302

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1800	1.281+1	-3.976+1	1.042+1	2.997+1	5.018+1	7.204+1
1810	1.282+1	-3.982+1	1.043+1	2.988+1	5.026+1	7.136+1
1820	1.282+1	-3.988+1	1.045+1	2.978+1	5.033+1	7.068+1
1830	1.283+1	-3.994+1	1.046+1	2.969+1	5.040+1	7.001+1
1840	1.284+1	-3.999+1	1.047+1	2.960+1	5.047+1	6.934+1
1850	1.284+1	-4.005+1	1.049+1	2.951+1	5.054+1	6.869+1
1860	1.285+1	-4.011+1	1.050+1	2.942+1	5.061+1	6.804+1
1870	1.285+1	-4.016+1	1.051+1	2.933+1	5.067+1	6.739+1
1880	1.286+1	-4.022+1	1.052+1	2.924+1	5.074+1	6.676+1
1890	1.287+1	-4.027+1	1.054+1	2.916+1	5.081+1	6.613+1
1900	1.287+1	-4.033+1	1.055+1	2.907+1	5.088+1	6.551+1
1910	1.288+1	-4.039+1	1.056+1	2.899+1	5.095+1	6.489+1
1920	1.288+1	-4.044+1	1.057+1	2.890+1	5.101+1	6.428+1
1930	1.289+1	-4.050+1	1.059+1	2.882+1	5.108+1	6.368+1
1940	1.290+1	-4.055+1	1.060+1	2.874+1	5.115+1	6.308+1
1950	1.290+1	-4.060+1	1.061+1	2.866+1	5.121+1	6.249+1
1960	1.291+1	-4.066+1	1.062+1	2.858+1	5.128+1	6.191+1
1970	1.291+1	-4.071+1	1.063+1	2.850+1	5.135+1	6.133+1
1980	1.292+1	-4.077+1	1.064+1	2.842+1	5.141+1	6.076+1
1990	1.292+1	-4.082+1	1.066+1	2.834+1	5.148+1	6.019+1
2000	1.293+1	-4.087+1	1.067+1	2.826+1	5.154+1	5.963+1
2010	1.293+1	-4.093+1	1.068+1	2.819+1	5.161+1	5.907+1
2020	1.294+1	-4.098+1	1.069+1	2.811+1	5.167+1	5.852+1
2030	1.294+1	-4.103+1	1.070+1	2.804+1	5.173+1	5.798+1
2040	1.295+1	-4.109+1	1.071+1	2.796+1	5.180+1	5.744+1
2050	1.295+1	-4.114+1	1.072+1	2.789+1	5.186+1	5.690+1
2060	1.296+1	-4.119+1	1.073+1	2.782+1	5.192+1	5.637+1
2070	1.296+1	-4.124+1	1.074+1	2.774+1	5.199+1	5.585+1
2080	1.297+1	-4.129+1	1.075+1	2.767+1	5.205+1	5.533+1
2090	1.297+1	-4.135+1	1.077+1	2.760+1	5.211+1	5.482+1
2100	1.298+1	-4.140+1	1.078+1	2.753+1	5.217+1	5.431+1
2110	1.298+1	-4.145+1	1.079+1	2.746+1	5.223+1	5.380+1
2120	1.299+1	-4.150+1	1.080+1	2.740+1	5.230+1	5.331+1
2130	1.299+1	-4.155+1	1.081+1	2.733+1	5.236+1	5.281+1
2140	1.299+1	-4.160+1	1.082+1	2.726+1	5.242+1	5.232+1
2150	1.300+1	-4.165+1	1.083+1	2.719+1	5.248+1	5.184+1
2160	1.300+1	-4.170+1	1.084+1	2.713+1	5.254+1	5.135+1
2170	1.301+1	-4.175+1	1.085+1	2.706+1	5.260+1	5.088+1
2180	1.301+1	-4.180+1	1.086+1	2.700+1	5.266+1	5.041+1
2190	1.302+1	-4.185+1	1.087+1	2.694+1	5.272+1	4.994+1
2200	1.302+1	-4.190+1	1.088+1	2.687+1	5.278+1	4.948+1
2210	1.302+1	-4.195+1	1.089+1	2.681+1	5.284+1	4.902+1
2220	1.303+1	-4.200+1	1.090+1	2.675+1	5.290+1	4.856+1
2230	1.303+1	-4.205+1	1.091+1	2.669+1	5.295+1	4.811+1
2240	1.304+1	-4.210+1	1.092+1	2.663+1	5.301+1	4.766+1
2250	1.304+1	-4.215+1	1.092+1	2.656+1	5.307+1	4.722+1
2260	1.304+1	-4.219+1	1.093+1	2.651+1	5.313+1	4.678+1
2270	1.305+1	-4.224+1	1.094+1	2.645+1	5.319+1	4.635+1
2280	1.305+1	-4.229+1	1.095+1	2.639+1	5.324+1	4.592+1
2290	1.305+1	-4.234+1	1.096+1	2.633+1	5.330+1	4.549+1

SPECIE C302

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2300	1.306+1	-4.239+1	1.097+1	2.627+1	5.336+1	4.507+1
2310	1.306+1	-4.243+1	1.098+1	2.621+1	5.341+1	4.465+1
2320	1.306+1	-4.248+1	1.099+1	2.616+1	5.347+1	4.423+1
2330	1.307+1	-4.253+1	1.100+1	2.610+1	5.353+1	4.382+1
2340	1.307+1	-4.258+1	1.101+1	2.605+1	5.358+1	4.341+1
2350	1.307+1	-4.262+1	1.102+1	2.599+1	5.364+1	4.300+1
2360	1.308+1	-4.267+1	1.102+1	2.594+1	5.369+1	4.260+1
2370	1.308+1	-4.272+1	1.103+1	2.588+1	5.375+1	4.220+1
2380	1.309+1	-4.276+1	1.104+1	2.583+1	5.380+1	4.181+1
2390	1.309+1	-4.281+1	1.105+1	2.577+1	5.386+1	4.141+1
2400	1.309+1	-4.285+1	1.106+1	2.572+1	5.391+1	4.102+1
2410	1.309+1	-4.290+1	1.107+1	2.567+1	5.397+1	4.064+1
2420	1.310+1	-4.295+1	1.108+1	2.562+1	5.402+1	4.026+1
2430	1.310+1	-4.299+1	1.108+1	2.557+1	5.408+1	3.988+1
2440	1.310+1	-4.304+1	1.109+1	2.551+1	5.413+1	3.950+1
2450	1.311+1	-4.308+1	1.110+1	2.546+1	5.418+1	3.913+1
2460	1.311+1	-4.313+1	1.111+1	2.541+1	5.424+1	3.876+1
2470	1.311+1	-4.317+1	1.112+1	2.536+1	5.429+1	3.839+1
2480	1.312+1	-4.322+1	1.112+1	2.531+1	5.434+1	3.803+1
2490	1.312+1	-4.326+1	1.113+1	2.527+1	5.440+1	3.767+1
2500	1.312+1	-4.331+1	1.114+1	2.522+1	5.445+1	3.731+1
2510	1.312+1	-4.335+1	1.115+1	2.517+1	5.450+1	3.695+1
2520	1.313+1	-4.340+1	1.116+1	2.512+1	5.455+1	3.660+1
2530	1.313+1	-4.344+1	1.116+1	2.507+1	5.461+1	3.625+1
2540	1.313+1	-4.349+1	1.117+1	2.503+1	5.466+1	3.590+1
2550	1.314+1	-4.353+1	1.118+1	2.498+1	5.471+1	3.556+1
2560	1.314+1	-4.357+1	1.119+1	2.493+1	5.476+1	3.522+1
2570	1.314+1	-4.362+1	1.119+1	2.489+1	5.481+1	3.488+1
2580	1.314+1	-4.366+1	1.120+1	2.484+1	5.486+1	3.454+1
2590	1.315+1	-4.370+1	1.121+1	2.480+1	5.491+1	3.421+1
2600	1.315+1	-4.375+1	1.122+1	2.475+1	5.496+1	3.388+1
2610	1.315+1	-4.379+1	1.122+1	2.471+1	5.501+1	3.355+1
2620	1.315+1	-4.383+1	1.123+1	2.466+1	5.506+1	3.322+1
2630	1.316+1	-4.388+1	1.124+1	2.462+1	5.511+1	3.290+1
2640	1.316+1	-4.392+1	1.125+1	2.458+1	5.516+1	3.258+1
2650	1.316+1	-4.396+1	1.125+1	2.453+1	5.521+1	3.226+1
2660	1.316+1	-4.400+1	1.126+1	2.449+1	5.526+1	3.194+1
2670	1.317+1	-4.405+1	1.127+1	2.445+1	5.531+1	3.163+1
2680	1.317+1	-4.409+1	1.128+1	2.441+1	5.536+1	3.132+1
2690	1.317+1	-4.413+1	1.128+1	2.436+1	5.541+1	3.101+1
2700	1.317+1	-4.417+1	1.129+1	2.432+1	5.546+1	3.070+1
2710	1.317+1	-4.421+1	1.130+1	2.428+1	5.551+1	3.040+1
2720	1.318+1	-4.425+1	1.130+1	2.424+1	5.556+1	3.009+1
2730	1.318+1	-4.430+1	1.131+1	2.420+1	5.561+1	2.979+1
2740	1.318+1	-4.434+1	1.132+1	2.416+1	5.565+1	2.950+1
2750	1.318+1	-4.438+1	1.132+1	2.412+1	5.570+1	2.920+1
2760	1.319+1	-4.442+1	1.133+1	2.408+1	5.575+1	2.891+1
2770	1.319+1	-4.446+1	1.134+1	2.404+1	5.580+1	2.862+1
2780	1.319+1	-4.450+1	1.134+1	2.400+1	5.585+1	2.833+1
2790	1.319+1	-4.454+1	1.135+1	2.396+1	5.589+1	2.804+1

SPECIE C302

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2800	1.319+1	-4.458+1	1.136+1	2.392+1	5.594+1	2.775+1
2810	1.320+1	-4.462+1	1.136+1	2.389+1	5.599+1	2.747+1
2820	1.320+1	-4.466+1	1.137+1	2.385+1	5.603+1	2.719+1
2830	1.320+1	-4.470+1	1.138+1	2.381+1	5.608+1	2.691+1
2840	1.320+1	-4.474+1	1.138+1	2.377+1	5.613+1	2.663+1
2850	1.320+1	-4.478+1	1.139+1	2.374+1	5.617+1	2.636+1
2860	1.321+1	-4.482+1	1.140+1	2.370+1	5.622+1	2.609+1
2870	1.321+1	-4.486+1	1.140+1	2.366+1	5.627+1	2.581+1
2880	1.321+1	-4.490+1	1.141+1	2.363+1	5.631+1	2.554+1
2890	1.321+1	-4.494+1	1.141+1	2.359+1	5.636+1	2.528+1
2900	1.321+1	-4.498+1	1.142+1	2.356+1	5.640+1	2.501+1
2910	1.322+1	-4.502+1	1.143+1	2.352+1	5.645+1	2.475+1
2920	1.322+1	-4.506+1	1.143+1	2.348+1	5.649+1	2.449+1
2930	1.322+1	-4.510+1	1.144+1	2.345+1	5.654+1	2.423+1
2940	1.322+1	-4.514+1	1.144+1	2.341+1	5.658+1	2.397+1
2950	1.322+1	-4.518+1	1.145+1	2.338+1	5.663+1	2.371+1
2960	1.323+1	-4.522+1	1.146+1	2.335+1	5.667+1	2.345+1
2970	1.323+1	-4.526+1	1.146+1	2.331+1	5.672+1	2.320+1
2980	1.323+1	-4.529+1	1.147+1	2.328+1	5.676+1	2.295+1
2990	1.323+1	-4.533+1	1.147+1	2.324+1	5.681+1	2.270+1
3000	1.323+1	-4.537+1	1.148+1	2.321+1	5.685+1	2.245+1
3010	1.323+1	-4.541+1	1.149+1	2.318+1	5.690+1	2.221+1
3020	1.324+1	-4.545+1	1.149+1	2.314+1	5.694+1	2.196+1
3030	1.324+1	-4.549+1	1.150+1	2.311+1	5.698+1	2.172+1
3040	1.324+1	-4.552+1	1.150+1	2.308+1	5.703+1	2.148+1
3050	1.324+1	-4.556+1	1.151+1	2.305+1	5.707+1	2.124+1
3060	1.324+1	-4.560+1	1.151+1	2.302+1	5.711+1	2.100+1
3070	1.324+1	-4.564+1	1.152+1	2.298+1	5.716+1	2.076+1
3080	1.325+1	-4.567+1	1.153+1	2.295+1	5.720+1	2.052+1
3090	1.325+1	-4.571+1	1.153+1	2.292+1	5.724+1	2.029+1
3100	1.325+1	-4.575+1	1.154+1	2.289+1	5.729+1	2.006+1
3110	1.325+1	-4.579+1	1.154+1	2.286+1	5.733+1	1.983+1
3120	1.325+1	-4.582+1	1.155+1	2.283+1	5.737+1	1.960+1
3130	1.325+1	-4.586+1	1.155+1	2.280+1	5.741+1	1.937+1
3140	1.325+1	-4.590+1	1.156+1	2.277+1	5.746+1	1.914+1
3150	1.326+1	-4.593+1	1.156+1	2.274+1	5.750+1	1.892+1
3160	1.326+1	-4.597+1	1.157+1	2.271+1	5.754+1	1.870+1
3170	1.326+1	-4.601+1	1.158+1	2.268+1	5.758+1	1.847+1
3180	1.326+1	-4.604+1	1.158+1	2.265+1	5.762+1	1.825+1
3190	1.326+1	-4.608+1	1.159+1	2.262+1	5.767+1	1.803+1
3200	1.326+1	-4.612+1	1.159+1	2.259+1	5.771+1	1.782+1
3210	1.326+1	-4.615+1	1.160+1	2.256+1	5.775+1	1.760+1
3220	1.327+1	-4.619+1	1.160+1	2.253+1	5.779+1	1.738+1
3230	1.327+1	-4.622+1	1.161+1	2.250+1	5.783+1	1.717+1
3240	1.327+1	-4.626+1	1.161+1	2.247+1	5.787+1	1.696+1
3250	1.327+1	-4.630+1	1.162+1	2.244+1	5.791+1	1.674+1
3260	1.327+1	-4.633+1	1.162+1	2.242+1	5.795+1	1.654+1
3270	1.327+1	-4.637+1	1.163+1	2.239+1	5.799+1	1.633+1
3280	1.327+1	-4.640+1	1.163+1	2.236+1	5.803+1	1.612+1
3290	1.328+1	-4.644+1	1.164+1	2.233+1	5.807+1	1.591+1

SPECIE C302

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3300	1.328+1	-4.647+1	1.164+1	2.231+1	5.811+1	1.571+1
3310	1.328+1	-4.651+1	1.165+1	2.228+1	5.816+1	1.550+1
3320	1.328+1	-4.654+1	1.165+1	2.225+1	5.820+1	1.530+1
3330	1.328+1	-4.658+1	1.166+1	2.222+1	5.824+1	1.510+1
3340	1.328+1	-4.661+1	1.166+1	2.220+1	5.827+1	1.490+1
3350	1.328+1	-4.665+1	1.167+1	2.217+1	5.831+1	1.470+1
3360	1.328+1	-4.668+1	1.167+1	2.214+1	5.835+1	1.450+1
3370	1.329+1	-4.672+1	1.168+1	2.212+1	5.839+1	1.431+1
3380	1.329+1	-4.675+1	1.168+1	2.209+1	5.843+1	1.411+1
3390	1.329+1	-4.679+1	1.169+1	2.207+1	5.847+1	1.392+1
3400	1.329+1	-4.682+1	1.169+1	2.204+1	5.851+1	1.372+1
3410	1.329+1	-4.686+1	1.169+1	2.201+1	5.855+1	1.353+1
3420	1.329+1	-4.689+1	1.170+1	2.199+1	5.859+1	1.334+1
3430	1.329+1	-4.692+1	1.170+1	2.196+1	5.863+1	1.315+1
3440	1.329+1	-4.696+1	1.171+1	2.194+1	5.867+1	1.296+1
3450	1.330+1	-4.699+1	1.171+1	2.191+1	5.871+1	1.278+1
3460	1.330+1	-4.703+1	1.172+1	2.189+1	5.874+1	1.259+1
3470	1.330+1	-4.706+1	1.172+1	2.186+1	5.878+1	1.241+1
3480	1.330+1	-4.709+1	1.173+1	2.184+1	5.882+1	1.222+1
3490	1.330+1	-4.713+1	1.173+1	2.181+1	5.886+1	1.204+1
3500	1.330+1	-4.716+1	1.174+1	2.179+1	5.890+1	1.186+1
3510	1.330+1	-4.719+1	1.174+1	2.177+1	5.893+1	1.168+1
3520	1.330+1	-4.723+1	1.174+1	2.174+1	5.897+1	1.150+1
3530	1.330+1	-4.726+1	1.175+1	2.172+1	5.901+1	1.132+1
3540	1.331+1	-4.729+1	1.175+1	2.169+1	5.905+1	1.114+1
3550	1.331+1	-4.733+1	1.176+1	2.167+1	5.909+1	1.096+1
3560	1.331+1	-4.736+1	1.176+1	2.165+1	5.912+1	1.079+1
3570	1.331+1	-4.739+1	1.177+1	2.162+1	5.916+1	1.061+1
3580	1.331+1	-4.743+1	1.177+1	2.160+1	5.920+1	1.044+1
3590	1.331+1	-4.746+1	1.178+1	2.158+1	5.923+1	1.026+1
3600	1.331+1	-4.749+1	1.178+1	2.155+1	5.927+1	1.009+1
3610	1.331+1	-4.752+1	1.178+1	2.153+1	5.931+1	9.921
3620	1.331+1	-4.756+1	1.179+1	2.151+1	5.935+1	9.751
3630	1.331+1	-4.759+1	1.179+1	2.149+1	5.938+1	9.581
3640	1.332+1	-4.762+1	1.180+1	2.146+1	5.942+1	9.413
3650	1.332+1	-4.765+1	1.180+1	2.144+1	5.946+1	9.246
3660	1.332+1	-4.769+1	1.180+1	2.142+1	5.949+1	9.079
3670	1.332+1	-4.772+1	1.181+1	2.140+1	5.953+1	8.914
3680	1.332+1	-4.775+1	1.181+1	2.138+1	5.956+1	8.749
3690	1.332+1	-4.778+1	1.182+1	2.135+1	5.960+1	8.586
3700	1.332+1	-4.782+1	1.182+1	2.133+1	5.964+1	8.423
3710	1.332+1	-4.785+1	1.183+1	2.131+1	5.967+1	8.261
3720	1.332+1	-4.788+1	1.183+1	2.129+1	5.971+1	8.100
3730	1.332+1	-4.791+1	1.183+1	2.127+1	5.974+1	7.940
3740	1.332+1	-4.794+1	1.184+1	2.125+1	5.978+1	7.781
3750	1.333+1	-4.797+1	1.184+1	2.123+1	5.982+1	7.622
3760	1.333+1	-4.801+1	1.185+1	2.120+1	5.985+1	7.465
3770	1.333+1	-4.804+1	1.185+1	2.118+1	5.989+1	7.308
3780	1.333+1	-4.807+1	1.185+1	2.116+1	5.992+1	7.152
3790	1.333+1	-4.810+1	1.186+1	2.114+1	5.996+1	6.997

SPECIE C302

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3800	1.333+1	-4.813+1	1.186+1	2.112+1	5.999+1	
3810	1.333+1	-4.816+1	1.186+1	2.110+1	6.003+1	6.842
3820	1.333+1	-4.819+1	1.187+1	2.108+1	6.006+1	6.689
3830	1.333+1	-4.822+1	1.187+1	2.106+1	6.010+1	6.536
3840	1.333+1	-4.826+1	1.188+1	2.104+1	6.013+1	6.384
						6.233
3850	1.333+1	-4.829+1	1.188+1	2.102+1	6.017+1	6.083
3860	1.334+1	-4.832+1	1.188+1	2.100+1	6.020+1	5.933
3870	1.334+1	-4.835+1	1.189+1	2.098+1	6.024+1	5.785
3880	1.334+1	-4.838+1	1.189+1	2.096+1	6.027+1	5.637
3890	1.334+1	-4.841+1	1.189+1	2.094+1	6.030+1	5.489
3900	1.334+1	-4.844+1	1.190+1	2.092+1	6.034+1	5.343
3910	1.334+1	-4.847+1	1.190+1	2.090+1	6.037+1	5.197
3920	1.334+1	-4.850+1	1.191+1	2.088+1	6.041+1	5.052
3930	1.334+1	-4.853+1	1.191+1	2.086+1	6.044+1	4.908
3940	1.334+1	-4.856+1	1.191+1	2.084+1	6.047+1	4.764
3950	1.334+1	-4.859+1	1.192+1	2.083+1	6.051+1	4.622
3960	1.334+1	-4.862+1	1.192+1	2.081+1	6.054+1	4.479
3970	1.334+1	-4.865+1	1.192+1	2.079+1	6.058+1	4.338
3980	1.335+1	-4.868+1	1.193+1	2.077+1	6.061+1	4.197
3990	1.335+1	-4.871+1	1.193+1	2.075+1	6.064+1	4.058
4000	1.335+1	-4.874+1	1.193+1	2.073+1	6.068+1	3.918
4010	1.335+1	-4.877+1	1.194+1	2.071+1	6.071+1	3.780
4020	1.335+1	-4.880+1	1.194+1	2.070+1	6.074+1	3.642
4030	1.335+1	-4.883+1	1.195+1	2.068+1	6.078+1	3.505
4040	1.335+1	-4.886+1	1.195+1	2.066+1	6.081+1	3.368
4050	1.335+1	-4.889+1	1.195+1	2.064+1	6.084+1	3.232
4060	1.335+1	-4.892+1	1.196+1	2.062+1	6.087+1	3.097
4070	1.335+1	-4.895+1	1.196+1	2.061+1	6.091+1	2.963
4080	1.335+1	-4.898+1	1.196+1	2.059+1	6.094+1	2.829
4090	1.335+1	-4.901+1	1.197+1	2.057+1	6.097+1	2.696
4100	1.335+1	-4.904+1	1.197+1	2.055+1	6.101+1	2.563
4110	1.335+1	-4.907+1	1.197+1	2.053+1	6.104+1	2.431
4120	1.336+1	-4.909+1	1.198+1	2.052+1	6.107+1	2.300
4130	1.336+1	-4.912+1	1.198+1	2.050+1	6.110+1	2.170
4140	1.336+1	-4.915+1	1.198+1	2.048+1	6.114+1	2.040
4150	1.336+1	-4.918+1	1.199+1	2.047+1	6.117+1	1.911
4160	1.336+1	-4.921+1	1.199+1	2.045+1	6.120+1	1.782
4170	1.336+1	-4.924+1	1.199+1	2.043+1	6.123+1	1.654
4180	1.336+1	-4.927+1	1.200+1	2.041+1	6.126+1	1.526
4190	1.336+1	-4.930+1	1.200+1	2.040+1	6.130+1	1.400
4200	1.336+1	-4.933+1	1.200+1	2.038+1	6.133+1	1.273
4210	1.336+1	-4.935+1	1.201+1	2.036+1	6.136+1	1.148
4220	1.336+1	-4.938+1	1.201+1	2.035+1	6.139+1	1.023
4230	1.336+1	-4.941+1	1.201+1	2.033+1	6.142+1	8.985-1
4240	1.336+1	-4.944+1	1.202+1	2.031+1	6.145+1	7.747-1
4250	1.336+1	-4.947+1	1.202+1	2.030+1	6.149+1	6.514-1
4260	1.336+1	-4.950+1	1.202+1	2.028+1	6.152+1	5.288-1
4270	1.336+1	-4.952+1	1.202+1	2.027+1	6.155+1	4.067-1
4280	1.337+1	-4.955+1	1.203+1	2.025+1	6.158+1	2.852-1
4290	1.337+1	-4.958+1	1.203+1	2.023+1	6.161+1	1.643-1

SPECIE C302

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4300	1.337+1	-4.961+1	1.203+1	2.022+1	6.164+1	4.387-2
4310	1.337+1	-4.964+1	1.204+1	2.020+1	6.167+1	-7.684-2
4320	1.337+1	-4.966+1	1.204+1	2.019+1	6.170+1	-1.954-1
4330	1.337+1	-4.969+1	1.204+1	2.017+1	6.173+1	-3.142-1
4340	1.337+1	-4.972+1	1.205+1	2.015+1	6.177+1	-4.325-1
4350	1.337+1	-4.975+1	1.205+1	2.014+1	6.180+1	-5.502-1
4360	1.337+1	-4.978+1	1.205+1	2.012+1	6.183+1	-5.674-1
4370	1.337+1	-4.980+1	1.206+1	2.011+1	6.186+1	-7.840-1
4380	1.337+1	-4.983+1	1.206+1	2.009+1	6.189+1	-9.001-1
4390	1.337+1	-4.986+1	1.206+1	2.008+1	6.192+1	-1.016
4400	1.337+1	-4.989+1	1.206+1	2.006+1	6.195+1	-1.131
4410	1.337+1	-4.991+1	1.207+1	2.005+1	6.198+1	-1.245
4420	1.337+1	-4.994+1	1.207+1	2.003+1	6.201+1	-1.359
4430	1.337+1	-4.997+1	1.207+1	2.002+1	6.204+1	-1.473
4440	1.337+1	-4.999+1	1.208+1	2.000+1	6.207+1	-1.585
4450	1.338+1	-5.002+1	1.208+1	1.999+1	6.210+1	-1.698
4460	1.338+1	-5.005+1	1.208+1	1.997+1	6.213+1	-1.810
4470	1.338+1	-5.008+1	1.208+1	1.996+1	6.216+1	-1.921
4480	1.338+1	-5.010+1	1.209+1	1.994+1	6.219+1	-2.032
4490	1.338+1	-5.013+1	1.209+1	1.993+1	6.222+1	-2.142
4500	1.338+1	-5.016+1	1.209+1	1.991+1	6.225+1	-2.252
4510	1.338+1	-5.018+1	1.210+1	1.990+1	6.228+1	-2.362
4520	1.338+1	-5.021+1	1.210+1	1.988+1	6.231+1	-2.471
4530	1.338+1	-5.024+1	1.210+1	1.987+1	6.234+1	-2.579
4540	1.338+1	-5.026+1	1.210+1	1.986+1	6.237+1	-2.687
4550	1.338+1	-5.029+1	1.211+1	1.984+1	6.240+1	-2.795
4560	1.338+1	-5.032+1	1.211+1	1.983+1	6.243+1	-2.902
4570	1.338+1	-5.034+1	1.211+1	1.981+1	6.246+1	-3.009
4580	1.338+1	-5.037+1	1.212+1	1.980+1	6.249+1	-3.115
4590	1.338+1	-5.040+1	1.212+1	1.979+1	6.251+1	-3.220
4600	1.338+1	-5.042+1	1.212+1	1.977+1	6.254+1	-3.326
4610	1.338+1	-5.045+1	1.212+1	1.976+1	6.257+1	-3.430
4620	1.338+1	-5.048+1	1.213+1	1.974+1	6.260+1	-3.535
4630	1.338+1	-5.050+1	1.213+1	1.973+1	6.263+1	-3.638
4640	1.339+1	-5.053+1	1.213+1	1.972+1	6.266+1	-3.742
4650	1.339+1	-5.055+1	1.214+1	1.970+1	6.269+1	-3.844
4660	1.339+1	-5.058+1	1.214+1	1.969+1	6.272+1	-3.947
4670	1.339+1	-5.061+1	1.214+1	1.968+1	6.275+1	-4.049
4680	1.339+1	-5.063+1	1.214+1	1.966+1	6.277+1	-4.150
4690	1.339+1	-5.066+1	1.215+1	1.965+1	6.280+1	-4.251
4700	1.339+1	-5.068+1	1.215+1	1.964+1	6.283+1	-4.352
4710	1.339+1	-5.071+1	1.215+1	1.962+1	6.286+1	-4.452
4720	1.339+1	-5.074+1	1.215+1	1.961+1	6.289+1	-4.552
4730	1.339+1	-5.076+1	1.216+1	1.960+1	6.292+1	-4.652
4740	1.339+1	-5.079+1	1.216+1	1.958+1	6.295+1	-4.751
4750	1.339+1	-5.081+1	1.216+1	1.957+1	6.297+1	-4.849
4760	1.339+1	-5.084+1	1.216+1	1.956+1	6.300+1	-4.947
4770	1.339+1	-5.086+1	1.217+1	1.954+1	6.303+1	-5.045
4780	1.339+1	-5.089+1	1.217+1	1.953+1	6.306+1	-5.143
4790	1.339+1	-5.091+1	1.217+1	1.952+1	6.309+1	-5.240

SPECIE C302

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4800	1.339+1	-5.094+1	1.217+1	1.951+1	6.311+1	-5.336
4810	1.339+1	-5.096+1	1.218+1	1.949+1	6.314+1	-5.432
4820	1.339+1	-5.099+1	1.218+1	1.948+1	6.317+1	-5.528
4830	1.339+1	-5.102+1	1.218+1	1.947+1	6.320+1	-5.623
4840	1.339+1	-5.104+1	1.218+1	1.945+1	6.323+1	-5.718
4850	1.339+1	-5.107+1	1.219+1	1.944+1	6.325+1	-5.813
4860	1.340+1	-5.109+1	1.219+1	1.943+1	6.328+1	-5.907
4870	1.340+1	-5.112+1	1.219+1	1.942+1	6.331+1	-6.001
4880	1.340+1	-5.114+1	1.219+1	1.941+1	6.334+1	-6.094
4890	1.340+1	-5.117+1	1.220+1	1.939+1	6.336+1	-6.187
4900	1.340+1	-5.119+1	1.220+1	1.938+1	6.339+1	-6.280
4910	1.340+1	-5.122+1	1.220+1	1.937+1	6.342+1	-6.372
4920	1.340+1	-5.124+1	1.220+1	1.936+1	6.344+1	-6.464
4930	1.340+1	-5.127+1	1.221+1	1.934+1	6.347+1	-6.556
4940	1.340+1	-5.129+1	1.221+1	1.933+1	6.350+1	-6.647
4950	1.340+1	-5.132+1	1.221+1	1.932+1	6.353+1	-6.738
4960	1.340+1	-5.134+1	1.221+1	1.931+1	6.355+1	-6.829
4970	1.340+1	-5.136+1	1.222+1	1.930+1	6.358+1	-6.919
4980	1.340+1	-5.139+1	1.222+1	1.928+1	6.361+1	-7.009
4990	1.340+1	-5.141+1	1.222+1	1.927+1	6.363+1	-7.098
5000	1.340+1	-5.144+1	1.222+1	1.926+1	6.366+1	-7.188
5010	1.340+1	-5.146+1	1.223+1	1.925+1	6.369+1	-7.276
5020	1.340+1	-5.149+1	1.223+1	1.924+1	6.371+1	-7.365
5030	1.340+1	-5.151+1	1.223+1	1.923+1	6.374+1	-7.453
5040	1.340+1	-5.154+1	1.223+1	1.921+1	6.377+1	-7.540
5050	1.340+1	-5.156+1	1.223+1	1.920+1	6.379+1	-7.627
5060	1.340+1	-5.158+1	1.224+1	1.919+1	6.382+1	-7.714
5070	1.340+1	-5.161+1	1.224+1	1.918+1	6.385+1	-7.801
5080	1.340+1	-5.163+1	1.224+1	1.917+1	6.387+1	-7.887
5090	1.340+1	-5.166+1	1.224+1	1.916+1	6.390+1	-7.973
5100	1.340+1	-5.168+1	1.225+1	1.915+1	6.393+1	-8.058
5110	1.341+1	-5.170+1	1.225+1	1.914+1	6.395+1	-8.143
5120	1.341+1	-5.173+1	1.225+1	1.912+1	6.398+1	-8.228
5130	1.341+1	-5.175+1	1.225+1	1.911+1	6.400+1	-8.312
5140	1.341+1	-5.178+1	1.226+1	1.910+1	6.403+1	-8.397
5150	1.341+1	-5.180+1	1.226+1	1.909+1	6.406+1	-8.480
5160	1.341+1	-5.182+1	1.226+1	1.908+1	6.408+1	-8.564
5170	1.341+1	-5.185+1	1.226+1	1.907+1	6.411+1	-8.647
5180	1.341+1	-5.187+1	1.226+1	1.906+1	6.413+1	-8.730
5190	1.341+1	-5.189+1	1.227+1	1.905+1	6.416+1	-8.813
5200	1.341+1	-5.192+1	1.227+1	1.904+1	6.419+1	-8.895
5210	1.341+1	-5.194+1	1.227+1	1.903+1	6.421+1	-8.977
5220	1.341+1	-5.197+1	1.227+1	1.901+1	6.424+1	-9.059
5230	1.341+1	-5.199+1	1.228+1	1.900+1	6.426+1	-9.140
5240	1.341+1	-5.201+1	1.228+1	1.899+1	6.429+1	-9.221
5250	1.341+1	-5.204+1	1.228+1	1.898+1	6.431+1	-9.302
5260	1.341+1	-5.206+1	1.228+1	1.897+1	6.434+1	-9.383
5270	1.341+1	-5.208+1	1.228+1	1.896+1	6.437+1	-9.463
5280	1.341+1	-5.211+1	1.229+1	1.895+1	6.439+1	-9.543
5290	1.341+1	-5.213+1	1.229+1	1.894+1	6.442+1	-9.622

SPECIE C302

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5300	1.341+1	-5.215+1	1.229+1	1.893+1	6.444+1	-9.702
5310	1.341+1	-5.217+1	1.229+1	1.892+1	6.447+1	-9.781
5320	1.341+1	-5.220+1	1.229+1	1.891+1	6.449+1	-9.859
5330	1.341+1	-5.222+1	1.230+1	1.890+1	6.452+1	-9.937
5340	1.341+1	-5.224+1	1.230+1	1.889+1	6.454+1	-1.001+1
5350	1.341+1	-5.227+1	1.230+1	1.888+1	6.457+1	-1.009+1
5360	1.341+1	-5.229+1	1.230+1	1.887+1	6.459+1	-1.017+1
5370	1.341+1	-5.231+1	1.230+1	1.886+1	6.462+1	-1.025+1
5380	1.341+1	-5.234+1	1.231+1	1.885+1	6.464+1	-1.032+1
5390	1.341+1	-5.236+1	1.231+1	1.884+1	6.467+1	-1.040+1
5400	1.341+1	-5.238+1	1.231+1	1.883+1	6.469+1	-1.048+1
5410	1.342+1	-5.240+1	1.231+1	1.882+1	6.472+1	-1.055+1
5420	1.342+1	-5.243+1	1.232+1	1.881+1	6.474+1	-1.063+1
5430	1.342+1	-5.245+1	1.232+1	1.880+1	6.477+1	-1.070+1
5440	1.342+1	-5.247+1	1.232+1	1.879+1	6.479+1	-1.078+1
5450	1.342+1	-5.250+1	1.232+1	1.878+1	6.482+1	-1.085+1
5460	1.342+1	-5.252+1	1.232+1	1.877+1	6.484+1	-1.093+1
5470	1.342+1	-5.254+1	1.233+1	1.876+1	6.487+1	-1.100+1
5480	1.342+1	-5.256+1	1.233+1	1.875+1	6.489+1	-1.108+1
5490	1.342+1	-5.259+1	1.233+1	1.874+1	6.491+1	-1.115+1
5500	1.342+1	-5.261+1	1.233+1	1.873+1	6.494+1	-1.122+1
5510	1.342+1	-5.263+1	1.233+1	1.872+1	6.496+1	-1.130+1
5520	1.342+1	-5.265+1	1.233+1	1.871+1	6.499+1	-1.137+1
5530	1.342+1	-5.267+1	1.234+1	1.870+1	6.501+1	-1.144+1
5540	1.342+1	-5.270+1	1.234+1	1.869+1	6.504+1	-1.152+1
5550	1.342+1	-5.272+1	1.234+1	1.868+1	6.506+1	-1.159+1
5560	1.342+1	-5.274+1	1.234+1	1.867+1	6.508+1	-1.166+1
5570	1.342+1	-5.276+1	1.234+1	1.866+1	6.511+1	-1.173+1
5580	1.342+1	-5.279+1	1.235+1	1.865+1	6.513+1	-1.180+1
5590	1.342+1	-5.281+1	1.235+1	1.864+1	6.516+1	-1.187+1
5600	1.342+1	-5.283+1	1.235+1	1.863+1	6.518+1	-1.195+1
5610	1.342+1	-5.285+1	1.235+1	1.863+1	6.520+1	-1.202+1
5620	1.342+1	-5.287+1	1.235+1	1.862+1	6.523+1	-1.209+1
5630	1.342+1	-5.290+1	1.236+1	1.861+1	6.525+1	-1.216+1
5640	1.342+1	-5.292+1	1.236+1	1.860+1	6.528+1	-1.223+1
5650	1.342+1	-5.294+1	1.236+1	1.859+1	6.530+1	-1.230+1
5660	1.342+1	-5.296+1	1.236+1	1.858+1	6.532+1	-1.237+1
5670	1.342+1	-5.298+1	1.236+1	1.857+1	6.535+1	-1.244+1
5680	1.342+1	-5.301+1	1.237+1	1.856+1	6.537+1	-1.250+1
5690	1.342+1	-5.303+1	1.237+1	1.855+1	6.539+1	-1.257+1
5700	1.342+1	-5.305+1	1.237+1	1.854+1	6.542+1	-1.264+1
5710	1.342+1	-5.307+1	1.237+1	1.853+1	6.544+1	-1.271+1
5720	1.342+1	-5.309+1	1.237+1	1.853+1	6.547+1	-1.278+1
5730	1.342+1	-5.311+1	1.237+1	1.852+1	6.549+1	-1.284+1
5740	1.342+1	-5.314+1	1.238+1	1.851+1	6.551+1	-1.291+1
5750	1.342+1	-5.316+1	1.238+1	1.850+1	6.554+1	-1.298+1
5760	1.343+1	-5.318+1	1.238+1	1.849+1	6.556+1	-1.305+1
5770	1.343+1	-5.320+1	1.238+1	1.848+1	6.558+1	-1.311+1
5780	1.343+1	-5.322+1	1.238+1	1.847+1	6.561+1	-1.318+1
5790	1.343+1	-5.324+1	1.239+1	1.846+1	6.563+1	-1.325+1

SPECIE C302

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5800	1.343+1	-5.326+1	1.239+1	1.845+1	6.565+1	-1.331+1
5810	1.343+1	-5.329+1	1.239+1	1.845+1	6.568+1	-1.338+1
5820	1.343+1	-5.331+1	1.239+1	1.844+1	6.570+1	-1.344+1
5830	1.343+1	-5.333+1	1.239+1	1.843+1	6.572+1	-1.351+1
5840	1.343+1	-5.335+1	1.239+1	1.842+1	6.574+1	-1.357+1
5850	1.343+1	-5.337+1	1.240+1	1.841+1	6.577+1	-1.364+1
5860	1.343+1	-5.339+1	1.240+1	1.840+1	6.579+1	-1.370+1
5870	1.343+1	-5.341+1	1.240+1	1.839+1	6.581+1	-1.377+1
5880	1.343+1	-5.343+1	1.240+1	1.839+1	6.584+1	-1.383+1
5890	1.343+1	-5.346+1	1.240+1	1.838+1	6.586+1	-1.390+1
5900	1.343+1	-5.348+1	1.241+1	1.837+1	6.588+1	-1.396+1
5910	1.343+1	-5.350+1	1.241+1	1.836+1	6.590+1	-1.402+1
5920	1.343+1	-5.352+1	1.241+1	1.835+1	6.593+1	-1.409+1
5930	1.343+1	-5.354+1	1.241+1	1.834+1	6.595+1	-1.415+1
5940	1.343+1	-5.356+1	1.241+1	1.834+1	6.597+1	-1.421+1
5950	1.343+1	-5.358+1	1.241+1	1.833+1	6.599+1	-1.428+1
5960	1.343+1	-5.360+1	1.242+1	1.832+1	6.602+1	-1.434+1
5970	1.343+1	-5.362+1	1.242+1	1.831+1	6.604+1	-1.440+1
5980	1.343+1	-5.364+1	1.242+1	1.830+1	6.606+1	-1.447+1
5990	1.343+1	-5.366+1	1.242+1	1.830+1	6.608+1	-1.453+1
6000	1.343+1	-5.368+1	1.242+1	1.829+1	6.611+1	-1.459+1

SPECIE COH2
MOLECULAR WEIGHT EQUALS 30.0274
DELTA E ZERO EQUALS -26.781 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(NBS 500, 2/1/52) (10)

THERMAL

(J. S. GORDON, RMD 210-E3, 1/60) (5)

SPECIE COM2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	3.145	-1.927+1	3.497	-1.313+2	2.276+1	8.776+2
110	3.182	-1.946+1	3.508	-1.210+2	2.297+1	8.017+2
120	3.224	-1.964+1	3.525	-1.116+2	2.317+1	8.329+2
130	3.271	-1.982+1	3.546	-1.032+2	2.337+1	7.707+2
140	3.322	-1.999+1	3.570	-9.558+1	2.357+1	7.145+2
150	3.376	-2.016+1	3.598	-8.870+1	2.376+1	6.639+2
160	3.432	-2.032+1	3.628	-8.253+1	2.395+1	6.185+2
170	3.491	-2.048+1	3.660	-7.698+1	2.414+1	5.778+2
180	3.551	-2.063+1	3.693	-7.202+1	2.433+1	5.413+2
190	3.612	-2.078+1	3.727	-6.758+1	2.451+1	5.087+2
200	3.673	-2.093+1	3.761	-6.362+1	2.469+1	4.797+2
210	3.735	-2.108+1	3.789	-6.009+1	2.487+1	4.537+2
220	3.797	-2.122+1	3.829	-5.694+1	2.504+1	4.306+2
230	3.858	-2.136+1	3.861	-5.412+1	2.522+1	4.100+2
240	3.919	-2.150+1	3.892	-5.161+1	2.538+1	3.916+2
250	3.978	-2.163+1	3.922	-4.935+1	2.555+1	3.751+2
260	4.036	-2.176+1	3.950	-4.733+1	2.571+1	3.603+2
270	4.093	-2.190+1	3.977	-4.549+1	2.587+1	3.469+2
280	4.148	-2.203+1	4.001	-4.383+1	2.602+1	3.346+2
290	4.202	-2.215+1	4.014	-4.230+1	2.618+1	3.234+2
300	4.254	-2.228+1	4.043	-4.088+1	2.632+1	3.130+2
310	4.299	-2.241+1	4.056	-3.938+1	2.646+1	3.020+2
320	4.343	-2.253+1	4.067	-3.799+1	2.660+1	2.918+2
330	4.387	-2.265+1	4.078	-3.669+1	2.673+1	2.822+2
340	4.431	-2.277+1	4.088	-3.547+1	2.687+1	2.732+2
350	4.475	-2.289+1	4.097	-3.433+1	2.699+1	2.648+2
360	4.519	-2.301+1	4.107	-3.326+1	2.712+1	2.569+2
370	4.564	-2.313+1	4.117	-3.225+1	2.724+1	2.494+2
380	4.610	-2.324+1	4.127	-3.130+1	2.737+1	2.424+2
390	4.657	-2.335+1	4.138	-3.040+1	2.749+1	2.358+2
400	4.705	-2.346+1	4.149	-2.954+1	2.760+1	2.295+2
410	4.753	-2.356+1	4.163	-2.873+1	2.772+1	2.235+2
420	4.804	-2.366+1	4.178	-2.795+1	2.784+1	2.178+2
430	4.855	-2.376+1	4.188	-2.720+1	2.795+1	2.123+2
440	4.907	-2.386+1	4.203	-2.648+1	2.806+1	2.070+2
450	4.961	-2.395+1	4.219	-2.579+1	2.817+1	2.020+2
460	5.016	-2.405+1	4.236	-2.512+1	2.828+1	1.971+2
470	5.071	-2.414+1	4.254	-2.447+1	2.839+1	1.924+2
480	5.128	-2.423+1	4.273	-2.384+1	2.850+1	1.878+2
490	5.185	-2.431+1	4.295	-2.323+1	2.861+1	1.834+2
500	5.242	-2.440+1	4.313	-2.264+1	2.871+1	1.792+2
510	5.296	-2.448+1	4.332	-2.210+1	2.882+1	1.752+2
520	5.349	-2.457+1	4.351	-2.157+1	2.892+1	1.715+2
530	5.403	-2.465+1	4.370	-2.107+1	2.902+1	1.678+2
540	5.456	-2.473+1	4.390	-2.058+1	2.912+1	1.643+2
550	5.510	-2.482+1	4.410	-2.011+1	2.923+1	1.609+2
560	5.563	-2.489+1	4.430	-1.965+1	2.932+1	1.577+2
570	5.617	-2.497+1	4.451	-1.920+1	2.942+1	1.545+2
580	5.670	-2.505+1	4.471	-1.877+1	2.952+1	1.514+2
590	5.723	-2.513+1	4.492	-1.835+1	2.962+1	1.484+2

SPECIE COH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	5.776	-2.520+1	4.513	-1.795+1	2.972+1	1.455+2
610	5.828	-2.528+1	4.534	-1.756+1	2.981+1	1.428+2
620	5.879	-2.535+1	4.555	-1.718+1	2.991+1	1.401+2
630	5.929	-2.542+1	4.577	-1.682+1	3.000+1	1.375+2
640	5.979	-2.550+1	4.598	-1.646+1	3.010+1	1.350+2
650	6.029	-2.557+1	4.620	-1.612+1	3.019+1	1.326+2
660	6.078	-2.564+1	4.642	-1.578+1	3.028+1	1.303+2
670	6.126	-2.571+1	4.663	-1.545+1	3.037+1	1.280+2
680	6.175	-2.578+1	4.685	-1.514+1	3.046+1	1.257+2
690	6.222	-2.585+1	4.707	-1.483+1	3.055+1	1.236+2
700	6.269	-2.591+1	4.729	-1.452+1	3.064+1	1.215+2
710	6.316	-2.598+1	4.751	-1.423+1	3.073+1	1.194+2
720	6.362	-2.605+1	4.773	-1.395+1	3.082+1	1.174+2
730	6.407	-2.611+1	4.795	-1.367+1	3.091+1	1.155+2
740	6.452	-2.618+1	4.817	-1.340+1	3.100+1	1.137+2
750	6.496	-2.624+1	4.839	-1.313+1	3.108+1	1.118+2
760	6.540	-2.631+1	4.861	-1.287+1	3.117+1	1.101+2
770	6.584	-2.637+1	4.883	-1.262+1	3.126+1	1.083+2
780	6.626	-2.644+1	4.906	-1.237+1	3.134+1	1.066+2
790	6.669	-2.650+1	4.928	-1.213+1	3.143+1	1.050+2
800	6.710	-2.656+1	4.950	-1.190+1	3.151+1	1.034+2
810	6.751	-2.662+1	4.972	-1.167+1	3.159+1	1.018+2
820	6.792	-2.668+1	4.994	-1.144+1	3.168+1	1.003+2
830	6.832	-2.674+1	5.016	-1.122+1	3.176+1	9.880+1
840	6.871	-2.680+1	5.037	-1.101+1	3.184+1	9.735+1
850	6.910	-2.686+1	5.059	-1.080+1	3.192+1	9.593+1
860	6.949	-2.692+1	5.081	-1.059+1	3.200+1	9.454+1
870	6.987	-2.698+1	5.103	-1.039+1	3.208+1	9.318+1
880	7.024	-2.704+1	5.124	-1.019+1	3.216+1	9.186+1
890	7.061	-2.710+1	5.146	-9.997	3.224+1	9.056+1
900	7.098	-2.716+1	5.168	-9.807	3.232+1	8.929+1
910	7.134	-2.721+1	5.189	-9.620	3.240+1	8.805+1
920	7.169	-2.727+1	5.210	-9.439	3.248+1	8.684+1
930	7.204	-2.733+1	5.232	-9.260	3.256+1	8.566+1
940	7.238	-2.738+1	5.253	-9.085	3.264+1	8.450+1
950	7.272	-2.744+1	5.274	-8.913	3.271+1	8.336+1
960	7.306	-2.749+1	5.295	-8.744	3.279+1	8.225+1
970	7.339	-2.755+1	5.316	-8.578	3.286+1	8.116+1
980	7.371	-2.760+1	5.336	-8.415	3.294+1	8.009+1
990	7.403	-2.766+1	5.357	-8.256	3.301+1	7.904+1
1000	7.435	-2.771+1	5.378	-8.099	3.309+1	7.801+1
1010	7.466	-2.777+1	5.398	-7.945	3.316+1	7.701+1
1020	7.497	-2.782+1	5.419	-7.794	3.324+1	7.602+1
1030	7.527	-2.787+1	5.439	-7.645	3.331+1	7.505+1
1040	7.557	-2.792+1	5.459	-7.499	3.338+1	7.411+1
1050	7.586	-2.798+1	5.479	-7.356	3.346+1	7.318+1
1060	7.615	-2.803+1	5.500	-7.215	3.353+1	7.226+1
1070	7.643	-2.808+1	5.519	-7.076	3.360+1	7.137+1
1080	7.671	-2.813+1	5.539	-6.939	3.367+1	7.049+1
1090	7.699	-2.818+1	5.559	-6.805	3.374+1	6.962+1

SPECIE COH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	7.726	-2.823+1	5.578	-6.673	3.381+1	6.877+1
1110	7.753	-2.828+1	5.598	-6.543	3.388+1	6.794+1
1120	7.780	-2.833+1	5.617	-6.416	3.395+1	6.712+1
1130	7.806	-2.838+1	5.636	-6.290	3.402+1	6.632+1
1140	7.832	-2.843+1	5.656	-6.166	3.409+1	6.553+1
1150	7.857	-2.848+1	5.675	-6.044	3.416+1	6.476+1
1160	7.882	-2.853+1	5.693	-5.924	3.423+1	6.399+1
1170	7.907	-2.858+1	5.712	-5.806	3.429+1	6.324+1
1180	7.931	-2.863+1	5.731	-5.690	3.436+1	6.251+1
1190	7.955	-2.868+1	5.750	-5.576	3.443+1	6.178+1
1200	7.978	-2.873+1	5.768	-5.463	3.449+1	6.107+1
1210	8.002	-2.878+1	5.786	-5.351	3.456+1	6.037+1
1220	8.024	-2.882+1	5.805	-5.242	3.463+1	5.968+1
1230	8.047	-2.887+1	5.823	-5.134	3.469+1	5.901+1
1240	8.069	-2.892+1	5.841	-5.028	3.476+1	5.834+1
1250	8.091	-2.896+1	5.859	-4.923	3.482+1	5.768+1
1260	8.112	-2.901+1	5.876	-4.819	3.489+1	5.704+1
1270	8.133	-2.906+1	5.894	-4.717	3.495+1	5.640+1
1280	8.154	-2.910+1	5.912	-4.617	3.502+1	5.578+1
1290	8.175	-2.915+1	5.929	-4.518	3.508+1	5.516+1
1300	8.195	-2.920+1	5.947	-4.420	3.514+1	5.455+1
1310	8.215	-2.924+1	5.964	-4.324	3.521+1	5.395+1
1320	8.235	-2.929+1	5.981	-4.228	3.527+1	5.337+1
1330	8.254	-2.933+1	5.998	-4.135	3.533+1	5.279+1
1340	8.274	-2.938+1	6.015	-4.042	3.539+1	5.222+1
1350	8.292	-2.942+1	6.032	-3.951	3.545+1	5.165+1
1360	8.311	-2.947+1	6.049	-3.861	3.552+1	5.110+1
1370	8.329	-2.951+1	6.065	-3.772	3.558+1	5.055+1
1380	8.347	-2.956+1	6.082	-3.684	3.564+1	5.002+1
1390	8.365	-2.960+1	6.098	-3.597	3.570+1	4.948+1
1400	8.383	-2.964+1	6.114	-3.512	3.576+1	4.896+1
1410	8.400	-2.969+1	6.130	-3.428	3.582+1	4.845+1
1420	8.417	-2.973+1	6.146	-3.344	3.588+1	4.794+1
1430	8.434	-2.977+1	6.162	-3.262	3.594+1	4.744+1
1440	8.451	-2.982+1	6.178	-3.181	3.599+1	4.694+1
1450	8.467	-2.986+1	6.194	-3.100	3.605+1	4.646+1
1460	8.483	-2.990+1	6.210	-3.021	3.611+1	4.598+1
1470	8.499	-2.994+1	6.225	-2.943	3.617+1	4.550+1
1480	8.515	-2.999+1	6.240	-2.866	3.623+1	4.503+1
1490	8.530	-3.003+1	6.256	-2.789	3.628+1	4.457+1
1500	8.545	-3.007+1	6.271	-2.714	3.634+1	4.412+1
1510	8.560	-3.011+1	6.286	-2.639	3.640+1	4.367+1
1520	8.575	-3.015+1	6.301	-2.565	3.645+1	4.322+1
1530	8.590	-3.019+1	6.316	-2.492	3.651+1	4.279+1
1540	8.604	-3.024+1	6.331	-2.420	3.657+1	4.236+1
1550	8.618	-3.028+1	6.346	-2.349	3.662+1	4.193+1
1560	8.632	-3.032+1	6.360	-2.279	3.668+1	4.151+1
1570	8.646	-3.036+1	6.375	-2.209	3.673+1	4.109+1
1580	8.660	-3.040+1	6.389	-2.141	3.679+1	4.068+1
1590	8.673	-3.044+1	6.403	-2.072	3.684+1	4.028+1

SPECIE COH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	8.686	-3.048+1	6.418	-2.005	3.690+1	3.988+1
1610	8.699	-3.052+1	6.432	-1.939	3.695+1	3.948+1
1620	8.712	-3.056+1	6.446	-1.873	3.701+1	3.909+1
1630	8.725	-3.060+1	6.460	-1.808	3.706+1	3.871+1
1640	8.738	-3.064+1	6.474	-1.744	3.711+1	3.833+1
1650	8.750	-3.068+1	6.488	-1.680	3.717+1	3.795+1
1660	8.762	-3.072+1	6.501	-1.617	3.722+1	3.758+1
1670	8.774	-3.076+1	6.515	-1.555	3.727+1	3.721+1
1680	8.786	-3.080+1	6.528	-1.494	3.732+1	3.685+1
1690	8.798	-3.083+1	6.542	-1.433	3.738+1	3.649+1
1700	8.810	-3.087+1	6.555	-1.373	3.743+1	3.614+1
1710	8.821	-3.091+1	6.568	-1.313	3.748+1	3.579+1
1720	8.832	-3.095+1	6.581	-1.254	3.753+1	3.544+1
1730	8.843	-3.099+1	6.594	-1.196	3.758+1	3.510+1
1740	8.854	-3.103+1	6.607	-1.138	3.763+1	3.476+1
1750	8.865	-3.106+1	6.620	-1.081	3.768+1	3.443+1
1760	8.876	-3.110+1	6.633	-1.024	3.773+1	3.410+1
1770	8.886	-3.114+1	6.646	-9.685-1	3.778+1	3.377+1
1780	8.897	-3.118+1	6.658	-9.131-1	3.783+1	3.345+1
1790	8.907	-3.121+1	6.671	-8.583-1	3.788+1	3.313+1
1800	8.917	-3.125+1	6.683	-8.040-1	3.793+1	3.281+1
1810	8.927	-3.129+1	6.695	-7.503-1	3.798+1	3.250+1
1820	8.937	-3.132+1	6.708	-6.971-1	3.803+1	3.219+1
1830	8.946	-3.136+1	6.720	-6.444-1	3.808+1	3.189+1
1840	8.956	-3.140+1	6.732	-5.922-1	3.813+1	3.158+1
1850	8.966	-3.143+1	6.744	-5.406-1	3.818+1	3.129+1
1860	8.975	-3.147+1	6.756	-4.895-1	3.823+1	3.099+1
1870	8.984	-3.151+1	6.768	-4.388-1	3.828+1	3.070+1
1880	8.993	-3.154+1	6.780	-3.886-1	3.832+1	3.041+1
1890	9.003	-3.158+1	6.792	-3.389-1	3.837+1	3.012+1
1900	9.011	-3.162+1	6.803	-2.897-1	3.842+1	2.984+1
1910	9.020	-3.165+1	6.815	-2.410-1	3.847+1	2.956+1
1920	9.029	-3.169+1	6.826	-1.928-1	3.851+1	2.928+1
1930	9.038	-3.172+1	6.838	-1.450-1	3.856+1	2.901+1
1940	9.046	-3.176+1	6.849	-9.761-2	3.861+1	2.873+1
1950	9.054	-3.179+1	6.861	-5.071-2	3.865+1	2.847+1
1960	9.063	-3.183+1	6.872	-4.240-3	3.870+1	2.820+1
1970	9.071	-3.186+1	6.883	4.180-2	3.875+1	2.794+1
1980	9.079	-3.190+1	6.894	8.741-2	3.879+1	2.768+1
1990	9.087	-3.193+1	6.905	1.326-1	3.884+1	2.742+1
2000	9.094	-3.197+1	6.916	1.774-1	3.888+1	2.716+1
2010	9.102	-3.200+1	6.927	2.218-1	3.893+1	2.691+1
2020	9.110	-3.204+1	6.937	2.657-1	3.897+1	2.666+1
2030	9.117	-3.207+1	6.948	3.093-1	3.902+1	2.641+1
2040	9.125	-3.210+1	6.959	3.525-1	3.906+1	2.616+1
2050	9.132	-3.214+1	6.969	3.953-1	3.911+1	2.592+1
2060	9.140	-3.217+1	6.980	4.378-1	3.915+1	2.568+1
2070	9.147	-3.221+1	6.990	4.798-1	3.920+1	2.544+1
2080	9.154	-3.224+1	7.001	5.215-1	3.924+1	2.521+1
2090	9.161	-3.227+1	7.011	5.629-1	3.928+1	2.497+1

SPECIE COH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	9.168	-3.231+1	7.021	6.038-1	3.933+1	2.474+1
2110	9.175	-3.234+1	7.032	6.445-1	3.937+1	2.451+1
2120	9.182	-3.237+1	7.042	6.847-1	3.942+1	2.428+1
2130	9.188	-3.241+1	7.052	7.246-1	3.946+1	2.406+1
2140	9.195	-3.244+1	7.062	7.642-1	3.950+1	2.384+1
2150	9.202	-3.247+1	7.072	8.035-1	3.954+1	2.361+1
2160	9.208	-3.251+1	7.082	8.424-1	3.959+1	2.340+1
2170	9.215	-3.254+1	7.091	8.810-1	3.963+1	2.318+1
2180	9.221	-3.257+1	7.101	9.192-1	3.967+1	2.296+1
2190	9.227	-3.260+1	7.111	9.571-1	3.971+1	2.275+1
2200	9.233	-3.264+1	7.121	9.947-1	3.976+1	2.254+1
2210	9.239	-3.267+1	7.130	1.032	3.980+1	2.233+1
2220	9.246	-3.270+1	7.140	1.069	3.984+1	2.212+1
2230	9.252	-3.273+1	7.149	1.106	3.988+1	2.192+1
2240	9.258	-3.277+1	7.159	1.142	3.992+1	2.171+1
2250	9.263	-3.280+1	7.168	1.178	3.996+1	2.151+1
2260	9.269	-3.283+1	7.177	1.214	4.001+1	2.131+1
2270	9.275	-3.286+1	7.186	1.249	4.005+1	2.111+1
2280	9.281	-3.289+1	7.195	1.285	4.009+1	2.092+1
2290	9.286	-3.292+1	7.205	1.319	4.013+1	2.072+1
2300	9.292	-3.296+1	7.214	1.354	4.017+1	2.053+1
2310	9.297	-3.299+1	7.223	1.388	4.021+1	2.034+1
2320	9.303	-3.302+1	7.232	1.423	4.025+1	2.015+1
2330	9.308	-3.305+1	7.240	1.456	4.029+1	1.996+1
2340	9.313	-3.308+1	7.249	1.490	4.033+1	1.978+1
2350	9.318	-3.311+1	7.258	1.523	4.037+1	1.959+1
2360	9.324	-3.314+1	7.267	1.556	4.041+1	1.941+1
2370	9.329	-3.317+1	7.276	1.589	4.045+1	1.923+1
2380	9.334	-3.320+1	7.284	1.622	4.049+1	1.905+1
2390	9.339	-3.323+1	7.293	1.654	4.053+1	1.887+1
2400	9.344	-3.326+1	7.301	1.686	4.056+1	1.869+1
2410	9.348	-3.329+1	7.310	1.718	4.060+1	1.851+1
2420	9.353	-3.332+1	7.318	1.749	4.064+1	1.834+1
2430	9.358	-3.335+1	7.327	1.781	4.068+1	1.817+1
2440	9.363	-3.338+1	7.335	1.812	4.072+1	1.800+1
2450	9.368	-3.341+1	7.343	1.843	4.076+1	1.783+1
2460	9.372	-3.344+1	7.352	1.873	4.080+1	1.766+1
2470	9.377	-3.347+1	7.360	1.904	4.083+1	1.749+1
2480	9.381	-3.350+1	7.368	1.934	4.087+1	1.732+1
2490	9.386	-3.353+1	7.376	1.964	4.091+1	1.716+1
2500	9.390	-3.356+1	7.384	1.993	4.095+1	1.700+1
2510	9.395	-3.359+1	7.392	2.023	4.099+1	1.683+1
2520	9.399	-3.362+1	7.400	2.052	4.102+1	1.667+1
2530	9.403	-3.365+1	7.408	2.081	4.106+1	1.651+1
2540	9.408	-3.368+1	7.416	2.110	4.110+1	1.636+1
2550	9.412	-3.371+1	7.424	2.139	4.113+1	1.620+1
2560	9.416	-3.374+1	7.431	2.167	4.117+1	1.604+1
2570	9.420	-3.377+1	7.439	2.195	4.121+1	1.589+1
2580	9.424	-3.380+1	7.447	2.223	4.124+1	1.574+1
2590	9.429	-3.383+1	7.454	2.251	4.128+1	1.558+1

SPECIE COH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	9.433	-3.385+1	7.462	2.279	4.132+1	1.543+1
2610	9.437	-3.388+1	7.469	2.306	4.135+1	1.528+1
2620	9.440	-3.391+1	7.477	2.333	4.139+1	1.513+1
2630	9.444	-3.394+1	7.484	2.360	4.143+1	1.499+1
2640	9.448	-3.397+1	7.492	2.387	4.146+1	1.484+1
2650	9.452	-3.400+1	7.499	2.414	4.150+1	1.470+1
2660	9.456	-3.403+1	7.507	2.440	4.153+1	1.455+1
2670	9.459	-3.405+1	7.514	2.467	4.157+1	1.441+1
2680	9.463	-3.408+1	7.521	2.493	4.160+1	1.427+1
2690	9.467	-3.411+1	7.529	2.519	4.164+1	1.413+1
2700	9.470	-3.414+1	7.536	2.544	4.167+1	1.399+1
2710	9.474	-3.417+1	7.543	2.570	4.171+1	1.385+1
2720	9.477	-3.419+1	7.550	2.595	4.174+1	1.371+1
2730	9.481	-3.422+1	7.557	2.620	4.178+1	1.357+1
2740	9.484	-3.425+1	7.564	2.646	4.181+1	1.344+1
2750	9.488	-3.428+1	7.571	2.670	4.185+1	1.330+1
2760	9.491	-3.430+1	7.578	2.695	4.188+1	1.317+1
2770	9.495	-3.433+1	7.585	2.720	4.192+1	1.304+1
2780	9.498	-3.436+1	7.592	2.744	4.195+1	1.290+1
2790	9.501	-3.439+1	7.599	2.768	4.198+1	1.277+1
2800	9.505	-3.441+1	7.605	2.792	4.202+1	1.264+1
2810	9.508	-3.444+1	7.612	2.816	4.205+1	1.251+1
2820	9.511	-3.447+1	7.619	2.840	4.209+1	1.239+1
2830	9.514	-3.449+1	7.626	2.863	4.212+1	1.226+1
2840	9.517	-3.452+1	7.632	2.887	4.215+1	1.213+1
2850	9.521	-3.455+1	7.639	2.910	4.219+1	1.201+1
2860	9.524	-3.457+1	7.645	2.933	4.222+1	1.188+1
2870	9.527	-3.460+1	7.652	2.956	4.225+1	1.176+1
2880	9.530	-3.463+1	7.659	2.979	4.229+1	1.164+1
2890	9.533	-3.465+1	7.665	3.002	4.232+1	1.151+1
2900	9.536	-3.468+1	7.671	3.024	4.235+1	1.139+1
2910	9.539	-3.471+1	7.678	3.047	4.239+1	1.127+1
2920	9.542	-3.473+1	7.684	3.069	4.242+1	1.115+1
2930	9.545	-3.476+1	7.691	3.091	4.245+1	1.103+1
2940	9.548	-3.479+1	7.697	3.113	4.248+1	1.092+1
2950	9.550	-3.481+1	7.703	3.135	4.252+1	1.080+1
2960	9.553	-3.484+1	7.709	3.156	4.255+1	1.068+1
2970	9.556	-3.486+1	7.716	3.178	4.258+1	1.057+1
2980	9.559	-3.489+1	7.722	3.199	4.261+1	1.045+1
2990	9.562	-3.492+1	7.728	3.221	4.264+1	1.034+1
3000	9.564	-3.494+1	7.734	3.242	4.268+1	1.023+1
3010	9.567	-3.497+1	7.740	3.263	4.271+1	1.011+1
3020	9.570	-3.499+1	7.746	3.284	4.274+1	1.000+1
3030	9.572	-3.502+1	7.752	3.304	4.277+1	9.891
3040	9.575	-3.504+1	7.758	3.325	4.280+1	9.781
3050	9.578	-3.507+1	7.764	3.346	4.283+1	9.671
3060	9.580	-3.510+1	7.770	3.366	4.287+1	9.563
3070	9.583	-3.512+1	7.776	3.386	4.290+1	9.454
3080	9.585	-3.515+1	7.782	3.406	4.293+1	9.347
3090	9.588	-3.517+1	7.788	3.426	4.296+1	9.240

SPECIE COH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	9.590	-3.520+1	7.793	3.446	4.299+1	9.134
3110	9.593	-3.522+1	7.799	3.466	4.302+1	9.029
3120	9.595	-3.525+1	7.805	3.486	4.305+1	8.924
3130	9.597	-3.527+1	7.811	3.505	4.308+1	8.820
3140	9.600	-3.530+1	7.816	3.525	4.311+1	8.717
3150	9.602	-3.532+1	7.822	3.544	4.314+1	8.614
3160	9.604	-3.535+1	7.828	3.563	4.317+1	8.512
3170	9.607	-3.537+1	7.833	3.582	4.320+1	8.411
3180	9.609	-3.540+1	7.839	3.601	4.323+1	8.310
3190	9.611	-3.542+1	7.845	3.620	4.327+1	8.210
3200	9.614	-3.544+1	7.850	3.639	4.330+1	8.111
3210	9.616	-3.547+1	7.856	3.657	4.333+1	8.012
3220	9.618	-3.549+1	7.861	3.676	4.336+1	7.914
3230	9.621	-3.552+1	7.867	3.694	4.339+1	7.816
3240	9.623	-3.554+1	7.872	3.712	4.341+1	7.719
3250	9.625	-3.557+1	7.877	3.731	4.344+1	7.623
3260	9.627	-3.559+1	7.883	3.749	4.347+1	7.527
3270	9.629	-3.562+1	7.888	3.767	4.350+1	7.432
3280	9.632	-3.564+1	7.893	3.785	4.353+1	7.337
3290	9.634	-3.566+1	7.899	3.802	4.356+1	7.243
3300	9.636	-3.569+1	7.904	3.820	4.359+1	7.149
3310	9.638	-3.571+1	7.909	3.837	4.362+1	7.056
3320	9.640	-3.574+1	7.914	3.855	4.365+1	6.964
3330	9.642	-3.576+1	7.919	3.872	4.368+1	6.872
3340	9.644	-3.578+1	7.925	3.890	4.371+1	6.781
3350	9.646	-3.581+1	7.930	3.907	4.374+1	6.690
3360	9.648	-3.583+1	7.935	3.924	4.376+1	6.599
3370	9.650	-3.585+1	7.940	3.941	4.379+1	6.510
3380	9.652	-3.588+1	7.945	3.958	4.382+1	6.421
3390	9.654	-3.590+1	7.950	3.975	4.385+1	6.332
3400	9.655	-3.592+1	7.955	3.991	4.388+1	6.244
3410	9.657	-3.595+1	7.960	4.008	4.391+1	6.156
3420	9.659	-3.597+1	7.965	4.024	4.394+1	6.069
3430	9.661	-3.599+1	7.970	4.041	4.396+1	5.983
3440	9.663	-3.602+1	7.975	4.057	4.399+1	5.897
3450	9.665	-3.604+1	7.980	4.073	4.402+1	5.812
3460	9.667	-3.606+1	7.985	4.090	4.405+1	5.727
3470	9.669	-3.609+1	7.990	4.106	4.408+1	5.642
3480	9.670	-3.611+1	7.994	4.122	4.410+1	5.558
3490	9.672	-3.613+1	7.999	4.138	4.413+1	5.475
3500	9.674	-3.616+1	8.004	4.153	4.416+1	5.392
3510	9.676	-3.618+1	8.009	4.169	4.419+1	5.309
3520	9.678	-3.620+1	8.013	4.185	4.421+1	5.227
3530	9.679	-3.622+1	8.018	4.200	4.424+1	5.145
3540	9.681	-3.625+1	8.023	4.216	4.427+1	5.064
3550	9.683	-3.627+1	8.028	4.231	4.430+1	4.983
3560	9.685	-3.629+1	8.032	4.247	4.432+1	4.903
3570	9.686	-3.631+1	8.037	4.262	4.435+1	4.823
3580	9.688	-3.634+1	8.041	4.277	4.438+1	4.744
3590	9.690	-3.636+1	8.046	4.292	4.441+1	4.665

SPECIE COH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	9.691	-3.638+1	8.051	4.307	4.443+1	4.586
3610	9.693	-3.640+1	8.055	4.322	4.446+1	4.508
3620	9.694	-3.643+1	8.060	4.337	4.449+1	4.430
3630	9.696	-3.645+1	8.064	4.352	4.451+1	4.353
3640	9.698	-3.647+1	8.069	4.366	4.454+1	4.276
3650	9.699	-3.649+1	8.073	4.381	4.457+1	4.200
3660	9.701	-3.651+1	8.078	4.395	4.459+1	4.124
3670	9.702	-3.654+1	8.082	4.410	4.462+1	4.048
3680	9.704	-3.656+1	8.086	4.424	4.465+1	3.973
3690	9.705	-3.658+1	8.091	4.439	4.467+1	3.899
3700	9.707	-3.660+1	8.095	4.453	4.470+1	3.824
3710	9.708	-3.662+1	8.100	4.467	4.472+1	3.750
3720	9.710	-3.665+1	8.104	4.481	4.475+1	3.677
3730	9.711	-3.667+1	8.108	4.495	4.478+1	3.604
3740	9.713	-3.669+1	8.112	4.509	4.480+1	3.531
3750	9.714	-3.671+1	8.117	4.523	4.483+1	3.458
3760	9.716	-3.673+1	8.121	4.537	4.485+1	3.386
3770	9.717	-3.675+1	8.125	4.550	4.488+1	3.315
3780	9.719	-3.678+1	8.129	4.564	4.491+1	3.243
3790	9.720	-3.680+1	8.134	4.578	4.493+1	3.172
3800	9.721	-3.682+1	8.138	4.591	4.496+1	3.102
3810	9.723	-3.684+1	8.142	4.605	4.498+1	3.032
3820	9.724	-3.686+1	8.146	4.618	4.501+1	2.962
3830	9.726	-3.688+1	8.150	4.631	4.503+1	2.892
3840	9.727	-3.690+1	8.154	4.645	4.506+1	2.823
3850	9.728	-3.693+1	8.158	4.658	4.508+1	2.754
3860	9.730	-3.695+1	8.162	4.671	4.511+1	2.686
3870	9.731	-3.697+1	8.167	4.684	4.513+1	2.618
3880	9.732	-3.699+1	8.171	4.697	4.516+1	2.550
3890	9.734	-3.701+1	8.175	4.710	4.518+1	2.483
3900	9.735	-3.703+1	8.179	4.723	4.521+1	2.416
3910	9.736	-3.705+1	8.183	4.736	4.523+1	2.349
3920	9.738	-3.707+1	8.187	4.749	4.526+1	2.283
3930	9.739	-3.709+1	8.191	4.761	4.528+1	2.217
3940	9.740	-3.711+1	8.194	4.774	4.531+1	2.152
3950	9.741	-3.714+1	8.198	4.787	4.533+1	2.086
3960	9.743	-3.716+1	8.202	4.799	4.536+1	2.022
3970	9.744	-3.718+1	8.206	4.812	4.538+1	1.957
3980	9.745	-3.720+1	8.210	4.824	4.541+1	1.893
3990	9.746	-3.722+1	8.214	4.836	4.543+1	1.829
4000	9.748	-3.724+1	8.218	4.848	4.546+1	1.766
4010	9.749	-3.726+1	8.222	4.861	4.548+1	1.702
4020	9.750	-3.728+1	8.225	4.873	4.551+1	1.639
4030	9.751	-3.730+1	8.229	4.885	4.553+1	1.577
4040	9.752	-3.732+1	8.233	4.897	4.555+1	1.514
4050	9.753	-3.734+1	8.237	4.909	4.558+1	1.452
4060	9.755	-3.736+1	8.240	4.921	4.560+1	1.390
4070	9.756	-3.738+1	8.244	4.933	4.563+1	1.329
4080	9.757	-3.740+1	8.248	4.945	4.565+1	1.268
4090	9.758	-3.742+1	8.251	4.956	4.567+1	1.207

SPECIE COH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	9.759	-3.744+1	8.255	4.968	4.570+1	1.146
4110	9.760	-3.746+1	8.259	4.980	4.572+1	1.086
4120	9.761	-3.748+1	8.262	4.991	4.574+1	1.026
4130	9.763	-3.750+1	8.266	5.003	4.577+1	9.664-1
4140	9.764	-3.752+1	8.270	5.014	4.579+1	9.071-1
4150	9.765	-3.754+1	8.273	5.026	4.582+1	8.480-1
4160	9.766	-3.756+1	8.277	5.037	4.584+1	7.892-1
4170	9.767	-3.758+1	8.280	5.049	4.586+1	7.307-1
4180	9.768	-3.760+1	8.284	5.060	4.589+1	6.725-1
4190	9.769	-3.762+1	8.287	5.071	4.591+1	6.146-1
4200	9.770	-3.764+1	8.291	5.082	4.593+1	5.569-1
4210	9.771	-3.766+1	8.295	5.093	4.596+1	4.996-1
4220	9.772	-3.768+1	8.298	5.104	4.598+1	4.425-1
4230	9.773	-3.770+1	8.302	5.116	4.600+1	3.857-1
4240	9.774	-3.772+1	8.305	5.126	4.603+1	3.291-1
4250	9.775	-3.774+1	8.308	5.137	4.605+1	2.729-1
4260	9.776	-3.776+1	8.312	5.148	4.607+1	2.169-1
4270	9.777	-3.778+1	8.315	5.159	4.609+1	1.611-1
4280	9.778	-3.780+1	8.319	5.170	4.612+1	1.056-1
4290	9.779	-3.782+1	8.322	5.181	4.614+1	5.036-2
4300	9.780	-3.784+1	8.326	5.191	4.616+1	-4.663-3
4310	9.781	-3.786+1	8.329	5.202	4.619+1	-5.950-2
4320	9.782	-3.788+1	8.332	5.213	4.621+1	-1.141-1
4330	9.783	-3.790+1	8.336	5.223	4.623+1	-1.684-1
4340	9.784	-3.791+1	8.339	5.234	4.625+1	-2.226-1
4350	9.785	-3.793+1	8.342	5.244	4.628+1	-2.764-1
4360	9.786	-3.795+1	8.346	5.255	4.630+1	-3.301-1
4370	9.787	-3.797+1	8.349	5.265	4.632+1	-3.835-1
4380	9.788	-3.799+1	8.352	5.275	4.634+1	-4.367-1
4390	9.789	-3.801+1	8.356	5.286	4.637+1	-4.896-1
4400	9.790	-3.803+1	8.359	5.296	4.639+1	-5.423-1
4410	9.791	-3.805+1	8.362	5.306	4.641+1	-5.948-1
4420	9.792	-3.807+1	8.365	5.316	4.643+1	-6.471-1
4430	9.793	-3.809+1	8.368	5.326	4.645+1	-6.991-1
4440	9.794	-3.810+1	8.372	5.336	4.648+1	-7.509-1
4450	9.794	-3.812+1	8.375	5.346	4.650+1	-8.025-1
4460	9.795	-3.814+1	8.378	5.356	4.652+1	-8.538-1
4470	9.796	-3.816+1	8.381	5.366	4.654+1	-9.049-1
4480	9.797	-3.818+1	8.384	5.376	4.656+1	-9.558-1
4490	9.798	-3.820+1	8.388	5.386	4.659+1	-1.006
4500	9.799	-3.822+1	8.391	5.396	4.661+1	-1.057
4510	9.800	-3.824+1	8.394	5.406	4.663+1	-1.107
4520	9.800	-3.825+1	8.397	5.415	4.665+1	-1.157
4530	9.801	-3.827+1	8.400	5.425	4.667+1	-1.206
4540	9.802	-3.829+1	8.403	5.435	4.669+1	-1.256
4550	9.803	-3.831+1	8.406	5.444	4.672+1	-1.305
4560	9.804	-3.833+1	8.409	5.454	4.674+1	-1.354
4570	9.805	-3.835+1	8.412	5.463	4.676+1	-1.402
4580	9.805	-3.837+1	8.415	5.473	4.678+1	-1.451
4590	9.806	-3.838+1	8.418	5.482	4.680+1	-1.499

SPECIE COH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	9.807	-3.840+1	8.421	5.492	4.682+1	-1.547
4610	9.808	-3.842+1	8.424	5.501	4.684+1	-1.595
4620	9.808	-3.844+1	8.427	5.510	4.687+1	-1.643
4630	9.809	-3.846+1	8.430	5.520	4.689+1	-1.691
4640	9.810	-3.848+1	8.433	5.529	4.691+1	-1.738
4650	9.811	-3.849+1	8.436	5.538	4.693+1	-1.785
4660	9.811	-3.851+1	8.439	5.547	4.695+1	-1.832
4670	9.812	-3.853+1	8.442	5.556	4.697+1	-1.879
4680	9.813	-3.855+1	8.445	5.565	4.699+1	-1.925
4690	9.814	-3.857+1	8.448	5.574	4.701+1	-1.972
4700	9.815	-3.858+1	8.451	5.583	4.703+1	-2.018
4710	9.815	-3.860+1	8.454	5.592	4.706+1	-2.064
4720	9.816	-3.862+1	8.457	5.601	4.708+1	-2.109
4730	9.817	-3.864+1	8.460	5.610	4.710+1	-2.155
4740	9.817	-3.866+1	8.462	5.619	4.712+1	-2.200
4750	9.818	-3.867+1	8.465	5.628	4.714+1	-2.245
4760	9.819	-3.869+1	8.468	5.637	4.716+1	-2.290
4770	9.820	-3.871+1	8.471	5.646	4.718+1	-2.335
4780	9.820	-3.873+1	8.474	5.654	4.720+1	-2.379
4790	9.821	-3.874+1	8.477	5.663	4.722+1	-2.424
4800	9.822	-3.876+1	8.479	5.672	4.724+1	-2.468
4810	9.822	-3.878+1	8.482	5.680	4.726+1	-2.512
4820	9.823	-3.880+1	8.485	5.689	4.728+1	-2.556
4830	9.824	-3.881+1	8.488	5.698	4.730+1	-2.599
4840	9.825	-3.883+1	8.491	5.706	4.732+1	-2.643
4850	9.825	-3.885+1	8.493	5.715	4.734+1	-2.686
4860	9.826	-3.887+1	8.496	5.723	4.736+1	-2.730
4870	9.827	-3.888+1	8.499	5.731	4.738+1	-2.773
4880	9.827	-3.890+1	8.501	5.740	4.740+1	-2.816
4890	9.828	-3.892+1	8.504	5.748	4.742+1	-2.858
4900	9.829	-3.894+1	8.507	5.757	4.744+1	-2.901
4910	9.829	-3.895+1	8.510	5.765	4.746+1	-2.943
4920	9.830	-3.897+1	8.512	5.773	4.748+1	-2.985
4930	9.830	-3.899+1	8.515	5.781	4.750+1	-3.027
4940	9.831	-3.901+1	8.518	5.789	4.752+1	-3.069
4950	9.832	-3.902+1	8.520	5.798	4.754+1	-3.111
4960	9.832	-3.904+1	8.523	5.806	4.756+1	-3.152
4970	9.833	-3.906+1	8.526	5.814	4.758+1	-3.194
4980	9.834	-3.907+1	8.528	5.822	4.760+1	-3.235
4990	9.834	-3.909+1	8.531	5.830	4.762+1	-3.276
5000	9.835	-3.911+1	8.533	5.838	4.764+1	-3.317
5010	9.836	-3.913+1	8.536	5.846	4.766+1	-3.358
5020	9.836	-3.914+1	8.539	5.854	4.768+1	-3.398
5030	9.837	-3.916+1	8.541	5.862	4.770+1	-3.439
5040	9.837	-3.918+1	8.544	5.870	4.772+1	-3.479
5050	9.838	-3.919+1	8.546	5.878	4.774+1	-3.519
5060	9.839	-3.921+1	8.549	5.885	4.776+1	-3.559
5070	9.839	-3.923+1	8.551	5.893	4.778+1	-3.599
5080	9.840	-3.924+1	8.554	5.901	4.780+1	-3.639
5090	9.840	-3.926+1	8.556	5.909	4.782+1	-3.678

SPECIE COH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	9.841	-3.928+1	8.559	5.916	4.784+1	-3.717
5110	9.842	-3.929+1	8.561	5.924	4.786+1	-3.757
5120	9.842	-3.931+1	8.564	5.932	4.788+1	-3.795
5130	9.843	-3.933+1	8.566	5.939	4.789+1	-3.834
5140	9.843	-3.935+1	8.569	5.947	4.791+1	-3.873
5150	9.844	-3.936+1	8.571	5.955	4.793+1	-3.911
5160	9.844	-3.938+1	8.574	5.962	4.795+1	-3.949
5170	9.845	-3.939+1	8.576	5.970	4.797+1	-3.987
5180	9.846	-3.941+1	8.579	5.977	4.799+1	-4.025
5190	9.846	-3.943+1	8.581	5.985	4.801+1	-4.063
5200	9.847	-3.944+1	8.584	5.992	4.803+1	-4.101
5210	9.847	-3.946+1	8.586	5.999	4.805+1	-4.139
5220	9.848	-3.948+1	8.589	6.007	4.807+1	-4.176
5230	9.848	-3.949+1	8.591	6.014	4.808+1	-4.214
5240	9.849	-3.951+1	8.593	6.021	4.810+1	-4.251
5250	9.849	-3.953+1	8.596	6.029	4.812+1	-4.288
5260	9.850	-3.954+1	8.598	6.036	4.814+1	-4.325
5270	9.850	-3.956+1	8.600	6.043	4.816+1	-4.362
5280	9.851	-3.958+1	8.603	6.050	4.818+1	-4.399
5290	9.852	-3.959+1	8.605	6.058	4.820+1	-4.435
5300	9.852	-3.961+1	8.608	6.065	4.822+1	-4.472
5310	9.853	-3.962+1	8.610	6.072	4.823+1	-4.508
5320	9.853	-3.964+1	8.612	6.079	4.825+1	-4.544
5330	9.854	-3.966+1	8.615	6.086	4.827+1	-4.580
5340	9.854	-3.967+1	8.617	6.093	4.829+1	-4.616
5350	9.855	-3.969+1	8.619	6.100	4.831+1	-4.651
5360	9.855	-3.971+1	8.621	6.107	4.833+1	-4.687
5370	9.856	-3.972+1	8.624	6.114	4.835+1	-4.722
5380	9.856	-3.974+1	8.626	6.121	4.836+1	-4.757
5390	9.857	-3.975+1	8.628	6.128	4.838+1	-4.793
5400	9.857	-3.977+1	8.631	6.135	4.840+1	-4.827
5410	9.858	-3.979+1	8.633	6.142	4.842+1	-4.862
5420	9.858	-3.980+1	8.635	6.149	4.844+1	-4.897
5430	9.859	-3.982+1	8.637	6.155	4.845+1	-4.932
5440	9.859	-3.983+1	8.640	6.162	4.847+1	-4.966
5450	9.859	-3.985+1	8.642	6.169	4.849+1	-5.001
5460	9.860	-3.986+1	8.644	6.176	4.851+1	-5.035
5470	9.860	-3.988+1	8.646	6.183	4.853+1	-5.070
5480	9.861	-3.990+1	8.649	6.189	4.854+1	-5.104
5490	9.861	-3.991+1	8.651	6.196	4.856+1	-5.138
5500	9.862	-3.993+1	8.653	6.203	4.858+1	-5.172
5510	9.862	-3.994+1	8.655	6.209	4.860+1	-5.205
5520	9.863	-3.996+1	8.657	6.216	4.862+1	-5.239
5530	9.863	-3.997+1	8.660	6.223	4.863+1	-5.272
5540	9.864	-3.999+1	8.662	6.229	4.865+1	-5.306
5550	9.864	-4.001+1	8.664	6.236	4.867+1	-5.339
5560	9.865	-4.002+1	8.666	6.242	4.869+1	-5.372
5570	9.865	-4.004+1	8.668	6.249	4.871+1	-5.405
5580	9.866	-4.005+1	8.670	6.255	4.872+1	-5.438
5590	9.866	-4.007+1	8.672	6.262	4.874+1	-5.471

SPECIE COH2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	9.866	-4.008+1	8.675	6.268	4.876+1	-5.503
5610	9.867	-4.010+1	8.677	6.274	4.878+1	-5.536
5620	9.867	-4.012+1	8.679	6.281	4.879+1	-5.568
5630	9.868	-4.013+1	8.681	6.287	4.881+1	-5.600
5640	9.868	-4.015+1	8.683	6.294	4.883+1	-5.632
5650	9.869	-4.016+1	8.685	6.300	4.885+1	-5.664
5660	9.869	-4.018+1	8.687	6.306	4.886+1	-5.696
5670	9.869	-4.019+1	8.689	6.312	4.888+1	-5.728
5680	9.870	-4.021+1	8.691	6.319	4.890+1	-5.760
5690	9.870	-4.022+1	8.693	6.325	4.892+1	-5.792
5700	9.871	-4.024+1	8.696	6.331	4.893+1	-5.823
5710	9.871	-4.025+1	8.698	6.337	4.895+1	-5.854
5720	9.872	-4.027+1	8.700	6.344	4.897+1	-5.886
5730	9.872	-4.028+1	8.702	6.350	4.899+1	-5.917
5740	9.872	-4.030+1	8.704	6.356	4.900+1	-5.948
5750	9.873	-4.031+1	8.706	6.362	4.902+1	-5.978
5760	9.873	-4.033+1	8.708	6.368	4.904+1	-6.009
5770	9.874	-4.034+1	8.710	6.374	4.905+1	-6.040
5780	9.874	-4.036+1	8.712	6.380	4.907+1	-6.071
5790	9.874	-4.037+1	8.714	6.386	4.909+1	-6.101
5800	9.875	-4.039+1	8.716	6.392	4.910+1	-6.131
5810	9.875	-4.040+1	8.718	6.398	4.912+1	-6.162
5820	9.876	-4.042+1	8.720	6.404	4.914+1	-6.192
5830	9.876	-4.043+1	8.722	6.410	4.916+1	-6.222
5840	9.876	-4.045+1	8.724	6.416	4.917+1	-6.252
5850	9.877	-4.046+1	8.726	6.422	4.919+1	-6.282
5860	9.877	-4.048+1	8.728	6.428	4.921+1	-6.312
5870	9.878	-4.049+1	8.730	6.434	4.922+1	-6.342
5880	9.878	-4.051+1	8.732	6.440	4.924+1	-6.371
5890	9.878	-4.052+1	8.734	6.445	4.926+1	-6.401
5900	9.879	-4.054+1	8.736	6.451	4.927+1	-6.430
5910	9.879	-4.055+1	8.737	6.457	4.929+1	-6.460
5920	9.879	-4.057+1	8.739	6.463	4.931+1	-6.489
5930	9.880	-4.058+1	8.741	6.469	4.932+1	-6.518
5940	9.880	-4.060+1	8.743	6.474	4.934+1	-6.547
5950	9.880	-4.061+1	8.745	6.480	4.936+1	-6.576
5960	9.881	-4.063+1	8.747	6.486	4.937+1	-6.605
5970	9.881	-4.064+1	8.749	6.492	4.939+1	-6.633
5980	9.882	-4.066+1	8.751	6.497	4.941+1	-6.662
5990	9.882	-4.067+1	8.753	6.503	4.942+1	-6.691
6000	9.882	-4.069+1	8.755	6.508	4.944+1	-6.719

SPECIE H

MOLECULAR WEIGHT EQUALS 1.0080

DELTA E ZERO EQUALS 51.621 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(NBS 6484, 7/1/59) (8)

THERMAL

(NBS 6484, 7/1/59) (8)

SPECIE H

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	2.500	-8.562	2.491	2.623+2	1.105+1	-2.561+2
110	2.500	-8.785	2.491	2.424+2	1.128+1	-2.361+2
120	2.500	-8.995	2.492	2.245+2	1.149+1	-2.181+2
130	2.500	-9.193	2.493	2.083+2	1.169+1	-2.017+2
140	2.500	-9.379	2.493	1.936+2	1.187+1	-1.869+2
150	2.500	-9.554	2.493	1.804+2	1.205+1	-1.736+2
160	2.500	-9.719	2.494	1.686+2	1.221+1	-1.617+2
170	2.500	-9.874	2.494	1.579+2	1.237+1	-1.510+2
180	2.500	-1.002+1	2.495	1.484+2	1.252+1	-1.414+2
190	2.500	-1.016+1	2.495	1.399+2	1.265+1	-1.328+2
200	2.500	-1.029+1	2.495	1.324+2	1.279+1	-1.252+2
210	2.500	-1.041+1	2.496	1.256+2	1.291+1	-1.184+2
220	2.500	-1.053+1	2.496	1.196+2	1.303+1	-1.123+2
230	2.500	-1.064+1	2.496	1.143+2	1.314+1	-1.069+2
240	2.500	-1.075+1	2.496	1.095+2	1.325+1	-1.020+2
250	2.500	-1.085+1	2.497	1.052+2	1.335+1	-9.772+1
260	2.500	-1.095+1	2.497	1.013+2	1.345+1	-9.382+1
270	2.500	-1.104+1	2.497	9.785+1	1.354+1	-9.030+1
280	2.500	-1.113+1	2.497	9.468+1	1.363+1	-8.710+1
290	2.500	-1.122+1	2.497	9.178+1	1.372+1	-8.416+1
300	2.500	-1.130+1	2.497	8.909+1	1.380+1	-8.144+1
310	2.500	-1.138+1	2.497	8.623+1	1.388+1	-7.856+1
320	2.500	-1.146+1	2.497	8.357+1	1.396+1	-7.587+1
330	2.500	-1.154+1	2.497	8.108+1	1.404+1	-7.335+1
340	2.500	-1.162+1	2.497	7.875+1	1.411+1	-7.100+1
350	2.500	-1.169+1	2.497	7.657+1	1.419+1	-6.880+1
360	2.500	-1.176+1	2.497	7.453+1	1.426+1	-6.673+1
370	2.500	-1.183+1	2.498	7.260+1	1.432+1	-6.479+1
380	2.500	-1.189+1	2.498	7.079+1	1.439+1	-6.295+1
390	2.500	-1.196+1	2.498	6.907+1	1.446+1	-6.122+1
400	2.500	-1.202+1	2.498	6.744+1	1.452+1	-5.957+1
410	2.500	-1.208+1	2.498	6.589+1	1.458+1	-5.800+1
420	2.500	-1.214+1	2.498	6.441+1	1.464+1	-5.651+1
430	2.500	-1.220+1	2.498	6.300+1	1.470+1	-5.507+1
440	2.500	-1.226+1	2.498	6.164+1	1.476+1	-5.370+1
450	2.500	-1.231+1	2.498	6.034+1	1.481+1	-5.238+1
460	2.500	-1.237+1	2.498	5.908+1	1.487+1	-5.110+1
470	2.500	-1.242+1	2.498	5.786+1	1.492+1	-4.987+1
480	2.500	-1.248+1	2.498	5.669+1	1.497+1	-4.868+1
490	2.500	-1.253+1	2.498	5.555+1	1.503+1	-4.752+1
500	2.500	-1.258+1	2.498	5.445+1	1.508+1	-4.641+1
510	2.500	-1.263+1	2.498	5.344+1	1.513+1	-4.538+1
520	2.500	-1.268+1	2.498	5.247+1	1.517+1	-4.439+1
530	2.500	-1.272+1	2.498	5.153+1	1.522+1	-4.344+1
540	2.500	-1.277+1	2.498	5.063+1	1.527+1	-4.252+1
550	2.500	-1.282+1	2.498	4.976+1	1.532+1	-4.164+1
560	2.500	-1.286+1	2.498	4.891+1	1.536+1	-4.078+1
570	2.500	-1.291+1	2.498	4.809+1	1.540+1	-3.995+1
580	2.500	-1.295+1	2.498	4.730+1	1.545+1	-3.914+1
590	2.500	-1.299+1	2.498	4.654+1	1.549+1	-3.836+1

SPECIE H

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	2.500	-1.303+1	2.498	4.579+1	1.553+1	-3.761+1
610	2.500	-1.308+1	2.498	4.509+1	1.557+1	-3.689+1
620	2.500	-1.312+1	2.499	4.440+1	1.561+1	-3.619+1
630	2.500	-1.316+1	2.499	4.374+1	1.565+1	-3.551+1
640	2.500	-1.320+1	2.499	4.310+1	1.569+1	-3.486+1
650	2.500	-1.323+1	2.499	4.247+1	1.573+1	-3.422+1
660	2.500	-1.327+1	2.499	4.187+1	1.577+1	-3.361+1
670	2.500	-1.331+1	2.499	4.128+1	1.581+1	-3.301+1
680	2.500	-1.335+1	2.499	4.071+1	1.585+1	-3.242+1
690	2.500	-1.338+1	2.499	4.015+1	1.588+1	-3.186+1
700	2.500	-1.342+1	2.499	3.961+1	1.592+1	-3.131+1
710	2.500	-1.345+1	2.499	3.909+1	1.595+1	-3.077+1
720	2.500	-1.349+1	2.499	3.858+1	1.599+1	-3.026+1
730	2.500	-1.352+1	2.499	3.809+1	1.602+1	-2.975+1
740	2.500	-1.356+1	2.499	3.761+1	1.606+1	-2.926+1
750	2.500	-1.359+1	2.499	3.714+1	1.609+1	-2.878+1
760	2.500	-1.362+1	2.499	3.668+1	1.612+1	-2.832+1
770	2.500	-1.366+1	2.499	3.624+1	1.616+1	-2.786+1
780	2.500	-1.369+1	2.499	3.580+1	1.619+1	-2.742+1
790	2.500	-1.372+1	2.499	3.538+1	1.622+1	-2.699+1
800	2.500	-1.375+1	2.499	3.497+1	1.625+1	-2.656+1
810	2.500	-1.378+1	2.499	3.457+1	1.628+1	-2.616+1
820	2.500	-1.381+1	2.499	3.418+1	1.631+1	-2.576+1
830	2.500	-1.384+1	2.499	3.380+1	1.634+1	-2.536+1
840	2.500	-1.387+1	2.499	3.342+1	1.637+1	-2.498+1
850	2.500	-1.390+1	2.499	3.306+1	1.640+1	-2.461+1
860	2.500	-1.393+1	2.499	3.271+1	1.643+1	-2.425+1
870	2.500	-1.396+1	2.499	3.236+1	1.646+1	-2.389+1
880	2.500	-1.399+1	2.499	3.202+1	1.649+1	-2.354+1
890	2.500	-1.402+1	2.499	3.169+1	1.652+1	-2.320+1
900	2.500	-1.405+1	2.499	3.136+1	1.655+1	-2.287+1
910	2.500	-1.407+1	2.499	3.104+1	1.657+1	-2.254+1
920	2.500	-1.410+1	2.499	3.073+1	1.660+1	-2.222+1
930	2.500	-1.413+1	2.499	3.043+1	1.663+1	-2.191+1
940	2.500	-1.416+1	2.499	3.013+1	1.665+1	-2.161+1
950	2.500	-1.418+1	2.499	2.984+1	1.668+1	-2.131+1
960	2.500	-1.421+1	2.499	2.956+1	1.671+1	-2.102+1
970	2.500	-1.423+1	2.499	2.928+1	1.673+1	-2.073+1
980	2.500	-1.426+1	2.499	2.901+1	1.676+1	-2.045+1
990	2.500	-1.428+1	2.499	2.874+1	1.678+1	-2.017+1
1000	2.500	-1.431+1	2.499	2.848+1	1.681+1	-1.990+1
1010	2.500	-1.433+1	2.499	2.822+1	1.683+1	-1.964+1
1020	2.500	-1.436+1	2.499	2.797+1	1.686+1	-1.938+1
1030	2.500	-1.438+1	2.499	2.772+1	1.688+1	-1.912+1
1040	2.500	-1.441+1	2.499	2.748+1	1.691+1	-1.887+1
1050	2.500	-1.443+1	2.499	2.724+1	1.693+1	-1.863+1
1060	2.500	-1.446+1	2.499	2.701+1	1.695+1	-1.839+1
1070	2.500	-1.448+1	2.499	2.678+1	1.698+1	-1.815+1
1080	2.500	-1.450+1	2.499	2.655+1	1.700+1	-1.792+1
1090	2.500	-1.453+1	2.499	2.633+1	1.702+1	-1.769+1

SPECIE H

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	2.500	-1.455+1	2.499	2.611+1	1.705+1	-1.747+1
1110	2.500	-1.457+1	2.499	2.590+1	1.707+1	-1.725+1
1120	2.500	-1.459+1	2.499	2.569+1	1.709+1	-1.704+1
1130	2.500	-1.462+1	2.499	2.549+1	1.711+1	-1.682+1
1140	2.500	-1.464+1	2.499	2.529+1	1.714+1	-1.662+1
1150	2.500	-1.466+1	2.499	2.509+1	1.716+1	-1.641+1
1160	2.500	-1.468+1	2.499	2.489+1	1.718+1	-1.621+1
1170	2.500	-1.470+1	2.499	2.470+1	1.720+1	-1.601+1
1180	2.500	-1.472+1	2.499	2.451+1	1.722+1	-1.582+1
1190	2.500	-1.474+1	2.499	2.433+1	1.724+1	-1.563+1
1200	2.500	-1.477+1	2.499	2.415+1	1.727+1	-1.544+1
1210	2.500	-1.479+1	2.499	2.397+1	1.729+1	-1.525+1
1220	2.500	-1.481+1	2.499	2.379+1	1.731+1	-1.507+1
1230	2.500	-1.483+1	2.499	2.362+1	1.733+1	-1.489+1
1240	2.500	-1.485+1	2.499	2.345+1	1.735+1	-1.472+1
1250	2.500	-1.487+1	2.499	2.328+1	1.737+1	-1.454+1
1260	2.500	-1.489+1	2.499	2.312+1	1.739+1	-1.437+1
1270	2.500	-1.491+1	2.499	2.295+1	1.741+1	-1.420+1
1280	2.500	-1.493+1	2.499	2.279+1	1.743+1	-1.404+1
1290	2.500	-1.495+1	2.499	2.264+1	1.745+1	-1.388+1
1300	2.500	-1.497+1	2.499	2.248+1	1.747+1	-1.371+1
1310	2.500	-1.499+1	2.499	2.233+1	1.748+1	-1.356+1
1320	2.500	-1.500+1	2.499	2.218+1	1.750+1	-1.340+1
1330	2.500	-1.502+1	2.499	2.203+1	1.752+1	-1.325+1
1340	2.500	-1.504+1	2.499	2.188+1	1.754+1	-1.310+1
1350	2.500	-1.506+1	2.499	2.174+1	1.756+1	-1.295+1
1360	2.500	-1.508+1	2.499	2.160+1	1.758+1	-1.280+1
1370	2.500	-1.510+1	2.499	2.146+1	1.760+1	-1.266+1
1380	2.500	-1.512+1	2.499	2.132+1	1.761+1	-1.251+1
1390	2.500	-1.513+1	2.499	2.119+1	1.763+1	-1.237+1
1400	2.500	-1.515+1	2.499	2.105+1	1.765+1	-1.223+1
1410	2.500	-1.517+1	2.499	2.092+1	1.767+1	-1.210+1
1420	2.500	-1.519+1	2.499	2.079+1	1.769+1	-1.196+1
1430	2.500	-1.520+1	2.499	2.066+1	1.770+1	-1.183+1
1440	2.500	-1.522+1	2.499	2.054+1	1.772+1	-1.170+1
1450	2.500	-1.524+1	2.499	2.041+1	1.774+1	-1.157+1
1460	2.500	-1.526+1	2.499	2.029+1	1.776+1	-1.144+1
1470	2.500	-1.527+1	2.499	2.017+1	1.777+1	-1.132+1
1480	2.500	-1.529+1	2.499	2.005+1	1.779+1	-1.119+1
1490	2.500	-1.531+1	2.499	1.993+1	1.781+1	-1.107+1
1500	2.500	-1.532+1	2.499	1.982+1	1.782+1	-1.095+1
1510	2.500	-1.534+1	2.499	1.970+1	1.784+1	-1.083+1
1520	2.500	-1.536+1	2.499	1.959+1	1.786+1	-1.071+1
1530	2.500	-1.537+1	2.499	1.948+1	1.787+1	-1.059+1
1540	2.500	-1.539+1	2.499	1.937+1	1.789+1	-1.048+1
1550	2.500	-1.541+1	2.499	1.926+1	1.790+1	-1.037+1
1560	2.500	-1.542+1	2.499	1.915+1	1.792+1	-1.025+1
1570	2.500	-1.544+1	2.499	1.904+1	1.794+1	-1.014+1
1580	2.500	-1.545+1	2.499	1.894+1	1.795+1	-1.003+1
1590	2.500	-1.547+1	2.499	1.884+1	1.797+1	-9.927

SPECIE H

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	2.500	-1.548+1	2.499	1.873+1	1.798+1	-9.820
1610	2.500	-1.550+1	2.499	1.863+1	1.800+1	-9.715
1620	2.500	-1.552+1	2.499	1.853+1	1.802+1	-9.611
1630	2.500	-1.553+1	2.499	1.844+1	1.803+1	-9.509
1640	2.500	-1.555+1	2.499	1.834+1	1.805+1	-9.407
1650	2.500	-1.556+1	2.499	1.824+1	1.806+1	-9.307
1660	2.500	-1.558+1	2.499	1.815+1	1.808+1	-9.208
1670	2.500	-1.559+1	2.499	1.805+1	1.809+1	-9.110
1680	2.500	-1.561+1	2.499	1.796+1	1.811+1	-9.014
1690	2.500	-1.562+1	2.499	1.787+1	1.812+1	-8.918
1700	2.500	-1.564+1	2.499	1.778+1	1.814+1	-8.824
1710	2.500	-1.565+1	2.499	1.769+1	1.815+1	-8.730
1720	2.500	-1.567+1	2.499	1.760+1	1.817+1	-8.638
1730	2.500	-1.568+1	2.499	1.751+1	1.818+1	-8.547
1740	2.500	-1.569+1	2.499	1.743+1	1.819+1	-8.456
1750	2.500	-1.571+1	2.499	1.734+1	1.821+1	-8.367
1760	2.500	-1.572+1	2.499	1.726+1	1.822+1	-8.279
1770	2.500	-1.574+1	2.499	1.718+1	1.824+1	-8.192
1780	2.500	-1.575+1	2.499	1.709+1	1.825+1	-8.105
1790	2.500	-1.577+1	2.499	1.701+1	1.827+1	-8.020
1800	2.500	-1.578+1	2.499	1.693+1	1.828+1	-7.936
1810	2.500	-1.579+1	2.499	1.685+1	1.829+1	-7.852
1820	2.500	-1.581+1	2.499	1.677+1	1.831+1	-7.770
1830	2.500	-1.582+1	2.499	1.669+1	1.832+1	-7.688
1840	2.500	-1.583+1	2.499	1.662+1	1.833+1	-7.607
1850	2.500	-1.585+1	2.499	1.654+1	1.835+1	-7.527
1860	2.500	-1.586+1	2.499	1.647+1	1.836+1	-7.448
1870	2.500	-1.587+1	2.499	1.639+1	1.837+1	-7.370
1880	2.500	-1.589+1	2.500	1.632+1	1.839+1	-7.293
1890	2.500	-1.590+1	2.500	1.624+1	1.840+1	-7.216
1900	2.500	-1.591+1	2.500	1.617+1	1.841+1	-7.140
1910	2.500	-1.593+1	2.500	1.610+1	1.843+1	-7.065
1920	2.500	-1.594+1	2.500	1.603+1	1.844+1	-6.991
1930	2.500	-1.595+1	2.500	1.596+1	1.845+1	-6.917
1940	2.500	-1.597+1	2.500	1.589+1	1.847+1	-6.845
1950	2.500	-1.598+1	2.500	1.582+1	1.848+1	-6.773
1960	2.500	-1.599+1	2.500	1.575+1	1.849+1	-6.701
1970	2.500	-1.600+1	2.500	1.569+1	1.850+1	-6.631
1980	2.500	-1.602+1	2.500	1.562+1	1.852+1	-6.561
1990	2.500	-1.603+1	2.500	1.555+1	1.853+1	-6.491
2000	2.500	-1.604+1	2.500	1.549+1	1.854+1	-6.423
2010	2.500	-1.605+1	2.500	1.542+1	1.855+1	-6.355
2020	2.500	-1.607+1	2.500	1.536+1	1.857+1	-6.288
2030	2.500	-1.608+1	2.500	1.530+1	1.858+1	-6.221
2040	2.500	-1.609+1	2.500	1.523+1	1.859+1	-6.155
2050	2.500	-1.610+1	2.500	1.517+1	1.860+1	-6.090
2060	2.500	-1.612+1	2.500	1.511+1	1.862+1	-6.025
2070	2.500	-1.613+1	2.500	1.505+1	1.863+1	-5.961
2080	2.500	-1.614+1	2.500	1.499+1	1.864+1	-5.898
2090	2.500	-1.615+1	2.500	1.493+1	1.865+1	-5.835

SPECIE H

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	2.500	-1.616+1	2.500	1.487+1	1.866+1	-5.773
2110	2.500	-1.618+1	2.500	1.481+1	1.868+1	-5.711
2120	2.500	-1.619+1	2.500	1.475+1	1.869+1	-5.650
2130	2.500	-1.620+1	2.500	1.470+1	1.870+1	-5.590
2140	2.500	-1.621+1	2.500	1.464+1	1.871+1	-5.530
2150	2.500	-1.622+1	2.500	1.458+1	1.872+1	-5.470
2160	2.500	-1.624+1	2.500	1.453+1	1.873+1	-5.411
2170	2.500	-1.625+1	2.500	1.447+1	1.875+1	-5.353
2180	2.500	-1.626+1	2.500	1.442+1	1.876+1	-5.295
2190	2.500	-1.627+1	2.500	1.436+1	1.877+1	-5.238
2200	2.500	-1.628+1	2.500	1.431+1	1.878+1	-5.181
2210	2.500	-1.629+1	2.500	1.425+1	1.879+1	-5.125
2220	2.500	-1.630+1	2.500	1.420+1	1.880+1	-5.069
2230	2.500	-1.631+1	2.500	1.415+1	1.881+1	-5.014
2240	2.500	-1.633+1	2.500	1.410+1	1.883+1	-4.959
2250	2.500	-1.634+1	2.500	1.404+1	1.884+1	-4.905
2260	2.500	-1.635+1	2.500	1.399+1	1.885+1	-4.851
2270	2.500	-1.636+1	2.500	1.394+1	1.886+1	-4.798
2280	2.500	-1.637+1	2.500	1.389+1	1.887+1	-4.745
2290	2.500	-1.638+1	2.500	1.384+1	1.888+1	-4.692
2300	2.500	-1.639+1	2.500	1.379+1	1.889+1	-4.640
2310	2.500	-1.640+1	2.500	1.374+1	1.890+1	-4.589
2320	2.500	-1.641+1	2.500	1.370+1	1.891+1	-4.538
2330	2.500	-1.642+1	2.500	1.365+1	1.892+1	-4.487
2340	2.500	-1.643+1	2.500	1.360+1	1.893+1	-4.436
2350	2.500	-1.645+1	2.500	1.355+1	1.895+1	-4.387
2360	2.500	-1.646+1	2.500	1.351+1	1.896+1	-4.337
2370	2.500	-1.647+1	2.500	1.346+1	1.897+1	-4.288
2380	2.500	-1.648+1	2.500	1.341+1	1.898+1	-4.239
2390	2.500	-1.649+1	2.500	1.337+1	1.899+1	-4.191
2400	2.500	-1.650+1	2.500	1.332+1	1.900+1	-4.143
2410	2.500	-1.651+1	2.500	1.328+1	1.901+1	-4.096
2420	2.500	-1.652+1	2.500	1.323+1	1.902+1	-4.049
2430	2.500	-1.653+1	2.500	1.319+1	1.903+1	-4.002
2440	2.500	-1.654+1	2.500	1.315+1	1.904+1	-3.956
2450	2.500	-1.655+1	2.500	1.310+1	1.905+1	-3.910
2460	2.500	-1.656+1	2.500	1.306+1	1.906+1	-3.864
2470	2.500	-1.657+1	2.500	1.302+1	1.907+1	-3.819
2480	2.500	-1.658+1	2.500	1.297+1	1.908+1	-3.774
2490	2.500	-1.659+1	2.500	1.293+1	1.909+1	-3.729
2500	2.500	-1.660+1	2.500	1.289+1	1.910+1	-3.685
2510	2.500	-1.661+1	2.500	1.285+1	1.911+1	-3.641
2520	2.500	-1.662+1	2.500	1.281+1	1.912+1	-3.598
2530	2.500	-1.663+1	2.500	1.277+1	1.913+1	-3.555
2540	2.500	-1.664+1	2.500	1.273+1	1.914+1	-3.512
2550	2.500	-1.665+1	2.500	1.269+1	1.915+1	-3.470
2560	2.500	-1.666+1	2.500	1.265+1	1.916+1	-3.428
2570	2.500	-1.667+1	2.500	1.261+1	1.917+1	-3.386
2580	2.500	-1.668+1	2.500	1.257+1	1.918+1	-3.345
2590	2.500	-1.669+1	2.500	1.253+1	1.919+1	-3.303

SPECIE H

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	2.500	-1.670+1	2.500	1.249+1	1.920+1	-3.263
2610	2.500	-1.671+1	2.500	1.245+1	1.921+1	-3.222
2620	2.500	-1.672+1	2.500	1.241+1	1.922+1	-3.182
2630	2.500	-1.673+1	2.500	1.238+1	1.923+1	-3.142
2640	2.500	-1.674+1	2.500	1.234+1	1.924+1	-3.102
2650	2.500	-1.675+1	2.500	1.230+1	1.925+1	-3.063
2660	2.500	-1.676+1	2.500	1.227+1	1.926+1	-3.024
2670	2.500	-1.676+1	2.500	1.223+1	1.926+1	-2.985
2680	2.500	-1.677+1	2.500	1.219+1	1.927+1	-2.947
2690	2.500	-1.678+1	2.500	1.216+1	1.928+1	-2.908
2700	2.500	-1.679+1	2.500	1.212+1	1.929+1	-2.870
2710	2.500	-1.680+1	2.500	1.208+1	1.930+1	-2.833
2720	2.500	-1.681+1	2.500	1.205+1	1.931+1	-2.795
2730	2.500	-1.682+1	2.500	1.201+1	1.932+1	-2.758
2740	2.500	-1.683+1	2.500	1.198+1	1.933+1	-2.721
2750	2.500	-1.684+1	2.500	1.195+1	1.934+1	-2.685
2760	2.500	-1.685+1	2.500	1.191+1	1.935+1	-2.648
2770	2.500	-1.686+1	2.500	1.188+1	1.936+1	-2.612
2780	2.500	-1.687+1	2.500	1.184+1	1.937+1	-2.577
2790	2.500	-1.687+1	2.500	1.181+1	1.937+1	-2.541
2800	2.500	-1.688+1	2.500	1.178+1	1.938+1	-2.506
2810	2.500	-1.689+1	2.500	1.174+1	1.939+1	-2.471
2820	2.500	-1.690+1	2.500	1.171+1	1.940+1	-2.436
2830	2.500	-1.691+1	2.500	1.168+1	1.941+1	-2.401
2840	2.500	-1.692+1	2.500	1.165+1	1.942+1	-2.367
2850	2.500	-1.693+1	2.500	1.161+1	1.943+1	-2.333
2860	2.500	-1.694+1	2.500	1.158+1	1.944+1	-2.299
2870	2.500	-1.695+1	2.500	1.155+1	1.945+1	-2.266
2880	2.500	-1.695+1	2.500	1.152+1	1.945+1	-2.232
2890	2.500	-1.696+1	2.500	1.149+1	1.946+1	-2.199
2900	2.500	-1.697+1	2.500	1.146+1	1.947+1	-2.166
2910	2.500	-1.698+1	2.500	1.143+1	1.948+1	-2.133
2920	2.500	-1.699+1	2.500	1.140+1	1.949+1	-2.101
2930	2.500	-1.700+1	2.500	1.137+1	1.950+1	-2.069
2940	2.500	-1.701+1	2.500	1.134+1	1.951+1	-2.036
2950	2.500	-1.701+1	2.500	1.131+1	1.951+1	-2.004
2960	2.500	-1.702+1	2.500	1.128+1	1.952+1	-1.973
2970	2.500	-1.703+1	2.500	1.125+1	1.953+1	-1.941
2980	2.500	-1.704+1	2.500	1.122+1	1.954+1	-1.910
2990	2.500	-1.705+1	2.500	1.119+1	1.955+1	-1.879
3000	2.500	-1.706+1	2.500	1.116+1	1.956+1	-1.848
3010	2.500	-1.706+1	2.500	1.113+1	1.956+1	-1.817
3020	2.500	-1.707+1	2.500	1.110+1	1.957+1	-1.787
3030	2.500	-1.708+1	2.500	1.107+1	1.958+1	-1.757
3040	2.500	-1.709+1	2.500	1.104+1	1.959+1	-1.727
3050	2.500	-1.710+1	2.500	1.102+1	1.960+1	-1.697
3060	2.500	-1.711+1	2.500	1.099+1	1.961+1	-1.668
3070	2.500	-1.711+1	2.500	1.096+1	1.961+1	-1.638
3080	2.500	-1.712+1	2.500	1.093+1	1.962+1	-1.609
3090	2.500	-1.713+1	2.500	1.091+1	1.963+1	-1.580

SPECIE H						
TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	2.500	-1.714+1	2.500	1.088+1	1.964+1	-1.551
3110	2.500	-1.715+1	2.500	1.085+1	1.965+1	-1.523
3120	2.500	-1.715+1	2.500	1.083+1	1.965+1	-1.494
3130	2.500	-1.716+1	2.500	1.080+1	1.966+1	-1.466
3140	2.500	-1.717+1	2.500	1.077+1	1.967+1	-1.438
3150	2.500	-1.718+1	2.500	1.075+1	1.968+1	-1.410
3160	2.500	-1.719+1	2.500	1.072+1	1.969+1	-1.382
3170	2.500	-1.719+1	2.500	1.069+1	1.969+1	-1.354
3180	2.500	-1.720+1	2.500	1.067+1	1.970+1	-1.327
3190	2.500	-1.721+1	2.500	1.064+1	1.971+1	-1.299
3200	2.500	-1.722+1	2.500	1.062+1	1.972+1	-1.272
3210	2.500	-1.723+1	2.500	1.059+1	1.972+1	-1.245
3220	2.500	-1.723+1	2.500	1.057+1	1.973+1	-1.219
3230	2.500	-1.724+1	2.500	1.054+1	1.974+1	-1.192
3240	2.500	-1.725+1	2.500	1.052+1	1.975+1	-1.165
3250	2.500	-1.726+1	2.500	1.049+1	1.976+1	-1.139
3260	2.500	-1.726+1	2.500	1.047+1	1.976+1	-1.113
3270	2.500	-1.727+1	2.500	1.044+1	1.977+1	-1.087
3280	2.500	-1.728+1	2.500	1.042+1	1.978+1	-1.061
3290	2.500	-1.729+1	2.500	1.040+1	1.979+1	-1.036
3300	2.500	-1.729+1	2.500	1.037+1	1.979+1	-1.010
3310	2.500	-1.730+1	2.500	1.035+1	1.980+1	-9.847-1
3320	2.500	-1.731+1	2.500	1.032+1	1.981+1	-9.595-1
3330	2.500	-1.732+1	2.500	1.030+1	1.982+1	-9.345-1
3340	2.500	-1.732+1	2.500	1.028+1	1.982+1	-9.097-1
3350	2.500	-1.733+1	2.500	1.025+1	1.983+1	-8.849-1
3360	2.500	-1.734+1	2.500	1.023+1	1.984+1	-8.604-1
3370	2.500	-1.735+1	2.500	1.021+1	1.985+1	-8.359-1
3380	2.500	-1.735+1	2.500	1.018+1	1.985+1	-8.116-1
3390	2.500	-1.736+1	2.500	1.016+1	1.986+1	-7.875-1
3400	2.500	-1.737+1	2.500	1.014+1	1.987+1	-7.634-1
3410	2.500	-1.738+1	2.500	1.012+1	1.988+1	-7.395-1
3420	2.500	-1.738+1	2.500	1.010+1	1.988+1	-7.157-1
3430	2.500	-1.739+1	2.500	1.007+1	1.989+1	-6.920-1
3440	2.500	-1.740+1	2.500	1.005+1	1.990+1	-6.685-1
3450	2.500	-1.741+1	2.500	1.003+1	1.991+1	-6.451-1
3460	2.500	-1.741+1	2.500	1.001+1	1.991+1	-6.218-1
3470	2.500	-1.742+1	2.500	9.986	1.992+1	-5.987-1
3480	2.500	-1.743+1	2.500	9.964	1.993+1	-5.757-1
3490	2.500	-1.743+1	2.500	9.943	1.993+1	-5.528-1
3500	2.500	-1.744+1	2.500	9.922	1.994+1	-5.301-1
3510	2.500	-1.745+1	2.500	9.901	1.995+1	-5.074-1
3520	2.500	-1.746+1	2.500	9.879	1.996+1	-4.849-1
3530	2.500	-1.746+1	2.500	9.859	1.996+1	-4.626-1
3540	2.500	-1.747+1	2.500	9.838	1.997+1	-4.403-1
3550	2.500	-1.748+1	2.500	9.817	1.998+1	-4.182-1
3560	2.500	-1.748+1	2.500	9.797	1.998+1	-3.963-1
3570	2.500	-1.749+1	2.500	9.776	1.999+1	-3.744-1
3580	2.500	-1.750+1	2.500	9.756	2.000+1	-3.527-1
3590	2.500	-1.750+1	2.500	9.736	2.000+1	-3.310-1

SPECIE H

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	2.500	-1.751+1	2.500	9.716	2.001+1	-3.096-1
3610	2.500	-1.752+1	2.500	9.696	2.002+1	-2.882-1
3620	2.500	-1.753+1	2.500	9.676	2.003+1	-2.670-1
3630	2.500	-1.753+1	2.500	9.656	2.003+1	-2.458-1
3640	2.500	-1.754+1	2.500	9.636	2.004+1	-2.248-1
3650	2.500	-1.755+1	2.500	9.617	2.005+1	-2.039-1
3660	2.500	-1.755+1	2.500	9.597	2.005+1	-1.832-1
3670	2.500	-1.756+1	2.500	9.578	2.006+1	-1.625-1
3680	2.500	-1.757+1	2.500	9.559	2.007+1	-1.420-1
3690	2.500	-1.757+1	2.500	9.540	2.007+1	-1.215-1
3700	2.500	-1.758+1	2.500	9.521	2.008+1	-1.012-1
3710	2.500	-1.759+1	2.500	9.502	2.009+1	-8.095-2
3720	2.500	-1.759+1	2.500	9.483	2.009+1	-6.079-2
3730	2.500	-1.760+1	2.500	9.464	2.010+1	-4.074-2
3740	2.500	-1.761+1	2.500	9.445	2.011+1	-2.080-2
3750	2.500	-1.761+1	2.500	9.427	2.011+1	-9.604-4
3760	2.500	-1.762+1	2.500	9.408	2.012+1	1.877-2
3770	2.500	-1.763+1	2.500	9.390	2.013+1	3.840-2
3780	2.500	-1.763+1	2.500	9.372	2.013+1	5.791-2
3790	2.500	-1.764+1	2.500	9.354	2.014+1	7.732-2
3800	2.500	-1.765+1	2.500	9.336	2.015+1	9.663-2
3810	2.500	-1.765+1	2.500	9.318	2.015+1	1.158-1
3820	2.500	-1.766+1	2.500	9.300	2.016+1	1.349-1
3830	2.500	-1.767+1	2.500	9.282	2.017+1	1.538-1
3840	2.500	-1.767+1	2.500	9.265	2.017+1	1.727-1
3850	2.500	-1.768+1	2.500	9.247	2.018+1	1.914-1
3860	2.500	-1.769+1	2.500	9.229	2.019+1	2.101-1
3870	2.500	-1.769+1	2.500	9.212	2.019+1	2.286-1
3880	2.500	-1.770+1	2.500	9.195	2.020+1	2.471-1
3890	2.500	-1.771+1	2.500	9.178	2.021+1	2.655-1
3900	2.500	-1.771+1	2.500	9.160	2.021+1	2.837-1
3910	2.500	-1.772+1	2.500	9.143	2.022+1	3.020-1
3920	2.500	-1.772+1	2.500	9.126	2.022+1	3.202-1
3930	2.500	-1.773+1	2.500	9.110	2.023+1	3.383-1
3940	2.500	-1.774+1	2.500	9.093	2.024+1	3.562-1
3950	2.500	-1.774+1	2.500	9.076	2.024+1	3.742-1
3960	2.500	-1.775+1	2.500	9.060	2.025+1	3.920-1
3970	2.500	-1.776+1	2.500	9.043	2.026+1	4.098-1
3980	2.500	-1.776+1	2.500	9.027	2.026+1	4.275-1
3990	2.500	-1.777+1	2.500	9.010	2.027+1	4.451-1
4000	2.500	-1.778+1	2.500	8.994	2.027+1	4.626-1
4010	2.500	-1.778+1	2.500	8.978	2.028+1	4.799-1
4020	2.500	-1.779+1	2.500	8.962	2.029+1	4.971-1
4030	2.500	-1.779+1	2.500	8.946	2.029+1	5.143-1
4040	2.500	-1.780+1	2.500	8.930	2.030+1	5.314-1
4050	2.500	-1.781+1	2.500	8.914	2.031+1	5.484-1
4060	2.500	-1.781+1	2.500	8.898	2.031+1	5.653-1
4070	2.500	-1.782+1	2.500	8.882	2.032+1	5.821-1
4080	2.500	-1.782+1	2.500	8.867	2.032+1	5.988-1
4090	2.500	-1.783+1	2.500	8.851	2.033+1	6.154-1

SPECIE H

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	2.500	-1.784+1	2.500	8.836	2.034+1	6.320-1
4110	2.500	-1.784+1	2.500	8.820	2.034+1	6.486-1
4120	2.500	-1.785+1	2.500	8.805	2.035+1	6.651-1
4130	2.500	-1.785+1	2.500	8.790	2.035+1	6.815-1
4140	2.500	-1.786+1	2.500	8.774	2.036+1	6.978-1
4150	2.500	-1.787+1	2.500	8.759	2.037+1	7.140-1
4160	2.500	-1.787+1	2.500	8.744	2.037+1	7.302-1
4170	2.500	-1.788+1	2.500	8.729	2.038+1	7.463-1
4180	2.500	-1.789+1	2.500	8.714	2.038+1	7.624-1
4190	2.500	-1.789+1	2.500	8.699	2.039+1	7.783-1
4200	2.500	-1.790+1	2.500	8.685	2.040+1	7.942-1
4210	2.500	-1.790+1	2.500	8.670	2.040+1	8.100-1
4220	2.500	-1.791+1	2.500	8.655	2.041+1	8.257-1
4230	2.500	-1.792+1	2.500	8.641	2.041+1	8.414-1
4240	2.500	-1.792+1	2.500	8.626	2.042+1	8.570-1
4250	2.500	-1.793+1	2.500	8.612	2.043+1	8.725-1
4260	2.500	-1.793+1	2.500	8.598	2.043+1	8.879-1
4270	2.500	-1.794+1	2.500	8.583	2.044+1	9.032-1
4280	2.500	-1.794+1	2.500	8.569	2.044+1	9.185-1
4290	2.500	-1.795+1	2.500	8.555	2.045+1	9.337-1
4300	2.500	-1.796+1	2.500	8.541	2.046+1	9.488-1
4310	2.500	-1.796+1	2.500	8.527	2.046+1	9.639-1
4320	2.500	-1.797+1	2.500	8.513	2.047+1	9.788-1
4330	2.500	-1.797+1	2.500	8.499	2.047+1	9.937-1
4340	2.500	-1.798+1	2.500	8.485	2.048+1	1.009
4350	2.500	-1.798+1	2.500	8.471	2.048+1	1.023
4360	2.500	-1.799+1	2.500	8.458	2.049+1	1.038
4370	2.500	-1.800+1	2.500	8.444	2.050+1	1.053
4380	2.500	-1.800+1	2.500	8.431	2.050+1	1.067
4390	2.500	-1.801+1	2.500	8.417	2.051+1	1.082
4400	2.500	-1.801+1	2.500	8.404	2.051+1	1.096
4410	2.500	-1.802+1	2.500	8.390	2.052+1	1.110
4420	2.500	-1.802+1	2.500	8.377	2.052+1	1.125
4430	2.500	-1.803+1	2.500	8.364	2.053+1	1.139
4440	2.500	-1.804+1	2.500	8.350	2.054+1	1.153
4450	2.500	-1.804+1	2.500	8.337	2.054+1	1.167
4460	2.500	-1.805+1	2.500	8.324	2.055+1	1.181
4470	2.500	-1.805+1	2.500	8.311	2.055+1	1.195
4480	2.500	-1.806+1	2.500	8.298	2.056+1	1.209
4490	2.500	-1.806+1	2.500	8.285	2.056+1	1.223
4500	2.500	-1.807+1	2.500	8.272	2.057+1	1.236
4510	2.500	-1.808+1	2.500	8.260	2.057+1	1.250
4520	2.500	-1.808+1	2.500	8.247	2.058+1	1.264
4530	2.500	-1.809+1	2.500	8.234	2.059+1	1.278
4540	2.500	-1.809+1	2.500	8.222	2.059+1	1.291
4550	2.500	-1.810+1	2.500	8.209	2.060+1	1.305
4560	2.500	-1.810+1	2.500	8.196	2.060+1	1.318
4570	2.500	-1.811+1	2.500	8.184	2.061+1	1.332
4580	2.500	-1.811+1	2.500	8.172	2.061+1	1.345
4590	2.500	-1.812+1	2.500	8.159	2.062+1	1.358

SPECIE H

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	2.500	-1.812+1	2.500	8.147	2.062+1	1.371
4610	2.500	-1.813+1	2.500	8.135	2.063+1	1.385
4620	2.500	-1.814+1	2.500	8.122	2.064+1	1.398
4630	2.500	-1.814+1	2.500	8.110	2.064+1	1.411
4640	2.500	-1.815+1	2.500	8.098	2.065+1	1.424
4650	2.500	-1.815+1	2.500	8.086	2.065+1	1.437
4660	2.500	-1.816+1	2.500	8.074	2.066+1	1.449
4670	2.500	-1.816+1	2.500	8.062	2.066+1	1.462
4680	2.500	-1.817+1	2.500	8.050	2.067+1	1.475
4690	2.500	-1.817+1	2.500	8.039	2.067+1	1.488
4700	2.500	-1.818+1	2.500	8.027	2.068+1	1.500
4710	2.500	-1.818+1	2.500	8.015	2.068+1	1.513
4720	2.500	-1.819+1	2.500	8.003	2.069+1	1.526
4730	2.500	-1.819+1	2.500	7.992	2.069+1	1.538
4740	2.500	-1.820+1	2.500	7.980	2.070+1	1.551
4750	2.500	-1.820+1	2.500	7.969	2.070+1	1.563
4760	2.500	-1.821+1	2.500	7.957	2.071+1	1.576
4770	2.500	-1.822+1	2.500	7.946	2.072+1	1.588
4780	2.500	-1.822+1	2.500	7.934	2.072+1	1.600
4790	2.500	-1.823+1	2.500	7.923	2.073+1	1.613
4800	2.500	-1.823+1	2.500	7.912	2.073+1	1.625
4810	2.500	-1.824+1	2.500	7.900	2.074+1	1.637
4820	2.500	-1.824+1	2.500	7.889	2.074+1	1.649
4830	2.500	-1.825+1	2.500	7.878	2.075+1	1.661
4840	2.500	-1.825+1	2.500	7.867	2.075+1	1.673
4850	2.500	-1.826+1	2.500	7.856	2.076+1	1.685
4860	2.500	-1.826+1	2.500	7.845	2.076+1	1.696
4870	2.500	-1.827+1	2.500	7.834	2.077+1	1.708
4880	2.500	-1.827+1	2.500	7.823	2.077+1	1.720
4890	2.500	-1.828+1	2.500	7.812	2.078+1	1.732
4900	2.500	-1.828+1	2.500	7.801	2.078+1	1.743
4910	2.500	-1.829+1	2.500	7.790	2.079+1	1.755
4920	2.500	-1.829+1	2.500	7.780	2.079+1	1.766
4930	2.500	-1.830+1	2.500	7.769	2.080+1	1.778
4940	2.500	-1.830+1	2.500	7.758	2.080+1	1.789
4950	2.500	-1.831+1	2.500	7.748	2.081+1	1.801
4960	2.500	-1.831+1	2.500	7.737	2.081+1	1.812
4970	2.500	-1.832+1	2.500	7.727	2.082+1	1.823
4980	2.500	-1.832+1	2.500	7.716	2.082+1	1.835
4990	2.500	-1.833+1	2.500	7.706	2.083+1	1.846
5000	2.500	-1.833+1	2.500	7.695	2.083+1	1.857
5010	2.500	-1.834+1	2.500	7.685	2.084+1	1.868
5020	2.500	-1.834+1	2.500	7.674	2.084+1	1.879
5030	2.500	-1.835+1	2.500	7.664	2.085+1	1.890
5040	2.500	-1.835+1	2.500	7.654	2.085+1	1.901
5050	2.500	-1.836+1	2.500	7.644	2.086+1	1.912
5060	2.500	-1.836+1	2.500	7.634	2.086+1	1.923
5070	2.500	-1.837+1	2.500	7.623	2.087+1	1.934
5080	2.500	-1.837+1	2.500	7.613	2.087+1	1.945
5090	2.500	-1.838+1	2.500	7.603	2.088+1	1.955

SPECIE H

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	2.500	-1.838+1	2.500	7.593	2.088+1	1.966
5110	2.500	-1.839+1	2.500	7.583	2.089+1	1.977
5120	2.500	-1.839+1	2.500	7.573	2.089+1	1.987
5130	2.500	-1.840+1	2.500	7.564	2.090+1	1.998
5140	2.500	-1.840+1	2.500	7.554	2.090+1	2.009
5150	2.500	-1.841+1	2.500	7.544	2.091+1	2.019
5160	2.500	-1.841+1	2.500	7.534	2.091+1	2.030
5170	2.500	-1.842+1	2.500	7.524	2.092+1	2.040
5180	2.500	-1.842+1	2.500	7.515	2.092+1	2.051
5190	2.500	-1.843+1	2.500	7.505	2.093+1	2.061
5200	2.500	-1.843+1	2.500	7.495	2.093+1	2.071
5210	2.500	-1.844+1	2.500	7.486	2.094+1	2.082
5220	2.500	-1.844+1	2.500	7.476	2.094+1	2.092
5230	2.500	-1.845+1	2.500	7.467	2.095+1	2.102
5240	2.500	-1.845+1	2.500	7.457	2.095+1	2.112
5250	2.500	-1.845+1	2.500	7.448	2.095+1	2.122
5260	2.500	-1.846+1	2.500	7.438	2.096+1	2.133
5270	2.500	-1.846+1	2.500	7.429	2.096+1	2.143
5280	2.500	-1.847+1	2.500	7.420	2.097+1	2.153
5290	2.500	-1.847+1	2.500	7.410	2.097+1	2.163
5300	2.500	-1.848+1	2.500	7.401	2.098+1	2.173
5310	2.500	-1.848+1	2.500	7.392	2.098+1	2.183
5320	2.500	-1.849+1	2.500	7.383	2.099+1	2.193
5330	2.500	-1.849+1	2.500	7.374	2.099+1	2.202
5340	2.500	-1.850+1	2.500	7.364	2.100+1	2.212
5350	2.500	-1.850+1	2.500	7.355	2.100+1	2.222
5360	2.500	-1.851+1	2.500	7.346	2.101+1	2.232
5370	2.500	-1.851+1	2.500	7.337	2.101+1	2.241
5380	2.500	-1.852+1	2.500	7.328	2.102+1	2.251
5390	2.500	-1.852+1	2.500	7.319	2.102+1	2.261
5400	2.500	-1.853+1	2.500	7.310	2.103+1	2.270
5410	2.500	-1.853+1	2.500	7.301	2.103+1	2.280
5420	2.500	-1.853+1	2.500	7.293	2.103+1	2.290
5430	2.500	-1.854+1	2.500	7.284	2.104+1	2.299
5440	2.500	-1.854+1	2.500	7.275	2.104+1	2.308
5450	2.500	-1.855+1	2.500	7.266	2.105+1	2.318
5460	2.500	-1.855+1	2.500	7.257	2.105+1	2.327
5470	2.500	-1.856+1	2.500	7.249	2.106+1	2.337
5480	2.500	-1.856+1	2.500	7.240	2.106+1	2.346
5490	2.500	-1.857+1	2.500	7.231	2.107+1	2.355
5500	2.500	-1.857+1	2.500	7.223	2.107+1	2.364
5510	2.500	-1.858+1	2.500	7.214	2.108+1	2.373
5520	2.500	-1.858+1	2.500	7.206	2.108+1	2.383
5530	2.500	-1.858+1	2.500	7.197	2.108+1	2.392
5540	2.500	-1.859+1	2.500	7.189	2.109+1	2.401
5550	2.500	-1.859+1	2.500	7.180	2.109+1	2.410
5560	2.500	-1.860+1	2.500	7.172	2.110+1	2.419
5570	2.500	-1.860+1	2.500	7.164	2.110+1	2.428
5580	2.500	-1.861+1	2.500	7.155	2.111+1	2.437
5590	2.500	-1.861+1	2.500	7.147	2.111+1	2.446

SPECIE H

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	2.500	-1.862+1	2.500	7.139	2.112+1	2.455
5610	2.500	-1.862+1	2.500	7.130	2.112+1	2.464
5620	2.500	-1.862+1	2.500	7.122	2.112+1	2.473
5630	2.500	-1.863+1	2.500	7.114	2.113+1	2.481
5640	2.500	-1.863+1	2.500	7.106	2.113+1	2.490
5650	2.500	-1.864+1	2.500	7.098	2.114+1	2.499
5660	2.500	-1.864+1	2.500	7.089	2.114+1	2.508
5670	2.500	-1.865+1	2.500	7.081	2.115+1	2.516
5680	2.500	-1.865+1	2.500	7.073	2.115+1	2.525
5690	2.500	-1.866+1	2.500	7.065	2.116+1	2.534
5700	2.500	-1.866+1	2.500	7.057	2.116+1	2.542
5710	2.500	-1.866+1	2.500	7.049	2.116+1	2.551
5720	2.500	-1.867+1	2.500	7.041	2.117+1	2.559
5730	2.500	-1.867+1	2.500	7.033	2.117+1	2.568
5740	2.500	-1.868+1	2.500	7.025	2.118+1	2.577
5750	2.500	-1.868+1	2.500	7.018	2.118+1	2.585
5760	2.500	-1.869+1	2.500	7.010	2.119+1	2.594
5770	2.500	-1.869+1	2.500	7.002	2.119+1	2.602
5780	2.500	-1.870+1	2.500	6.994	2.120+1	2.610
5790	2.500	-1.870+1	2.500	6.986	2.120+1	2.619
5800	2.500	-1.870+1	2.500	6.979	2.120+1	2.627
5810	2.500	-1.871+1	2.500	6.971	2.121+1	2.635
5820	2.500	-1.871+1	2.500	6.963	2.121+1	2.644
5830	2.500	-1.872+1	2.500	6.956	2.122+1	2.652
5840	2.500	-1.872+1	2.500	6.948	2.122+1	2.660
5850	2.500	-1.873+1	2.500	6.940	2.123+1	2.668
5860	2.500	-1.873+1	2.500	6.933	2.123+1	2.677
5870	2.500	-1.873+1	2.500	6.925	2.123+1	2.685
5880	2.500	-1.874+1	2.500	6.918	2.124+1	2.693
5890	2.500	-1.874+1	2.500	6.910	2.124+1	2.701
5900	2.500	-1.875+1	2.500	6.903	2.125+1	2.709
5910	2.500	-1.875+1	2.500	6.895	2.125+1	2.717
5920	2.500	-1.876+1	2.500	6.888	2.126+1	2.725
5930	2.500	-1.876+1	2.500	6.880	2.126+1	2.733
5940	2.500	-1.876+1	2.500	6.873	2.126+1	2.741
5950	2.500	-1.877+1	2.500	6.866	2.127+1	2.749
5960	2.500	-1.877+1	2.500	6.858	2.127+1	2.757
5970	2.500	-1.878+1	2.500	6.851	2.128+1	2.764
5980	2.500	-1.878+1	2.500	6.844	2.128+1	2.772
5990	2.500	-1.878+1	2.500	6.837	2.128+1	2.780
6000	2.500	-1.879+1	2.500	6.829	2.129+1	2.788

SPECIE H2

MOLECULAR WEIGHT EQUALS 2.0160

DELTA E ZERO EQUALS 0.0 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(SPECIE IS IN STANDARD STATE AT ZERO DEGREES KELVIN)

THERMAL

(J. S. GORDON WADC TR 57-33, 1/57) (4)

TEMP	SPECIE H2				
	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
100	3.386	-9.792	3.608	3.608	1.340+1
110	3.345	-9.941	3.575	3.575	1.352+1
120	3.315	-1.009+1	3.546	3.546	1.364+1
130	3.292	-1.023+1	3.521	3.521	1.375+1
140	3.278	-1.037+1	3.499	3.499	1.387+1
150	3.270	-1.051+1	3.480	3.480	1.399+1
160	3.268	-1.065+1	3.464	3.464	1.411+1
170	3.270	-1.078+1	3.451	3.451	1.423+1
180	3.278	-1.091+1	3.440	3.440	1.435+1
190	3.288	-1.103+1	3.431	3.431	1.447+1
200	3.302	-1.116+1	3.424	3.424	1.459+1
210	3.317	-1.128+1	3.419	3.419	1.470+1
220	3.334	-1.141+1	3.415	3.415	1.482+1
230	3.352	-1.152+1	3.413	3.413	1.494+1
240	3.370	-1.164+1	3.411	3.411	1.505+1
250	3.389	-1.176+1	3.411	3.411	1.517+1
260	3.407	-1.187+1	3.411	3.411	1.528+1
270	3.425	-1.198+1	3.412	3.412	1.540+1
280	3.441	-1.209+1	3.413	3.413	1.551+1
290	3.456	-1.220+1	3.415	3.415	1.562+1
300	3.470	-1.231+1	3.417	3.417	1.573+1
310	3.477	-1.242+1	3.418	3.418	1.584+1
320	3.484	-1.252+1	3.420	3.420	1.594+1
330	3.489	-1.263+1	3.422	3.422	1.605+1
340	3.494	-1.273+1	3.424	3.424	1.615+1
350	3.498	-1.283+1	3.426	3.426	1.626+1
360	3.501	-1.293+1	3.428	3.428	1.636+1
370	3.504	-1.302+1	3.430	3.430	1.645+1
380	3.506	-1.312+1	3.432	3.432	1.655+1
390	3.508	-1.321+1	3.434	3.434	1.664+1
400	3.509	-1.330+1	3.436	3.436	1.673+1
410	3.511	-1.338+1	3.438	3.438	1.682+1
420	3.512	-1.347+1	3.439	3.439	1.690+1
430	3.513	-1.355+1	3.441	3.441	1.699+1
440	3.514	-1.363+1	3.443	3.443	1.707+1
450	3.514	-1.370+1	3.444	3.444	1.715+1
460	3.515	-1.378+1	3.446	3.446	1.723+1
470	3.516	-1.385+1	3.447	3.447	1.730+1
480	3.517	-1.393+1	3.449	3.449	1.737+1
490	3.518	-1.400+1	3.450	3.450	1.744+1
500	3.519	-1.406+1	3.452	3.452	1.752+1
510	3.520	-1.413+1	3.453	3.453	1.758+1
520	3.521	-1.420+1	3.454	3.454	1.765+1
530	3.521	-1.426+1	3.455	3.455	1.772+1
540	3.522	-1.433+1	3.456	3.456	1.779+1
550	3.523	-1.439+1	3.458	3.458	1.785+1
560	3.524	-1.445+1	3.459	3.459	1.791+1
570	3.524	-1.452+1	3.460	3.460	1.798+1
580	3.525	-1.458+1	3.461	3.461	1.804+1
590	3.526	-1.464+1	3.462	3.462	1.810+1

SPECIE H2					
TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
600	3.526	-1.469+1	3.463	3.463	1.816+1
610	3.528	-1.475+1	3.464	3.464	1.821+1
620	3.529	-1.481+1	3.465	3.465	1.827+1
630	3.530	-1.486+1	3.466	3.466	1.833+1
640	3.531	-1.492+1	3.467	3.467	1.838+1
650	3.532	-1.497+1	3.468	3.468	1.844+1
660	3.534	-1.502+1	3.469	3.469	1.849+1
670	3.535	-1.508+1	3.470	3.470	1.855+1
680	3.537	-1.513+1	3.471	3.471	1.860+1
690	3.538	-1.518+1	3.472	3.472	1.865+1
700	3.540	-1.523+1	3.473	3.473	1.870+1
710	3.542	-1.528+1	3.474	3.474	1.875+1
720	3.544	-1.533+1	3.475	3.475	1.880+1
730	3.546	-1.538+1	3.476	3.476	1.885+1
740	3.548	-1.542+1	3.477	3.477	1.890+1
750	3.550	-1.547+1	3.478	3.478	1.895+1
760	3.552	-1.552+1	3.479	3.479	1.899+1
770	3.554	-1.556+1	3.480	3.480	1.904+1
780	3.557	-1.561+1	3.481	3.481	1.909+1
790	3.559	-1.565+1	3.482	3.482	1.913+1
800	3.562	-1.569+1	3.483	3.483	1.918+1
810	3.564	-1.574+1	3.484	3.484	1.922+1
820	3.567	-1.578+1	3.485	3.485	1.926+1
830	3.570	-1.582+1	3.486	3.486	1.931+1
840	3.573	-1.586+1	3.487	3.487	1.935+1
850	3.576	-1.590+1	3.488	3.488	1.939+1
860	3.579	-1.595+1	3.489	3.489	1.943+1
870	3.582	-1.599+1	3.490	3.490	1.948+1
880	3.585	-1.603+1	3.491	3.491	1.952+1
890	3.589	-1.606+1	3.492	3.492	1.956+1
900	3.592	-1.610+1	3.493	3.493	1.960+1
910	3.596	-1.614+1	3.495	3.495	1.964+1
920	3.600	-1.618+1	3.496	3.496	1.968+1
930	3.604	-1.622+1	3.497	3.497	1.971+1
940	3.608	-1.626+1	3.498	3.498	1.975+1
950	3.612	-1.629+1	3.499	3.499	1.979+1
960	3.616	-1.633+1	3.500	3.500	1.983+1
970	3.620	-1.636+1	3.502	3.502	1.987+1
980	3.624	-1.640+1	3.503	3.503	1.990+1
990	3.628	-1.644+1	3.504	3.504	1.994+1
1000	3.633	-1.647+1	3.505	3.505	1.998+1
1010	3.637	-1.651+1	3.507	3.507	2.001+1
1020	3.641	-1.654+1	3.508	3.508	2.005+1
1030	3.646	-1.658+1	3.509	3.509	2.008+1
1040	3.650	-1.661+1	3.511	3.511	2.012+1
1050	3.655	-1.664+1	3.512	3.512	2.016+1
1060	3.660	-1.668+1	3.513	3.513	2.019+1
1070	3.664	-1.671+1	3.515	3.515	2.022+1
1080	3.669	-1.674+1	3.516	3.516	2.026+1
1090	3.674	-1.678+1	3.518	3.518	2.029+1

SPECIE H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
1100	3.678	-1.681+1	3.519	3.519	2.033+1
1110	3.683	-1.684+1	3.521	3.521	2.036+1
1120	3.688	-1.687+1	3.522	3.522	2.039+1
1130	3.693	-1.690+1	3.524	3.524	2.043+1
1140	3.698	-1.693+1	3.525	3.525	2.046+1
1150	3.702	-1.696+1	3.527	3.527	2.049+1
1160	3.707	-1.700+1	3.528	3.528	2.052+1
1170	3.712	-1.703+1	3.530	3.530	2.055+1
1180	3.717	-1.706+1	3.531	3.531	2.059+1
1190	3.722	-1.708+1	3.533	3.533	2.062+1
1200	3.727	-1.711+1	3.534	3.534	2.065+1
1210	3.732	-1.714+1	3.536	3.536	2.068+1
1220	3.737	-1.717+1	3.537	3.537	2.071+1
1230	3.742	-1.720+1	3.539	3.539	2.074+1
1240	3.747	-1.723+1	3.541	3.541	2.077+1
1250	3.753	-1.726+1	3.542	3.542	2.080+1
1260	3.758	-1.729+1	3.544	3.544	2.083+1
1270	3.763	-1.731+1	3.546	3.546	2.086+1
1280	3.768	-1.734+1	3.548	3.548	2.089+1
1290	3.773	-1.737+1	3.549	3.549	2.092+1
1300	3.779	-1.740+1	3.551	3.551	2.095+1
1310	3.784	-1.742+1	3.553	3.553	2.098+1
1320	3.789	-1.745+1	3.555	3.555	2.101+1
1330	3.794	-1.748+1	3.556	3.556	2.103+1
1340	3.800	-1.751+1	3.558	3.558	2.106+1
1350	3.805	-1.753+1	3.560	3.560	2.109+1
1360	3.810	-1.756+1	3.562	3.562	2.112+1
1370	3.816	-1.758+1	3.564	3.564	2.115+1
1380	3.821	-1.761+1	3.565	3.565	2.118+1
1390	3.826	-1.764+1	3.567	3.567	2.120+1
1400	3.832	-1.766+1	3.569	3.569	2.123+1
1410	3.837	-1.769+1	3.571	3.571	2.126+1
1420	3.842	-1.771+1	3.573	3.573	2.129+1
1430	3.848	-1.774+1	3.575	3.575	2.131+1
1440	3.853	-1.776+1	3.577	3.577	2.134+1
1450	3.858	-1.779+1	3.579	3.579	2.137+1
1460	3.864	-1.781+1	3.581	3.581	2.139+1
1470	3.869	-1.784+1	3.583	3.583	2.142+1
1480	3.874	-1.786+1	3.585	3.585	2.145+1
1490	3.879	-1.788+1	3.587	3.587	2.147+1
1500	3.885	-1.791+1	3.589	3.589	2.150+1
1510	3.890	-1.793+1	3.590	3.590	2.152+1
1520	3.895	-1.796+1	3.592	3.592	2.155+1
1530	3.900	-1.798+1	3.594	3.594	2.157+1
1540	3.906	-1.800+1	3.596	3.596	2.160+1
1550	3.911	-1.803+1	3.598	3.598	2.162+1
1560	3.916	-1.805+1	3.600	3.600	2.165+1
1570	3.921	-1.807+1	3.603	3.603	2.167+1
1580	3.926	-1.809+1	3.605	3.605	2.170+1
1590	3.931	-1.812+1	3.607	3.607	2.172+1

SPECIE H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
1600	3.937	-1.814+1	3.609	3.609	2.175+1
1610	3.942	-1.816+1	3.611	3.611	2.177+1
1620	3.947	-1.818+1	3.613	3.613	2.180+1
1630	3.952	-1.821+1	3.615	3.615	2.182+1
1640	3.957	-1.823+1	3.617	3.617	2.185+1
1650	3.962	-1.825+1	3.619	3.619	2.187+1
1660	3.967	-1.827+1	3.621	3.621	2.189+1
1670	3.972	-1.829+1	3.623	3.623	2.192+1
1680	3.977	-1.832+1	3.625	3.625	2.194+1
1690	3.982	-1.834+1	3.627	3.627	2.197+1
1700	3.987	-1.836+1	3.629	3.629	2.199+1
1710	3.992	-1.838+1	3.631	3.631	2.201+1
1720	3.997	-1.840+1	3.634	3.634	2.204+1
1730	4.002	-1.842+1	3.636	3.636	2.206+1
1740	4.006	-1.844+1	3.638	3.638	2.208+1
1750	4.011	-1.846+1	3.640	3.640	2.210+1
1760	4.016	-1.849+1	3.642	3.642	2.213+1
1770	4.021	-1.851+1	3.644	3.644	2.215+1
1780	4.026	-1.853+1	3.646	3.646	2.217+1
1790	4.030	-1.855+1	3.649	3.649	2.220+1
1800	4.035	-1.857+1	3.651	3.651	2.222+1
1810	4.040	-1.859+1	3.653	3.653	2.224+1
1820	4.044	-1.861+1	3.655	3.655	2.226+1
1830	4.049	-1.863+1	3.657	3.657	2.228+1
1840	4.054	-1.865+1	3.659	3.659	2.231+1
1850	4.058	-1.867+1	3.661	3.661	2.233+1
1860	4.063	-1.869+1	3.664	3.664	2.235+1
1870	4.067	-1.871+1	3.666	3.666	2.237+1
1880	4.072	-1.873+1	3.668	3.668	2.239+1
1890	4.076	-1.875+1	3.670	3.670	2.242+1
1900	4.080	-1.877+1	3.672	3.672	2.244+1
1910	4.085	-1.878+1	3.674	3.674	2.246+1
1920	4.089	-1.880+1	3.676	3.676	2.248+1
1930	4.094	-1.882+1	3.678	3.678	2.250+1
1940	4.098	-1.884+1	3.681	3.681	2.252+1
1950	4.102	-1.886+1	3.683	3.683	2.254+1
1960	4.107	-1.888+1	3.685	3.685	2.256+1
1970	4.111	-1.890+1	3.687	3.687	2.259+1
1980	4.115	-1.892+1	3.689	3.689	2.261+1
1990	4.120	-1.894+1	3.691	3.691	2.263+1
2000	4.124	-1.895+1	3.694	3.694	2.265+1
2010	4.128	-1.897+1	3.696	3.696	2.267+1
2020	4.132	-1.899+1	3.698	3.698	2.269+1
2030	4.136	-1.901+1	3.700	3.700	2.271+1
2040	4.140	-1.903+1	3.702	3.702	2.273+1
2050	4.144	-1.905+1	3.704	3.704	2.275+1
2060	4.148	-1.906+1	3.706	3.706	2.277+1
2070	4.153	-1.908+1	3.709	3.709	2.279+1
2080	4.157	-1.910+1	3.711	3.711	2.281+1
2090	4.161	-1.912+1	3.713	3.713	2.283+1

SPECIE H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
2100	4.165	-1.915+1	3.715	3.715	2.285+1
2110	4.169	-1.915+1	3.717	3.717	2.287+1
2120	4.172	-1.917+1	3.719	3.719	2.289+1
2130	4.176	-1.919+1	3.721	3.721	2.291+1
2140	4.180	-1.921+1	3.724	3.724	2.293+1
2150	4.184	-1.922+1	3.726	3.726	2.295+1
2160	4.188	-1.924+1	3.728	3.728	2.297+1
2170	4.192	-1.926+1	3.730	3.730	2.299+1
2180	4.196	-1.928+1	3.732	3.732	2.301+1
2190	4.200	-1.929+1	3.734	3.734	2.303+1
2200	4.204	-1.931+1	3.736	3.736	2.305+1
2210	4.208	-1.933+1	3.738	3.738	2.306+1
2220	4.211	-1.934+1	3.741	3.741	2.308+1
2230	4.215	-1.936+1	3.743	3.743	2.310+1
2240	4.219	-1.938+1	3.745	3.745	2.312+1
2250	4.222	-1.939+1	3.747	3.747	2.314+1
2260	4.226	-1.941+1	3.749	3.749	2.316+1
2270	4.230	-1.943+1	3.751	3.751	2.318+1
2280	4.233	-1.944+1	3.753	3.753	2.320+1
2290	4.237	-1.946+1	3.755	3.755	2.321+1
2300	4.241	-1.948+1	3.757	3.757	2.323+1
2310	4.244	-1.949+1	3.759	3.759	2.325+1
2320	4.248	-1.951+1	3.762	3.762	2.327+1
2330	4.251	-1.952+1	3.764	3.764	2.329+1
2340	4.255	-1.954+1	3.766	3.766	2.331+1
2350	4.258	-1.956+1	3.768	3.768	2.332+1
2360	4.262	-1.957+1	3.770	3.770	2.334+1
2370	4.266	-1.959+1	3.772	3.772	2.336+1
2380	4.269	-1.960+1	3.774	3.774	2.338+1
2390	4.273	-1.962+1	3.776	3.776	2.340+1
2400	4.276	-1.964+1	3.778	3.778	2.341+1
2410	4.280	-1.965+1	3.781	3.781	2.343+1
2420	4.283	-1.967+1	3.783	3.783	2.345+1
2430	4.287	-1.968+1	3.785	3.785	2.347+1
2440	4.290	-1.970+1	3.787	3.787	2.349+1
2450	4.293	-1.971+1	3.789	3.789	2.350+1
2460	4.297	-1.973+1	3.791	3.791	2.352+1
2470	4.300	-1.974+1	3.793	3.793	2.354+1
2480	4.303	-1.976+1	3.795	3.795	2.355+1
2490	4.307	-1.977+1	3.797	3.797	2.357+1
2500	4.310	-1.979+1	3.799	3.799	2.359+1
2510	4.313	-1.980+1	3.801	3.801	2.361+1
2520	4.316	-1.982+1	3.803	3.803	2.362+1
2530	4.320	-1.984+1	3.805	3.805	2.364+1
2540	4.323	-1.985+1	3.807	3.807	2.366+1
2550	4.326	-1.987+1	3.809	3.809	2.367+1
2560	4.329	-1.988+1	3.811	3.811	2.369+1
2570	4.333	-1.990+1	3.813	3.813	2.371+1
2580	4.336	-1.991+1	3.815	3.815	2.373+1
2590	4.339	-1.993+1	3.817	3.817	2.374+1

SPECIE H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
2600	4.342	-1.994+1	3.819	3.819	2.376+1
2610	4.345	-1.996+1	3.821	3.821	2.378+1
2620	4.348	-1.997+1	3.823	3.823	2.379+1
2630	4.352	-1.998+1	3.825	3.825	2.381+1
2640	4.355	-2.000+1	3.827	3.827	2.383+1
2650	4.358	-2.001+1	3.829	3.829	2.384+1
2660	4.361	-2.003+1	3.831	3.831	2.386+1
2670	4.364	-2.004+1	3.833	3.833	2.387+1
2680	4.367	-2.006+1	3.835	3.835	2.389+1
2690	4.370	-2.007+1	3.837	3.837	2.391+1
2700	4.373	-2.008+1	3.839	3.839	2.392+1
2710	4.376	-2.010+1	3.841	3.841	2.394+1
2720	4.379	-2.011+1	3.843	3.843	2.396+1
2730	4.382	-2.013+1	3.845	3.845	2.397+1
2740	4.385	-2.014+1	3.847	3.847	2.399+1
2750	4.388	-2.015+1	3.849	3.849	2.400+1
2760	4.391	-2.017+1	3.851	3.851	2.402+1
2770	4.393	-2.018+1	3.853	3.853	2.404+1
2780	4.396	-2.020+1	3.855	3.855	2.405+1
2790	4.399	-2.021+1	3.857	3.857	2.407+1
2800	4.402	-2.022+1	3.859	3.859	2.408+1
2810	4.405	-2.024+1	3.861	3.861	2.410+1
2820	4.408	-2.025+1	3.863	3.863	2.411+1
2830	4.411	-2.027+1	3.865	3.865	2.413+1
2840	4.413	-2.028+1	3.866	3.866	2.415+1
2850	4.416	-2.029+1	3.868	3.868	2.416+1
2860	4.419	-2.031+1	3.870	3.870	2.418+1
2870	4.422	-2.032+1	3.872	3.872	2.419+1
2880	4.425	-2.033+1	3.874	3.874	2.421+1
2890	4.427	-2.035+1	3.876	3.876	2.422+1
2900	4.430	-2.036+1	3.878	3.878	2.424+1
2910	4.433	-2.037+1	3.880	3.880	2.425+1
2920	4.436	-2.039+1	3.882	3.882	2.427+1
2930	4.439	-2.040+1	3.884	3.884	2.428+1
2940	4.441	-2.041+1	3.886	3.886	2.430+1
2950	4.444	-2.043+1	3.887	3.887	2.431+1
2960	4.447	-2.044+1	3.889	3.889	2.433+1
2970	4.450	-2.045+1	3.891	3.891	2.434+1
2980	4.452	-2.047+1	3.893	3.893	2.436+1
2990	4.455	-2.048+1	3.895	3.895	2.437+1
3000	4.458	-2.049+1	3.897	3.897	2.439+1
3010	4.461	-2.050+1	3.899	3.899	2.440+1
3020	4.463	-2.052+1	3.900	3.900	2.442+1
3030	4.466	-2.053+1	3.902	3.902	2.444+1
3040	4.469	-2.054+1	3.904	3.904	2.445+1
3050	4.471	-2.056+1	3.906	3.906	2.447+1
3060	4.474	-2.057+1	3.908	3.908	2.448+1
3070	4.477	-2.058+1	3.910	3.910	2.450+1
3080	4.479	-2.059+1	3.911	3.911	2.452+1
3090	4.482	-2.061+1	3.913	3.913	2.454+1

SPECIE H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
3100	4.485	-2.062+1	3.915	3.915	2.455+1
3110	4.487	-2.063+1	3.917	3.917	2.457+1
3120	4.490	-2.064+1	3.919	3.919	2.458+1
3130	4.492	-2.066+1	3.921	3.921	2.459+1
3140	4.495	-2.067+1	3.922	3.922	2.460+1
3150	4.498	-2.068+1	3.924	3.924	2.462+1
3160	4.500	-2.069+1	3.926	3.926	2.463+1
3170	4.503	-2.071+1	3.928	3.928	2.464+1
3180	4.506	-2.072+1	3.930	3.930	2.466+1
3190	4.508	-2.073+1	3.932	3.932	2.467+1
3200	4.511	-2.074+1	3.933	3.933	2.468+1
3210	4.513	-2.076+1	3.935	3.935	2.469+1
3220	4.516	-2.077+1	3.937	3.937	2.470+1
3230	4.518	-2.078+1	3.939	3.939	2.472+1
3240	4.521	-2.079+1	3.941	3.941	2.473+1
3250	4.523	-2.081+1	3.943	3.943	2.475+1
3260	4.526	-2.082+1	3.944	3.944	2.476+1
3270	4.528	-2.083+1	3.946	3.946	2.477+1
3280	4.531	-2.084+1	3.948	3.948	2.479+1
3290	4.533	-2.085+1	3.950	3.950	2.480+1
3300	4.536	-2.087+1	3.951	3.951	2.482+1
3310	4.538	-2.088+1	3.953	3.953	2.483+1
3320	4.541	-2.089+1	3.955	3.955	2.484+1
3330	4.543	-2.090+1	3.957	3.957	2.486+1
3340	4.546	-2.091+1	3.958	3.958	2.487+1
3350	4.548	-2.092+1	3.960	3.960	2.489+1
3360	4.551	-2.094+1	3.962	3.962	2.490+1
3370	4.553	-2.095+1	3.964	3.964	2.491+1
3380	4.556	-2.096+1	3.965	3.965	2.493+1
3390	4.559	-2.097+1	3.967	3.967	2.494+1
3400	4.561	-2.098+1	3.969	3.969	2.495+1
3410	4.564	-2.100+1	3.971	3.971	2.497+1
3420	4.566	-2.101+1	3.972	3.972	2.498+1
3430	4.568	-2.102+1	3.974	3.974	2.499+1
3440	4.571	-2.103+1	3.976	3.976	2.501+1
3450	4.573	-2.104+1	3.978	3.978	2.502+1
3460	4.576	-2.105+1	3.979	3.979	2.503+1
3470	4.578	-2.106+1	3.981	3.981	2.505+1
3480	4.581	-2.108+1	3.983	3.983	2.506+1
3490	4.583	-2.109+1	3.985	3.985	2.507+1
3500	4.586	-2.110+1	3.986	3.986	2.509+1
3510	4.588	-2.111+1	3.988	3.988	2.510+1
3520	4.591	-2.112+1	3.990	3.990	2.511+1
3530	4.593	-2.113+1	3.991	3.991	2.512+1
3540	4.595	-2.114+1	3.993	3.993	2.514+1
3550	4.598	-2.116+1	3.995	3.995	2.515+1
3560	4.600	-2.117+1	3.996	3.996	2.516+1
3570	4.602	-2.118+1	3.998	3.998	2.518+1
3580	4.605	-2.119+1	4.000	4.000	2.519+1
3590	4.607	-2.120+1	4.002	4.002	2.520+1

SPECIE H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
3600	4.609	-2.121+1	4.003	4.003	2.521+1
3610	4.612	-2.122+1	4.005	4.005	2.523+1
3620	4.614	-2.123+1	4.007	4.007	2.524+1
3630	4.616	-2.124+1	4.008	4.008	2.525+1
3640	4.619	-2.126+1	4.010	4.010	2.527+1
3650	4.621	-2.127+1	4.012	4.012	2.528+1
3660	4.624	-2.128+1	4.013	4.013	2.529+1
3670	4.626	-2.129+1	4.015	4.015	2.530+1
3680	4.628	-2.130+1	4.017	4.017	2.532+1
3690	4.631	-2.131+1	4.018	4.018	2.533+1
3700	4.633	-2.132+1	4.020	4.020	2.534+1
3710	4.635	-2.133+1	4.022	4.022	2.535+1
3720	4.638	-2.134+1	4.023	4.023	2.537+1
3730	4.640	-2.135+1	4.025	4.025	2.538+1
3740	4.642	-2.136+1	4.027	4.027	2.539+1
3750	4.645	-2.138+1	4.028	4.028	2.540+1
3760	4.647	-2.139+1	4.030	4.030	2.542+1
3770	4.649	-2.140+1	4.031	4.031	2.543+1
3780	4.652	-2.141+1	4.033	4.033	2.544+1
3790	4.654	-2.142+1	4.035	4.035	2.545+1
3800	4.656	-2.143+1	4.036	4.036	2.547+1
3810	4.658	-2.144+1	4.038	4.038	2.548+1
3820	4.661	-2.145+1	4.040	4.040	2.549+1
3830	4.663	-2.146+1	4.041	4.041	2.550+1
3840	4.665	-2.147+1	4.043	4.043	2.551+1
3850	4.668	-2.148+1	4.044	4.044	2.553+1
3860	4.670	-2.149+1	4.046	4.046	2.554+1
3870	4.672	-2.150+1	4.048	4.048	2.555+1
3880	4.674	-2.151+1	4.049	4.049	2.556+1
3890	4.677	-2.152+1	4.051	4.051	2.558+1
3900	4.679	-2.154+1	4.052	4.052	2.559+1
3910	4.681	-2.155+1	4.054	4.054	2.560+1
3920	4.683	-2.156+1	4.056	4.056	2.561+1
3930	4.685	-2.157+1	4.057	4.057	2.562+1
3940	4.688	-2.158+1	4.059	4.059	2.564+1
3950	4.690	-2.159+1	4.060	4.060	2.565+1
3960	4.692	-2.160+1	4.062	4.062	2.566+1
3970	4.694	-2.161+1	4.064	4.064	2.567+1
3980	4.697	-2.162+1	4.065	4.065	2.568+1
3990	4.699	-2.163+1	4.067	4.067	2.569+1
4000	4.701	-2.164+1	4.068	4.068	2.571+1
4010	4.703	-2.165+1	4.070	4.070	2.572+1
4020	4.705	-2.166+1	4.072	4.072	2.573+1
4030	4.708	-2.167+1	4.073	4.073	2.574+1
4040	4.710	-2.168+1	4.075	4.075	2.575+1
4050	4.712	-2.169+1	4.076	4.076	2.576+1
4060	4.714	-2.170+1	4.078	4.078	2.578+1
4070	4.716	-2.171+1	4.079	4.079	2.579+1
4080	4.719	-2.172+1	4.081	4.081	2.580+1
4090	4.721	-2.173+1	4.083	4.083	2.581+1

SPECIE H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
4100	4.722	-2.174+1	4.084	4.084	2.582+1
4110	4.725	-2.175+1	4.086	4.086	2.583+1
4120	4.727	-2.176+1	4.087	4.087	2.585+1
4130	4.730	-2.177+1	4.089	4.089	2.586+1
4140	4.732	-2.178+1	4.090	4.090	2.587+1
4150	4.734	-2.179+1	4.092	4.092	2.588+1
4160	4.736	-2.180+1	4.093	4.093	2.589+1
4170	4.738	-2.181+1	4.095	4.095	2.590+1
4180	4.740	-2.182+1	4.096	4.096	2.591+1
4190	4.742	-2.183+1	4.098	4.098	2.592+1
4200	4.744	-2.184+1	4.100	4.100	2.594+1
4210	4.746	-2.185+1	4.101	4.101	2.595+1
4220	4.748	-2.186+1	4.103	4.103	2.596+1
4230	4.751	-2.186+1	4.104	4.104	2.597+1
4240	4.753	-2.187+1	4.106	4.106	2.598+1
4250	4.755	-2.188+1	4.107	4.107	2.599+1
4260	4.757	-2.189+1	4.109	4.109	2.600+1
4270	4.759	-2.190+1	4.110	4.110	2.601+1
4280	4.761	-2.191+1	4.112	4.112	2.602+1
4290	4.763	-2.192+1	4.113	4.113	2.604+1
4300	4.765	-2.193+1	4.115	4.115	2.605+1
4310	4.767	-2.194+1	4.116	4.116	2.606+1
4320	4.770	-2.195+1	4.118	4.118	2.607+1
4330	4.772	-2.196+1	4.119	4.119	2.608+1
4340	4.774	-2.197+1	4.121	4.121	2.609+1
4350	4.776	-2.198+1	4.122	4.122	2.610+1
4360	4.778	-2.199+1	4.124	4.124	2.611+1
4370	4.780	-2.200+1	4.125	4.125	2.612+1
4380	4.782	-2.201+1	4.127	4.127	2.613+1
4390	4.784	-2.202+1	4.128	4.128	2.615+1
4400	4.786	-2.203+1	4.130	4.130	2.616+1
4410	4.789	-2.204+1	4.131	4.131	2.617+1
4420	4.791	-2.205+1	4.133	4.133	2.618+1
4430	4.793	-2.206+1	4.134	4.134	2.619+1
4440	4.795	-2.206+1	4.136	4.136	2.620+1
4450	4.797	-2.207+1	4.137	4.137	2.621+1
4460	4.799	-2.208+1	4.139	4.139	2.622+1
4470	4.801	-2.209+1	4.140	4.140	2.623+1
4480	4.803	-2.210+1	4.142	4.142	2.624+1
4490	4.805	-2.211+1	4.143	4.143	2.626+1
4500	4.807	-2.212+1	4.145	4.145	2.627+1
4510	4.809	-2.213+1	4.146	4.146	2.628+1
4520	4.811	-2.214+1	4.148	4.148	2.629+1
4530	4.813	-2.215+1	4.149	4.149	2.630+1
4540	4.815	-2.216+1	4.151	4.151	2.631+1
4550	4.817	-2.217+1	4.152	4.152	2.632+1
4560	4.819	-2.218+1	4.154	4.154	2.633+1
4570	4.821	-2.219+1	4.155	4.155	2.634+1
4580	4.823	-2.219+1	4.156	4.156	2.635+1
4590	4.825	-2.220+1	4.158	4.158	2.636+1

SPECIE H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
4600	4.827	-2.221+1	4.159	4.159	2.637+1
4610	4.829	-2.222+1	4.161	4.161	2.638+1
4620	4.831	-2.223+1	4.162	4.162	2.639+1
4630	4.833	-2.224+1	4.164	4.164	2.640+1
4640	4.835	-2.225+1	4.165	4.165	2.641+1
4650	4.837	-2.226+1	4.167	4.167	2.642+1
4660	4.839	-2.227+1	4.168	4.168	2.643+1
4670	4.841	-2.228+1	4.169	4.169	2.644+1
4680	4.843	-2.228+1	4.171	4.171	2.645+1
4690	4.845	-2.229+1	4.172	4.172	2.647+1
4700	4.847	-2.230+1	4.174	4.174	2.648+1
4710	4.849	-2.231+1	4.175	4.175	2.649+1
4720	4.851	-2.232+1	4.177	4.177	2.650+1
4730	4.853	-2.233+1	4.178	4.178	2.651+1
4740	4.855	-2.234+1	4.179	4.179	2.652+1
4750	4.857	-2.235+1	4.181	4.181	2.653+1
4760	4.859	-2.235+1	4.182	4.182	2.654+1
4770	4.861	-2.236+1	4.184	4.184	2.655+1
4780	4.863	-2.237+1	4.185	4.185	2.656+1
4790	4.865	-2.238+1	4.186	4.186	2.657+1
4800	4.866	-2.239+1	4.188	4.188	2.658+1
4810	4.868	-2.240+1	4.189	4.189	2.659+1
4820	4.870	-2.241+1	4.191	4.191	2.660+1
4830	4.872	-2.242+1	4.192	4.192	2.661+1
4840	4.874	-2.242+1	4.194	4.194	2.662+1
4850	4.876	-2.243+1	4.195	4.195	2.663+1
4860	4.878	-2.244+1	4.196	4.196	2.664+1
4870	4.880	-2.245+1	4.198	4.198	2.665+1
4880	4.882	-2.246+1	4.199	4.199	2.666+1
4890	4.884	-2.247+1	4.201	4.201	2.667+1
4900	4.886	-2.248+1	4.202	4.202	2.668+1
4910	4.888	-2.248+1	4.203	4.203	2.669+1
4920	4.890	-2.249+1	4.205	4.205	2.670+1
4930	4.892	-2.250+1	4.206	4.206	2.671+1
4940	4.894	-2.251+1	4.208	4.208	2.672+1
4950	4.896	-2.252+1	4.209	4.209	2.673+1
4960	4.898	-2.253+1	4.210	4.210	2.674+1
4970	4.900	-2.254+1	4.212	4.212	2.675+1
4980	4.901	-2.254+1	4.213	4.213	2.676+1
4990	4.903	-2.255+1	4.214	4.214	2.677+1
5000	4.905	-2.256+1	4.216	4.216	2.678+1
5010	4.907	-2.257+1	4.217	4.217	2.679+1
5020	4.909	-2.258+1	4.219	4.219	2.680+1
5030	4.911	-2.259+1	4.220	4.220	2.681+1
5040	4.913	-2.260+1	4.221	4.221	2.682+1
5050	4.915	-2.260+1	4.223	4.223	2.683+1
5060	4.916	-2.261+1	4.224	4.224	2.684+1
5070	4.918	-2.262+1	4.225	4.225	2.685+1
5080	4.920	-2.263+1	4.227	4.227	2.686+1
5090	4.922	-2.264+1	4.228	4.228	2.687+1

SPECIE H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
5100	4.924	-2.265+1	4.230	4.230	
5110	4.926	-2.265+1	4.231	4.231	2.688+1
5120	4.928	-2.266+1	4.232	4.232	2.689+1
5130	4.929	-2.267+1	4.234	4.234	2.690+1
5140	4.931	-2.268+1	4.235	4.235	2.690+1
					2.691+1
5150	4.933	-2.269+1	4.236	4.236	2.692+1
5160	4.935	-2.270+1	4.238	4.238	2.693+1
5170	4.937	-2.270+1	4.239	4.239	2.694+1
5180	4.939	-2.271+1	4.240	4.240	2.695+1
5190	4.941	-2.272+1	4.242	4.242	2.695+1
5200	4.942	-2.273+1	4.243	4.243	2.697+1
5210	4.944	-2.274+1	4.244	4.244	2.698+1
5220	4.946	-2.274+1	4.246	4.246	2.699+1
5230	4.948	-2.275+1	4.247	4.247	2.700+1
5240	4.950	-2.276+1	4.248	4.248	2.701+1
5250	4.952	-2.277+1	4.250	4.250	2.702+1
5260	4.954	-2.278+1	4.251	4.251	2.703+1
5270	4.956	-2.279+1	4.253	4.253	2.704+1
5280	4.957	-2.279+1	4.254	4.254	2.705+1
5290	4.959	-2.280+1	4.255	4.255	2.706+1
5300	4.961	-2.281+1	4.257	4.257	2.707+1
5310	4.963	-2.282+1	4.258	4.258	2.708+1
5320	4.965	-2.283+1	4.259	4.259	2.708+1
5330	4.967	-2.283+1	4.260	4.260	2.709+1
5340	4.968	-2.284+1	4.262	4.262	2.710+1
5350	4.970	-2.285+1	4.263	4.263	2.711+1
5360	4.972	-2.286+1	4.264	4.264	2.712+1
5370	4.974	-2.287+1	4.266	4.266	2.713+1
5380	4.976	-2.287+1	4.267	4.267	2.714+1
5390	4.977	-2.288+1	4.268	4.268	2.715+1
5400	4.979	-2.289+1	4.270	4.270	2.716+1
5410	4.981	-2.290+1	4.271	4.271	2.717+1
5420	4.983	-2.290+1	4.272	4.272	2.718+1
5430	4.985	-2.291+1	4.274	4.274	2.719+1
5440	4.986	-2.292+1	4.275	4.275	2.720+1
5450	4.988	-2.293+1	4.276	4.276	2.720+1
5460	4.990	-2.294+1	4.278	4.278	2.721+1
5470	4.992	-2.294+1	4.279	4.279	2.722+1
5480	4.993	-2.295+1	4.280	4.280	2.723+1
5490	4.995	-2.296+1	4.281	4.281	2.724+1
5500	4.997	-2.297+1	4.283	4.283	2.725+1
5510	4.999	-2.298+1	4.284	4.284	2.726+1
5520	5.000	-2.298+1	4.285	4.285	2.727+1
5530	5.002	-2.299+1	4.287	4.287	2.728+1
5540	5.004	-2.300+1	4.288	4.288	2.729+1
5550	5.006	-2.301+1	4.289	4.289	2.730+1
5560	5.007	-2.301+1	4.291	4.291	2.731+1
5570	5.009	-2.302+1	4.292	4.292	2.731+1
5580	5.011	-2.303+1	4.293	4.293	2.732+1
5590	5.013	-2.304+1	4.294	4.294	2.733+1

SPECIE H2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
5600	5.014	-2.305+1	4.296	4.296	2.734+1
5610	5.016	-2.305+1	4.297	4.297	2.735+1
5620	5.018	-2.306+1	4.298	4.298	2.736+1
5630	5.020	-2.307+1	4.299	4.299	2.737+1
5640	5.021	-2.308+1	4.301	4.301	2.738+1
5650	5.023	-2.308+1	4.302	4.302	2.739+1
5660	5.025	-2.309+1	4.303	4.303	2.739+1
5670	5.026	-2.310+1	4.305	4.305	2.740+1
5680	5.028	-2.311+1	4.306	4.306	2.741+1
5690	5.030	-2.311+1	4.307	4.307	2.742+1
5700	5.032	-2.312+1	4.308	4.308	2.743+1
5710	5.033	-2.313+1	4.310	4.310	2.744+1
5720	5.035	-2.314+1	4.311	4.311	2.745+1
5730	5.037	-2.314+1	4.312	4.312	2.746+1
5740	5.039	-2.315+1	4.314	4.314	2.747+1
5750	5.040	-2.316+1	4.315	4.315	2.747+1
5760	5.042	-2.317+1	4.316	4.316	2.748+1
5770	5.044	-2.317+1	4.317	4.317	2.749+1
5780	5.046	-2.318+1	4.319	4.319	2.750+1
5790	5.047	-2.319+1	4.320	4.320	2.751+1
5800	5.049	-2.320+1	4.321	4.321	2.752+1
5810	5.051	-2.320+1	4.322	4.322	2.753+1
5820	5.053	-2.321+1	4.324	4.324	2.754+1
5830	5.054	-2.322+1	4.325	4.325	2.754+1
5840	5.056	-2.323+1	4.326	4.326	2.755+1
5850	5.058	-2.323+1	4.327	4.327	2.756+1
5860	5.059	-2.324+1	4.329	4.329	2.757+1
5870	5.061	-2.325+1	4.330	4.330	2.758+1
5880	5.063	-2.326+1	4.331	4.331	2.759+1
5890	5.064	-2.326+1	4.332	4.332	2.760+1
5900	5.066	-2.327+1	4.334	4.334	2.760+1
5910	5.067	-2.328+1	4.335	4.335	2.761+1
5920	5.069	-2.329+1	4.336	4.336	2.762+1
5930	5.071	-2.329+1	4.337	4.337	2.763+1
5940	5.072	-2.330+1	4.339	4.339	2.764+1
5950	5.074	-2.331+1	4.340	4.340	2.765+1
5960	5.076	-2.331+1	4.341	4.341	2.766+1
5970	5.077	-2.332+1	4.342	4.342	2.766+1
5980	5.079	-2.333+1	4.344	4.344	2.767+1
5990	5.081	-2.334+1	4.345	4.345	2.768+1
6000	5.082	-2.334+1	4.346	4.346	2.769+1

SPECIE H2O

MOLECULAR WEIGHT EQUALS 18.0160

DELTA E ZERO EQUALS -57.107 (KCAL/MOL)

REFERENCES

DELTA E ZERO

INRS 500, 2/1/52 1 (10)

THERMAL

(J. S. GORDON WADC TR 57-33, 1/57 1 (4))

SPECIE H2O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	4.005	-1.435+1	3.970	-2.834+2	1.832+1	2.833+2
110	4.006	-1.470+1	3.972	-2.615+2	1.868+1	2.614+2
120	4.006	-1.504+1	3.974	-2.416+2	1.901+1	2.416+2
130	4.008	-1.535+1	3.976	-2.237+2	1.933+1	2.236+2
140	4.008	-1.565+1	3.978	-2.074+2	1.963+1	2.074+2
150	4.008	-1.593+1	3.980	-1.928+2	1.991+1	1.929+2
160	4.008	-1.619+1	3.982	-1.797+2	2.017+1	1.798+2
170	4.009	-1.644+1	3.983	-1.680+2	2.042+1	1.680+2
180	4.008	-1.667+1	3.985	-1.575+2	2.066+1	1.575+2
190	4.009	-1.690+1	3.986	-1.481+2	2.088+1	1.481+2
200	4.010	-1.710+1	3.988	-1.397+2	2.109+1	1.397+2
210	4.011	-1.730+1	3.989	-1.322+2	2.129+1	1.323+2
220	4.013	-1.749+1	3.991	-1.256+2	2.148+1	1.256+2
230	4.014	-1.767+1	3.992	-1.196+2	2.166+1	1.197+2
240	4.016	-1.784+1	3.993	-1.143+2	2.183+1	1.143+2
250	4.019	-1.800+1	3.995	-1.096+2	2.200+1	1.096+2
260	4.022	-1.816+1	3.996	-1.053+2	2.215+1	1.053+2
270	4.025	-1.831+1	3.997	-1.015+2	2.230+1	1.014+2
280	4.029	-1.845+1	3.998	-9.799+1	2.245+1	9.787+1
290	4.034	-1.859+1	3.999	-9.477+1	2.259+1	9.462+1
300	4.039	-1.872+1	4.000	-9.179+1	2.272+1	9.161+1
310	4.045	-1.885+1	4.002	-8.863+1	2.286+1	8.842+1
320	4.051	-1.898+1	4.003	-8.568+1	2.298+1	8.543+1
330	4.058	-1.910+1	4.005	-8.293+1	2.311+1	8.265+1
340	4.066	-1.922+1	4.007	-8.035+1	2.323+1	8.004+1
350	4.074	-1.934+1	4.009	-7.794+1	2.335+1	7.759+1
360	4.082	-1.945+1	4.010	-7.567+1	2.346+1	7.530+1
370	4.091	-1.956+1	4.012	-7.354+1	2.357+1	7.313+1
380	4.100	-1.967+1	4.014	-7.153+1	2.368+1	7.109+1
390	4.109	-1.977+1	4.016	-6.963+1	2.379+1	6.916+1
400	4.119	-1.988+1	4.018	-6.783+1	2.389+1	6.733+1
410	4.129	-1.998+1	4.021	-6.611+1	2.400+1	6.558+1
420	4.140	-2.007+1	4.023	-6.447+1	2.410+1	6.392+1
430	4.151	-2.017+1	4.026	-6.290+1	2.419+1	6.233+1
440	4.162	-2.026+1	4.029	-6.140+1	2.429+1	6.080+1
450	4.174	-2.035+1	4.032	-5.995+1	2.438+1	5.933+1
460	4.185	-2.044+1	4.036	-5.856+1	2.447+1	5.791+1
470	4.197	-2.052+1	4.039	-5.721+1	2.456+1	5.654+1
480	4.210	-2.061+1	4.042	-5.591+1	2.465+1	5.522+1
490	4.222	-2.069+1	4.046	-5.465+1	2.474+1	5.394+1
500	4.234	-2.078+1	4.050	-5.343+1	2.482+1	5.270+1
510	4.247	-2.086+1	4.053	-5.230+1	2.491+1	5.155+1
520	4.260	-2.093+1	4.057	-5.122+1	2.499+1	5.046+1
530	4.273	-2.101+1	4.061	-5.018+1	2.507+1	4.940+1
540	4.285	-2.109+1	4.065	-4.918+1	2.515+1	4.838+1
550	4.299	-2.116+1	4.070	-4.821+1	2.523+1	4.739+1
560	4.312	-2.124+1	4.074	-4.727+1	2.531+1	4.643+1
570	4.325	-2.131+1	4.078	-4.636+1	2.539+1	4.551+1
580	4.339	-2.138+1	4.083	-4.548+1	2.546+1	4.461+1
590	4.352	-2.145+1	4.087	-4.463+1	2.554+1	4.375+1

SPECIE H2O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	4.366	-2.152+1	4.092	-4.380+1	2.561+1	4.290+1
610	4.379	-2.159+1	4.096	-4.302+1	2.568+1	4.210+1
620	4.393	-2.165+1	4.101	-4.225+1	2.575+1	4.133+1
630	4.407	-2.172+1	4.106	-4.152+1	2.582+1	4.057+1
640	4.421	-2.178+1	4.111	-4.080+1	2.589+1	3.984+1
650	4.435	-2.185+1	4.115	-4.011+1	2.596+1	3.913+1
660	4.449	-2.191+1	4.120	-3.943+1	2.603+1	3.845+1
670	4.463	-2.197+1	4.125	-3.877+1	2.610+1	3.778+1
680	4.477	-2.203+1	4.130	-3.814+1	2.616+1	3.713+1
690	4.491	-2.209+1	4.135	-3.752+1	2.623+1	3.650+1
700	4.506	-2.215+1	4.141	-3.691+1	2.629+1	3.588+1
710	4.520	-2.221+1	4.146	-3.633+1	2.636+1	3.529+1
720	4.534	-2.227+1	4.151	-3.576+1	2.642+1	3.471+1
730	4.549	-2.233+1	4.156	-3.521+1	2.648+1	3.415+1
740	4.563	-2.238+1	4.162	-3.468+1	2.654+1	3.360+1
750	4.578	-2.244+1	4.167	-3.415+1	2.661+1	3.307+1
760	4.593	-2.249+1	4.172	-3.364+1	2.667+1	3.255+1
770	4.608	-2.255+1	4.178	-3.315+1	2.673+1	3.204+1
780	4.622	-2.260+1	4.184	-3.266+1	2.679+1	3.155+1
790	4.637	-2.266+1	4.189	-3.219+1	2.684+1	3.107+1
800	4.652	-2.271+1	4.195	-3.173+1	2.690+1	3.060+1
810	4.667	-2.276+1	4.201	-3.128+1	2.696+1	3.014+1
820	4.682	-2.281+1	4.206	-3.084+1	2.702+1	2.969+1
830	4.697	-2.286+1	4.212	-3.041+1	2.707+1	2.926+1
840	4.712	-2.291+1	4.218	-2.999+1	2.713+1	2.883+1
850	4.727	-2.296+1	4.224	-2.959+1	2.719+1	2.842+1
860	4.742	-2.301+1	4.230	-2.919+1	2.724+1	2.801+1
870	4.758	-2.306+1	4.236	-2.880+1	2.730+1	2.761+1
880	4.773	-2.311+1	4.242	-2.842+1	2.735+1	2.723+1
890	4.788	-2.316+1	4.248	-2.804+1	2.741+1	2.685+1
900	4.804	-2.320+1	4.254	-2.768+1	2.746+1	2.647+1
910	4.819	-2.325+1	4.260	-2.732+1	2.751+1	2.611+1
920	4.834	-2.330+1	4.267	-2.697+1	2.757+1	2.576+1
930	4.849	-2.335+1	4.273	-2.663+1	2.762+1	2.541+1
940	4.865	-2.339+1	4.279	-2.629+1	2.767+1	2.507+1
950	4.880	-2.344+1	4.285	-2.597+1	2.772+1	2.474+1
960	4.895	-2.348+1	4.291	-2.564+1	2.777+1	2.441+1
970	4.911	-2.353+1	4.298	-2.533+1	2.782+1	2.409+1
980	4.926	-2.357+1	4.304	-2.502+1	2.787+1	2.378+1
990	4.941	-2.361+1	4.311	-2.472+1	2.792+1	2.347+1
1000	4.957	-2.366+1	4.317	-2.442+1	2.797+1	2.317+1
1010	4.972	-2.370+1	4.323	-2.413+1	2.802+1	2.287+1
1020	4.987	-2.374+1	4.330	-2.384+1	2.807+1	2.258+1
1030	5.002	-2.378+1	4.336	-2.356+1	2.812+1	2.230+1
1040	5.017	-2.383+1	4.343	-2.329+1	2.817+1	2.202+1
1050	5.032	-2.387+1	4.349	-2.302+1	2.822+1	2.175+1
1060	5.048	-2.391+1	4.356	-2.276+1	2.826+1	2.148+1
1070	5.063	-2.395+1	4.362	-2.250+1	2.831+1	2.121+1
1080	5.078	-2.399+1	4.369	-2.224+1	2.836+1	2.096+1
1090	5.093	-2.403+1	4.375	-2.199+1	2.841+1	2.070+1

SPECIE H2O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	5.108	-2.407+1	4.382	-2.174+1	2.845+1	2.045+1
1110	5.123	-2.411+1	4.386	-2.150+1	2.850+1	2.021+1
1120	5.138	-2.415+1	4.395	-2.126+1	2.855+1	1.997+1
1130	5.153	-2.419+1	4.402	-2.103+1	2.859+1	1.973+1
1140	5.167	-2.423+1	4.408	-2.080+1	2.864+1	1.950+1
1150	5.182	-2.427+1	4.415	-2.057+1	2.868+1	1.927+1
1160	5.197	-2.430+1	4.422	-2.035+1	2.873+1	1.905+1
1170	5.212	-2.434+1	4.428	-2.013+1	2.877+1	1.882+1
1180	5.226	-2.438+1	4.435	-1.992+1	2.882+1	1.861+1
1190	5.241	-2.442+1	4.442	-1.971+1	2.886+1	1.839+1
1200	5.255	-2.445+1	4.449	-1.950+1	2.890+1	1.819+1
1210	5.270	-2.449+1	4.455	-1.929+1	2.895+1	1.798+1
1220	5.284	-2.453+1	4.462	-1.909+1	2.899+1	1.778+1
1230	5.298	-2.457+1	4.469	-1.889+1	2.903+1	1.758+1
1240	5.312	-2.460+1	4.476	-1.870+1	2.908+1	1.738+1
1250	5.327	-2.464+1	4.482	-1.851+1	2.912+1	1.719+1
1260	5.341	-2.467+1	4.489	-1.832+1	2.916+1	1.700+1
1270	5.354	-2.471+1	4.496	-1.813+1	2.920+1	1.681+1
1280	5.368	-2.474+1	4.503	-1.795+1	2.925+1	1.662+1
1290	5.382	-2.478+1	4.510	-1.777+1	2.929+1	1.644+1
1300	5.396	-2.481+1	4.516	-1.759+1	2.933+1	1.626+1
1310	5.409	-2.485+1	4.523	-1.741+1	2.937+1	1.609+1
1320	5.423	-2.488+1	4.530	-1.724+1	2.941+1	1.591+1
1330	5.436	-2.492+1	4.537	-1.707+1	2.945+1	1.574+1
1340	5.450	-2.495+1	4.543	-1.690+1	2.949+1	1.557+1
1350	5.463	-2.499+1	4.550	-1.674+1	2.954+1	1.541+1
1360	5.476	-2.502+1	4.557	-1.657+1	2.958+1	1.524+1
1370	5.489	-2.505+1	4.564	-1.641+1	2.962+1	1.508+1
1380	5.502	-2.509+1	4.570	-1.625+1	2.966+1	1.492+1
1390	5.515	-2.512+1	4.577	-1.610+1	2.970+1	1.477+1
1400	5.528	-2.515+1	4.584	-1.594+1	2.974+1	1.461+1
1410	5.541	-2.518+1	4.591	-1.579+1	2.977+1	1.446+1
1420	5.554	-2.522+1	4.597	-1.564+1	2.981+1	1.431+1
1430	5.566	-2.525+1	4.604	-1.549+1	2.985+1	1.416+1
1440	5.579	-2.528+1	4.611	-1.535+1	2.989+1	1.402+1
1450	5.591	-2.531+1	4.618	-1.520+1	2.993+1	1.387+1
1460	5.604	-2.534+1	4.624	-1.506+1	2.997+1	1.373+1
1470	5.616	-2.538+1	4.631	-1.492+1	3.001+1	1.359+1
1480	5.628	-2.541+1	4.638	-1.478+1	3.004+1	1.345+1
1490	5.640	-2.544+1	4.645	-1.464+1	3.008+1	1.331+1
1500	5.652	-2.547+1	4.651	-1.451+1	3.012+1	1.318+1
1510	5.664	-2.550+1	4.658	-1.437+1	3.016+1	1.305+1
1520	5.676	-2.553+1	4.665	-1.424+1	3.020+1	1.292+1
1530	5.688	-2.556+1	4.671	-1.411+1	3.023+1	1.279+1
1540	5.700	-2.559+1	4.678	-1.398+1	3.027+1	1.266+1
1550	5.711	-2.562+1	4.684	-1.386+1	3.031+1	1.253+1
1560	5.723	-2.565+1	4.691	-1.373+1	3.034+1	1.241+1
1570	5.734	-2.568+1	4.697	-1.361+1	3.038+1	1.229+1
1580	5.745	-2.571+1	4.704	-1.348+1	3.042+1	1.216+1
1590	5.757	-2.574+1	4.710	-1.336+1	3.045+1	1.204+1

SPECIE H2O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	5.768	-2.577+1	4.717	-1.324+1	3.049+1	1.193+1
1610	5.779	-2.580+1	4.723	-1.313+1	3.052+1	1.181+1
1620	5.790	-2.583+1	4.730	-1.301+1	3.056+1	1.169+1
1630	5.801	-2.586+1	4.737	-1.289+1	3.060+1	1.158+1
1640	5.811	-2.589+1	4.743	-1.278+1	3.063+1	1.147+1
1650	5.822	-2.592+1	4.750	-1.267+1	3.067+1	1.135+1
1660	5.832	-2.595+1	4.756	-1.256+1	3.070+1	1.124+1
1670	5.843	-2.597+1	4.763	-1.245+1	3.074+1	1.114+1
1680	5.853	-2.600+1	4.769	-1.234+1	3.077+1	1.103+1
1690	5.864	-2.603+1	4.776	-1.223+1	3.081+1	1.092+1
1700	5.874	-2.606+1	4.782	-1.212+1	3.084+1	1.082+1
1710	5.884	-2.609+1	4.789	-1.202+1	3.088+1	1.071+1
1720	5.894	-2.612+1	4.795	-1.191+1	3.091+1	1.061+1
1730	5.904	-2.614+1	4.801	-1.181+1	3.094+1	1.051+1
1740	5.914	-2.617+1	4.808	-1.171+1	3.098+1	1.041+1
1750	5.924	-2.620+1	4.814	-1.161+1	3.101+1	1.031+1
1760	5.934	-2.623+1	4.820	-1.151+1	3.105+1	1.021+1
1770	5.943	-2.625+1	4.827	-1.141+1	3.108+1	1.011+1
1780	5.953	-2.628+1	4.833	-1.131+1	3.111+1	1.002+1
1790	5.963	-2.631+1	4.839	-1.121+1	3.115+1	9.923
1800	5.972	-2.633+1	4.846	-1.112+1	3.118+1	9.830
1810	5.981	-2.636+1	4.852	-1.103+1	3.121+1	9.737
1820	5.991	-2.639+1	4.858	-1.093+1	3.125+1	9.645
1830	6.000	-2.641+1	4.864	-1.084+1	3.128+1	9.554
1840	6.009	-2.644+1	4.870	-1.075+1	3.131+1	9.465
1850	6.018	-2.647+1	4.877	-1.066+1	3.134+1	9.376
1860	6.027	-2.649+1	4.883	-1.057+1	3.138+1	9.288
1870	6.036	-2.652+1	4.889	-1.048+1	3.141+1	9.201
1880	6.045	-2.655+1	4.895	-1.039+1	3.144+1	9.115
1890	6.054	-2.657+1	4.901	-1.030+1	3.147+1	9.030
1900	6.063	-2.660+1	4.907	-1.022+1	3.151+1	8.946
1910	6.071	-2.662+1	4.913	-1.013+1	3.154+1	8.863
1920	6.080	-2.665+1	4.919	-1.005+1	3.157+1	8.780
1930	6.088	-2.668+1	4.925	-9.965	3.160+1	8.698
1940	6.097	-2.670+1	4.931	-9.882	3.163+1	8.618
1950	6.105	-2.673+1	4.937	-9.800	3.166+1	8.538
1960	6.113	-2.675+1	4.943	-9.718	3.169+1	8.458
1970	6.122	-2.678+1	4.949	-9.638	3.173+1	8.380
1980	6.130	-2.680+1	4.955	-9.558	3.176+1	8.302
1990	6.138	-2.683+1	4.961	-9.480	3.179+1	8.226
2000	6.146	-2.685+1	4.967	-9.401	3.182+1	8.150
2010	6.154	-2.688+1	4.973	-9.324	3.185+1	8.074
2020	6.161	-2.690+1	4.979	-9.247	3.188+1	8.000
2030	6.169	-2.693+1	4.985	-9.171	3.191+1	7.926
2040	6.177	-2.695+1	4.991	-9.096	3.194+1	7.853
2050	6.185	-2.697+1	4.997	-9.022	3.197+1	7.780
2060	6.192	-2.700+1	5.002	-8.948	3.200+1	7.709
2070	6.200	-2.702+1	5.008	-8.875	3.203+1	7.638
2080	6.207	-2.705+1	5.014	-8.802	3.206+1	7.567
2090	6.215	-2.707+1	5.019	-8.731	3.209+1	7.497

SPECIE H2O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	6.222	-2.710+1	5.025	-8.659	3.212+1	7.428
2110	6.226	-2.712+1	5.031	-8.589	3.215+1	7.360
2120	6.237	-2.714+1	5.036	-8.519	3.218+1	7.292
2130	6.244	-2.717+1	5.042	-8.450	3.221+1	7.225
2140	6.251	-2.719+1	5.048	-8.381	3.224+1	7.158
2150	6.258	-2.721+1	5.053	-8.313	3.227+1	7.092
2160	6.265	-2.724+1	5.059	-8.246	3.230+1	7.027
2170	6.272	-2.726+1	5.064	-8.179	3.233+1	6.962
2180	6.279	-2.728+1	5.070	-8.112	3.235+1	6.898
2190	6.286	-2.731+1	5.075	-8.047	3.238+1	6.835
2200	6.293	-2.733+1	5.081	-7.982	3.241+1	6.772
2210	6.299	-2.735+1	5.086	-7.917	3.244+1	6.709
2220	6.306	-2.738+1	5.092	-7.853	3.247+1	6.648
2230	6.313	-2.740+1	5.097	-7.789	3.250+1	6.586
2240	6.319	-2.742+1	5.103	-7.726	3.253+1	6.526
2250	6.326	-2.745+1	5.108	-7.664	3.255+1	6.466
2260	6.332	-2.747+1	5.114	-7.602	3.258+1	6.406
2270	6.339	-2.749+1	5.119	-7.540	3.261+1	6.347
2280	6.345	-2.751+1	5.125	-7.480	3.264+1	6.288
2290	6.351	-2.754+1	5.130	-7.419	3.267+1	6.230
2300	6.357	-2.756+1	5.135	-7.359	3.269+1	6.173
2310	6.364	-2.758+1	5.141	-7.300	3.272+1	6.116
2320	6.370	-2.760+1	5.146	-7.241	3.275+1	6.059
2330	6.376	-2.762+1	5.151	-7.182	3.278+1	6.003
2340	6.382	-2.765+1	5.156	-7.125	3.280+1	5.947
2350	6.388	-2.767+1	5.162	-7.067	3.283+1	5.892
2360	6.394	-2.769+1	5.167	-7.010	3.286+1	5.837
2370	6.400	-2.771+1	5.172	-6.953	3.288+1	5.783
2380	6.406	-2.773+1	5.177	-6.897	3.291+1	5.729
2390	6.412	-2.776+1	5.182	-6.842	3.294+1	5.676
2400	6.417	-2.778+1	5.188	-6.786	3.297+1	5.623
2410	6.423	-2.780+1	5.193	-6.732	3.299+1	5.571
2420	6.429	-2.782+1	5.198	-6.677	3.302+1	5.518
2430	6.434	-2.784+1	5.203	-6.623	3.304+1	5.467
2440	6.440	-2.786+1	5.208	-6.570	3.307+1	5.416
2450	6.445	-2.788+1	5.213	-6.517	3.310+1	5.365
2460	6.451	-2.791+1	5.218	-6.464	3.312+1	5.314
2470	6.456	-2.793+1	5.223	-6.412	3.315+1	5.264
2480	6.462	-2.795+1	5.228	-6.360	3.318+1	5.215
2490	6.467	-2.797+1	5.233	-6.308	3.320+1	5.166
2500	6.472	-2.799+1	5.238	-6.257	3.323+1	5.117
2510	6.478	-2.801+1	5.243	-6.206	3.325+1	5.068
2520	6.483	-2.803+1	5.248	-6.156	3.328+1	5.020
2530	6.488	-2.805+1	5.253	-6.106	3.330+1	4.973
2540	6.493	-2.807+1	5.257	-6.057	3.333+1	4.925
2550	6.498	-2.809+1	5.262	-6.007	3.336+1	4.878
2560	6.503	-2.811+1	5.267	-5.958	3.338+1	4.832
2570	6.509	-2.813+1	5.272	-5.910	3.341+1	4.786
2580	6.514	-2.816+1	5.277	-5.862	3.343+1	4.740
2590	6.519	-2.818+1	5.281	-5.814	3.346+1	4.694

SPECIE H2O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	6.524	-2.820+1	5.286	-5.767	3.348+1	4.649
2610	6.528	-2.822+1	5.291	-5.720	3.351+1	4.604
2620	6.533	-2.824+1	5.296	-5.673	3.353+1	4.560
2630	6.538	-2.826+1	5.300	-5.626	3.356+1	4.516
2640	6.543	-2.828+1	5.305	-5.580	3.358+1	4.472
2650	6.548	-2.830+1	5.310	-5.535	3.361+1	4.429
2660	6.552	-2.832+1	5.314	-5.489	3.363+1	4.386
2670	6.557	-2.834+1	5.319	-5.444	3.366+1	4.343
2680	6.562	-2.836+1	5.324	-5.399	3.368+1	4.300
2690	6.566	-2.838+1	5.328	-5.355	3.371+1	4.258
2700	6.571	-2.840+1	5.333	-5.310	3.373+1	4.216
2710	6.575	-2.842+1	5.338	-5.267	3.375+1	4.175
2720	6.580	-2.844+1	5.342	-5.223	3.378+1	4.133
2730	6.584	-2.846+1	5.347	-5.180	3.380+1	4.092
2740	6.589	-2.847+1	5.351	-5.137	3.383+1	4.052
2750	6.593	-2.849+1	5.356	-5.094	3.385+1	4.011
2760	6.598	-2.851+1	5.360	-5.052	3.387+1	3.971
2770	6.602	-2.853+1	5.365	-5.010	3.390+1	3.931
2780	6.607	-2.855+1	5.369	-4.968	3.392+1	3.892
2790	6.611	-2.857+1	5.373	-4.927	3.395+1	3.853
2800	6.615	-2.859+1	5.378	-4.886	3.397+1	3.814
2810	6.619	-2.861+1	5.382	-4.845	3.399+1	3.775
2820	6.624	-2.863+1	5.387	-4.804	3.402+1	3.737
2830	6.628	-2.865+1	5.391	-4.763	3.404+1	3.698
2840	6.632	-2.867+1	5.395	-4.723	3.406+1	3.660
2850	6.636	-2.869+1	5.400	-4.683	3.409+1	3.623
2860	6.640	-2.871+1	5.404	-4.644	3.411+1	3.585
2870	6.644	-2.872+1	5.409	-4.604	3.413+1	3.548
2880	6.648	-2.874+1	5.413	-4.565	3.416+1	3.512
2890	6.652	-2.876+1	5.417	-4.526	3.418+1	3.475
2900	6.656	-2.878+1	5.422	-4.488	3.420+1	3.439
2910	6.660	-2.880+1	5.426	-4.450	3.422+1	3.403
2920	6.664	-2.882+1	5.430	-4.412	3.425+1	3.367
2930	6.668	-2.884+1	5.434	-4.374	3.427+1	3.332
2940	6.671	-2.885+1	5.439	-4.336	3.429+1	3.296
2950	6.675	-2.887+1	5.443	-4.299	3.432+1	3.262
2960	6.679	-2.889+1	5.447	-4.262	3.434+1	3.227
2970	6.683	-2.891+1	5.451	-4.225	3.436+1	3.192
2980	6.687	-2.893+1	5.455	-4.188	3.438+1	3.158
2990	6.690	-2.895+1	5.459	-4.152	3.441+1	3.124
3000	6.694	-2.897+1	5.463	-4.116	3.443+1	3.090
3010	6.698	-2.898+1	5.467	-4.080	3.445+1	3.057
3020	6.701	-2.900+1	5.471	-4.044	3.447+1	3.023
3030	6.705	-2.902+1	5.475	-4.009	3.450+1	2.990
3040	6.709	-2.904+1	5.479	-3.974	3.452+1	2.957
3050	6.712	-2.906+1	5.483	-3.939	3.454+1	2.924
3060	6.716	-2.907+1	5.487	-3.904	3.456+1	2.891
3070	6.719	-2.909+1	5.491	-3.870	3.458+1	2.858
3080	6.723	-2.911+1	5.495	-3.835	3.460+1	2.826
3090	6.726	-2.913+1	5.499	-3.801	3.463+1	2.794

SPECIE H2O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	6.730	-2.915+1	5.503	-3.767	3.465+1	2.762
3110	6.733	-2.916+1	5.507	-3.733	3.467+1	2.756
3120	6.737	-2.918+1	5.511	-3.700	3.469+1	2.699
3130	6.740	-2.920+1	5.515	-3.666	3.471+1	2.668
3140	6.743	-2.922+1	5.519	-3.633	3.473+1	2.637
3150	6.747	-2.923+1	5.523	-3.600	3.476+1	2.606
3160	6.750	-2.925+1	5.527	-3.567	3.478+1	2.575
3170	6.753	-2.927+1	5.531	-3.535	3.480+1	2.545
3180	6.757	-2.929+1	5.534	-3.502	3.482+1	2.515
3190	6.760	-2.930+1	5.538	-3.470	3.484+1	2.484
3200	6.763	-2.932+1	5.542	-3.438	3.486+1	2.455
3210	6.766	-2.934+1	5.546	-3.406	3.488+1	2.425
3220	6.770	-2.935+1	5.550	-3.375	3.490+1	2.395
3230	6.773	-2.937+1	5.554	-3.343	3.493+1	2.366
3240	6.776	-2.939+1	5.557	-3.312	3.495+1	2.337
3250	6.779	-2.941+1	5.561	-3.281	3.497+1	2.308
3260	6.782	-2.942+1	5.565	-3.250	3.499+1	2.279
3270	6.785	-2.944+1	5.569	-3.220	3.501+1	2.250
3280	6.789	-2.946+1	5.572	-3.189	3.503+1	2.222
3290	6.792	-2.947+1	5.576	-3.159	3.505+1	2.194
3300	6.795	-2.949+1	5.580	-3.129	3.507+1	2.166
3310	6.798	-2.951+1	5.583	-3.099	3.509+1	2.138
3320	6.801	-2.953+1	5.587	-3.069	3.511+1	2.110
3330	6.804	-2.954+1	5.591	-3.039	3.513+1	2.082
3340	6.807	-2.956+1	5.594	-3.010	3.515+1	2.055
3350	6.810	-2.958+1	5.598	-2.981	3.517+1	2.027
3360	6.813	-2.959+1	5.601	-2.951	3.519+1	2.000
3370	6.815	-2.961+1	5.605	-2.922	3.521+1	1.973
3380	6.818	-2.963+1	5.609	-2.894	3.523+1	1.946
3390	6.821	-2.964+1	5.612	-2.865	3.525+1	1.920
3400	6.824	-2.966+1	5.616	-2.836	3.527+1	1.893
3410	6.827	-2.967+1	5.619	-2.808	3.529+1	1.867
3420	6.830	-2.969+1	5.623	-2.780	3.531+1	1.841
3430	6.832	-2.971+1	5.626	-2.752	3.533+1	1.815
3440	6.835	-2.972+1	5.630	-2.724	3.535+1	1.789
3450	6.838	-2.974+1	5.633	-2.696	3.537+1	1.763
3460	6.841	-2.976+1	5.637	-2.669	3.539+1	1.738
3470	6.843	-2.977+1	5.640	-2.641	3.541+1	1.712
3480	6.846	-2.979+1	5.644	-2.614	3.543+1	1.687
3490	6.849	-2.981+1	5.647	-2.587	3.545+1	1.662
3500	6.852	-2.982+1	5.651	-2.560	3.547+1	1.637
3510	6.854	-2.984+1	5.654	-2.533	3.549+1	1.612
3520	6.857	-2.985+1	5.658	-2.506	3.551+1	1.588
3530	6.860	-2.987+1	5.661	-2.480	3.553+1	1.563
3540	6.862	-2.989+1	5.665	-2.453	3.555+1	1.539
3550	6.865	-2.990+1	5.668	-2.427	3.557+1	1.514
3560	6.868	-2.992+1	5.671	-2.401	3.559+1	1.490
3570	6.870	-2.993+1	5.675	-2.375	3.561+1	1.466
3580	6.873	-2.995+1	5.678	-2.349	3.563+1	1.442
3590	6.875	-2.997+1	5.681	-2.324	3.565+1	1.419

SPECIE H2O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	6.878	-2.998+1	5.685	-2.298	3.567+1	1.395
3610	6.880	-3.000+1	5.688	-2.273	3.569+1	1.371
3620	6.883	-3.001+1	5.691	-2.247	3.570+1	1.348
3630	6.885	-3.003+1	5.695	-2.222	3.572+1	1.325
3640	6.888	-3.004+1	5.698	-2.197	3.574+1	1.302
3650	6.891	-3.006+1	5.701	-2.172	3.576+1	1.279
3660	6.893	-3.008+1	5.704	-2.147	3.578+1	1.256
3670	6.896	-3.009+1	5.708	-2.123	3.580+1	1.233
3680	6.898	-3.011+1	5.711	-2.098	3.582+1	1.211
3690	6.900	-3.012+1	5.714	-2.074	3.584+1	1.188
3700	6.903	-3.014+1	5.717	-2.050	3.586+1	1.166
3710	6.905	-3.015+1	5.720	-2.026	3.587+1	1.143
3720	6.908	-3.017+1	5.724	-2.002	3.589+1	1.121
3730	6.910	-3.018+1	5.727	-1.978	3.591+1	1.099
3740	6.912	-3.020+1	5.730	-1.954	3.593+1	1.077
3750	6.915	-3.021+1	5.733	-1.930	3.595+1	1.055
3760	6.917	-3.023+1	5.736	-1.907	3.597+1	1.033
3770	6.919	-3.025+1	5.739	-1.884	3.598+1	1.012
3780	6.922	-3.026+1	5.742	-1.860	3.600+1	9.899-1
3790	6.924	-3.028+1	5.745	-1.837	3.602+1	9.685-1
3800	6.926	-3.029+1	5.748	-1.814	3.604+1	9.471-1
3810	6.928	-3.031+1	5.752	-1.791	3.606+1	9.259-1
3820	6.931	-3.032+1	5.755	-1.768	3.608+1	9.047-1
3830	6.933	-3.034+1	5.758	-1.745	3.609+1	8.837-1
3840	6.935	-3.035+1	5.761	-1.723	3.611+1	8.627-1
3850	6.938	-3.037+1	5.764	-1.700	3.613+1	8.419-1
3860	6.940	-3.038+1	5.767	-1.678	3.615+1	8.212-1
3870	6.942	-3.040+1	5.770	-1.656	3.617+1	8.007-1
3880	6.944	-3.041+1	5.773	-1.633	3.618+1	7.802-1
3890	6.947	-3.043+1	5.776	-1.611	3.620+1	7.598-1
3900	6.949	-3.044+1	5.779	-1.589	3.622+1	7.396-1
3910	6.951	-3.046+1	5.782	-1.567	3.624+1	7.196-1
3920	6.953	-3.047+1	5.785	-1.546	3.626+1	6.997-1
3930	6.955	-3.048+1	5.788	-1.524	3.627+1	6.798-1
3940	6.957	-3.050+1	5.791	-1.502	3.629+1	6.601-1
3950	6.959	-3.051+1	5.794	-1.481	3.631+1	6.405-1
3960	6.961	-3.053+1	5.797	-1.460	3.633+1	6.210-1
3970	6.963	-3.054+1	5.800	-1.439	3.634+1	6.016-1
3980	6.965	-3.056+1	5.803	-1.417	3.636+1	5.823-1
3990	6.967	-3.057+1	5.806	-1.396	3.638+1	5.632-1
4000	6.969	-3.059+1	5.809	-1.376	3.640+1	5.441-1
4010	6.971	-3.060+1	5.812	-1.355	3.641+1	5.250-1
4020	6.973	-3.062+1	5.815	-1.334	3.643+1	5.059-1
4030	6.975	-3.063+1	5.818	-1.313	3.645+1	4.870-1
4040	6.977	-3.065+1	5.820	-1.293	3.647+1	4.681-1
4050	6.979	-3.066+1	5.823	-1.272	3.648+1	4.494-1
4060	6.981	-3.067+1	5.826	-1.252	3.650+1	4.307-1
4070	6.983	-3.069+1	5.829	-1.232	3.652+1	4.121-1
4080	6.985	-3.070+1	5.832	-1.212	3.653+1	3.935-1
4090	6.987	-3.072+1	5.835	-1.192	3.655+1	3.751-1

SPECIE H2O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	6.990	-3.073+1	5.837	-1.172	3.657+1	3.568-1
4110	6.991	-3.074+1	5.840	-1.152	3.659+1	3.386-1
4120	6.993	-3.076+1	5.843	-1.132	3.660+1	3.204-1
4130	6.995	-3.077+1	5.846	-1.113	3.662+1	3.024-1
4140	6.997	-3.079+1	5.848	-1.093	3.664+1	2.844-1
4150	6.999	-3.080+1	5.851	-1.074	3.665+1	2.665-1
4160	7.001	-3.082+1	5.854	-1.054	3.667+1	2.488-1
4170	7.003	-3.083+1	5.857	-1.035	3.669+1	2.311-1
4180	7.005	-3.084+1	5.859	-1.016	3.670+1	2.135-1
4190	7.006	-3.086+1	5.862	-9.966-1	3.672+1	1.960-1
4200	7.008	-3.087+1	5.865	-9.775-1	3.674+1	1.786-1
4210	7.010	-3.089+1	5.867	-9.586-1	3.675+1	1.613-1
4220	7.012	-3.090+1	5.870	-9.397-1	3.677+1	1.441-1
4230	7.014	-3.091+1	5.873	-9.209-1	3.679+1	1.270-1
4240	7.016	-3.093+1	5.876	-9.021-1	3.680+1	1.100-1
4250	7.017	-3.094+1	5.878	-8.835-1	3.682+1	9.306-2
4260	7.019	-3.095+1	5.881	-8.649-1	3.684+1	7.622-2
4270	7.021	-3.097+1	5.884	-8.464-1	3.685+1	5.946-2
4280	7.023	-3.098+1	5.886	-8.280-1	3.687+1	4.279-2
4290	7.025	-3.100+1	5.889	-8.097-1	3.689+1	2.619-2
4300	7.027	-3.101+1	5.892	-7.914-1	3.690+1	9.660-3
4310	7.029	-3.102+1	5.894	-7.733-1	3.692+1	-6.846-3
4320	7.030	-3.104+1	5.897	-7.553-1	3.693+1	-2.326-2
4330	7.032	-3.105+1	5.900	-7.373-1	3.695+1	-3.963-2
4340	7.034	-3.107+1	5.902	-7.194-1	3.697+1	-5.594-2
4350	7.035	-3.108+1	5.905	-7.016-1	3.698+1	-7.218-2
4360	7.037	-3.109+1	5.907	-6.839-1	3.700+1	-8.837-2
4370	7.039	-3.111+1	5.910	-6.662-1	3.702+1	-1.045-1
4380	7.040	-3.112+1	5.912	-6.486-1	3.703+1	-1.206-1
4390	7.042	-3.113+1	5.915	-6.311-1	3.705+1	-1.366-1
4400	7.043	-3.115+1	5.918	-6.137-1	3.706+1	-1.525-1
4410	7.045	-3.116+1	5.920	-5.963-1	3.708+1	-1.685-1
4420	7.047	-3.117+1	5.923	-5.790-1	3.710+1	-1.843-1
4430	7.048	-3.119+1	5.925	-5.618-1	3.711+1	-2.001-1
4440	7.050	-3.120+1	5.928	-5.446-1	3.713+1	-2.159-1
4450	7.052	-3.121+1	5.930	-5.275-1	3.714+1	-2.315-1
4460	7.054	-3.123+1	5.933	-5.105-1	3.716+1	-2.472-1
4470	7.055	-3.124+1	5.935	-4.936-1	3.718+1	-2.627-1
4480	7.057	-3.125+1	5.938	-4.767-1	3.719+1	-2.782-1
4490	7.059	-3.127+1	5.940	-4.599-1	3.721+1	-2.937-1
4500	7.060	-3.128+1	5.943	-4.432-1	3.722+1	-3.090-1
4510	7.062	-3.129+1	5.945	-4.265-1	3.724+1	-3.242-1
4520	7.064	-3.131+1	5.948	-4.100-1	3.725+1	-3.393-1
4530	7.065	-3.132+1	5.950	-3.935-1	3.727+1	-3.544-1
4540	7.067	-3.133+1	5.953	-3.770-1	3.729+1	-3.694-1
4550	7.068	-3.135+1	5.955	-3.607-1	3.730+1	-3.843-1
4560	7.070	-3.136+1	5.958	-3.444-1	3.732+1	-3.991-1
4570	7.071	-3.137+1	5.960	-3.282-1	3.733+1	-4.138-1
4580	7.073	-3.138+1	5.963	-3.120-1	3.735+1	-4.285-1
4590	7.074	-3.140+1	5.965	-2.960-1	3.736+1	-4.431-1

SPECIE H2O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	7.076	-3.141+1	5.967	-2.799-1	3.738+1	-4.576-1
4610	7.077	-3.142+1	5.970	-2.640-1	3.739+1	-4.721-1
4620	7.079	-3.144+1	5.972	-2.481-1	3.741+1	-4.866-1
4630	7.080	-3.145+1	5.975	-2.323-1	3.742+1	-5.009-1
4640	7.082	-3.146+1	5.977	-2.165-1	3.744+1	-5.153-1
4650	7.083	-3.147+1	5.979	-2.008-1	3.745+1	-5.295-1
4660	7.085	-3.149+1	5.982	-1.852-1	3.747+1	-5.437-1
4670	7.087	-3.150+1	5.984	-1.696-1	3.749+1	-5.578-1
4680	7.088	-3.151+1	5.986	-1.541-1	3.750+1	-5.719-1
4690	7.090	-3.153+1	5.989	-1.386-1	3.752+1	-5.859-1
4700	7.092	-3.154+1	5.991	-1.232-1	3.753+1	-5.999-1
4710	7.093	-3.155+1	5.993	-1.079-1	3.755+1	-6.138-1
4720	7.095	-3.156+1	5.996	-9.267-2	3.756+1	-6.276-1
4730	7.096	-3.158+1	5.998	-7.748-2	3.758+1	-6.414-1
4740	7.097	-3.159+1	6.000	-6.235-2	3.759+1	-6.551-1
4750	7.099	-3.160+1	6.003	-4.729-2	3.761+1	-6.688-1
4760	7.100	-3.162+1	6.005	-3.228-2	3.762+1	-6.824-1
4770	7.101	-3.163+1	6.007	-1.734-2	3.764+1	-6.959-1
4780	7.103	-3.164+1	6.010	-2.452-3	3.765+1	-7.094-1
4790	7.104	-3.165+1	6.012	1.237-2	3.766+1	-7.229-1
4800	7.105	-3.167+1	6.014	2.714-2	3.768+1	-7.363-1
4810	7.107	-3.168+1	6.016	4.186-2	3.769+1	-7.496-1
4820	7.108	-3.169+1	6.019	5.653-2	3.771+1	-7.629-1
4830	7.110	-3.170+1	6.021	7.113-2	3.772+1	-7.762-1
4840	7.111	-3.172+1	6.023	8.568-2	3.774+1	-7.894-1
4850	7.112	-3.173+1	6.025	1.002-1	3.775+1	-8.025-1
4860	7.114	-3.174+1	6.028	1.146-1	3.777+1	-8.156-1
4870	7.115	-3.175+1	6.030	1.290-1	3.778+1	-8.286-1
4880	7.117	-3.177+1	6.032	1.433-1	3.780+1	-8.416-1
4890	7.118	-3.178+1	6.034	1.576-1	3.781+1	-8.546-1
4900	7.120	-3.179+1	6.037	1.718-1	3.783+1	-8.675-1
4910	7.121	-3.180+1	6.039	1.860-1	3.784+1	-8.804-1
4920	7.123	-3.181+1	6.041	2.002-1	3.786+1	-8.932-1
4930	7.124	-3.183+1	6.043	2.143-1	3.787+1	-9.060-1
4940	7.125	-3.184+1	6.045	2.283-1	3.788+1	-9.188-1
4950	7.126	-3.185+1	6.048	2.423-1	3.790+1	-9.315-1
4960	7.128	-3.186+1	6.050	2.562-1	3.791+1	-9.441-1
4970	7.129	-3.188+1	6.052	2.700-1	3.793+1	-9.568-1
4980	7.130	-3.189+1	6.054	2.837-1	3.794+1	-9.694-1
4990	7.131	-3.190+1	6.056	2.973-1	3.796+1	-9.820-1
5000	7.132	-3.191+1	6.058	3.109-1	3.797+1	-9.946-1
5010	7.133	-3.192+1	6.060	3.241-1	3.798+1	-1.007
5020	7.135	-3.194+1	6.062	3.372-1	3.800+1	-1.020
5030	7.136	-3.195+1	6.064	3.503-1	3.801+1	-1.033
5040	7.137	-3.196+1	6.065	3.631-1	3.802+1	-1.045
5050	7.138	-3.197+1	6.067	3.759-1	3.804+1	-1.058
5060	7.139	-3.198+1	6.068	3.886-1	3.805+1	-1.070
5070	7.139	-3.199+1	6.069	4.011-1	3.806+1	-1.083
5080	7.140	-3.201+1	6.071	4.136-1	3.808+1	-1.095
5090	7.141	-3.202+1	6.072	4.260-1	3.809+1	-1.108

SPECIE H2O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	7.142	-3.203+1	6.073	4.383-1	3.810+1	-1.120
5110	7.143	-3.204+1	6.075	4.587-1	3.811+1	-1.133
5120	7.144	-3.205+1	6.076	4.632-1	3.813+1	-1.145
5130	7.145	-3.206+1	6.077	4.756-1	3.814+1	-1.157
5140	7.146	-3.207+1	6.079	4.879-1	3.815+1	-1.169
5150	7.147	-3.209+1	6.080	5.002-1	3.817+1	-1.181
5160	7.148	-3.210+1	6.082	5.124-1	3.818+1	-1.193
5170	7.149	-3.211+1	6.083	5.246-1	3.819+1	-1.204
5180	7.150	-3.212+1	6.085	5.368-1	3.821+1	-1.216
5190	7.151	-3.213+1	6.086	5.489-1	3.822+1	-1.228
5200	7.152	-3.214+1	6.087	5.610-1	3.823+1	-1.240
5210	7.152	-3.216+1	6.089	5.730-1	3.824+1	-1.252
5220	7.153	-3.217+1	6.090	5.850-1	3.826+1	-1.263
5230	7.154	-3.218+1	6.092	5.969-1	3.827+1	-1.275
5240	7.155	-3.219+1	6.093	6.088-1	3.828+1	-1.287
5250	7.156	-3.220+1	6.094	6.206-1	3.830+1	-1.299
5260	7.157	-3.221+1	6.096	6.324-1	3.831+1	-1.310
5270	7.158	-3.222+1	6.097	6.442-1	3.832+1	-1.322
5280	7.159	-3.223+1	6.099	6.559-1	3.833+1	-1.333
5290	7.160	-3.225+1	6.100	6.676-1	3.835+1	-1.345
5300	7.161	-3.226+1	6.101	6.792-1	3.836+1	-1.356
5310	7.162	-3.227+1	6.103	6.908-1	3.837+1	-1.368
5320	7.162	-3.228+1	6.104	7.024-1	3.838+1	-1.379
5330	7.163	-3.229+1	6.106	7.139-1	3.840+1	-1.390
5340	7.164	-3.230+1	6.107	7.253-1	3.841+1	-1.401
5350	7.165	-3.231+1	6.108	7.368-1	3.842+1	-1.412
5360	7.166	-3.232+1	6.110	7.482-1	3.843+1	-1.424
5370	7.167	-3.234+1	6.111	7.595-1	3.845+1	-1.435
5380	7.168	-3.235+1	6.112	7.708-1	3.846+1	-1.446
5390	7.169	-3.236+1	6.114	7.821-1	3.847+1	-1.456
5400	7.170	-3.237+1	6.115	7.933-1	3.848+1	-1.467
5410	7.171	-3.238+1	6.116	8.045-1	3.850+1	-1.478
5420	7.172	-3.239+1	6.118	8.156-1	3.851+1	-1.489
5430	7.173	-3.240+1	6.119	8.267-1	3.852+1	-1.500
5440	7.174	-3.241+1	6.120	8.378-1	3.853+1	-1.511
5450	7.175	-3.242+1	6.122	8.488-1	3.855+1	-1.522
5460	7.176	-3.244+1	6.123	8.597-1	3.856+1	-1.533
5470	7.177	-3.245+1	6.124	8.707-1	3.857+1	-1.543
5480	7.177	-3.246+1	6.126	8.816-1	3.858+1	-1.554
5490	7.178	-3.247+1	6.127	8.925-1	3.859+1	-1.565
5500	7.179	-3.248+1	6.128	9.033-1	3.861+1	-1.575
5510	7.180	-3.249+1	6.130	9.141-1	3.862+1	-1.586
5520	7.181	-3.250+1	6.131	9.249-1	3.863+1	-1.597
5530	7.182	-3.251+1	6.132	9.356-1	3.864+1	-1.607
5540	7.183	-3.252+1	6.134	9.463-1	3.866+1	-1.618
5550	7.184	-3.253+1	6.135	9.569-1	3.867+1	-1.628
5560	7.185	-3.254+1	6.136	9.675-1	3.868+1	-1.638
5570	7.186	-3.255+1	6.137	9.781-1	3.869+1	-1.649
5580	7.187	-3.257+1	6.139	9.887-1	3.870+1	-1.659
5590	7.188	-3.258+1	6.140	9.992-1	3.872+1	-1.669

SPECIE H2O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	7.189	-3.259+1	6.141	1.010	3.873+1	-1.680
5610	7.190	-3.260+1	6.143	1.020	3.874+1	-1.690
5620	7.191	-3.261+1	6.144	1.030	3.875+1	-1.700
5630	7.192	-3.262+1	6.145	1.041	3.876+1	-1.710
5640	7.192	-3.263+1	6.146	1.051	3.878+1	-1.720
5650	7.193	-3.264+1	6.148	1.061	3.879+1	-1.730
5660	7.194	-3.265+1	6.149	1.072	3.880+1	-1.740
5670	7.195	-3.266+1	6.150	1.082	3.881+1	-1.750
5680	7.196	-3.267+1	6.151	1.092	3.882+1	-1.760
5690	7.197	-3.268+1	6.153	1.102	3.884+1	-1.770
5700	7.198	-3.269+1	6.154	1.112	3.885+1	-1.780
5710	7.199	-3.270+1	6.155	1.122	3.886+1	-1.790
5720	7.200	-3.272+1	6.156	1.132	3.887+1	-1.800
5730	7.201	-3.273+1	6.158	1.142	3.888+1	-1.809
5740	7.201	-3.274+1	6.159	1.152	3.890+1	-1.819
5750	7.202	-3.275+1	6.160	1.162	3.891+1	-1.829
5760	7.203	-3.276+1	6.161	1.172	3.892+1	-1.838
5770	7.204	-3.277+1	6.163	1.182	3.893+1	-1.848
5780	7.205	-3.278+1	6.164	1.192	3.894+1	-1.858
5790	7.206	-3.279+1	6.165	1.202	3.895+1	-1.867
5800	7.207	-3.280+1	6.166	1.212	3.897+1	-1.877
5810	7.208	-3.281+1	6.168	1.221	3.898+1	-1.886
5820	7.209	-3.282+1	6.169	1.231	3.899+1	-1.896
5830	7.210	-3.283+1	6.170	1.241	3.900+1	-1.905
5840	7.211	-3.284+1	6.171	1.250	3.901+1	-1.915
5850	7.211	-3.285+1	6.173	1.260	3.902+1	-1.924
5860	7.212	-3.286+1	6.174	1.270	3.904+1	-1.934
5870	7.213	-3.287+1	6.175	1.279	3.905+1	-1.943
5880	7.214	-3.288+1	6.176	1.289	3.906+1	-1.953
5890	7.215	-3.289+1	6.177	1.298	3.907+1	-1.962
5900	7.216	-3.290+1	6.179	1.308	3.908+1	-1.971
5910	7.217	-3.291+1	6.180	1.317	3.909+1	-1.981
5920	7.218	-3.292+1	6.181	1.327	3.910+1	-1.990
5930	7.219	-3.293+1	6.182	1.336	3.912+1	-1.999
5940	7.220	-3.294+1	6.183	1.345	3.913+1	-2.008
5950	7.220	-3.295+1	6.185	1.355	3.914+1	-2.017
5960	7.221	-3.296+1	6.186	1.364	3.915+1	-2.026
5970	7.222	-3.297+1	6.187	1.373	3.916+1	-2.035
5980	7.223	-3.298+1	6.188	1.382	3.917+1	-2.044
5990	7.224	-3.299+1	6.189	1.392	3.918+1	-2.053
6000	7.225	-3.300+1	6.190	1.401	3.919+1	-2.062

SPECIE H2O2

MOLECULAR WEIGHT EQUALS 34.0160

DELTA E ZERO EQUALS -32.398 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(P. A. GIGUERE, 12/20/55) (3)

THERMAL

(P. A. GIGUERE, 12/20/55) (3)

SPECIE H2O2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
300	-2.365+1	4.398	2.804+1	5.198	-4.995+1	4.450+1
310	-2.379+1	4.425	2.821+1	5.268	-4.821+1	4.271+1
320	-2.394+1	4.452	2.839+1	5.336	-4.656+1	4.101+1
330	-2.407+1	4.476	2.856+1	5.403	-4.500+1	3.940+1
340	-2.421+1	4.503	2.872+1	5.468	-4.352+1	3.787+1
350	-2.434+1	4.530	2.888+1	5.531	-4.211+1	3.642+1
360	-2.447+1	4.557	2.903+1	5.593	-4.078+1	3.505+1
370	-2.459+1	4.585	2.919+1	5.654	-3.951+1	3.375+1
380	-2.472+1	4.615	2.934+1	5.713	-3.831+1	3.251+1
390	-2.484+1	4.642	2.948+1	5.771	-3.717+1	3.134+1
400	-2.495+1	4.670	2.962+1	5.827	-3.609+1	3.022+1
410	-2.507+1	4.698	2.977+1	5.882	-3.506+1	2.917+1
420	-2.518+1	4.725	2.990+1	5.936	-3.408+1	2.816+1
430	-2.530+1	4.755	3.004+1	5.989	-3.314+1	2.720+1
440	-2.541+1	4.784	3.018+1	6.040	-3.225+1	2.628+1
450	-2.551+1	4.812	3.031+1	6.090	-3.140+1	2.541+1
460	-2.562+1	4.840	3.044+1	6.138	-3.058+1	2.458+1
470	-2.572+1	4.868	3.057+1	6.185	-2.980+1	2.378+1
480	-2.583+1	4.895	3.070+1	6.232	-2.906+1	2.302+1
490	-2.593+1	4.923	3.083+1	6.277	-2.834+1	2.229+1
500	-2.603+1	4.952	3.095+1	6.320	-2.766+1	2.159+1
510	-2.612+1	4.979	3.108+1	6.363	-2.699+1	2.091+1
520	-2.622+1	5.006	3.121+1	6.405	-2.636+1	2.026+1
530	-2.632+1	5.033	3.133+1	6.445	-2.574+1	1.964+1
540	-2.641+1	5.059	3.145+1	6.484	-2.515+1	1.903+1
550	-2.650+1	5.085	3.157+1	6.523	-2.457+1	1.845+1
560	-2.660+1	5.111	3.169+1	6.560	-2.402+1	1.789+1
570	-2.669+1	5.137	3.181+1	6.596	-2.348+1	1.734+1
580	-2.678+1	5.163	3.193+1	6.631	-2.296+1	1.681+1
590	-2.687+1	5.188	3.205+1	6.665	-2.245+1	1.630+1
600	-2.695+1	5.213	3.216+1	6.698	-2.196+1	1.580+1
610	-2.704+1	5.238	3.227+1	6.729	-2.149+1	1.533+1
620	-2.713+1	5.263	3.238+1	6.760	-2.104+1	1.487+1
630	-2.721+1	5.287	3.249+1	6.790	-2.060+1	1.442+1
640	-2.729+1	5.311	3.260+1	6.819	-2.017+1	1.399+1
650	-2.738+1	5.335	3.271+1	6.847	-1.975+1	1.357+1
660	-2.746+1	5.359	3.281+1	6.874	-1.935+1	1.316+1
670	-2.754+1	5.382	3.292+1	6.900	-1.896+1	1.277+1
680	-2.762+1	5.405	3.302+1	6.926	-1.857+1	1.239+1
690	-2.770+1	5.428	3.312+1	6.950	-1.820+1	1.201+1
700	-2.778+1	5.450	3.322+1	6.975	-1.784+1	1.165+1
710	-2.786+1	5.472	3.332+1	6.999	-1.749+1	1.130+1
720	-2.793+1	5.493	3.342+1	7.022	-1.715+1	1.096+1
730	-2.801+1	5.515	3.352+1	7.045	-1.682+1	1.062+1
740	-2.808+1	5.536	3.362+1	7.068	-1.650+1	1.030+1
750	-2.816+1	5.557	3.371+1	7.090	-1.618+1	9.986
760	-2.823+1	5.577	3.381+1	7.112	-1.588+1	9.678
770	-2.830+1	5.597	3.390+1	7.133	-1.558+1	9.378
780	-2.837+1	5.617	3.399+1	7.155	-1.529+1	9.086
790	-2.844+1	5.637	3.408+1	7.176	-1.500+1	8.799

SPECIE H202

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
800	-2.851+1	5.656	3.417+1	7.196	-1.472+1	8.520
810	-2.858+1	5.675	3.426+1	7.217	-1.445+1	8.244
820	-2.864+1	5.694	3.435+1	7.237	-1.419+1	7.978
830	-2.871+1	5.713	3.444+1	7.258	-1.393+1	7.716
840	-2.877+1	5.731	3.453+1	7.278	-1.368+1	7.460
850	-2.883+1	5.750	3.461+1	7.298	-1.343+1	7.208
860	-2.890+1	5.768	3.470+1	7.317	-1.319+1	6.963
870	-2.896+1	5.785	3.478+1	7.336	-1.295+1	6.722
880	-2.902+1	5.803	3.487+1	7.355	-1.272+1	6.487
890	-2.908+1	5.820	3.495+1	7.374	-1.250+1	6.257
900	-2.914+1	5.837	3.503+1	7.392	-1.228+1	6.032
910	-2.920+1	5.854	3.511+1	7.410	-1.206+1	5.815
920	-2.926+1	5.871	3.519+1	7.427	-1.185+1	5.604
930	-2.932+1	5.887	3.527+1	7.444	-1.164+1	5.398
940	-2.939+1	5.904	3.535+1	7.462	-1.144+1	5.197
950	-2.945+1	5.920	3.543+1	7.478	-1.124+1	5.001
960	-2.951+1	5.936	3.551+1	7.495	-1.105+1	4.810
970	-2.958+1	5.952	3.559+1	7.511	-1.086+1	4.623
980	-2.964+1	5.967	3.566+1	7.527	-1.067+1	4.440
990	-2.970+1	5.983	3.574+1	7.543	-1.049+1	4.262
1000	-2.977+1	5.998	3.581+1	7.558	-1.030+1	4.087
1010	-2.983+1	6.014	3.589+1	7.574	-1.013+1	3.914
1020	-2.989+1	6.029	3.596+1	7.590	-9.954	3.744
1030	-2.995+1	6.045	3.604+1	7.606	-9.784	3.577
1040	-3.000+1	6.060	3.611+1	7.622	-9.617	3.413
1050	-3.006+1	6.075	3.619+1	7.638	-9.452	3.253
1060	-3.012+1	6.091	3.626+1	7.654	-9.291	3.095
1070	-3.018+1	6.105	3.633+1	7.669	-9.132	2.939
1080	-3.024+1	6.120	3.640+1	7.684	-8.976	2.787
1090	-3.029+1	6.135	3.647+1	7.699	-8.823	2.637
1100	-3.035+1	6.149	3.654+1	7.714	-8.672	2.490
1110	-3.041+1	6.164	3.660+1	7.729	-8.524	2.346
1120	-3.046+1	6.178	3.666+1	7.744	-8.378	2.205
1130	-3.052+1	6.192	3.672+1	7.758	-8.236	2.067
1140	-3.057+1	6.206	3.677+1	7.772	-8.096	1.931
1150	-3.063+1	6.220	3.682+1	7.786	-7.957	1.797
1160	-3.068+1	6.233	3.688+1	7.800	-7.822	1.666
1170	-3.074+1	6.246	3.693+1	7.814	-7.688	1.537
1180	-3.079+1	6.260	3.698+1	7.828	-7.557	1.410
1190	-3.084+1	6.272	3.703+1	7.842	-7.428	1.286
1200	-3.090+1	6.285	3.708+1	7.855	-7.301	1.163
1210	-3.095+1	6.298	3.716+1	7.869	-7.176	1.042
1220	-3.100+1	6.309	3.722+1	7.882	-7.054	9.229-1
1230	-3.105+1	6.321	3.729+1	7.896	-6.933	8.057-1
1240	-3.110+1	6.333	3.737+1	7.909	-6.815	6.902-1
1250	-3.116+1	6.345	3.745+1	7.922	-6.698	5.765-1
1260	-3.121+1	6.356	3.753+1	7.935	-6.583	4.646-1
1270	-3.126+1	6.367	3.761+1	7.948	-6.470	3.545-1
1280	-3.131+1	6.379	3.769+1	7.961	-6.359	2.460-1
1290	-3.136+1	6.390	3.777+1	7.974	-6.249	1.393-1

SPECIE H2O2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1300	-3.141+1	6.401	3.786+1	7.986	-6.140	3.425-2
1310	-3.146+1	6.413	3.793+1	7.999	-6.032	-6.819-2
1320	-3.151+1	6.425	3.799+1	8.011	-5.925	-1.689-1
1330	-3.156+1	6.438	3.805+1	8.023	-5.819	-2.679-1
1340	-3.161+1	6.450	3.811+1	8.036	-5.715	-3.653-1
1350	-3.166+1	6.463	3.817+1	8.048	-5.612	-4.611-1
1360	-3.171+1	6.476	3.823+1	8.060	-5.511	-5.554-1
1370	-3.176+1	6.488	3.829+1	8.072	-5.411	-6.483-1
1380	-3.181+1	6.501	3.835+1	8.084	-5.312	-7.399-1
1390	-3.185+1	6.514	3.841+1	8.095	-5.215	-8.302-1
1400	-3.190+1	6.527	3.846+1	8.107	-5.118	-9.193-1
1410	-3.195+1	6.539	3.852+1	8.118	-5.024	-1.007
1420	-3.200+1	6.551	3.858+1	8.130	-4.930	-1.095
1430	-3.204+1	6.564	3.863+1	8.141	-4.838	-1.181
1440	-3.209+1	6.576	3.869+1	8.152	-4.748	-1.266
1450	-3.213+1	6.588	3.874+1	8.164	-4.658	-1.351
1460	-3.218+1	6.599	3.880+1	8.175	-4.570	-1.435
1470	-3.222+1	6.610	3.885+1	8.185	-4.484	-1.519
1480	-3.226+1	6.620	3.891+1	8.196	-4.398	-1.603
1490	-3.231+1	6.627	3.896+1	8.207	-4.314	-1.686
1500	-3.235+1	6.638	3.901+1	8.218	-4.231	-1.770

SPECIE HE

MOLECULAR WEIGHT EQUALS 4.00280

DELTA E ZERO EQUALS 0.0 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(SPECIE IS IN STANDARD STATE AT ZERO DEGREES KELVIN)

THERMAL

(NBS 6484, 7/1/59) (8)

SPECIE HE

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
100	2.500	-9.928	2.500	2.500	1.243+1
110	2.500	-1.015+1	2.500	2.500	1.265+1
120	2.500	-1.036+1	2.500	2.500	1.286+1
130	2.500	-1.056+1	2.500	2.500	1.306+1
140	2.500	-1.075+1	2.500	2.500	1.325+1
150	2.500	-1.092+1	2.500	2.500	1.342+1
160	2.500	-1.109+1	2.500	2.500	1.359+1
170	2.500	-1.124+1	2.500	2.500	1.374+1
180	2.500	-1.139+1	2.500	2.500	1.389+1
190	2.500	-1.153+1	2.500	2.500	1.403+1
200	2.500	-1.166+1	2.500	2.500	1.416+1
210	2.500	-1.179+1	2.500	2.500	1.429+1
220	2.500	-1.190+1	2.500	2.500	1.440+1
230	2.500	-1.202+1	2.500	2.500	1.452+1
240	2.500	-1.212+1	2.500	2.500	1.462+1
250	2.500	-1.222+1	2.500	2.500	1.472+1
260	2.500	-1.232+1	2.500	2.500	1.482+1
270	2.500	-1.242+1	2.500	2.500	1.492+1
280	2.500	-1.250+1	2.500	2.500	1.500+1
290	2.500	-1.259+1	2.500	2.500	1.509+1
300	2.500	-1.267+1	2.500	2.500	1.517+1
310	2.500	-1.276+1	2.500	2.500	1.526+1
320	2.500	-1.284+1	2.500	2.500	1.534+1
330	2.500	-1.291+1	2.500	2.500	1.541+1
340	2.500	-1.299+1	2.500	2.500	1.549+1
350	2.500	-1.306+1	2.500	2.500	1.556+1
360	2.500	-1.313+1	2.500	2.500	1.563+1
370	2.500	-1.320+1	2.500	2.500	1.570+1
380	2.500	-1.327+1	2.500	2.500	1.577+1
390	2.500	-1.333+1	2.500	2.500	1.583+1
400	2.500	-1.339+1	2.500	2.500	1.589+1
410	2.500	-1.346+1	2.500	2.500	1.596+1
420	2.500	-1.352+1	2.500	2.500	1.602+1
430	2.500	-1.357+1	2.500	2.500	1.608+1
440	2.500	-1.363+1	2.500	2.500	1.613+1
450	2.500	-1.369+1	2.500	2.500	1.619+1
460	2.500	-1.374+1	2.500	2.500	1.624+1
470	2.500	-1.380+1	2.500	2.500	1.630+1
480	2.500	-1.385+1	2.500	2.500	1.635+1
490	2.500	-1.390+1	2.500	2.500	1.640+1
500	2.500	-1.395+1	2.500	2.500	1.645+1
510	2.500	-1.400+1	2.500	2.500	1.650+1
520	2.500	-1.405+1	2.500	2.500	1.655+1
530	2.500	-1.410+1	2.500	2.500	1.660+1
540	2.500	-1.414+1	2.500	2.500	1.664+1
550	2.500	-1.419+1	2.500	2.500	1.669+1
560	2.500	-1.423+1	2.500	2.500	1.674+1
570	2.500	-1.428+1	2.500	2.500	1.678+1
580	2.500	-1.432+1	2.500	2.500	1.682+1
590	2.500	-1.437+1	2.500	2.500	1.687+1

TEMP	CP/R	SPECIE HE			
		(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
600	2.500	-1.441+1	2.500	2.500	1.691+1
610	2.500	-1.445+1	2.500	2.500	1.695+1
620	2.500	-1.449+1	2.500	2.500	1.699+1
630	2.500	-1.453+1	2.500	2.500	1.703+1
640	2.500	-1.457+1	2.500	2.500	1.707+1
650	2.500	-1.461+1	2.500	2.500	1.711+1
660	2.500	-1.465+1	2.500	2.500	1.715+1
670	2.500	-1.468+1	2.500	2.500	1.718+1
680	2.500	-1.472+1	2.500	2.500	1.722+1
690	2.500	-1.476+1	2.500	2.500	1.726+1
700	2.500	-1.479+1	2.500	2.500	1.729+1
710	2.500	-1.483+1	2.500	2.500	1.733+1
720	2.500	-1.486+1	2.500	2.500	1.736+1
730	2.500	-1.490+1	2.500	2.500	1.740+1
740	2.500	-1.493+1	2.500	2.500	1.743+1
750	2.500	-1.497+1	2.500	2.500	1.747+1
760	2.500	-1.500+1	2.500	2.500	1.750+1
770	2.500	-1.503+1	2.500	2.500	1.753+1
780	2.500	-1.506+1	2.500	2.500	1.756+1
790	2.500	-1.510+1	2.500	2.500	1.760+1
800	2.500	-1.513+1	2.500	2.500	1.763+1
810	2.500	-1.516+1	2.500	2.500	1.766+1
820	2.500	-1.519+1	2.500	2.500	1.769+1
830	2.500	-1.522+1	2.500	2.500	1.772+1
840	2.500	-1.525+1	2.500	2.500	1.775+1
850	2.500	-1.528+1	2.500	2.500	1.778+1
860	2.500	-1.531+1	2.500	2.500	1.781+1
870	2.500	-1.534+1	2.500	2.500	1.784+1
880	2.500	-1.536+1	2.500	2.500	1.787+1
890	2.500	-1.539+1	2.500	2.500	1.789+1
900	2.500	-1.542+1	2.500	2.500	1.792+1
910	2.500	-1.545+1	2.500	2.500	1.795+1
920	2.500	-1.548+1	2.500	2.500	1.798+1
930	2.500	-1.550+1	2.500	2.500	1.800+1
940	2.500	-1.553+1	2.500	2.500	1.803+1
950	2.500	-1.556+1	2.500	2.500	1.806+1
960	2.500	-1.558+1	2.500	2.500	1.808+1
970	2.500	-1.561+1	2.500	2.500	1.811+1
980	2.500	-1.563+1	2.500	2.500	1.813+1
990	2.500	-1.566+1	2.500	2.500	1.816+1
1000	2.500	-1.568+1	2.500	2.500	1.818+1
1010	2.500	-1.571+1	2.500	2.500	1.821+1
1020	2.500	-1.573+1	2.500	2.500	1.823+1
1030	2.500	-1.576+1	2.500	2.500	1.826+1
1040	2.500	-1.578+1	2.500	2.500	1.828+1
1050	2.500	-1.581+1	2.500	2.500	1.831+1
1060	2.500	-1.583+1	2.500	2.500	1.833+1
1070	2.500	-1.585+1	2.500	2.500	1.835+1
1080	2.500	-1.588+1	2.500	2.500	1.838+1
1090	2.500	-1.590+1	2.500	2.500	1.840+1

SPECIE HE

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
1100	2.500	-1.592+1	2.500	2.500	1.842+1
1110	2.500	-1.595+1	2.500	2.500	1.845+1
1120	2.500	-1.597+1	2.500	2.500	1.847+1
1130	2.500	-1.599+1	2.500	2.500	1.849+1
1140	2.500	-1.601+1	2.500	2.500	1.851+1
1150	2.500	-1.603+1	2.500	2.500	1.853+1
1160	2.500	-1.606+1	2.500	2.500	1.856+1
1170	2.500	-1.608+1	2.500	2.500	1.858+1
1180	2.500	-1.610+1	2.500	2.500	1.860+1
1190	2.500	-1.612+1	2.500	2.500	1.862+1
1200	2.500	-1.614+1	2.500	2.500	1.864+1
1210	2.500	-1.616+1	2.500	2.500	1.866+1
1220	2.500	-1.618+1	2.500	2.500	1.868+1
1230	2.500	-1.620+1	2.500	2.500	1.870+1
1240	2.500	-1.622+1	2.500	2.500	1.872+1
1250	2.500	-1.624+1	2.500	2.500	1.874+1
1260	2.500	-1.626+1	2.500	2.500	1.876+1
1270	2.500	-1.628+1	2.500	2.500	1.878+1
1280	2.500	-1.630+1	2.500	2.500	1.880+1
1290	2.500	-1.632+1	2.500	2.500	1.882+1
1300	2.500	-1.634+1	2.500	2.500	1.884+1
1310	2.500	-1.636+1	2.500	2.500	1.886+1
1320	2.500	-1.638+1	2.500	2.500	1.888+1
1330	2.500	-1.640+1	2.500	2.500	1.890+1
1340	2.500	-1.642+1	2.500	2.500	1.892+1
1350	2.500	-1.643+1	2.500	2.500	1.893+1
1360	2.500	-1.645+1	2.500	2.500	1.895+1
1370	2.500	-1.647+1	2.500	2.500	1.897+1
1380	2.500	-1.649+1	2.500	2.500	1.899+1
1390	2.500	-1.651+1	2.500	2.500	1.901+1
1400	2.500	-1.653+1	2.500	2.500	1.903+1
1410	2.500	-1.654+1	2.500	2.500	1.904+1
1420	2.500	-1.656+1	2.500	2.500	1.906+1
1430	2.500	-1.658+1	2.500	2.500	1.908+1
1440	2.500	-1.660+1	2.500	2.500	1.910+1
1450	2.500	-1.661+1	2.500	2.500	1.911+1
1460	2.500	-1.663+1	2.500	2.500	1.913+1
1470	2.500	-1.665+1	2.500	2.500	1.915+1
1480	2.500	-1.666+1	2.500	2.500	1.916+1
1490	2.500	-1.668+1	2.500	2.500	1.918+1
1500	2.500	-1.670+1	2.500	2.500	1.920+1
1510	2.500	-1.671+1	2.500	2.500	1.921+1
1520	2.500	-1.673+1	2.500	2.500	1.923+1
1530	2.500	-1.675+1	2.500	2.500	1.925+1
1540	2.500	-1.676+1	2.500	2.500	1.926+1
1550	2.500	-1.678+1	2.500	2.500	1.928+1
1560	2.500	-1.680+1	2.500	2.500	1.930+1
1570	2.500	-1.681+1	2.500	2.500	1.931+1
1580	2.500	-1.683+1	2.500	2.500	1.933+1
1590	2.500	-1.684+1	2.500	2.500	1.934+1

SPECIE HE

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
1600	2.500	-1.686+1	2.500	2.500	1.936+1
1610	2.500	-1.688+1	2.500	2.500	1.938+1
1620	2.500	-1.689+1	2.500	2.500	1.939+1
1630	2.500	-1.691+1	2.500	2.500	1.941+1
1640	2.500	-1.692+1	2.500	2.500	1.942+1
1650	2.500	-1.694+1	2.500	2.500	1.944+1
1660	2.500	-1.695+1	2.500	2.500	1.945+1
1670	2.500	-1.697+1	2.500	2.500	1.947+1
1680	2.500	-1.698+1	2.500	2.500	1.948+1
1690	2.500	-1.700+1	2.500	2.500	1.950+1
1700	2.500	-1.701+1	2.500	2.500	1.951+1
1710	2.500	-1.703+1	2.500	2.500	1.953+1
1720	2.500	-1.704+1	2.500	2.500	1.954+1
1730	2.500	-1.706+1	2.500	2.500	1.956+1
1740	2.500	-1.707+1	2.500	2.500	1.957+1
1750	2.500	-1.708+1	2.500	2.500	1.958+1
1760	2.500	-1.710+1	2.500	2.500	1.960+1
1770	2.500	-1.711+1	2.500	2.500	1.961+1
1780	2.500	-1.713+1	2.500	2.500	1.963+1
1790	2.500	-1.714+1	2.500	2.500	1.964+1
1800	2.500	-1.715+1	2.500	2.500	1.965+1
1810	2.500	-1.717+1	2.500	2.500	1.967+1
1820	2.500	-1.718+1	2.500	2.500	1.968+1
1830	2.500	-1.720+1	2.500	2.500	1.970+1
1840	2.500	-1.721+1	2.500	2.500	1.971+1
1850	2.500	-1.722+1	2.500	2.500	1.972+1
1860	2.500	-1.724+1	2.500	2.500	1.974+1
1870	2.500	-1.725+1	2.500	2.500	1.975+1
1880	2.500	-1.726+1	2.500	2.500	1.976+1
1890	2.500	-1.728+1	2.500	2.500	1.978+1
1900	2.500	-1.729+1	2.500	2.500	1.979+1
1910	2.500	-1.730+1	2.500	2.500	1.980+1
1920	2.500	-1.732+1	2.500	2.500	1.982+1
1930	2.500	-1.733+1	2.500	2.500	1.983+1
1940	2.500	-1.734+1	2.500	2.500	1.984+1
1950	2.500	-1.735+1	2.500	2.500	1.985+1
1960	2.500	-1.737+1	2.500	2.500	1.987+1
1970	2.500	-1.738+1	2.500	2.500	1.988+1
1980	2.500	-1.739+1	2.500	2.500	1.989+1
1990	2.500	-1.741+1	2.500	2.500	1.991+1
2000	2.500	-1.742+1	2.500	2.500	1.992+1
2010	2.500	-1.743+1	2.500	2.500	1.993+1
2020	2.500	-1.744+1	2.500	2.500	1.994+1
2030	2.500	-1.746+1	2.500	2.500	1.996+1
2040	2.500	-1.747+1	2.500	2.500	1.997+1
2050	2.500	-1.748+1	2.500	2.500	1.998+1
2060	2.500	-1.749+1	2.500	2.500	1.999+1
2070	2.500	-1.750+1	2.500	2.500	2.000+1
2080	2.500	-1.752+1	2.500	2.500	2.002+1
2090	2.500	-1.753+1	2.500	2.500	2.003+1

SPECIE HE

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
2100	2.500	-1.754+1	2.500	2.500	2.004+1
2110	2.500	-1.755+1	2.500	2.500	2.005+1
2120	2.500	-1.756+1	2.500	2.500	2.006+1
2130	2.500	-1.758+1	2.500	2.500	2.008+1
2140	2.500	-1.759+1	2.500	2.500	2.009+1
2150	2.500	-1.760+1	2.500	2.500	2.010+1
2160	2.500	-1.761+1	2.500	2.500	2.011+1
2170	2.500	-1.762+1	2.500	2.500	2.012+1
2180	2.500	-1.763+1	2.500	2.500	2.013+1
2190	2.500	-1.764+1	2.500	2.500	2.014+1
2200	2.500	-1.766+1	2.500	2.500	2.016+1
2210	2.500	-1.767+1	2.500	2.500	2.017+1
2220	2.500	-1.768+1	2.500	2.500	2.018+1
2230	2.500	-1.769+1	2.500	2.500	2.019+1
2240	2.500	-1.770+1	2.500	2.500	2.020+1
2250	2.500	-1.771+1	2.500	2.500	2.021+1
2260	2.500	-1.772+1	2.500	2.500	2.022+1
2270	2.500	-1.773+1	2.500	2.500	2.023+1
2280	2.500	-1.775+1	2.500	2.500	2.025+1
2290	2.500	-1.776+1	2.500	2.500	2.026+1
2300	2.500	-1.777+1	2.500	2.500	2.027+1
2310	2.500	-1.778+1	2.500	2.500	2.028+1
2320	2.500	-1.779+1	2.500	2.500	2.029+1
2330	2.500	-1.780+1	2.500	2.500	2.030+1
2340	2.500	-1.781+1	2.500	2.500	2.031+1
2350	2.500	-1.782+1	2.500	2.500	2.032+1
2360	2.500	-1.783+1	2.500	2.500	2.033+1
2370	2.500	-1.784+1	2.500	2.500	2.034+1
2380	2.500	-1.785+1	2.500	2.500	2.035+1
2390	2.500	-1.786+1	2.500	2.500	2.036+1
2400	2.500	-1.787+1	2.500	2.500	2.037+1
2410	2.500	-1.788+1	2.500	2.500	2.038+1
2420	2.500	-1.789+1	2.500	2.500	2.039+1
2430	2.500	-1.790+1	2.500	2.500	2.040+1
2440	2.500	-1.791+1	2.500	2.500	2.041+1
2450	2.500	-1.792+1	2.500	2.500	2.042+1
2460	2.500	-1.793+1	2.500	2.500	2.043+1
2470	2.500	-1.795+1	2.500	2.500	2.045+1
2480	2.500	-1.796+1	2.500	2.500	2.046+1
2490	2.500	-1.797+1	2.500	2.500	2.047+1
2500	2.500	-1.798+1	2.500	2.500	2.048+1
2510	2.500	-1.799+1	2.500	2.500	2.049+1
2520	2.500	-1.800+1	2.500	2.500	2.050+1
2530	2.500	-1.801+1	2.500	2.500	2.051+1
2540	2.500	-1.802+1	2.500	2.500	2.052+1
2550	2.500	-1.802+1	2.500	2.500	2.052+1
2560	2.500	-1.803+1	2.500	2.500	2.053+1
2570	2.500	-1.804+1	2.500	2.500	2.054+1
2580	2.500	-1.805+1	2.500	2.500	2.055+1
2590	2.500	-1.806+1	2.500	2.500	2.056+1

SPECIE HE

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
2600	2.500	-1.807+1	2.500	2.500	2.057+1
2610	2.500	-1.808+1	2.500	2.500	2.058+1
2620	2.500	-1.809+1	2.500	2.500	2.059+1
2630	2.500	-1.810+1	2.500	2.500	2.060+1
2640	2.500	-1.811+1	2.500	2.500	2.061+1
2650	2.500	-1.812+1	2.500	2.500	2.062+1
2660	2.500	-1.813+1	2.500	2.500	2.063+1
2670	2.500	-1.814+1	2.500	2.500	2.064+1
2680	2.500	-1.815+1	2.500	2.500	2.065+1
2690	2.500	-1.816+1	2.500	2.500	2.066+1
2700	2.500	-1.817+1	2.500	2.500	2.067+1
2710	2.500	-1.818+1	2.500	2.500	2.068+1
2720	2.500	-1.819+1	2.500	2.500	2.069+1
2730	2.500	-1.820+1	2.500	2.500	2.070+1
2740	2.500	-1.820+1	2.500	2.500	2.070+1
2750	2.500	-1.821+1	2.500	2.500	2.071+1
2760	2.500	-1.822+1	2.500	2.500	2.072+1
2770	2.500	-1.823+1	2.500	2.500	2.073+1
2780	2.500	-1.824+1	2.500	2.500	2.074+1
2790	2.500	-1.825+1	2.500	2.500	2.075+1
2800	2.500	-1.826+1	2.500	2.500	2.076+1
2810	2.500	-1.827+1	2.500	2.500	2.077+1
2820	2.500	-1.828+1	2.500	2.500	2.078+1
2830	2.500	-1.829+1	2.500	2.500	2.079+1
2840	2.500	-1.829+1	2.500	2.500	2.079+1
2850	2.500	-1.830+1	2.500	2.500	2.080+1
2860	2.500	-1.831+1	2.500	2.500	2.081+1
2870	2.500	-1.832+1	2.500	2.500	2.082+1
2880	2.500	-1.833+1	2.500	2.500	2.083+1
2890	2.500	-1.834+1	2.500	2.500	2.084+1
2900	2.500	-1.835+1	2.500	2.500	2.085+1
2910	2.500	-1.836+1	2.500	2.500	2.086+1
2920	2.500	-1.836+1	2.500	2.500	2.086+1
2930	2.500	-1.837+1	2.500	2.500	2.087+1
2940	2.500	-1.838+1	2.500	2.500	2.088+1
2950	2.500	-1.839+1	2.500	2.500	2.089+1
2960	2.500	-1.840+1	2.500	2.500	2.090+1
2970	2.500	-1.841+1	2.500	2.500	2.091+1
2980	2.500	-1.841+1	2.500	2.500	2.091+1
2990	2.500	-1.842+1	2.500	2.500	2.092+1
3000	2.500	-1.843+1	2.500	2.500	2.093+1
3010	2.500	-1.844+1	2.500	2.500	2.094+1
3020	2.500	-1.845+1	2.500	2.500	2.095+1
3030	2.500	-1.846+1	2.500	2.500	2.096+1
3040	2.500	-1.846+1	2.500	2.500	2.096+1
3050	2.500	-1.847+1	2.500	2.500	2.097+1
3060	2.500	-1.848+1	2.500	2.500	2.098+1
3070	2.500	-1.849+1	2.500	2.500	2.099+1
3080	2.500	-1.850+1	2.500	2.500	2.100+1
3090	2.500	-1.851+1	2.500	2.500	2.101+1

SPECIE HE

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
3100	2.500	-1.851+1	2.500	2.500	2.101+1
3110	2.500	-1.852+1	2.500	2.500	2.102+1
3120	2.500	-1.853+1	2.500	2.500	2.103+1
3130	2.500	-1.854+1	2.500	2.500	2.104+1
3140	2.500	-1.855+1	2.500	2.500	2.105+1
3150	2.500	-1.855+1	2.500	2.500	2.105+1
3160	2.500	-1.856+1	2.500	2.500	2.106+1
3170	2.500	-1.857+1	2.500	2.500	2.107+1
3180	2.500	-1.858+1	2.500	2.500	2.108+1
3190	2.500	-1.858+1	2.500	2.500	2.108+1
3200	2.500	-1.859+1	2.500	2.500	2.109+1
3210	2.500	-1.860+1	2.500	2.500	2.110+1
3220	2.500	-1.861+1	2.500	2.500	2.111+1
3230	2.500	-1.862+1	2.500	2.500	2.112+1
3240	2.500	-1.862+1	2.500	2.500	2.112+1
3250	2.500	-1.863+1	2.500	2.500	2.113+1
3260	2.500	-1.864+1	2.500	2.500	2.114+1
3270	2.500	-1.865+1	2.500	2.500	2.115+1
3280	2.500	-1.865+1	2.500	2.500	2.115+1
3290	2.500	-1.866+1	2.500	2.500	2.116+1
3300	2.500	-1.867+1	2.500	2.500	2.117+1
3310	2.500	-1.868+1	2.500	2.500	2.118+1
3320	2.500	-1.868+1	2.500	2.500	2.118+1
3330	2.500	-1.869+1	2.500	2.500	2.119+1
3340	2.500	-1.870+1	2.500	2.500	2.120+1
3350	2.500	-1.871+1	2.500	2.500	2.121+1
3360	2.500	-1.871+1	2.500	2.500	2.121+1
3370	2.500	-1.872+1	2.500	2.500	2.122+1
3380	2.500	-1.873+1	2.500	2.500	2.123+1
3390	2.500	-1.874+1	2.500	2.500	2.124+1
3400	2.500	-1.874+1	2.500	2.500	2.124+1
3410	2.500	-1.875+1	2.500	2.500	2.125+1
3420	2.500	-1.876+1	2.500	2.500	2.126+1
3430	2.500	-1.877+1	2.500	2.500	2.127+1
3440	2.500	-1.877+1	2.500	2.500	2.127+1
3450	2.500	-1.878+1	2.500	2.500	2.128+1
3460	2.500	-1.879+1	2.500	2.500	2.129+1
3470	2.500	-1.880+1	2.500	2.500	2.130+1
3480	2.500	-1.880+1	2.500	2.500	2.130+1
3490	2.500	-1.881+1	2.500	2.500	2.131+1
3500	2.500	-1.882+1	2.500	2.500	2.132+1
3510	2.500	-1.882+1	2.500	2.500	2.132+1
3520	2.500	-1.883+1	2.500	2.500	2.133+1
3530	2.500	-1.884+1	2.500	2.500	2.134+1
3540	2.500	-1.885+1	2.500	2.500	2.135+1
3550	2.500	-1.885+1	2.500	2.500	2.135+1
3560	2.500	-1.886+1	2.500	2.500	2.136+1
3570	2.500	-1.887+1	2.500	2.500	2.137+1
3580	2.500	-1.887+1	2.500	2.500	2.137+1
3590	2.500	-1.888+1	2.500	2.500	2.138+1

SPECIE HE

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
3600	2.500	-1.889+1	2.500	2.500	2.139+1
3610	2.500	-1.889+1	2.500	2.500	2.139+1
3620	2.500	-1.890+1	2.500	2.500	2.140+1
3630	2.500	-1.891+1	2.500	2.500	2.141+1
3640	2.500	-1.891+1	2.500	2.500	2.141+1
3650	2.500	-1.892+1	2.500	2.500	2.142+1
3660	2.500	-1.893+1	2.500	2.500	2.143+1
3670	2.500	-1.894+1	2.500	2.500	2.144+1
3680	2.500	-1.894+1	2.500	2.500	2.144+1
3690	2.500	-1.895+1	2.500	2.500	2.145+1
3700	2.500	-1.896+1	2.500	2.500	2.146+1
3710	2.500	-1.896+1	2.500	2.500	2.146+1
3720	2.500	-1.897+1	2.500	2.500	2.147+1
3730	2.500	-1.898+1	2.500	2.500	2.148+1
3740	2.500	-1.898+1	2.500	2.500	2.148+1
3750	2.500	-1.899+1	2.500	2.500	2.149+1
3760	2.500	-1.900+1	2.500	2.500	2.150+1
3770	2.500	-1.900+1	2.500	2.500	2.150+1
3780	2.500	-1.901+1	2.500	2.500	2.151+1
3790	2.500	-1.902+1	2.500	2.500	2.152+1
3800	2.500	-1.902+1	2.500	2.500	2.152+1
3810	2.500	-1.903+1	2.500	2.500	2.153+1
3820	2.500	-1.904+1	2.500	2.500	2.154+1
3830	2.500	-1.904+1	2.500	2.500	2.154+1
3840	2.500	-1.905+1	2.500	2.500	2.155+1
3850	2.500	-1.905+1	2.500	2.500	2.155+1
3860	2.500	-1.906+1	2.500	2.500	2.156+1
3870	2.500	-1.907+1	2.500	2.500	2.157+1
3880	2.500	-1.907+1	2.500	2.500	2.157+1
3890	2.500	-1.908+1	2.500	2.500	2.158+1
3900	2.500	-1.909+1	2.500	2.500	2.159+1
3910	2.500	-1.909+1	2.500	2.500	2.159+1
3920	2.500	-1.910+1	2.500	2.500	2.160+1
3930	2.500	-1.911+1	2.500	2.500	2.161+1
3940	2.500	-1.911+1	2.500	2.500	2.161+1
3950	2.500	-1.912+1	2.500	2.500	2.162+1
3960	2.500	-1.913+1	2.500	2.500	2.163+1
3970	2.500	-1.913+1	2.500	2.500	2.163+1
3980	2.500	-1.914+1	2.500	2.500	2.164+1
3990	2.500	-1.914+1	2.500	2.500	2.164+1
4000	2.500	-1.915+1	2.500	2.500	2.165+1
4010	2.500	-1.916+1	2.500	2.500	2.166+1
4020	2.500	-1.916+1	2.500	2.500	2.166+1
4030	2.500	-1.917+1	2.500	2.500	2.167+1
4040	2.500	-1.918+1	2.500	2.500	2.168+1
4050	2.500	-1.918+1	2.500	2.500	2.168+1
4060	2.500	-1.919+1	2.500	2.500	2.169+1
4070	2.500	-1.919+1	2.500	2.500	2.169+1
4080	2.500	-1.920+1	2.500	2.500	2.170+1
4090	2.500	-1.921+1	2.500	2.500	2.171+1

SPECIE HE

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
4100	2.500	-1.921+1	2.500	2.500	2.171+1
4110	2.500	-1.922+1	2.500	2.500	2.172+1
4120	2.500	-1.922+1	2.500	2.500	2.172+1
4130	2.500	-1.923+1	2.500	2.500	2.173+1
4140	2.500	-1.924+1	2.500	2.500	2.174+1
4150	2.500	-1.924+1	2.500	2.500	2.174+1
4160	2.500	-1.925+1	2.500	2.500	2.175+1
4170	2.500	-1.925+1	2.500	2.500	2.175+1
4180	2.500	-1.926+1	2.500	2.500	2.176+1
4190	2.500	-1.927+1	2.500	2.500	2.177+1
4200	2.500	-1.927+1	2.500	2.500	2.177+1
4210	2.500	-1.928+1	2.500	2.500	2.178+1
4220	2.500	-1.928+1	2.500	2.500	2.178+1
4230	2.500	-1.929+1	2.500	2.500	2.179+1
4240	2.500	-1.930+1	2.500	2.500	2.180+1
4250	2.500	-1.930+1	2.500	2.500	2.180+1
4260	2.500	-1.931+1	2.500	2.500	2.181+1
4270	2.500	-1.931+1	2.500	2.500	2.181+1
4280	2.500	-1.932+1	2.500	2.500	2.182+1
4290	2.500	-1.933+1	2.500	2.500	2.183+1
4300	2.500	-1.933+1	2.500	2.500	2.183+1
4310	2.500	-1.934+1	2.500	2.500	2.184+1
4320	2.500	-1.934+1	2.500	2.500	2.184+1
4330	2.500	-1.935+1	2.500	2.500	2.185+1
4340	2.500	-1.935+1	2.500	2.500	2.185+1
4350	2.500	-1.936+1	2.500	2.500	2.186+1
4360	2.500	-1.937+1	2.500	2.500	2.187+1
4370	2.500	-1.937+1	2.500	2.500	2.187+1
4380	2.500	-1.938+1	2.500	2.500	2.188+1
4390	2.500	-1.938+1	2.500	2.500	2.188+1
4400	2.500	-1.939+1	2.500	2.500	2.189+1
4410	2.500	-1.939+1	2.500	2.500	2.189+1
4420	2.500	-1.940+1	2.500	2.500	2.190+1
4430	2.500	-1.941+1	2.500	2.500	2.191+1
4440	2.500	-1.941+1	2.500	2.500	2.191+1
4450	2.500	-1.942+1	2.500	2.500	2.192+1
4460	2.500	-1.942+1	2.500	2.500	2.192+1
4470	2.500	-1.943+1	2.500	2.500	2.193+1
4480	2.500	-1.943+1	2.500	2.500	2.193+1
4490	2.500	-1.944+1	2.500	2.500	2.194+1
4500	2.500	-1.944+1	2.500	2.500	2.194+1
4510	2.500	-1.945+1	2.500	2.500	2.195+1
4520	2.500	-1.946+1	2.500	2.500	2.196+1
4530	2.500	-1.946+1	2.500	2.500	2.196+1
4540	2.500	-1.947+1	2.500	2.500	2.197+1
4550	2.500	-1.947+1	2.500	2.500	2.197+1
4560	2.500	-1.948+1	2.500	2.500	2.198+1
4570	2.500	-1.948+1	2.500	2.500	2.198+1
4580	2.500	-1.949+1	2.500	2.500	2.199+1
4590	2.500	-1.949+1	2.500	2.500	2.199+1

SPECIE HE

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
4600	2.500	-1.950+1	2.500	2.500	2.200+1
4610	2.500	-1.951+1	2.500	2.500	2.201+1
4620	2.500	-1.951+1	2.500	2.500	2.201+1
4630	2.500	-1.952+1	2.500	2.500	2.202+1
4640	2.500	-1.952+1	2.500	2.500	2.202+1
4650	2.500	-1.953+1	2.500	2.500	2.203+1
4660	2.500	-1.953+1	2.500	2.500	2.203+1
4670	2.500	-1.954+1	2.500	2.500	2.204+1
4680	2.500	-1.954+1	2.500	2.500	2.204+1
4690	2.500	-1.955+1	2.500	2.500	2.205+1
4700	2.500	-1.955+1	2.500	2.500	2.205+1
4710	2.500	-1.956+1	2.500	2.500	2.206+1
4720	2.500	-1.956+1	2.500	2.500	2.206+1
4730	2.500	-1.957+1	2.500	2.500	2.207+1
4740	2.500	-1.957+1	2.500	2.500	2.207+1
4750	2.500	-1.958+1	2.500	2.500	2.208+1
4760	2.500	-1.959+1	2.500	2.500	2.209+1
4770	2.500	-1.959+1	2.500	2.500	2.209+1
4780	2.500	-1.960+1	2.500	2.500	2.210+1
4790	2.500	-1.960+1	2.500	2.500	2.210+1
4800	2.500	-1.961+1	2.500	2.500	2.211+1
4810	2.500	-1.961+1	2.500	2.500	2.211+1
4820	2.500	-1.962+1	2.500	2.500	2.212+1
4830	2.500	-1.962+1	2.500	2.500	2.212+1
4840	2.500	-1.963+1	2.500	2.500	2.213+1
4850	2.500	-1.963+1	2.500	2.500	2.213+1
4860	2.500	-1.964+1	2.500	2.500	2.214+1
4870	2.500	-1.964+1	2.500	2.500	2.214+1
4880	2.500	-1.965+1	2.500	2.500	2.215+1
4890	2.500	-1.965+1	2.500	2.500	2.215+1
4900	2.500	-1.966+1	2.500	2.500	2.216+1
4910	2.500	-1.966+1	2.500	2.500	2.216+1
4920	2.500	-1.967+1	2.500	2.500	2.217+1
4930	2.500	-1.967+1	2.500	2.500	2.217+1
4940	2.500	-1.968+1	2.500	2.500	2.218+1
4950	2.500	-1.968+1	2.500	2.500	2.218+1
4960	2.500	-1.969+1	2.500	2.500	2.219+1
4970	2.500	-1.969+1	2.500	2.500	2.219+1
4980	2.500	-1.970+1	2.500	2.500	2.220+1
4990	2.500	-1.970+1	2.500	2.500	2.220+1
5000	2.500	-1.971+1	2.500	2.500	2.221+1
5010	2.500	-1.971+1	2.500	2.500	2.221+1
5020	2.500	-1.972+1	2.500	2.500	2.222+1
5030	2.500	-1.972+1	2.500	2.500	2.222+1
5040	2.500	-1.973+1	2.500	2.500	2.223+1
5050	2.500	-1.973+1	2.500	2.500	2.223+1
5060	2.500	-1.974+1	2.500	2.500	2.224+1
5070	2.500	-1.974+1	2.500	2.500	2.224+1
5080	2.500	-1.975+1	2.500	2.500	2.225+1
5090	2.500	-1.975+1	2.500	2.500	2.225+1

SPECIE HE

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
5100	2.500	-1.976+1	2.500	2.500	2.226+1
5110	2.500	-1.976+1	2.500	2.500	2.226+1
5120	2.500	-1.977+1	2.500	2.500	2.227+1
5130	2.500	-1.977+1	2.500	2.500	2.227+1
5140	2.500	-1.978+1	2.500	2.500	2.228+1
5150	2.500	-1.978+1	2.500	2.500	2.228+1
5160	2.500	-1.979+1	2.500	2.500	2.229+1
5170	2.500	-1.979+1	2.500	2.500	2.229+1
5180	2.500	-1.980+1	2.500	2.500	2.230+1
5190	2.500	-1.980+1	2.500	2.500	2.230+1
5200	2.500	-1.981+1	2.500	2.500	2.231+1
5210	2.500	-1.981+1	2.500	2.500	2.231+1
5220	2.500	-1.982+1	2.500	2.500	2.232+1
5230	2.500	-1.982+1	2.500	2.500	2.232+1
5240	2.500	-1.983+1	2.500	2.500	2.233+1
5250	2.500	-1.983+1	2.500	2.500	2.233+1
5260	2.500	-1.984+1	2.500	2.500	2.234+1
5270	2.500	-1.984+1	2.500	2.500	2.234+1
5280	2.500	-1.984+1	2.500	2.500	2.234+1
5290	2.500	-1.985+1	2.500	2.500	2.235+1
5300	2.500	-1.985+1	2.500	2.500	2.235+1
5310	2.500	-1.986+1	2.500	2.500	2.236+1
5320	2.500	-1.986+1	2.500	2.500	2.236+1
5330	2.500	-1.987+1	2.500	2.500	2.237+1
5340	2.500	-1.987+1	2.500	2.500	2.237+1
5350	2.500	-1.988+1	2.500	2.500	2.238+1
5360	2.500	-1.988+1	2.500	2.500	2.238+1
5370	2.500	-1.989+1	2.500	2.500	2.239+1
5380	2.500	-1.989+1	2.500	2.500	2.239+1
5390	2.500	-1.990+1	2.500	2.500	2.240+1
5400	2.500	-1.990+1	2.500	2.500	2.240+1
5410	2.500	-1.991+1	2.500	2.500	2.241+1
5420	2.500	-1.991+1	2.500	2.500	2.241+1
5430	2.500	-1.991+1	2.500	2.500	2.241+1
5440	2.500	-1.992+1	2.500	2.500	2.242+1
5450	2.500	-1.992+1	2.500	2.500	2.242+1
5460	2.500	-1.993+1	2.500	2.500	2.243+1
5470	2.500	-1.993+1	2.500	2.500	2.243+1
5480	2.500	-1.994+1	2.500	2.500	2.244+1
5490	2.500	-1.994+1	2.500	2.500	2.244+1
5500	2.500	-1.995+1	2.500	2.500	2.245+1
5510	2.500	-1.995+1	2.500	2.500	2.245+1
5520	2.500	-1.996+1	2.500	2.500	2.246+1
5530	2.500	-1.996+1	2.500	2.500	2.246+1
5540	2.500	-1.996+1	2.500	2.500	2.246+1
5550	2.500	-1.997+1	2.500	2.500	2.247+1
5560	2.500	-1.997+1	2.500	2.500	2.247+1
5570	2.500	-1.998+1	2.500	2.500	2.248+1
5580	2.500	-1.998+1	2.500	2.500	2.248+1
5590	2.500	-1.999+1	2.500	2.500	2.249+1

TEMP	CP/R	SPECIE HE			
		(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
5600	2.500	-1.999+1	2.500	2.500	2.249+1
5610	2.500	-2.000+1	2.500	2.500	2.250+1
5620	2.500	-2.000+1	2.500	2.500	2.250+1
5630	2.500	-2.001+1	2.500	2.500	2.251+1
5640	2.500	-2.001+1	2.500	2.500	2.251+1
5650	2.500	-2.001+1	2.500	2.500	2.251+1
5660	2.500	-2.002+1	2.500	2.500	2.252+1
5670	2.500	-2.002+1	2.500	2.500	2.252+1
5680	2.500	-2.003+1	2.500	2.500	2.253+1
5690	2.500	-2.003+1	2.500	2.500	2.253+1
5700	2.500	-2.004+1	2.500	2.500	2.254+1
5710	2.500	-2.004+1	2.500	2.500	2.254+1
5720	2.500	-2.004+1	2.500	2.500	2.254+1
5730	2.500	-2.005+1	2.500	2.500	2.255+1
5740	2.500	-2.005+1	2.500	2.500	2.255+1
5750	2.500	-2.006+1	2.500	2.500	2.256+1
5760	2.500	-2.006+1	2.500	2.500	2.256+1
5770	2.500	-2.007+1	2.500	2.500	2.257+1
5780	2.500	-2.007+1	2.500	2.500	2.257+1
5790	2.500	-2.008+1	2.500	2.500	2.258+1
5800	2.500	-2.008+1	2.500	2.500	2.258+1
5810	2.500	-2.008+1	2.500	2.500	2.258+1
5820	2.500	-2.009+1	2.500	2.500	2.259+1
5830	2.500	-2.009+1	2.500	2.500	2.259+1
5840	2.500	-2.010+1	2.500	2.500	2.260+1
5850	2.500	-2.010+1	2.500	2.500	2.260+1
5860	2.500	-2.010+1	2.500	2.500	2.260+1
5870	2.500	-2.011+1	2.500	2.500	2.261+1
5880	2.500	-2.011+1	2.500	2.500	2.261+1
5890	2.500	-2.012+1	2.500	2.500	2.262+1
5900	2.500	-2.012+1	2.500	2.500	2.262+1
5910	2.500	-2.013+1	2.500	2.500	2.263+1
5920	2.500	-2.013+1	2.500	2.500	2.263+1
5930	2.500	-2.013+1	2.500	2.500	2.263+1
5940	2.500	-2.014+1	2.500	2.500	2.264+1
5950	2.500	-2.014+1	2.500	2.500	2.264+1
5960	2.500	-2.015+1	2.500	2.500	2.265+1
5970	2.500	-2.015+1	2.500	2.500	2.265+1
5980	2.500	-2.016+1	2.500	2.500	2.266+1
5990	2.500	-2.016+1	2.500	2.500	2.266+1
6000	2.500	-2.016+1	2.500	2.500	2.266+1

SPECIE O						
TEMP.	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	2.851	-1.369+1	2.644	2.294+2	1.634+1	-2.918+2
110	2.841	-1.393+1	2.660	2.768+2	1.659+1	-2.691+2
120	2.830	-1.416+1	2.674	2.563+2	1.683+1	-2.485+2
130	2.819	-1.437+1	2.686	2.378+2	1.706+1	-2.298+2
140	2.807	-1.457+1	2.696	2.210+2	1.727+1	-2.130+2
150	2.795	-1.476+1	2.704	2.060+2	1.747+1	-1.979+2
160	2.783	-1.494+1	2.711	1.924+2	1.765+1	-1.843+2
170	2.771	-1.511+1	2.716	1.803+2	1.783+1	-1.721+2
180	2.759	-1.527+1	2.720	1.695+2	1.799+1	-1.612+2
190	2.746	-1.542+1	2.723	1.598+2	1.814+1	-1.514+2
200	2.734	-1.556+1	2.724	1.511+2	1.829+1	-1.427+2
210	2.723	-1.570+1	2.725	1.434+2	1.842+1	-1.350+2
220	2.711	-1.583+1	2.725	1.365+2	1.855+1	-1.280+2
230	2.700	-1.595+1	2.725	1.304+2	1.867+1	-1.219+2
240	2.689	-1.606+1	2.723	1.249+2	1.879+1	-1.164+2
250	2.679	-1.617+1	2.722	1.201+2	1.890+1	-1.114+2
260	2.669	-1.628+1	2.720	1.156+2	1.900+1	-1.070+2
270	2.659	-1.638+1	2.717	1.117+2	1.910+1	-1.030+2
280	2.651	-1.648+1	2.715	1.080+2	1.919+1	-9.932+1
290	2.642	-1.657+1	2.712	1.047+2	1.929+1	-9.597+1
300	2.634	-1.666+1	2.709	1.016+2	1.937+1	-9.286+1
310	2.627	-1.675+1	2.707	9.838+1	1.946+1	-8.957+1
320	2.621	-1.684+1	2.704	9.533+1	1.954+1	-8.649+1
330	2.615	-1.692+1	2.702	9.248+1	1.962+1	-8.362+1
340	2.610	-1.700+1	2.699	8.982+1	1.970+1	-8.093+1
350	2.605	-1.708+1	2.696	8.733+1	1.978+1	-7.841+1
360	2.600	-1.716+1	2.694	8.499+1	1.985+1	-7.605+1
370	2.596	-1.723+1	2.691	8.279+1	1.992+1	-7.383+1
380	2.592	-1.730+1	2.689	8.071+1	1.999+1	-7.173+1
390	2.588	-1.737+1	2.686	7.875+1	2.006+1	-6.974+1
400	2.584	-1.744+1	2.683	7.688+1	2.012+1	-6.786+1
410	2.580	-1.751+1	2.681	7.511+1	2.019+1	-6.606+1
420	2.577	-1.757+1	2.679	7.342+1	2.025+1	-6.435+1
430	2.574	-1.764+1	2.676	7.180+1	2.031+1	-6.272+1
440	2.571	-1.770+1	2.674	7.025+1	2.037+1	-6.114+1
450	2.569	-1.776+1	2.672	6.876+1	2.043+1	-5.963+1
460	2.566	-1.781+1	2.669	6.732+1	2.048+1	-5.818+1
470	2.564	-1.787+1	2.667	6.593+1	2.054+1	-5.677+1
480	2.561	-1.793+1	2.665	6.458+1	2.059+1	-5.541+1
490	2.559	-1.798+1	2.663	6.328+1	2.065+1	-5.409+1
500	2.557	-1.804+1	2.660	6.202+1	2.070+1	-5.281+1
510	2.555	-1.809+1	2.658	6.086+1	2.075+1	-5.164+1
520	2.553	-1.814+1	2.656	5.975+1	2.080+1	-5.051+1
530	2.551	-1.819+1	2.654	5.868+1	2.085+1	-4.943+1
540	2.549	-1.824+1	2.653	5.764+1	2.089+1	-4.838+1
550	2.548	-1.829+1	2.651	5.664+1	2.094+1	-4.736+1
560	2.546	-1.834+1	2.649	5.568+1	2.099+1	-4.638+1
570	2.545	-1.838+1	2.647	5.474+1	2.103+1	-4.544+1
580	2.543	-1.843+1	2.645	5.384+1	2.108+1	-4.452+1
590	2.542	-1.848+1	2.643	5.296+1	2.112+1	-4.363+1

SPECIE O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	2.541	-1.852+1	2.642	5.211+1	2.116+1	-4.276+1
610	2.539	-1.856+1	2.640	5.130+1	2.120+1	-4.194+1
620	2.538	-1.861+1	2.638	5.051+1	2.125+1	-4.115+1
630	2.537	-1.865+1	2.637	4.976+1	2.129+1	-4.037+1
640	2.536	-1.869+1	2.635	4.902+1	2.133+1	-3.963+1
650	2.535	-1.873+1	2.634	4.830+1	2.137+1	-3.890+1
660	2.534	-1.877+1	2.632	4.761+1	2.140+1	-3.820+1
670	2.533	-1.881+1	2.631	4.694+1	2.144+1	-3.751+1
680	2.532	-1.885+1	2.629	4.628+1	2.148+1	-3.685+1
690	2.531	-1.889+1	2.628	4.565+1	2.152+1	-3.620+1
700	2.531	-1.893+1	2.627	4.503+1	2.155+1	-3.557+1
710	2.530	-1.896+1	2.625	4.443+1	2.159+1	-3.496+1
720	2.529	-1.900+1	2.624	4.385+1	2.162+1	-3.437+1
730	2.528	-1.904+1	2.622	4.328+1	2.166+1	-3.380+1
740	2.527	-1.907+1	2.621	4.273+1	2.169+1	-3.324+1
750	2.527	-1.911+1	2.620	4.220+1	2.173+1	-3.269+1
760	2.526	-1.914+1	2.619	4.168+1	2.176+1	-3.216+1
770	2.525	-1.918+1	2.618	4.117+1	2.179+1	-3.164+1
780	2.525	-1.921+1	2.616	4.067+1	2.183+1	-3.114+1
790	2.524	-1.924+1	2.615	4.019+1	2.186+1	-3.064+1
800	2.524	-1.928+1	2.614	3.971+1	2.189+1	-3.016+1
810	2.523	-1.931+1	2.613	3.925+1	2.192+1	-2.970+1
820	2.522	-1.934+1	2.612	3.881+1	2.195+1	-2.924+1
830	2.522	-1.937+1	2.611	3.837+1	2.198+1	-2.880+1
840	2.521	-1.940+1	2.610	3.794+1	2.201+1	-2.836+1
850	2.521	-1.943+1	2.609	3.753+1	2.204+1	-2.794+1
860	2.521	-1.946+1	2.608	3.712+1	2.207+1	-2.752+1
870	2.520	-1.949+1	2.607	3.672+1	2.210+1	-2.712+1
880	2.520	-1.953+1	2.606	3.633+1	2.213+1	-2.672+1
890	2.519	-1.955+1	2.605	3.595+1	2.216+1	-2.633+1
900	2.519	-1.958+1	2.604	3.558+1	2.219+1	-2.595+1
910	2.519	-1.961+1	2.603	3.522+1	2.221+1	-2.558+1
920	2.518	-1.964+1	2.602	3.486+1	2.224+1	-2.522+1
930	2.518	-1.967+1	2.601	3.452+1	2.227+1	-2.487+1
940	2.517	-1.970+1	2.600	3.418+1	2.230+1	-2.452+1
950	2.517	-1.972+1	2.599	3.384+1	2.232+1	-2.418+1
960	2.517	-1.975+1	2.598	3.352+1	2.235+1	-2.384+1
970	2.516	-1.978+1	2.598	3.320+1	2.238+1	-2.352+1
980	2.516	-1.981+1	2.597	3.288+1	2.240+1	-2.320+1
990	2.516	-1.983+1	2.596	3.258+1	2.243+1	-2.289+1
1000	2.516	-1.986+1	2.595	3.228+1	2.245+1	-2.258+1
1010	2.515	-1.988+1	2.594	3.198+1	2.248+1	-2.228+1
1020	2.515	-1.991+1	2.594	3.169+1	2.250+1	-2.198+1
1030	2.515	-1.993+1	2.593	3.141+1	2.253+1	-2.169+1
1040	2.514	-1.996+1	2.592	3.113+1	2.255+1	-2.141+1
1050	2.514	-1.998+1	2.591	3.086+1	2.258+1	-2.113+1
1060	2.514	-2.001+1	2.591	3.059+1	2.260+1	-2.086+1
1070	2.514	-2.003+1	2.590	3.033+1	2.262+1	-2.059+1
1080	2.513	-2.006+1	2.589	3.007+1	2.265+1	-2.033+1
1090	2.513	-2.008+1	2.588	2.982+1	2.267+1	-2.007+1

TEMP	CP/R	SPECIE O					LN K
		(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R		
1100	2.513	-2.010+1	2.588	2.957+1	2.269+1	-1.981+1	
1110	2.513	-2.013+1	2.587	2.933+1	2.271+1	-1.956+1	
1120	2.513	-2.015+1	2.586	2.909+1	2.274+1	-1.932+1	
1130	2.512	-2.017+1	2.586	2.885+1	2.276+1	-1.908+1	
1140	2.512	-2.020+1	2.585	2.862+1	2.278+1	-1.884+1	
1150	2.512	-2.022+1	2.584	2.839+1	2.280+1	-1.861+1	
1160	2.512	-2.024+1	2.584	2.817+1	2.283+1	-1.838+1	
1170	2.512	-2.026+1	2.583	2.795+1	2.285+1	-1.816+1	
1180	2.511	-2.029+1	2.583	2.774+1	2.287+1	-1.794+1	
1190	2.511	-2.031+1	2.582	2.752+1	2.289+1	-1.772+1	
1200	2.511	-2.033+1	2.581	2.731+1	2.291+1	-1.751+1	
1210	2.511	-2.035+1	2.581	2.711+1	2.293+1	-1.730+1	
1220	2.511	-2.037+1	2.580	2.691+1	2.295+1	-1.709+1	
1230	2.511	-2.039+1	2.580	2.671+1	2.297+1	-1.689+1	
1240	2.510	-2.041+1	2.579	2.651+1	2.299+1	-1.669+1	
1250	2.510	-2.043+1	2.579	2.632+1	2.301+1	-1.649+1	
1260	2.510	-2.046+1	2.578	2.613+1	2.303+1	-1.630+1	
1270	2.510	-2.048+1	2.577	2.595+1	2.305+1	-1.611+1	
1280	2.510	-2.050+1	2.577	2.576+1	2.307+1	-1.592+1	
1290	2.510	-2.052+1	2.576	2.558+1	2.309+1	-1.573+1	
1300	2.509	-2.054+1	2.576	2.541+1	2.311+1	-1.555+1	
1310	2.509	-2.056+1	2.575	2.523+1	2.313+1	-1.537+1	
1320	2.509	-2.057+1	2.575	2.506+1	2.315+1	-1.520+1	
1330	2.509	-2.059+1	2.574	2.489+1	2.317+1	-1.502+1	
1340	2.509	-2.061+1	2.574	2.472+1	2.319+1	-1.485+1	
1350	2.509	-2.063+1	2.573	2.456+1	2.321+1	-1.468+1	
1360	2.509	-2.065+1	2.573	2.440+1	2.322+1	-1.452+1	
1370	2.508	-2.067+1	2.573	2.424+1	2.324+1	-1.435+1	
1380	2.508	-2.069+1	2.572	2.408+1	2.326+1	-1.419+1	
1390	2.508	-2.071+1	2.572	2.392+1	2.328+1	-1.403+1	
1400	2.508	-2.073+1	2.571	2.377+1	2.330+1	-1.388+1	
1410	2.508	-2.074+1	2.571	2.362+1	2.332+1	-1.372+1	
1420	2.508	-2.076+1	2.570	2.347+1	2.333+1	-1.357+1	
1430	2.508	-2.078+1	2.570	2.332+1	2.335+1	-1.342+1	
1440	2.508	-2.080+1	2.569	2.318+1	2.337+1	-1.327+1	
1450	2.507	-2.082+1	2.569	2.304+1	2.339+1	-1.312+1	
1460	2.507	-2.083+1	2.569	2.290+1	2.340+1	-1.298+1	
1470	2.507	-2.085+1	2.568	2.276+1	2.342+1	-1.284+1	
1480	2.507	-2.087+1	2.568	2.262+1	2.344+1	-1.270+1	
1490	2.507	-2.089+1	2.567	2.249+1	2.345+1	-1.256+1	
1500	2.507	-2.090+1	2.567	2.235+1	2.347+1	-1.242+1	
1510	2.507	-2.092+1	2.567	2.222+1	2.349+1	-1.229+1	
1520	2.507	-2.094+1	2.566	2.209+1	2.350+1	-1.215+1	
1530	2.507	-2.095+1	2.566	2.196+1	2.352+1	-1.202+1	
1540	2.507	-2.097+1	2.565	2.184+1	2.354+1	-1.189+1	
1550	2.507	-2.099+1	2.565	2.171+1	2.355+1	-1.176+1	
1560	2.507	-2.100+1	2.565	2.159+1	2.357+1	-1.164+1	
1570	2.507	-2.102+1	2.564	2.147+1	2.358+1	-1.151+1	
1580	2.507	-2.104+1	2.564	2.135+1	2.360+1	-1.139+1	
1590	2.507	-2.105+1	2.563	2.123+1	2.362+1	-1.127+1	

SPECIE O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	2.506	-2.107+1	2.563	2.111+1	2.363+1	-1.115+1
1610	2.506	-2.108+1	2.563	2.100+1	2.365+1	-1.103+1
1620	2.506	-2.110+1	2.562	2.088+1	2.366+1	-1.091+1
1630	2.506	-2.112+1	2.562	2.077+1	2.368+1	-1.080+1
1640	2.506	-2.113+1	2.562	2.066+1	2.369+1	-1.068+1
1650	2.506	-2.115+1	2.561	2.055+1	2.371+1	-1.057+1
1660	2.506	-2.116+1	2.561	2.044+1	2.372+1	-1.046+1
1670	2.506	-2.118+1	2.561	2.033+1	2.374+1	-1.035+1
1680	2.506	-2.119+1	2.560	2.023+1	2.375+1	-1.024+1
1690	2.506	-2.121+1	2.560	2.012+1	2.377+1	-1.013+1
1700	2.505	-2.122+1	2.560	2.002+1	2.378+1	-1.002+1
1710	2.505	-2.124+1	2.559	1.992+1	2.380+1	-9.917
1720	2.505	-2.125+1	2.559	1.981+1	2.381+1	-9.813
1730	2.505	-2.127+1	2.559	1.971+1	2.383+1	-9.710
1740	2.505	-2.128+1	2.559	1.962+1	2.384+1	-9.608
1750	2.505	-2.130+1	2.558	1.952+1	2.386+1	-9.507
1760	2.505	-2.131+1	2.558	1.942+1	2.387+1	-9.408
1770	2.505	-2.133+1	2.558	1.933+1	2.389+1	-9.309
1780	2.505	-2.134+1	2.557	1.923+1	2.390+1	-9.212
1790	2.505	-2.136+1	2.557	1.914+1	2.391+1	-9.116
1800	2.505	-2.137+1	2.557	1.905+1	2.393+1	-9.021
1810	2.505	-2.138+1	2.556	1.895+1	2.394+1	-8.927
1820	2.505	-2.140+1	2.556	1.886+1	2.396+1	-8.834
1830	2.505	-2.141+1	2.556	1.877+1	2.397+1	-8.742
1840	2.505	-2.143+1	2.556	1.869+1	2.398+1	-8.651
1850	2.505	-2.144+1	2.555	1.860+1	2.400+1	-8.561
1860	2.505	-2.145+1	2.555	1.851+1	2.401+1	-8.471
1870	2.505	-2.147+1	2.555	1.843+1	2.402+1	-8.383
1880	2.505	-2.148+1	2.555	1.834+1	2.404+1	-8.296
1890	2.505	-2.150+1	2.554	1.826+1	2.405+1	-8.210
1900	2.505	-2.151+1	2.554	1.818+1	2.406+1	-8.125
1910	2.505	-2.152+1	2.554	1.809+1	2.408+1	-8.040
1920	2.505	-2.154+1	2.554	1.801+1	2.409+1	-7.956
1930	2.505	-2.155+1	2.553	1.793+1	2.410+1	-7.873
1940	2.505	-2.156+1	2.553	1.785+1	2.411+1	-7.791
1950	2.505	-2.158+1	2.553	1.777+1	2.413+1	-7.710
1960	2.505	-2.159+1	2.553	1.770+1	2.414+1	-7.630
1970	2.505	-2.160+1	2.552	1.762+1	2.415+1	-7.550
1980	2.505	-2.161+1	2.552	1.754+1	2.417+1	-7.472
1990	2.505	-2.163+1	2.552	1.747+1	2.418+1	-7.394
2000	2.505	-2.164+1	2.552	1.739+1	2.419+1	-7.317
2010	2.505	-2.165+1	2.551	1.732+1	2.420+1	-7.240
2020	2.505	-2.167+1	2.551	1.724+1	2.422+1	-7.165
2030	2.505	-2.168+1	2.551	1.717+1	2.423+1	-7.090
2040	2.505	-2.169+1	2.551	1.710+1	2.424+1	-7.016
2050	2.505	-2.170+1	2.550	1.703+1	2.425+1	-6.942
2060	2.505	-2.172+1	2.550	1.696+1	2.427+1	-6.869
2070	2.505	-2.173+1	2.550	1.689+1	2.428+1	-6.797
2080	2.505	-2.174+1	2.550	1.682+1	2.429+1	-6.726
2090	2.505	-2.175+1	2.550	1.675+1	2.430+1	-6.656

SPECIE O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	2.505	-2.176+1	2.549	1.668+1	2.431+1	-6.586
2110	2.505	-2.178+1	2.549	1.662+1	2.433+1	-6.516
2120	2.505	-2.179+1	2.549	1.655+1	2.434+1	-6.447
2130	2.505	-2.180+1	2.549	1.648+1	2.435+1	-6.379
2140	2.505	-2.181+1	2.549	1.642+1	2.436+1	-6.312
2150	2.505	-2.182+1	2.548	1.635+1	2.437+1	-6.245
2160	2.505	-2.184+1	2.548	1.629+1	2.438+1	-6.179
2170	2.505	-2.185+1	2.548	1.623+1	2.440+1	-6.113
2180	2.505	-2.186+1	2.548	1.616+1	2.441+1	-6.048
2190	2.505	-2.187+1	2.548	1.610+1	2.442+1	-5.984
2200	2.505	-2.188+1	2.547	1.604+1	2.443+1	-5.920
2210	2.505	-2.189+1	2.547	1.598+1	2.444+1	-5.857
2220	2.506	-2.191+1	2.547	1.592+1	2.445+1	-5.794
2230	2.506	-2.192+1	2.547	1.586+1	2.446+1	-5.732
2240	2.506	-2.193+1	2.547	1.580+1	2.448+1	-5.670
2250	2.506	-2.194+1	2.546	1.574+1	2.449+1	-5.609
2260	2.506	-2.195+1	2.546	1.568+1	2.450+1	-5.549
2270	2.506	-2.196+1	2.546	1.562+1	2.451+1	-5.489
2280	2.506	-2.197+1	2.546	1.556+1	2.452+1	-5.429
2290	2.506	-2.198+1	2.546	1.551+1	2.453+1	-5.370
2300	2.506	-2.200+1	2.546	1.545+1	2.454+1	-5.312
2310	2.506	-2.201+1	2.545	1.539+1	2.455+1	-5.254
2320	2.506	-2.202+1	2.545	1.534+1	2.456+1	-5.197
2330	2.506	-2.203+1	2.545	1.528+1	2.457+1	-5.140
2340	2.506	-2.204+1	2.545	1.523+1	2.458+1	-5.083
2350	2.506	-2.205+1	2.545	1.517+1	2.460+1	-5.027
2360	2.506	-2.206+1	2.545	1.512+1	2.461+1	-4.972
2370	2.506	-2.207+1	2.544	1.507+1	2.462+1	-4.917
2380	2.506	-2.208+1	2.544	1.501+1	2.463+1	-4.862
2390	2.506	-2.209+1	2.544	1.496+1	2.464+1	-4.808
2400	2.506	-2.210+1	2.544	1.491+1	2.465+1	-4.755
2410	2.507	-2.211+1	2.544	1.486+1	2.466+1	-4.702
2420	2.507	-2.213+1	2.544	1.481+1	2.467+1	-4.649
2430	2.507	-2.214+1	2.543	1.476+1	2.468+1	-4.596
2440	2.507	-2.215+1	2.543	1.471+1	2.469+1	-4.545
2450	2.507	-2.216+1	2.543	1.466+1	2.470+1	-4.493
2460	2.507	-2.217+1	2.543	1.461+1	2.471+1	-4.442
2470	2.507	-2.218+1	2.543	1.456+1	2.472+1	-4.391
2480	2.508	-2.219+1	2.543	1.451+1	2.473+1	-4.341
2490	2.508	-2.220+1	2.543	1.446+1	2.474+1	-4.291
2500	2.508	-2.221+1	2.542	1.441+1	2.475+1	-4.242
2510	2.508	-2.222+1	2.542	1.437+1	2.476+1	-4.193
2520	2.508	-2.223+1	2.542	1.432+1	2.477+1	-4.144
2530	2.508	-2.224+1	2.542	1.427+1	2.478+1	-4.096
2540	2.508	-2.225+1	2.542	1.423+1	2.479+1	-4.048
2550	2.509	-2.226+1	2.542	1.418+1	2.480+1	-4.000
2560	2.509	-2.227+1	2.542	1.414+1	2.481+1	-3.953
2570	2.509	-2.228+1	2.541	1.409+1	2.482+1	-3.906
2580	2.509	-2.229+1	2.541	1.405+1	2.483+1	-3.860
2590	2.509	-2.230+1	2.541	1.400+1	2.484+1	-3.814

SPECIE O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	2.509	-2.231+1	2.541	1.396+1	2.485+1	-3.768
2610	2.509	-2.232+1	2.541	1.391+1	2.486+1	-3.722
2620	2.509	-2.233+1	2.541	1.387+1	2.487+1	-3.677
2630	2.509	-2.234+1	2.541	1.383+1	2.488+1	-3.632
2640	2.510	-2.235+1	2.541	1.378+1	2.489+1	-3.588
2650	2.510	-2.236+1	2.540	1.374+1	2.490+1	-3.544
2660	2.510	-2.237+1	2.540	1.370+1	2.491+1	-3.500
2670	2.510	-2.237+1	2.540	1.366+1	2.492+1	-3.457
2680	2.510	-2.238+1	2.540	1.361+1	2.492+1	-3.414
2690	2.511	-2.239+1	2.540	1.357+1	2.493+1	-3.371
2700	2.511	-2.240+1	2.540	1.353+1	2.494+1	-3.328
2710	2.511	-2.241+1	2.540	1.349+1	2.495+1	-3.286
2720	2.511	-2.242+1	2.540	1.345+1	2.496+1	-3.244
2730	2.512	-2.243+1	2.540	1.341+1	2.497+1	-3.203
2740	2.512	-2.244+1	2.540	1.337+1	2.498+1	-3.162
2750	2.512	-2.245+1	2.539	1.333+1	2.499+1	-3.121
2760	2.512	-2.246+1	2.539	1.329+1	2.500+1	-3.080
2770	2.512	-2.247+1	2.539	1.325+1	2.501+1	-3.040
2780	2.513	-2.248+1	2.539	1.322+1	2.502+1	-3.000
2790	2.513	-2.249+1	2.539	1.318+1	2.503+1	-2.960
2800	2.513	-2.250+1	2.539	1.314+1	2.504+1	-2.920
2810	2.513	-2.251+1	2.539	1.310+1	2.504+1	-2.881
2820	2.513	-2.251+1	2.539	1.306+1	2.505+1	-2.842
2830	2.514	-2.252+1	2.539	1.303+1	2.506+1	-2.804
2840	2.514	-2.253+1	2.539	1.299+1	2.507+1	-2.765
2850	2.514	-2.254+1	2.539	1.295+1	2.508+1	-2.727
2860	2.514	-2.255+1	2.538	1.292+1	2.509+1	-2.689
2870	2.515	-2.256+1	2.538	1.288+1	2.510+1	-2.652
2880	2.515	-2.257+1	2.538	1.284+1	2.511+1	-2.614
2890	2.515	-2.258+1	2.538	1.281+1	2.511+1	-2.577
2900	2.516	-2.259+1	2.538	1.277+1	2.512+1	-2.540
2910	2.516	-2.259+1	2.538	1.274+1	2.513+1	-2.504
2920	2.516	-2.260+1	2.538	1.270+1	2.514+1	-2.467
2930	2.516	-2.261+1	2.538	1.267+1	2.515+1	-2.431
2940	2.517	-2.262+1	2.538	1.263+1	2.516+1	-2.396
2950	2.517	-2.263+1	2.538	1.260+1	2.517+1	-2.360
2960	2.517	-2.264+1	2.538	1.256+1	2.517+1	-2.325
2970	2.517	-2.265+1	2.538	1.253+1	2.518+1	-2.290
2980	2.518	-2.265+1	2.538	1.250+1	2.519+1	-2.255
2990	2.518	-2.266+1	2.537	1.246+1	2.520+1	-2.220
3000	2.518	-2.267+1	2.537	1.243+1	2.521+1	-2.186
3010	2.518	-2.268+1	2.537	1.240+1	2.522+1	-2.151
3020	2.519	-2.269+1	2.537	1.236+1	2.523+1	-2.118
3030	2.519	-2.270+1	2.537	1.233+1	2.523+1	-2.084
3040	2.519	-2.270+1	2.537	1.230+1	2.524+1	-2.050
3050	2.519	-2.271+1	2.537	1.227+1	2.525+1	-2.017
3060	2.520	-2.272+1	2.537	1.224+1	2.526+1	-1.984
3070	2.520	-2.273+1	2.537	1.220+1	2.527+1	-1.951
3080	2.520	-2.274+1	2.537	1.217+1	2.527+1	-1.919
3090	2.521	-2.275+1	2.537	1.214+1	2.528+1	-1.886

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	2.521	-2.275+1	2.537			
3110	2.521	-2.276+1	2.537	1.211+1	2.529+1	-1.854
3120	2.522	-2.277+1	2.537	1.208+1	2.530+1	-1.822
3130	2.522	-2.278+1	2.537	1.205+1	2.531+1	-1.790
3140	2.522	-2.279+1	2.537	1.202+1	2.532+1	-1.758
				1.199+1	2.532+1	-1.727
3150	2.523	-2.279+1	2.537	1.196+1	2.533+1	-1.696
3160	2.523	-2.280+1	2.537	1.193+1	2.534+1	-1.665
3170	2.523	-2.281+1	2.536	1.190+1	2.535+1	-1.634
3180	2.524	-2.282+1	2.536	1.187+1	2.536+1	-1.603
3190	2.524	-2.283+1	2.536	1.184+1	2.536+1	-1.573
3200	2.525	-2.283+1	2.536	1.181+1	2.537+1	-1.542
3210	2.525	-2.284+1	2.536	1.178+1	2.538+1	-1.512
3220	2.525	-2.285+1	2.536	1.175+1	2.539+1	-1.483
3230	2.526	-2.286+1	2.536	1.172+1	2.539+1	-1.453
3240	2.526	-2.287+1	2.536	1.170+1	2.540+1	-1.423
3250	2.527	-2.287+1	2.536	1.167+1	2.541+1	-1.394
3260	2.527	-2.288+1	2.536	1.164+1	2.542+1	-1.365
3270	2.527	-2.289+1	2.536	1.161+1	2.543+1	-1.336
3280	2.528	-2.290+1	2.536	1.158+1	2.543+1	-1.307
3290	2.528	-2.290+1	2.536	1.156+1	2.544+1	-1.279
3300	2.529	-2.291+1	2.536	1.153+1	2.545+1	-1.250
3310	2.529	-2.292+1	2.536	1.150+1	2.546+1	-1.222
3320	2.529	-2.293+1	2.536	1.148+1	2.546+1	-1.194
3330	2.530	-2.294+1	2.536	1.145+1	2.547+1	-1.166
3340	2.530	-2.294+1	2.536	1.142+1	2.548+1	-1.138
3350	2.531	-2.295+1	2.536	1.140+1	2.549+1	-1.110
3360	2.531	-2.296+1	2.536	1.137+1	2.549+1	-1.083
3370	2.531	-2.297+1	2.536	1.134+1	2.550+1	-1.055
3380	2.532	-2.297+1	2.536	1.132+1	2.551+1	-1.028
3390	2.532	-2.298+1	2.536	1.129+1	2.552+1	-1.001
3400	2.533	-2.299+1	2.536	1.127+1	2.552+1	-9.742-1
3410	2.533	-2.300+1	2.536	1.124+1	2.553+1	-9.476-1
3420	2.533	-2.300+1	2.536	1.121+1	2.554+1	-9.211-1
3430	2.534	-2.301+1	2.536	1.119+1	2.555+1	-8.947-1
3440	2.534	-2.302+1	2.536	1.116+1	2.555+1	-8.685-1
3450	2.535	-2.303+1	2.536	1.114+1	2.556+1	-8.425-1
3460	2.535	-2.303+1	2.536	1.111+1	2.557+1	-8.166-1
3470	2.535	-2.304+1	2.536	1.109+1	2.558+1	-7.908-1
3480	2.536	-2.305+1	2.536	1.106+1	2.558+1	-7.653-1
3490	2.536	-2.305+1	2.536	1.104+1	2.559+1	-7.398-1
3500	2.537	-2.306+1	2.536	1.102+1	2.560+1	-7.145-1
3510	2.537	-2.307+1	2.536	1.099+1	2.561+1	-6.894-1
3520	2.538	-2.308+1	2.536	1.097+1	2.561+1	-6.643-1
3530	2.538	-2.308+1	2.536	1.094+1	2.562+1	-6.395-1
3540	2.538	-2.309+1	2.536	1.092+1	2.563+1	-6.147-1
3550	2.539	-2.310+1	2.536	1.090+1	2.563+1	-5.901-1
3560	2.539	-2.311+1	2.536	1.087+1	2.564+1	-5.657-1
3570	2.540	-2.311+1	2.536	1.085+1	2.565+1	-5.413-1
3580	2.540	-2.312+1	2.536	1.083+1	2.566+1	-5.171-1
3590	2.541	-2.313+1	2.536	1.080+1	2.566+1	-4.931-1

SPECIE O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	2.541	-2.313+1	2.536	1.078+1	2.567+1	-4.692-1
3610	2.542	-2.314+1	2.536	1.076+1	2.568+1	-4.453-1
3620	2.542	-2.315+1	2.536	1.073+1	2.568+1	-4.216-1
3630	2.543	-2.315+1	2.536	1.071+1	2.569+1	-3.981-1
3640	2.543	-2.316+1	2.536	1.069+1	2.570+1	-3.747-1
3650	2.544	-2.317+1	2.536	1.067+1	2.570+1	-3.514-1
3660	2.544	-2.318+1	2.536	1.065+1	2.571+1	-3.282-1
3670	2.545	-2.318+1	2.536	1.062+1	2.572+1	-3.051-1
3680	2.545	-2.319+1	2.536	1.060+1	2.573+1	-2.822-1
3690	2.546	-2.320+1	2.536	1.058+1	2.573+1	-2.594-1
3700	2.546	-2.320+1	2.536	1.056+1	2.574+1	-2.368-1
3710	2.547	-2.321+1	2.536	1.054+1	2.575+1	-2.143-1
3720	2.547	-2.322+1	2.536	1.051+1	2.575+1	-1.919-1
3730	2.548	-2.322+1	2.536	1.049+1	2.576+1	-1.696-1
3740	2.548	-2.323+1	2.536	1.047+1	2.577+1	-1.475-1
3750	2.549	-2.324+1	2.536	1.045+1	2.577+1	-1.254-1
3760	2.549	-2.324+1	2.536	1.043+1	2.578+1	-1.035-1
3770	2.550	-2.325+1	2.536	1.041+1	2.579+1	-8.177-2
3780	2.550	-2.326+1	2.536	1.039+1	2.579+1	-6.011-2
3790	2.551	-2.326+1	2.536	1.037+1	2.580+1	-3.857-2
3800	2.551	-2.327+1	2.536	1.035+1	2.581+1	-1.714-2
3810	2.552	-2.328+1	2.537	1.033+1	2.581+1	4.224-3
3820	2.552	-2.328+1	2.537	1.031+1	2.582+1	2.548-2
3830	2.553	-2.329+1	2.537	1.029+1	2.583+1	4.662-2
3840	2.553	-2.330+1	2.537	1.027+1	2.583+1	6.763-2
3850	2.554	-2.330+1	2.537	1.025+1	2.584+1	8.856-2
3860	2.555	-2.331+1	2.537	1.023+1	2.585+1	1.094-1
3870	2.555	-2.332+1	2.537	1.021+1	2.585+1	1.301-1
3880	2.556	-2.332+1	2.537	1.019+1	2.586+1	1.508-1
3890	2.556	-2.333+1	2.537	1.017+1	2.587+1	1.713-1
3900	2.557	-2.334+1	2.537	1.015+1	2.587+1	1.917-1
3910	2.557	-2.334+1	2.537	1.013+1	2.588+1	2.120-1
3920	2.558	-2.335+1	2.537	1.011+1	2.589+1	2.322-1
3930	2.558	-2.336+1	2.537	1.009+1	2.589+1	2.523-1
3940	2.559	-2.336+1	2.537	1.007+1	2.590+1	2.723-1
3950	2.559	-2.337+1	2.537	1.005+1	2.591+1	2.922-1
3960	2.560	-2.337+1	2.537	1.003+1	2.591+1	3.120-1
3970	2.560	-2.338+1	2.537	1.001+1	2.592+1	3.317-1
3980	2.561	-2.339+1	2.537	9.995	2.593+1	3.513-1
3990	2.561	-2.339+1	2.537	9.976	2.593+1	3.708-1
4000	2.562	-2.340+1	2.538	9.958	2.594+1	3.902-1
4010	2.562	-2.341+1	2.538	9.939	2.594+1	4.095-1
4020	2.563	-2.341+1	2.538	9.921	2.595+1	4.287-1
4030	2.564	-2.342+1	2.538	9.902	2.596+1	4.478-1
4040	2.564	-2.343+1	2.538	9.884	2.596+1	4.668-1
4050	2.565	-2.343+1	2.538	9.866	2.597+1	4.856-1
4060	2.565	-2.344+1	2.538	9.848	2.598+1	5.044-1
4070	2.566	-2.344+1	2.538	9.830	2.598+1	5.232-1
4080	2.567	-2.345+1	2.538	9.813	2.599+1	5.418-1
4090	2.567	-2.346+1	2.538	9.795	2.600+1	5.603-1

SPECIE O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	2.568	-2.346+1	2.538	9.777	2.600+1	5.788-1
4110	2.568	-2.347+1	2.538	9.760	2.601+1	5.971-1
4120	2.569	-2.348+1	2.538	9.742	2.601+1	6.155-1
4130	2.570	-2.348+1	2.538	9.725	2.602+1	6.33-1
4140	2.570	-2.349+1	2.538	9.708	2.603+1	6.518-1
4150	2.571	-2.349+1	2.539	9.690	2.603+1	6.699-1
4160	2.571	-2.350+1	2.539	9.673	2.604+1	6.879-1
4170	2.572	-2.351+1	2.539	9.656	2.604+1	7.057-1
4180	2.572	-2.351+1	2.539	9.639	2.605+1	7.236-1
4190	2.573	-2.352+1	2.539	9.622	2.606+1	7.413-1
4200	2.573	-2.352+1	2.539	9.606	2.606+1	7.589-1
4210	2.574	-2.353+1	2.539	9.589	2.607+1	7.764-1
4220	2.575	-2.354+1	2.539	9.572	2.608+1	7.939-1
4230	2.575	-2.354+1	2.539	9.556	2.608+1	8.113-1
4240	2.576	-2.355+1	2.539	9.539	2.609+1	8.285-1
4250	2.576	-2.355+1	2.539	9.523	2.609+1	8.458-1
4260	2.577	-2.356+1	2.539	9.507	2.610+1	8.629-1
4270	2.578	-2.357+1	2.540	9.490	2.611+1	8.799-1
4280	2.578	-2.357+1	2.540	9.474	2.611+1	8.969-1
4290	2.579	-2.358+1	2.540	9.458	2.612+1	9.137-1
4300	2.579	-2.358+1	2.540	9.442	2.612+1	9.305-1
4310	2.580	-2.359+1	2.540	9.426	2.613+1	9.473-1
4320	2.581	-2.360+1	2.540	9.410	2.614+1	9.639-1
4330	2.581	-2.360+1	2.540	9.395	2.614+1	9.804-1
4340	2.582	-2.361+1	2.540	9.379	2.615+1	9.969-1
4350	2.582	-2.361+1	2.540	9.363	2.615+1	1.013
4360	2.583	-2.362+1	2.540	9.348	2.616+1	1.030
4370	2.584	-2.363+1	2.540	9.332	2.617+1	1.046
4380	2.584	-2.363+1	2.541	9.317	2.617+1	1.062
4390	2.585	-2.364+1	2.541	9.302	2.618+1	1.078
4400	2.585	-2.364+1	2.541	9.286	2.618+1	1.094
4410	2.586	-2.365+1	2.541	9.271	2.619+1	1.110
4420	2.587	-2.365+1	2.541	9.256	2.620+1	1.126
4430	2.587	-2.366+1	2.541	9.241	2.620+1	1.142
4440	2.588	-2.367+1	2.541	9.226	2.621+1	1.158
4450	2.588	-2.367+1	2.541	9.211	2.621+1	1.173
4460	2.589	-2.368+1	2.541	9.196	2.622+1	1.189
4470	2.590	-2.368+1	2.542	9.181	2.622+1	1.204
4480	2.590	-2.369+1	2.542	9.167	2.623+1	1.220
4490	2.591	-2.369+1	2.542	9.152	2.624+1	1.235
4500	2.591	-2.370+1	2.542	9.137	2.624+1	1.250
4510	2.592	-2.371+1	2.542	9.123	2.625+1	1.266
4520	2.593	-2.371+1	2.542	9.108	2.625+1	1.281
4530	2.593	-2.372+1	2.542	9.094	2.626+1	1.296
4540	2.594	-2.372+1	2.542	9.080	2.626+1	1.311
4550	2.595	-2.373+1	2.542	9.065	2.627+1	1.326
4560	2.595	-2.373+1	2.543	9.051	2.628+1	1.341
4570	2.596	-2.374+1	2.543	9.037	2.628+1	1.356
4580	2.596	-2.374+1	2.543	9.023	2.629+1	1.371
4590	2.597	-2.375+1	2.543	9.009	2.629+1	1.385

SPECIE O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	2.598	-2.376+1	2.543	8.995	2.630+1	1.400
4610	2.598	-2.376+1	2.543	8.981	2.630+1	1.415
4620	2.599	-2.377+1	2.543	8.967	2.631+1	1.429
4630	2.599	-2.377+1	2.543	8.954	2.632+1	1.444
4640	2.600	-2.378+1	2.543	8.940	2.632+1	1.458
4650	2.601	-2.378+1	2.544	8.926	2.633+1	1.473
4660	2.601	-2.379+1	2.544	8.913	2.633+1	1.487
4670	2.602	-2.379+1	2.544	8.899	2.634+1	1.501
4680	2.602	-2.380+1	2.544	8.886	2.634+1	1.515
4690	2.603	-2.380+1	2.544	8.872	2.635+1	1.530
4700	2.604	-2.381+1	2.544	8.859	2.635+1	1.544
4710	2.604	-2.382+1	2.544	8.846	2.636+1	1.558
4720	2.605	-2.382+1	2.544	8.833	2.637+1	1.572
4730	2.605	-2.383+1	2.545	8.819	2.637+1	1.586
4740	2.606	-2.383+1	2.545	8.806	2.638+1	1.599
4750	2.607	-2.384+1	2.545	8.793	2.638+1	1.613
4760	2.607	-2.384+1	2.545	8.780	2.639+1	1.627
4770	2.608	-2.385+1	2.545	8.767	2.639+1	1.641
4780	2.608	-2.385+1	2.545	8.754	2.640+1	1.654
4790	2.609	-2.386+1	2.545	8.742	2.640+1	1.668
4800	2.610	-2.386+1	2.546	8.729	2.641+1	1.681
4810	2.610	-2.387+1	2.546	8.716	2.642+1	1.695
4820	2.611	-2.387+1	2.546	8.703	2.642+1	1.708
4830	2.611	-2.388+1	2.546	8.691	2.643+1	1.721
4840	2.612	-2.389+1	2.546	8.678	2.643+1	1.735
4850	2.613	-2.389+1	2.546	8.666	2.644+1	1.748
4860	2.613	-2.390+1	2.546	8.653	2.644+1	1.761
4870	2.614	-2.390+1	2.546	8.641	2.645+1	1.774
4880	2.614	-2.391+1	2.547	8.629	2.645+1	1.787
4890	2.615	-2.391+1	2.547	8.616	2.646+1	1.800
4900	2.616	-2.392+1	2.547	8.604	2.646+1	1.813
4910	2.616	-2.392+1	2.547	8.592	2.647+1	1.826
4920	2.617	-2.393+1	2.547	8.580	2.647+1	1.839
4930	2.617	-2.393+1	2.547	8.568	2.648+1	1.851
4940	2.618	-2.394+1	2.547	8.556	2.648+1	1.864
4950	2.619	-2.394+1	2.548	8.544	2.649+1	1.877
4960	2.619	-2.395+1	2.548	8.532	2.650+1	1.889
4970	2.620	-2.395+1	2.548	8.520	2.650+1	1.902
4980	2.620	-2.396+1	2.548	8.508	2.651+1	1.914
4990	2.621	-2.396+1	2.548	8.496	2.651+1	1.927
5000	2.622	-2.397+1	2.548	8.484	2.652+1	1.939
5010	2.622	-2.397+1	2.548	8.473	2.652+1	1.952
5020	2.623	-2.398+1	2.549	8.461	2.653+1	1.964
5030	2.624	-2.398+1	2.549	8.449	2.653+1	1.976
5040	2.624	-2.399+1	2.549	8.438	2.654+1	1.988
5050	2.625	-2.399+1	2.549	8.426	2.654+1	2.001
5060	2.625	-2.400+1	2.549	8.415	2.655+1	2.013
5070	2.626	-2.400+1	2.549	8.403	2.655+1	2.025
5080	2.627	-2.401+1	2.549	8.392	2.656+1	2.037
5090	2.627	-2.401+1	2.550	8.381	2.656+1	2.049

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	2.628	-2.402+1	2.550	8.369	2.657+1	2.061
5110	2.628	-2.402+1	2.550	8.358	2.657+1	2.073
5120	2.629	-2.403+1	2.550	8.347	2.658+1	2.085
5130	2.630	-2.403+1	2.550	8.336	2.658+1	2.096
5140	2.630	-2.404+1	2.550	8.325	2.659+1	2.108
5150	2.631	-2.404+1	2.551	8.314	2.659+1	2.120
5160	2.631	-2.405+1	2.551	8.303	2.660+1	2.132
5170	2.632	-2.405+1	2.551	8.292	2.660+1	2.143
5180	2.633	-2.406+1	2.551	8.281	2.661+1	2.155
5190	2.633	-2.406+1	2.551	8.270	2.661+1	2.167
5200	2.634	-2.407+1	2.551	8.259	2.662+1	2.178
5210	2.634	-2.407+1	2.552	8.248	2.662+1	2.190
5220	2.635	-2.408+1	2.552	8.238	2.663+1	2.201
5230	2.636	-2.408+1	2.552	8.227	2.663+1	2.212
5240	2.636	-2.409+1	2.552	8.216	2.664+1	2.224
5250	2.637	-2.409+1	2.552	8.206	2.664+1	2.235
5260	2.637	-2.410+1	2.552	8.195	2.665+1	2.246
5270	2.638	-2.410+1	2.552	8.184	2.665+1	2.257
5280	2.639	-2.411+1	2.553	8.174	2.666+1	2.269
5290	2.639	-2.411+1	2.553	8.163	2.666+1	2.280
5300	2.640	-2.412+1	2.553	8.153	2.667+1	2.291
5310	2.640	-2.412+1	2.553	8.143	2.667+1	2.302
5320	2.641	-2.413+1	2.553	8.132	2.668+1	2.313
5330	2.642	-2.413+1	2.553	8.122	2.668+1	2.324
5340	2.642	-2.414+1	2.554	8.112	2.669+1	2.334
5350	2.643	-2.414+1	2.554	8.101	2.669+1	2.345
5360	2.643	-2.415+1	2.554	8.091	2.670+1	2.356
5370	2.644	-2.415+1	2.554	8.081	2.670+1	2.367
5380	2.645	-2.415+1	2.554	8.071	2.671+1	2.378
5390	2.645	-2.416+1	2.554	8.061	2.671+1	2.388
5400	2.646	-2.416+1	2.555	8.051	2.672+1	2.399
5410	2.646	-2.417+1	2.555	8.041	2.672+1	2.410
5420	2.647	-2.417+1	2.555	8.031	2.673+1	2.420
5430	2.648	-2.418+1	2.555	8.021	2.673+1	2.431
5440	2.648	-2.418+1	2.555	8.011	2.674+1	2.441
5450	2.649	-2.419+1	2.555	8.001	2.674+1	2.452
5460	2.649	-2.419+1	2.556	7.992	2.675+1	2.462
5470	2.650	-2.420+1	2.556	7.982	2.675+1	2.473
5480	2.650	-2.420+1	2.556	7.972	2.676+1	2.483
5490	2.651	-2.421+1	2.556	7.962	2.676+1	2.493
5500	2.651	-2.421+1	2.556	7.953	2.677+1	2.504
5510	2.652	-2.422+1	2.557	7.943	2.677+1	2.514
5520	2.652	-2.422+1	2.557	7.934	2.678+1	2.524
5530	2.653	-2.423+1	2.557	7.924	2.678+1	2.534
5540	2.654	-2.423+1	2.557	7.914	2.679+1	2.544
5550	2.654	-2.423+1	2.557	7.905	2.679+1	2.554
5560	2.655	-2.424+1	2.557	7.896	2.680+1	2.564
5570	2.655	-2.424+1	2.558	7.886	2.680+1	2.574
5580	2.656	-2.425+1	2.558	7.877	2.681+1	2.584
5590	2.656	-2.425+1	2.558	7.867	2.681+1	2.594

SPECIE O

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	2.657	-2.426+1	2.558	7.858	2.682+1	2.604
5610	2.658	-2.426+1	2.558	7.849	2.682+1	2.614
5620	2.658	-2.427+1	2.558	7.840	2.682+1	2.624
5630	2.659	-2.427+1	2.559	7.830	2.683+1	2.633
5640	2.659	-2.428+1	2.559	7.821	2.683+1	2.643
5650	2.660	-2.428+1	2.559	7.812	2.684+1	2.653
5660	2.660	-2.428+1	2.559	7.803	2.684+1	2.663
5670	2.661	-2.429+1	2.559	7.794	2.685+1	2.672
5680	2.662	-2.429+1	2.560	7.785	2.685+1	2.682
5690	2.662	-2.430+1	2.560	7.776	2.686+1	2.692
5700	2.663	-2.430+1	2.560	7.767	2.686+1	2.702
5710	2.663	-2.431+1	2.560	7.758	2.687+1	2.711
5720	2.664	-2.431+1	2.560	7.749	2.687+1	2.721
5730	2.665	-2.432+1	2.560	7.740	2.688+1	2.730
5740	2.665	-2.432+1	2.561	7.731	2.688+1	2.740
5750	2.666	-2.432+1	2.561	7.723	2.689+1	2.749
5760	2.666	-2.433+1	2.561	7.714	2.689+1	2.759
5770	2.667	-2.433+1	2.561	7.705	2.689+1	2.768
5780	2.667	-2.434+1	2.561	7.696	2.690+1	2.777
5790	2.668	-2.434+1	2.562	7.688	2.690+1	2.787
5800	2.668	-2.435+1	2.562	7.679	2.691+1	2.796
5810	2.669	-2.435+1	2.562	7.670	2.691+1	2.805
5820	2.669	-2.436+1	2.562	7.662	2.692+1	2.814
5830	2.670	-2.436+1	2.562	7.653	2.692+1	2.824
5840	2.670	-2.436+1	2.562	7.645	2.693+1	2.833
5850	2.671	-2.437+1	2.563	7.636	2.693+1	2.842
5860	2.671	-2.437+1	2.563	7.628	2.694+1	2.851
5870	2.672	-2.438+1	2.563	7.619	2.694+1	2.860
5880	2.672	-2.438+1	2.563	7.611	2.695+1	2.869
5890	2.673	-2.439+1	2.563	7.602	2.695+1	2.878
5900	2.674	-2.439+1	2.564	7.594	2.695+1	2.887
5910	2.674	-2.440+1	2.564	7.586	2.696+1	2.895
5920	2.675	-2.440+1	2.564	7.577	2.696+1	2.904
5930	2.675	-2.440+1	2.564	7.569	2.697+1	2.913
5940	2.676	-2.441+1	2.564	7.561	2.697+1	2.922
5950	2.676	-2.441+1	2.564	7.553	2.698+1	2.931
5960	2.677	-2.442+1	2.565	7.545	2.698+1	2.939
5970	2.677	-2.442+1	2.565	7.536	2.699+1	2.948
5980	2.678	-2.443+1	2.565	7.528	2.699+1	2.957
5990	2.678	-2.443+1	2.565	7.520	2.699+1	2.965
6000	2.679	-2.443+1	2.565	7.512	2.700+1	2.974

SPECIE O2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
100	3.501	-1.735+1	3.492	3.492	2.070+1
110	3.501	-1.766+1	3.492	3.492	2.104+1
120	3.502	-1.795+1	3.492	3.492	2.135+1
130	3.503	-1.823+1	3.493	3.493	2.165+1
140	3.503	-1.849+1	3.493	3.493	2.193+1
150	3.503	-1.873+1	3.493	3.493	2.219+1
160	3.502	-1.896+1	3.493	3.493	2.243+1
170	3.502	-1.918+1	3.494	3.494	2.266+1
180	3.502	-1.939+1	3.494	3.494	2.287+1
190	3.502	-1.958+1	3.494	3.494	2.307+1
200	3.503	-1.977+1	3.495	3.495	2.326+1
210	3.505	-1.994+1	3.495	3.495	2.344+1
220	3.505	-2.010+1	3.496	3.496	2.360+1
230	3.507	-2.026+1	3.496	3.496	2.376+1
240	3.509	-2.041+1	3.497	3.497	2.391+1
250	3.512	-2.055+1	3.498	3.498	2.406+1
260	3.515	-2.069+1	3.498	3.498	2.419+1
270	3.519	-2.082+1	3.499	3.499	2.432+1
280	3.523	-2.095+1	3.500	3.500	2.445+1
290	3.528	-2.107+1	3.501	3.501	2.457+1
300	3.534	-2.118+1	3.502	3.502	2.469+1
310	3.541	-2.130+1	3.504	3.504	2.480+1
320	3.548	-2.141+1	3.505	3.505	2.492+1
330	3.555	-2.152+1	3.506	3.506	2.502+1
340	3.563	-2.162+1	3.508	3.508	2.513+1
350	3.572	-2.173+1	3.510	3.510	2.523+1
360	3.581	-2.182+1	3.511	3.511	2.534+1
370	3.590	-2.192+1	3.513	3.513	2.543+1
380	3.600	-2.201+1	3.515	3.515	2.553+1
390	3.611	-2.210+1	3.518	3.518	2.562+1
400	3.621	-2.219+1	3.520	3.520	2.571+1
410	3.632	-2.228+1	3.523	3.523	2.580+1
420	3.643	-2.237+1	3.525	3.525	2.589+1
430	3.655	-2.245+1	3.528	3.528	2.598+1
440	3.666	-2.253+1	3.531	3.531	2.606+1
450	3.678	-2.261+1	3.534	3.534	2.614+1
460	3.690	-2.269+1	3.538	3.538	2.622+1
470	3.702	-2.276+1	3.541	3.541	2.630+1
480	3.715	-2.284+1	3.544	3.544	2.638+1
490	3.727	-2.291+1	3.548	3.548	2.646+1
500	3.739	-2.298+1	3.552	3.552	2.653+1
510	3.751	-2.305+1	3.555	3.555	2.661+1
520	3.763	-2.312+1	3.559	3.559	2.668+1
530	3.775	-2.319+1	3.563	3.563	2.675+1
540	3.787	-2.326+1	3.567	3.567	2.682+1
550	3.799	-2.332+1	3.572	3.572	2.689+1
560	3.811	-2.339+1	3.576	3.576	2.696+1
570	3.823	-2.345+1	3.580	3.580	2.703+1
580	3.835	-2.351+1	3.584	3.584	2.710+1
590	3.847	-2.357+1	3.589	3.589	2.716+1

SPECIE 02

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
600	3.860	-2.363+1	3.593	3.593	2.723+1
610	3.871	-2.369+1	3.598	3.598	2.729+1
620	3.882	-2.375+1	3.602	3.602	2.735+1
630	3.893	-2.381+1	3.607	3.607	2.741+1
640	3.904	-2.387+1	3.611	3.611	2.748+1
650	3.915	-2.392+1	3.616	3.616	2.754+1
660	3.926	-2.398+1	3.620	3.620	2.760+1
670	3.936	-2.403+1	3.625	3.625	2.766+1
680	3.947	-2.408+1	3.630	3.630	2.771+1
690	3.957	-2.414+1	3.634	3.634	2.777+1
700	3.967	-2.419+1	3.639	3.639	2.783+1
710	3.977	-2.424+1	3.644	3.644	2.789+1
720	3.986	-2.429+1	3.648	3.648	2.794+1
730	3.996	-2.434+1	3.653	3.653	2.800+1
740	4.005	-2.439+1	3.658	3.658	2.805+1
750	4.014	-2.444+1	3.662	3.662	2.810+1
760	4.023	-2.449+1	3.667	3.667	2.816+1
770	4.032	-2.454+1	3.672	3.672	2.821+1
780	4.040	-2.459+1	3.676	3.676	2.826+1
790	4.049	-2.463+1	3.681	3.681	2.831+1
800	4.057	-2.468+1	3.686	3.686	2.836+1
810	4.066	-2.473+1	3.691	3.691	2.842+1
820	4.073	-2.477+1	3.695	3.695	2.847+1
830	4.081	-2.482+1	3.700	3.700	2.852+1
840	4.089	-2.486+1	3.704	3.704	2.856+1
850	4.097	-2.490+1	3.709	3.709	2.861+1
860	4.104	-2.495+1	3.713	3.713	2.866+1
870	4.111	-2.499+1	3.718	3.718	2.871+1
880	4.118	-2.503+1	3.723	3.723	2.875+1
890	4.126	-2.507+1	3.727	3.727	2.880+1
900	4.132	-2.512+1	3.732	3.732	2.885+1
910	4.139	-2.516+1	3.736	3.736	2.889+1
920	4.146	-2.520+1	3.740	3.740	2.894+1
930	4.152	-2.524+1	3.745	3.745	2.898+1
940	4.159	-2.528+1	3.749	3.749	2.903+1
950	4.165	-2.532+1	3.753	3.753	2.907+1
960	4.171	-2.536+1	3.758	3.758	2.911+1
970	4.177	-2.540+1	3.762	3.762	2.916+1
980	4.183	-2.544+1	3.766	3.766	2.920+1
990	4.189	-2.547+1	3.771	3.771	2.924+1
1000	4.195	-2.551+1	3.775	3.775	2.929+1
1010	4.200	-2.555+1	3.779	3.779	2.933+1
1020	4.206	-2.559+1	3.783	3.783	2.937+1
1030	4.211	-2.562+1	3.787	3.787	2.941+1
1040	4.217	-2.566+1	3.791	3.791	2.945+1
1050	4.222	-2.570+1	3.795	3.795	2.949+1
1060	4.227	-2.573+1	3.799	3.799	2.953+1
1070	4.232	-2.577+1	3.803	3.803	2.957+1
1080	4.237	-2.580+1	3.807	3.807	2.961+1
1090	4.242	-2.584+1	3.811	3.811	2.965+1

SPECIE 02

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
1100	4.247	-2.587+1	3.815	3.815	2.969+1
1110	4.251	-2.591+1	3.819	3.819	2.973+1
1120	4.256	-2.594+1	3.823	3.823	2.976+1
1130	4.261	-2.598+1	3.827	3.827	2.980+1
1140	4.265	-2.601+1	3.831	3.831	2.984+1
1150	4.270	-2.604+1	3.835	3.835	2.988+1
1160	4.274	-2.608+1	3.838	3.838	2.991+1
1170	4.278	-2.611+1	3.842	3.842	2.995+1
1180	4.283	-2.614+1	3.846	3.846	2.999+1
1190	4.287	-2.617+1	3.850	3.850	3.002+1
1200	4.291	-2.621+1	3.853	3.853	3.006+1
1210	4.295	-2.624+1	3.857	3.857	3.010+1
1220	4.299	-2.627+1	3.861	3.861	3.013+1
1230	4.303	-2.630+1	3.864	3.864	3.017+1
1240	4.307	-2.633+1	3.868	3.868	3.020+1
1250	4.311	-2.636+1	3.871	3.871	3.024+1
1260	4.315	-2.639+1	3.875	3.875	3.027+1
1270	4.319	-2.643+1	3.878	3.878	3.030+1
1280	4.322	-2.646+1	3.881	3.881	3.034+1
1290	4.326	-2.649+1	3.885	3.885	3.037+1
1300	4.330	-2.652+1	3.888	3.888	3.040+1
1310	4.333	-2.655+1	3.892	3.892	3.044+1
1320	4.337	-2.658+1	3.895	3.895	3.047+1
1330	4.341	-2.661+1	3.898	3.898	3.050+1
1340	4.344	-2.663+1	3.902	3.902	3.054+1
1350	4.348	-2.666+1	3.905	3.905	3.057+1
1360	4.351	-2.669+1	3.908	3.908	3.060+1
1370	4.355	-2.672+1	3.911	3.911	3.063+1
1380	4.358	-2.675+1	3.915	3.915	3.066+1
1390	4.361	-2.678+1	3.918	3.918	3.070+1
1400	4.365	-2.681+1	3.921	3.921	3.073+1
1410	4.368	-2.683+1	3.924	3.924	3.076+1
1420	4.371	-2.686+1	3.927	3.927	3.079+1
1430	4.375	-2.689+1	3.930	3.930	3.082+1
1440	4.378	-2.692+1	3.934	3.934	3.085+1
1450	4.381	-2.694+1	3.937	3.937	3.088+1
1460	4.384	-2.697+1	3.940	3.940	3.091+1
1470	4.388	-2.700+1	3.943	3.943	3.094+1
1480	4.391	-2.702+1	3.946	3.946	3.097+1
1490	4.394	-2.705+1	3.949	3.949	3.100+1
1500	4.397	-2.708+1	3.952	3.952	3.103+1
1510	4.400	-2.710+1	3.955	3.955	3.106+1
1520	4.403	-2.713+1	3.958	3.958	3.109+1
1530	4.406	-2.716+1	3.961	3.961	3.112+1
1540	4.410	-2.718+1	3.964	3.964	3.115+1
1550	4.413	-2.721+1	3.966	3.966	3.117+1
1560	4.416	-2.723+1	3.969	3.969	3.120+1
1570	4.419	-2.726+1	3.972	3.972	3.123+1
1580	4.422	-2.728+1	3.975	3.975	3.126+1
1590	4.425	-2.731+1	3.978	3.978	3.129+1

SPECIE 02

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
1600	4.428	-2.733+1	3.981	3.981	3.131+1
1610	4.431	-2.736+1	3.983	3.983	3.134+1
1620	4.434	-2.738+1	3.986	3.986	3.137+1
1630	4.437	-2.741+1	3.989	3.989	3.140+1
1640	4.440	-2.743+1	3.992	3.992	3.142+1
1650	4.443	-2.746+1	3.994	3.994	3.145+1
1660	4.446	-2.748+1	3.997	3.997	3.148+1
1670	4.449	-2.750+1	4.000	4.000	3.150+1
1680	4.452	-2.753+1	4.002	4.002	3.153+1
1690	4.455	-2.755+1	4.005	4.005	3.156+1
1700	4.457	-2.758+1	4.008	4.008	3.158+1
1710	4.460	-2.760+1	4.010	4.010	3.161+1
1720	4.463	-2.762+1	4.013	4.013	3.163+1
1730	4.466	-2.765+1	4.015	4.015	3.166+1
1740	4.469	-2.767+1	4.018	4.018	3.169+1
1750	4.472	-2.769+1	4.021	4.021	3.171+1
1760	4.475	-2.771+1	4.023	4.023	3.174+1
1770	4.478	-2.774+1	4.026	4.026	3.176+1
1780	4.481	-2.776+1	4.028	4.028	3.179+1
1790	4.484	-2.778+1	4.031	4.031	3.181+1
1800	4.487	-2.780+1	4.033	4.033	3.184+1
1810	4.489	-2.783+1	4.036	4.036	3.186+1
1820	4.492	-2.785+1	4.038	4.038	3.189+1
1830	4.495	-2.787+1	4.041	4.041	3.191+1
1840	4.498	-2.789+1	4.043	4.043	3.194+1
1850	4.501	-2.792+1	4.046	4.046	3.196+1
1860	4.504	-2.794+1	4.048	4.048	3.199+1
1870	4.507	-2.796+1	4.051	4.051	3.201+1
1880	4.510	-2.798+1	4.053	4.053	3.203+1
1890	4.512	-2.800+1	4.056	4.056	3.206+1
1900	4.515	-2.802+1	4.058	4.058	3.208+1
1910	4.518	-2.805+1	4.061	4.061	3.211+1
1920	4.521	-2.807+1	4.063	4.063	3.213+1
1930	4.524	-2.809+1	4.065	4.065	3.215+1
1940	4.527	-2.811+1	4.068	4.068	3.218+1
1950	4.529	-2.813+1	4.070	4.070	3.220+1
1960	4.532	-2.815+1	4.072	4.072	3.222+1
1970	4.535	-2.817+1	4.075	4.075	3.225+1
1980	4.538	-2.819+1	4.077	4.077	3.227+1
1990	4.541	-2.821+1	4.079	4.079	3.229+1
2000	4.543	-2.823+1	4.082	4.082	3.231+1
2010	4.546	-2.825+1	4.084	4.084	3.234+1
2020	4.549	-2.827+1	4.086	4.086	3.236+1
2030	4.552	-2.829+1	4.089	4.089	3.238+1
2040	4.555	-2.831+1	4.091	4.091	3.240+1
2050	4.557	-2.833+1	4.093	4.093	3.243+1
2060	4.560	-2.835+1	4.095	4.095	3.245+1
2070	4.563	-2.837+1	4.098	4.098	3.247+1
2080	4.566	-2.839+1	4.100	4.100	3.249+1
2090	4.568	-2.841+1	4.102	4.102	3.251+1

SPECIE 02

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
2100	4.571	-2.843+1	4.104	4.104	3.254+1
2110	4.574	-2.845+1	4.106	4.106	3.256+1
2120	4.577	-2.847+1	4.109	4.109	3.258+1
2130	4.579	-2.849+1	4.111	4.111	3.260+1
2140	4.582	-2.851+1	4.113	4.113	3.262+1
2150	4.585	-2.853+1	4.115	4.115	3.264+1
2160	4.588	-2.855+1	4.117	4.117	3.267+1
2170	4.590	-2.857+1	4.120	4.120	3.269+1
2180	4.593	-2.859+1	4.122	4.122	3.271+1
2190	4.596	-2.861+1	4.124	4.124	3.273+1
2200	4.599	-2.862+1	4.126	4.126	3.275+1
2210	4.602	-2.864+1	4.128	4.128	3.277+1
2220	4.604	-2.866+1	4.131	4.131	3.279+1
2230	4.607	-2.868+1	4.133	4.133	3.281+1
2240	4.610	-2.870+1	4.135	4.135	3.283+1
2250	4.613	-2.872+1	4.137	4.137	3.285+1
2260	4.615	-2.873+1	4.139	4.139	3.287+1
2270	4.618	-2.875+1	4.141	4.141	3.289+1
2280	4.621	-2.877+1	4.143	4.143	3.291+1
2290	4.624	-2.879+1	4.145	4.145	3.293+1
2300	4.626	-2.881+1	4.147	4.147	3.295+1
2310	4.629	-2.883+1	4.149	4.149	3.297+1
2320	4.632	-2.884+1	4.151	4.151	3.299+1
2330	4.635	-2.886+1	4.153	4.153	3.301+1
2340	4.637	-2.888+1	4.156	4.156	3.303+1
2350	4.640	-2.890+1	4.158	4.158	3.305+1
2360	4.643	-2.891+1	4.160	4.160	3.307+1
2370	4.646	-2.893+1	4.162	4.162	3.309+1
2380	4.648	-2.895+1	4.164	4.164	3.311+1
2390	4.651	-2.897+1	4.166	4.166	3.313+1
2400	4.654	-2.898+1	4.168	4.168	3.315+1
2410	4.656	-2.900+1	4.170	4.170	3.317+1
2420	4.659	-2.902+1	4.172	4.172	3.319+1
2430	4.662	-2.904+1	4.174	4.174	3.321+1
2440	4.664	-2.905+1	4.176	4.176	3.323+1
2450	4.667	-2.907+1	4.178	4.178	3.325+1
2460	4.670	-2.909+1	4.180	4.180	3.327+1
2470	4.672	-2.910+1	4.182	4.182	3.329+1
2480	4.675	-2.912+1	4.184	4.184	3.331+1
2490	4.678	-2.914+1	4.186	4.186	3.332+1
2500	4.680	-2.915+1	4.188	4.188	3.334+1
2510	4.683	-2.917+1	4.190	4.190	3.336+1
2520	4.686	-2.919+1	4.192	4.192	3.338+1
2530	4.688	-2.921+1	4.194	4.194	3.340+1
2540	4.691	-2.922+1	4.196	4.196	3.342+1
2550	4.694	-2.924+1	4.198	4.198	3.344+1
2560	4.696	-2.925+1	4.200	4.200	3.345+1
2570	4.699	-2.927+1	4.201	4.201	3.347+1
2580	4.702	-2.929+1	4.203	4.203	3.349+1
2590	4.704	-2.930+1	4.205	4.205	3.351+1

SPECIE 02

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
2600	4.707	-2.932+1	4.207	4.207	3.353+1
2610	4.710	-2.934+1	4.209	4.209	3.354+1
2620	4.712	-2.935+1	4.211	4.211	3.356+1
2630	4.715	-2.937+1	4.213	4.213	3.358+1
2640	4.717	-2.938+1	4.215	4.215	3.360+1
2650	4.720	-2.940+1	4.217	4.217	3.362+1
2660	4.722	-2.942+1	4.219	4.219	3.363+1
2670	4.725	-2.943+1	4.220	4.220	3.365+1
2680	4.728	-2.945+1	4.222	4.222	3.367+1
2690	4.730	-2.946+1	4.224	4.224	3.369+1
2700	4.733	-2.948+1	4.226	4.226	3.370+1
2710	4.735	-2.949+1	4.228	4.228	3.372+1
2720	4.738	-2.951+1	4.230	4.230	3.374+1
2730	4.740	-2.953+1	4.232	4.232	3.376+1
2740	4.743	-2.954+1	4.234	4.234	3.377+1
2750	4.745	-2.956+1	4.236	4.236	3.379+1
2760	4.748	-2.957+1	4.237	4.237	3.381+1
2770	4.750	-2.959+1	4.239	4.239	3.383+1
2780	4.753	-2.960+1	4.241	4.241	3.384+1
2790	4.755	-2.962+1	4.243	4.243	3.386+1
2800	4.758	-2.963+1	4.245	4.245	3.388+1
2810	4.760	-2.965+1	4.247	4.247	3.389+1
2820	4.763	-2.966+1	4.248	4.248	3.391+1
2830	4.765	-2.968+1	4.250	4.250	3.393+1
2840	4.768	-2.969+1	4.252	4.252	3.395+1
2850	4.770	-2.971+1	4.254	4.254	3.396+1
2860	4.772	-2.972+1	4.256	4.256	3.398+1
2870	4.775	-2.974+1	4.257	4.257	3.400+1
2880	4.777	-2.975+1	4.259	4.259	3.401+1
2890	4.780	-2.977+1	4.261	4.261	3.403+1
2900	4.782	-2.978+1	4.263	4.263	3.404+1
2910	4.784	-2.980+1	4.265	4.265	3.406+1
2920	4.787	-2.981+1	4.266	4.266	3.408+1
2930	4.789	-2.983+1	4.268	4.268	3.409+1
2940	4.792	-2.984+1	4.270	4.270	3.411+1
2950	4.794	-2.986+1	4.272	4.272	3.413+1
2960	4.796	-2.987+1	4.274	4.274	3.414+1
2970	4.799	-2.988+1	4.275	4.275	3.416+1
2980	4.801	-2.990+1	4.277	4.277	3.418+1
2990	4.804	-2.991+1	4.279	4.279	3.419+1
3000	4.806	-2.993+1	4.281	4.281	3.421+1
3010	4.808	-2.994+1	4.282	4.282	3.422+1
3020	4.811	-2.996+1	4.284	4.284	3.424+1
3030	4.813	-2.997+1	4.286	4.286	3.426+1
3040	4.815	-2.998+1	4.288	4.288	3.427+1
3050	4.818	-3.000+1	4.289	4.289	3.429+1
3060	4.820	-3.001+1	4.291	4.291	3.430+1
3070	4.822	-3.003+1	4.293	4.293	3.432+1
3080	4.824	-3.004+1	4.294	4.294	3.433+1
3090	4.827	-3.005+1	4.296	4.296	3.435+1

SPECIE O2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
3100	4.829	-3.007+1	4.298	4.298	3.437+1
3110	4.831	-3.008+1	4.300	4.300	3.438+1
3120	4.833	-3.010+1	4.301	4.301	3.440+1
3130	4.835	-3.011+1	4.303	4.303	3.441+1
3140	4.838	-3.012+1	4.305	4.305	3.443+1
3150	4.840	-3.014+1	4.306	4.306	3.444+1
3160	4.842	-3.015+1	4.308	4.308	3.446+1
3170	4.844	-3.016+1	4.310	4.310	3.447+1
3180	4.846	-3.018+1	4.311	4.311	3.449+1
3190	4.849	-3.019+1	4.313	4.313	3.450+1
3200	4.851	-3.020+1	4.315	4.315	3.452+1
3210	4.853	-3.022+1	4.316	4.316	3.453+1
3220	4.855	-3.023+1	4.318	4.318	3.455+1
3230	4.857	-3.024+1	4.320	4.320	3.456+1
3240	4.859	-3.026+1	4.321	4.321	3.458+1
3250	4.862	-3.027+1	4.323	4.323	3.459+1
3260	4.864	-3.028+1	4.325	4.325	3.461+1
3270	4.866	-3.030+1	4.326	4.326	3.462+1
3280	4.868	-3.031+1	4.328	4.328	3.464+1
3290	4.870	-3.032+1	4.330	4.330	3.465+1
3300	4.872	-3.034+1	4.331	4.331	3.467+1
3310	4.874	-3.035+1	4.333	4.333	3.468+1
3320	4.876	-3.036+1	4.335	4.335	3.470+1
3330	4.878	-3.038+1	4.336	4.336	3.471+1
3340	4.880	-3.039+1	4.338	4.338	3.473+1
3350	4.882	-3.040+1	4.340	4.340	3.474+1
3360	4.884	-3.042+1	4.341	4.341	3.476+1
3370	4.887	-3.043+1	4.343	4.343	3.477+1
3380	4.889	-3.044+1	4.344	4.344	3.479+1
3390	4.891	-3.045+1	4.346	4.346	3.480+1
3400	4.893	-3.047+1	4.348	4.348	3.481+1
3410	4.895	-3.048+1	4.349	4.349	3.483+1
3420	4.897	-3.049+1	4.351	4.351	3.484+1
3430	4.899	-3.051+1	4.352	4.352	3.486+1
3440	4.901	-3.052+1	4.354	4.354	3.487+1
3450	4.903	-3.053+1	4.356	4.356	3.489+1
3460	4.905	-3.054+1	4.357	4.357	3.490+1
3470	4.906	-3.056+1	4.359	4.359	3.491+1
3480	4.908	-3.057+1	4.360	4.360	3.493+1
3490	4.910	-3.058+1	4.362	4.362	3.494+1
3500	4.912	-3.059+1	4.363	4.363	3.496+1
3510	4.914	-3.061+1	4.365	4.365	3.497+1
3520	4.916	-3.062+1	4.366	4.366	3.498+1
3530	4.918	-3.063+1	4.368	4.368	3.500+1
3540	4.920	-3.064+1	4.370	4.370	3.501+1
3550	4.922	-3.066+1	4.371	4.371	3.503+1
3560	4.924	-3.067+1	4.373	4.373	3.504+1
3570	4.925	-3.068+1	4.374	4.374	3.505+1
3580	4.927	-3.069+1	4.376	4.376	3.507+1
3590	4.929	-3.070+1	4.377	4.377	3.508+1

SPECIE 02

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
3600	4.931	-3.072+1	4.379	4.379	3.510+1
3610	4.933	-3.073+1	4.380	4.380	3.511+1
3620	4.935	-3.074+1	4.382	4.382	3.512+1
3630	4.936	-3.075+1	4.383	4.383	3.514+1
3640	4.938	-3.076+1	4.385	4.385	3.515+1
3650	4.940	-3.078+1	4.387	4.387	3.516+1
3660	4.942	-3.079+1	4.388	4.388	3.518+1
3670	4.944	-3.080+1	4.390	4.390	3.519+1
3680	4.945	-3.081+1	4.391	4.391	3.520+1
3690	4.947	-3.082+1	4.393	4.393	3.522+1
3700	4.949	-3.084+1	4.394	4.394	3.523+1
3710	4.951	-3.085+1	4.396	4.396	3.524+1
3720	4.953	-3.086+1	4.397	4.397	3.526+1
3730	4.954	-3.087+1	4.399	4.399	3.527+1
3740	4.956	-3.088+1	4.400	4.400	3.528+1
3750	4.958	-3.090+1	4.402	4.402	3.530+1
3760	4.959	-3.091+1	4.403	4.403	3.531+1
3770	4.961	-3.092+1	4.405	4.405	3.532+1
3780	4.963	-3.093+1	4.406	4.406	3.534+1
3790	4.964	-3.094+1	4.408	4.408	3.535+1
3800	4.966	-3.095+1	4.409	4.409	3.536+1
3810	4.968	-3.097+1	4.410	4.410	3.538+1
3820	4.969	-3.098+1	4.412	4.412	3.539+1
3830	4.971	-3.099+1	4.413	4.413	3.540+1
3840	4.973	-3.100+1	4.415	4.415	3.542+1
3850	4.974	-3.101+1	4.416	4.416	3.543+1
3860	4.976	-3.102+1	4.418	4.418	3.544+1
3870	4.978	-3.103+1	4.419	4.419	3.545+1
3880	4.979	-3.105+1	4.421	4.421	3.547+1
3890	4.981	-3.106+1	4.422	4.422	3.548+1
3900	4.982	-3.107+1	4.423	4.423	3.549+1
3910	4.984	-3.108+1	4.425	4.425	3.551+1
3920	4.985	-3.109+1	4.426	4.426	3.552+1
3930	4.987	-3.110+1	4.428	4.428	3.553+1
3940	4.989	-3.111+1	4.429	4.429	3.554+1
3950	4.990	-3.113+1	4.431	4.431	3.556+1
3960	4.992	-3.114+1	4.432	4.432	3.557+1
3970	4.993	-3.115+1	4.433	4.433	3.558+1
3980	4.995	-3.116+1	4.435	4.435	3.559+1
3990	4.996	-3.117+1	4.436	4.436	3.561+1
4000	4.998	-3.118+1	4.438	4.438	3.562+1
4010	4.999	-3.119+1	4.439	4.439	3.563+1
4020	5.001	-3.120+1	4.440	4.440	3.564+1
4030	5.002	-3.121+1	4.442	4.442	3.566+1
4040	5.004	-3.123+1	4.443	4.443	3.567+1
4050	5.005	-3.124+1	4.445	4.445	3.568+1
4060	5.006	-3.125+1	4.446	4.446	3.569+1
4070	5.008	-3.126+1	4.447	4.447	3.571+1
4080	5.009	-3.127+1	4.449	4.449	3.572+1
4090	5.011	-3.128+1	4.450	4.450	3.573+1

SPECIE 02

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
4100	5.012	-3.129+1	4.451	4.451	3.574+1
4110	5.013	-3.130+1	4.453	4.453	3.575+1
4120	5.015	-3.131+1	4.454	4.454	3.577+1
4130	5.016	-3.132+1	4.455	4.455	3.578+1
4140	5.017	-3.133+1	4.457	4.457	3.579+1
4150	5.019	-3.134+1	4.458	4.458	3.580+1
4160	5.020	-3.136+1	4.460	4.460	3.581+1
4170	5.021	-3.137+1	4.461	4.461	3.583+1
4180	5.023	-3.138+1	4.462	4.462	3.584+1
4190	5.024	-3.139+1	4.464	4.464	3.585+1
4200	5.025	-3.140+1	4.465	4.465	3.586+1
4210	5.027	-3.141+1	4.466	4.466	3.587+1
4220	5.028	-3.142+1	4.468	4.468	3.589+1
4230	5.029	-3.143+1	4.469	4.469	3.590+1
4240	5.031	-3.144+1	4.470	4.470	3.591+1
4250	5.032	-3.145+1	4.472	4.472	3.592+1
4260	5.033	-3.146+1	4.473	4.473	3.593+1
4270	5.035	-3.147+1	4.474	4.474	3.595+1
4280	5.036	-3.148+1	4.476	4.476	3.596+1
4290	5.037	-3.149+1	4.477	4.477	3.597+1
4300	5.039	-3.150+1	4.478	4.478	3.598+1
4310	5.040	-3.151+1	4.479	4.479	3.599+1
4320	5.041	-3.152+1	4.481	4.481	3.600+1
4330	5.042	-3.153+1	4.482	4.482	3.602+1
4340	5.044	-3.154+1	4.483	4.483	3.603+1
4350	5.045	-3.155+1	4.485	4.485	3.604+1
4360	5.046	-3.157+1	4.486	4.486	3.605+1
4370	5.047	-3.158+1	4.487	4.487	3.606+1
4380	5.048	-3.159+1	4.488	4.488	3.607+1
4390	5.049	-3.160+1	4.490	4.490	3.609+1
4400	5.051	-3.161+1	4.491	4.491	3.610+1
4410	5.052	-3.162+1	4.492	4.492	3.611+1
4420	5.053	-3.163+1	4.493	4.493	3.612+1
4430	5.054	-3.164+1	4.495	4.495	3.613+1
4440	5.055	-3.165+1	4.496	4.496	3.614+1
4450	5.057	-3.166+1	4.497	4.497	3.615+1
4460	5.058	-3.167+1	4.499	4.499	3.617+1
4470	5.059	-3.168+1	4.500	4.500	3.618+1
4480	5.060	-3.169+1	4.501	4.501	3.619+1
4490	5.061	-3.170+1	4.502	4.502	3.620+1
4500	5.062	-3.171+1	4.504	4.504	3.621+1
4510	5.063	-3.172+1	4.505	4.505	3.622+1
4520	5.064	-3.173+1	4.506	4.506	3.623+1
4530	5.066	-3.174+1	4.507	4.507	3.624+1
4540	5.067	-3.175+1	4.509	4.509	3.626+1
4550	5.068	-3.176+1	4.510	4.510	3.627+1
4560	5.069	-3.177+1	4.511	4.511	3.628+1
4570	5.070	-3.178+1	4.512	4.512	3.629+1
4580	5.071	-3.179+1	4.513	4.513	3.630+1
4590	5.072	-3.180+1	4.515	4.515	3.631+1

SPECIE 02

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
4600	5.073	-3.181+1	4.516	4.516	3.632+1
4610	5.074	-3.182+1	4.517	4.517	3.633+1
4620	5.075	-3.183+1	4.518	4.518	3.634+1
4630	5.076	-3.184+1	4.519	4.519	3.636+1
4640	5.077	-3.185+1	4.521	4.521	3.637+1
4650	5.078	-3.186+1	4.522	4.522	3.638+1
4660	5.079	-3.186+1	4.523	4.523	3.639+1
4670	5.081	-3.187+1	4.524	4.524	3.640+1
4680	5.082	-3.188+1	4.525	4.525	3.641+1
4690	5.083	-3.189+1	4.527	4.527	3.642+1
4700	5.084	-3.190+1	4.528	4.528	3.643+1
4710	5.085	-3.191+1	4.529	4.529	3.644+1
4720	5.086	-3.192+1	4.530	4.530	3.645+1
4730	5.087	-3.193+1	4.531	4.531	3.646+1
4740	5.088	-3.194+1	4.533	4.533	3.647+1
4750	5.089	-3.195+1	4.534	4.534	3.649+1
4760	5.090	-3.196+1	4.535	4.535	3.650+1
4770	5.090	-3.197+1	4.536	4.536	3.651+1
4780	5.091	-3.198+1	4.537	4.537	3.652+1
4790	5.092	-3.199+1	4.538	4.538	3.653+1
4800	5.093	-3.200+1	4.540	4.540	3.654+1
4810	5.094	-3.201+1	4.541	4.541	3.655+1
4820	5.095	-3.202+1	4.542	4.542	3.656+1
4830	5.096	-3.203+1	4.543	4.543	3.657+1
4840	5.097	-3.204+1	4.544	4.544	3.658+1
4850	5.097	-3.205+1	4.545	4.545	3.659+1
4860	5.098	-3.206+1	4.546	4.546	3.660+1
4870	5.099	-3.206+1	4.548	4.548	3.661+1
4880	5.100	-3.207+1	4.549	4.549	3.662+1
4890	5.101	-3.208+1	4.550	4.550	3.663+1
4900	5.102	-3.209+1	4.551	4.551	3.664+1
4910	5.103	-3.210+1	4.552	4.552	3.665+1
4920	5.104	-3.211+1	4.553	4.553	3.666+1
4930	5.105	-3.212+1	4.554	4.554	3.667+1
4940	5.105	-3.213+1	4.555	4.555	3.669+1
4950	5.106	-3.214+1	4.557	4.557	3.670+1
4960	5.107	-3.215+1	4.558	4.558	3.671+1
4970	5.108	-3.216+1	4.559	4.559	3.672+1
4980	5.109	-3.217+1	4.560	4.560	3.673+1
4990	5.110	-3.218+1	4.561	4.561	3.674+1
5000	5.111	-3.218+1	4.562	4.562	3.675+1
5010	5.111	-3.219+1	4.563	4.563	3.676+1
5020	5.112	-3.220+1	4.564	4.564	3.677+1
5030	5.113	-3.221+1	4.565	4.565	3.678+1
5040	5.114	-3.222+1	4.566	4.566	3.679+1
5050	5.115	-3.223+1	4.568	4.568	3.680+1
5060	5.115	-3.224+1	4.569	4.569	3.681+1
5070	5.116	-3.225+1	4.570	4.570	3.682+1
5080	5.117	-3.226+1	4.571	4.571	3.683+1
5090	5.118	-3.227+1	4.572	4.572	3.684+1

SPECIE O2

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
5100	5.119	-3.228+1	4.573	4.573	3.685+1
5110	5.119	-3.228+1	4.574	4.574	3.686+1
5120	5.120	-3.229+1	4.575	4.575	3.687+1
5130	5.121	-3.230+1	4.576	4.576	3.688+1
5140	5.122	-3.231+1	4.577	4.577	3.689+1
5150	5.122	-3.232+1	4.578	4.578	3.690+1
5160	5.123	-3.233+1	4.579	4.579	3.691+1
5170	5.124	-3.234+1	4.580	4.580	3.692+1
5180	5.125	-3.235+1	4.581	4.581	3.693+1
5190	5.125	-3.236+1	4.582	4.582	3.694+1
5200	5.126	-3.236+1	4.583	4.583	3.695+1
5210	5.127	-3.237+1	4.584	4.584	3.696+1
5220	5.128	-3.238+1	4.586	4.586	3.697+1
5230	5.128	-3.239+1	4.587	4.587	3.698+1
5240	5.129	-3.240+1	4.588	4.588	3.699+1
5250	5.130	-3.241+1	4.589	4.589	3.700+1
5260	5.130	-3.242+1	4.590	4.590	3.701+1
5270	5.131	-3.243+1	4.591	4.591	3.702+1
5280	5.132	-3.243+1	4.592	4.592	3.703+1
5290	5.133	-3.244+1	4.593	4.593	3.704+1
5300	5.133	-3.245+1	4.594	4.594	3.705+1
5310	5.134	-3.246+1	4.595	4.595	3.706+1
5320	5.135	-3.247+1	4.596	4.596	3.707+1
5330	5.135	-3.248+1	4.597	4.597	3.707+1
5340	5.136	-3.249+1	4.598	4.598	3.708+1
5350	5.137	-3.250+1	4.599	4.599	3.709+1
5360	5.137	-3.250+1	4.600	4.600	3.710+1
5370	5.138	-3.251+1	4.601	4.601	3.711+1
5380	5.139	-3.252+1	4.602	4.602	3.712+1
5390	5.140	-3.253+1	4.603	4.603	3.713+1
5400	5.140	-3.254+1	4.604	4.604	3.714+1
5410	5.141	-3.255+1	4.605	4.605	3.715+1
5420	5.142	-3.255+1	4.606	4.606	3.716+1
5430	5.142	-3.256+1	4.607	4.607	3.717+1
5440	5.143	-3.257+1	4.608	4.608	3.718+1
5450	5.144	-3.258+1	4.609	4.609	3.719+1
5460	5.144	-3.259+1	4.610	4.610	3.720+1
5470	5.145	-3.260+1	4.611	4.611	3.721+1
5480	5.146	-3.261+1	4.612	4.612	3.722+1
5490	5.146	-3.261+1	4.613	4.613	3.723+1
5500	5.147	-3.262+1	4.614	4.614	3.724+1
5510	5.147	-3.263+1	4.615	4.615	3.725+1
5520	5.148	-3.264+1	4.616	4.616	3.726+1
5530	5.149	-3.265+1	4.617	4.617	3.726+1
5540	5.149	-3.266+1	4.618	4.618	3.727+1
5550	5.150	-3.266+1	4.619	4.619	3.728+1
5560	5.150	-3.267+1	4.620	4.620	3.729+1
5570	5.151	-3.268+1	4.620	4.620	3.730+1
5580	5.151	-3.269+1	4.621	4.621	3.731+1
5590	5.152	-3.270+1	4.622	4.622	3.732+1

SPECIE 02

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R
5600	5.152	-3.271+1	4.623	4.623	3.733+1
5610	5.153	-3.271+1	4.624	4.624	3.734+1
5620	5.153	-3.272+1	4.625	4.625	3.735+1
5630	5.154	-3.273+1	4.626	4.626	3.736+1
5640	5.155	-3.274+1	4.627	4.627	3.737+1
5650	5.155	-3.275+1	4.628	4.628	3.738+1
5660	5.156	-3.276+1	4.629	4.629	3.738+1
5670	5.156	-3.276+1	4.630	4.630	3.739+1
5680	5.157	-3.277+1	4.631	4.631	3.740+1
5690	5.157	-3.278+1	4.632	4.632	3.741+1
5700	5.158	-3.279+1	4.633	4.633	3.742+1
5710	5.158	-3.280+1	4.633	4.633	3.743+1
5720	5.159	-3.280+1	4.634	4.634	3.744+1
5730	5.160	-3.281+1	4.635	4.635	3.745+1
5740	5.160	-3.282+1	4.636	4.636	3.746+1
5750	5.161	-3.283+1	4.637	4.637	3.746+1
5760	5.161	-3.284+1	4.638	4.638	3.747+1
5770	5.162	-3.284+1	4.639	4.639	3.748+1
5780	5.162	-3.285+1	4.640	4.640	3.749+1
5790	5.163	-3.286+1	4.641	4.641	3.750+1
5800	5.163	-3.287+1	4.642	4.642	3.751+1
5810	5.164	-3.288+1	4.642	4.642	3.752+1
5820	5.164	-3.288+1	4.643	4.643	3.753+1
5830	5.165	-3.289+1	4.644	4.644	3.754+1
5840	5.165	-3.290+1	4.645	4.645	3.754+1
5850	5.166	-3.291+1	4.646	4.646	3.755+1
5860	5.166	-3.292+1	4.647	4.647	3.756+1
5870	5.167	-3.292+1	4.648	4.648	3.757+1
5880	5.167	-3.293+1	4.649	4.649	3.758+1
5890	5.168	-3.294+1	4.649	4.649	3.759+1
5900	5.168	-3.295+1	4.650	4.650	3.760+1
5910	5.168	-3.296+1	4.651	4.651	3.761+1
5920	5.169	-3.296+1	4.652	4.652	3.762+1
5930	5.169	-3.297+1	4.653	4.653	3.762+1
5940	5.170	-3.298+1	4.654	4.654	3.763+1
5950	5.170	-3.299+1	4.655	4.655	3.764+1
5960	5.171	-3.299+1	4.656	4.656	3.765+1
5970	5.171	-3.300+1	4.656	4.656	3.766+1
5980	5.172	-3.301+1	4.657	4.657	3.767+1
5990	5.172	-3.302+1	4.658	4.658	3.768+1
6000	5.172	-3.303+1	4.659	4.659	3.769+1

SPECIE 03

MOLECULAR WEIGHT EQUALS 48.0000

DELTA E ZERO EQUALS 34.693 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(NBS 500, 2/1/52) (10)

THERMAL

(J. S. GORDON WADC TR 57-33, 1/57) (4)

SPECIE 03

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	3.309	-2.145+1	3.586	1.779+2	2.503+1	-1.789+2
110	3.387	-2.163+1	3.615	1.646+2	2.524+1	-1.659+2
120	3.465	-2.181+1	3.645	1.526+2	2.544+1	-1.541+2
130	3.542	-2.199+1	3.674	1.417+2	2.565+1	-1.434+2
140	3.619	-2.215+1	3.704	1.319+2	2.584+1	-1.338+2
150	3.696	-2.232+1	3.733	1.231+2	2.604+1	-1.252+2
160	3.772	-2.248+1	3.763	1.152+2	2.623+1	-1.174+2
170	3.847	-2.264+1	3.793	1.081+2	2.642+1	-1.104+2
180	3.922	-2.279+1	3.822	1.017+2	2.661+1	-1.042+2
190	3.996	-2.294+1	3.852	9.608+1	2.679+1	-9.867+1
200	4.068	-2.309+1	3.881	9.104+1	2.697+1	-9.371+1
210	4.139	-2.324+1	3.911	8.654+1	2.715+1	-8.930+1
220	4.210	-2.338+1	3.940	8.254+1	2.732+1	-8.537+1
230	4.279	-2.352+1	3.970	7.897+1	2.750+1	-8.187+1
240	4.347	-2.366+1	3.999	7.579+1	2.767+1	-7.874+1
250	4.414	-2.380+1	4.029	7.295+1	2.783+1	-7.594+1
260	4.479	-2.393+1	4.058	7.039+1	2.800+1	-7.342+1
270	4.543	-2.406+1	4.088	6.808+1	2.816+1	-7.115+1
280	4.606	-2.420+1	4.117	6.598+1	2.832+1	-6.908+1
290	4.667	-2.433+1	4.147	6.406+1	2.848+1	-6.718+1
300	4.727	-2.446+1	4.176	6.228+1	2.864+1	-6.542+1
310	4.784	-2.459+1	4.198	6.038+1	2.879+1	-6.354+1
320	4.840	-2.472+1	4.219	5.862+1	2.894+1	-6.179+1
330	4.895	-2.485+1	4.240	5.697+1	2.909+1	-6.016+1
340	4.949	-2.498+1	4.261	5.543+1	2.924+1	-5.863+1
350	5.002	-2.510+1	4.281	5.399+1	2.938+1	-5.719+1
360	5.053	-2.522+1	4.301	5.263+1	2.952+1	-5.585+1
370	5.103	-2.534+1	4.321	5.136+1	2.966+1	-5.458+1
380	5.153	-2.546+1	4.341	5.016+1	2.980+1	-5.338+1
390	5.201	-2.557+1	4.361	4.903+1	2.994+1	-5.225+1
400	5.248	-2.569+1	4.381	4.796+1	3.007+1	-5.118+1
410	5.295	-2.580+1	4.403	4.694+1	3.020+1	-5.016+1
420	5.341	-2.590+1	4.425	4.597+1	3.033+1	-4.919+1
430	5.385	-2.601+1	4.444	4.504+1	3.046+1	-4.826+1
440	5.429	-2.612+1	4.466	4.415+1	3.058+1	-4.736+1
450	5.471	-2.622+1	4.487	4.330+1	3.070+1	-4.651+1
460	5.512	-2.631+1	4.509	4.248+1	3.082+1	-4.568+1
470	5.552	-2.641+1	4.532	4.168+1	3.094+1	-4.488+1
480	5.591	-2.651+1	4.554	4.092+1	3.106+1	-4.411+1
490	5.629	-2.660+1	4.577	4.018+1	3.117+1	-4.337+1
500	5.666	-2.669+1	4.599	3.946+1	3.129+1	-4.265+1
510	5.701	-2.678+1	4.620	3.880+1	3.140+1	-4.198+1
520	5.735	-2.687+1	4.641	3.817+1	3.151+1	-4.134+1
530	5.768	-2.696+1	4.662	3.757+1	3.162+1	-4.073+1
540	5.800	-2.705+1	4.683	3.698+1	3.173+1	-4.013+1
550	5.830	-2.713+1	4.704	3.641+1	3.184+1	-3.956+1
560	5.860	-2.722+1	4.724	3.587+1	3.194+1	-3.900+1
570	5.888	-2.730+1	4.744	3.534+1	3.205+1	-3.847+1
580	5.916	-2.738+1	4.765	3.483+1	3.215+1	-3.795+1
590	5.942	-2.747+1	4.784	3.434+1	3.225+1	-3.744+1

SPECIE 03

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	5.968	-2.755+1	4.804	3.386+1	3.235+1	-3.695+1
610	5.993	-2.763+1	4.823	3.340+1	3.245+1	-3.649+1
620	6.018	-2.770+1	4.843	3.296+1	3.255+1	-3.604+1
630	6.042	-2.778+1	4.861	3.253+1	3.264+1	-3.560+1
640	6.065	-2.786+1	4.880	3.212+1	3.274+1	-3.518+1
650	6.087	-2.793+1	4.899	3.172+1	3.283+1	-3.477+1
660	6.109	-2.801+1	4.917	3.133+1	3.293+1	-3.437+1
670	6.130	-2.808+1	4.935	3.096+1	3.302+1	-3.398+1
680	6.151	-2.816+1	4.953	3.059+1	3.311+1	-3.361+1
690	6.170	-2.823+1	4.970	3.023+1	3.320+1	-3.324+1
700	6.189	-2.830+1	4.988	2.989+1	3.329+1	-3.289+1
710	6.208	-2.837+1	5.005	2.956+1	3.338+1	-3.254+1
720	6.226	-2.844+1	5.022	2.923+1	3.346+1	-3.221+1
730	6.243	-2.851+1	5.038	2.892+1	3.355+1	-3.188+1
740	6.260	-2.858+1	5.055	2.861+1	3.363+1	-3.157+1
750	6.276	-2.865+1	5.071	2.831+1	3.372+1	-3.126+1
760	6.292	-2.872+1	5.087	2.802+1	3.380+1	-3.096+1
770	6.307	-2.878+1	5.103	2.774+1	3.388+1	-3.066+1
780	6.322	-2.885+1	5.118	2.747+1	3.397+1	-3.038+1
790	6.336	-2.891+1	5.134	2.720+1	3.405+1	-3.010+1
800	6.350	-2.898+1	5.149	2.694+1	3.413+1	-2.983+1
810	6.364	-2.904+1	5.164	2.668+1	3.421+1	-2.956+1
820	6.378	-2.911+1	5.178	2.644+1	3.428+1	-2.931+1
830	6.390	-2.917+1	5.193	2.620+1	3.436+1	-2.906+1
840	6.403	-2.923+1	5.207	2.596+1	3.444+1	-2.881+1
850	6.415	-2.929+1	5.222	2.573+1	3.451+1	-2.857+1
860	6.427	-2.935+1	5.236	2.551+1	3.459+1	-2.834+1
870	6.439	-2.941+1	5.249	2.529+1	3.466+1	-2.811+1
880	6.450	-2.947+1	5.263	2.507+1	3.474+1	-2.788+1
890	6.461	-2.953+1	5.276	2.486+1	3.481+1	-2.766+1
900	6.471	-2.959+1	5.289	2.466+1	3.488+1	-2.745+1
910	6.482	-2.965+1	5.303	2.446+1	3.495+1	-2.724+1
920	6.492	-2.971+1	5.315	2.426+1	3.503+1	-2.703+1
930	6.501	-2.977+1	5.328	2.407+1	3.510+1	-2.683+1
940	6.511	-2.982+1	5.341	2.388+1	3.516+1	-2.664+1
950	6.520	-2.988+1	5.353	2.370+1	3.523+1	-2.645+1
960	6.529	-2.994+1	5.365	2.352+1	3.530+1	-2.626+1
970	6.537	-2.999+1	5.377	2.335+1	3.537+1	-2.607+1
980	6.546	-3.005+1	5.389	2.318+1	3.544+1	-2.589+1
990	6.554	-3.010+1	5.401	2.301+1	3.550+1	-2.571+1
1000	6.562	-3.016+1	5.412	2.284+1	3.557+1	-2.554+1
1010	6.569	-3.021+1	5.424	2.268+1	3.563+1	-2.537+1
1020	6.576	-3.026+1	5.435	2.252+1	3.570+1	-2.520+1
1030	6.583	-3.032+1	5.446	2.237+1	3.576+1	-2.504+1
1040	6.590	-3.037+1	5.457	2.222+1	3.583+1	-2.488+1
1050	6.597	-3.042+1	5.468	2.207+1	3.589+1	-2.472+1
1060	6.603	-3.047+1	5.479	2.192+1	3.595+1	-2.457+1
1070	6.609	-3.053+1	5.489	2.178+1	3.602+1	-2.442+1
1080	6.615	-3.058+1	5.500	2.164+1	3.608+1	-2.427+1
1090	6.621	-3.063+1	5.510	2.150+1	3.614+1	-2.412+1

SPECIE 03

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	6.627	-3.068+1	5.520	2.137+1	3.620+1	-2.398+1
1110	6.633	-3.073+1	5.530	2.123+1	3.626+1	-2.384+1
1120	6.639	-3.078+1	5.540	2.110+1	3.632+1	-2.370+1
1130	6.645	-3.083+1	5.550	2.098+1	3.638+1	-2.356+1
1140	6.651	-3.088+1	5.560	2.085+1	3.644+1	-2.343+1
1150	6.656	-3.092+1	5.569	2.073+1	3.649+1	-2.330+1
1160	6.662	-3.097+1	5.579	2.060+1	3.655+1	-2.317+1
1170	6.667	-3.102+1	5.588	2.049+1	3.661+1	-2.304+1
1180	6.672	-3.107+1	5.597	2.037+1	3.667+1	-2.292+1
1190	6.677	-3.112+1	5.606	2.025+1	3.672+1	-2.279+1
1200	6.683	-3.116+1	5.615	2.014+1	3.678+1	-2.267+1
1210	6.688	-3.121+1	5.624	2.003+1	3.683+1	-2.255+1
1220	6.692	-3.125+1	5.633	1.992+1	3.689+1	-2.244+1
1230	6.697	-3.130+1	5.641	1.981+1	3.694+1	-2.232+1
1240	6.702	-3.135+1	5.650	1.971+1	3.700+1	-2.221+1
1250	6.707	-3.139+1	5.658	1.960+1	3.705+1	-2.210+1
1260	6.711	-3.144+1	5.667	1.950+1	3.710+1	-2.199+1
1270	6.715	-3.148+1	5.675	1.940+1	3.716+1	-2.188+1
1280	6.720	-3.153+1	5.683	1.930+1	3.721+1	-2.177+1
1290	6.724	-3.157+1	5.691	1.920+1	3.726+1	-2.167+1
1300	6.728	-3.162+1	5.699	1.911+1	3.731+1	-2.157+1
1310	6.732	-3.166+1	5.707	1.901+1	3.737+1	-2.147+1
1320	6.735	-3.170+1	5.715	1.892+1	3.742+1	-2.137+1
1330	6.738	-3.175+1	5.723	1.883+1	3.747+1	-2.127+1
1340	6.742	-3.179+1	5.730	1.874+1	3.752+1	-2.117+1
1350	6.745	-3.183+1	5.738	1.865+1	3.757+1	-2.108+1
1360	6.748	-3.187+1	5.745	1.856+1	3.762+1	-2.098+1
1370	6.751	-3.192+1	5.753	1.848+1	3.767+1	-2.089+1
1380	6.754	-3.196+1	5.760	1.839+1	3.772+1	-2.080+1
1390	6.758	-3.200+1	5.767	1.831+1	3.777+1	-2.071+1
1400	6.760	-3.204+1	5.774	1.822+1	3.781+1	-2.062+1
1410	6.763	-3.208+1	5.781	1.814+1	3.786+1	-2.053+1
1420	6.767	-3.212+1	5.788	1.806+1	3.791+1	-2.044+1
1430	6.770	-3.216+1	5.795	1.798+1	3.796+1	-2.036+1
1440	6.773	-3.220+1	5.802	1.791+1	3.801+1	-2.028+1
1450	6.777	-3.224+1	5.809	1.783+1	3.805+1	-2.019+1
1460	6.780	-3.228+1	5.815	1.775+1	3.810+1	-2.011+1
1470	6.783	-3.232+1	5.822	1.768+1	3.815+1	-2.003+1
1480	6.787	-3.236+1	5.828	1.761+1	3.819+1	-1.995+1
1490	6.790	-3.240+1	5.835	1.753+1	3.824+1	-1.987+1
1500	6.793	-3.244+1	5.841	1.746+1	3.828+1	-1.980+1
1510	6.796	-3.248+1	5.847	1.739+1	3.833+1	-1.972+1
1520	6.798	-3.252+1	5.854	1.732+1	3.837+1	-1.964+1
1530	6.800	-3.256+1	5.860	1.725+1	3.842+1	-1.957+1
1540	6.802	-3.259+1	5.866	1.718+1	3.846+1	-1.950+1
1550	6.804	-3.263+1	5.872	1.712+1	3.851+1	-1.942+1
1560	6.806	-3.267+1	5.878	1.705+1	3.855+1	-1.935+1
1570	6.808	-3.271+1	5.884	1.699+1	3.859+1	-1.928+1
1580	6.810	-3.275+1	5.890	1.692+1	3.864+1	-1.921+1
1590	6.812	-3.278+1	5.896	1.686+1	3.868+1	-1.914+1

SPECIE 03

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	6.813	-3.282+1	5.902	1.680+1	3.872+1	-1.907+1
1610	6.815	-3.286+1	5.907	1.673+1	3.876+1	-1.901+1
1620	6.817	-3.289+1	5.913	1.667+1	3.881+1	-1.894+1
1630	6.819	-3.293+1	5.918	1.661+1	3.885+1	-1.887+1
1640	6.821	-3.297+1	5.924	1.655+1	3.889+1	-1.881+1
1650	6.823	-3.300+1	5.930	1.649+1	3.893+1	-1.875+1
1660	6.825	-3.304+1	5.935	1.644+1	3.897+1	-1.868+1
1670	6.827	-3.307+1	5.940	1.638+1	3.901+1	-1.862+1
1680	6.829	-3.311+1	5.946	1.632+1	3.905+1	-1.856+1
1690	6.832	-3.314+1	5.951	1.626+1	3.909+1	-1.850+1
1700	6.834	-3.318+1	5.956	1.621+1	3.914+1	-1.844+1
1710	6.836	-3.321+1	5.961	1.615+1	3.918+1	-1.838+1
1720	6.838	-3.325+1	5.966	1.610+1	3.922+1	-1.832+1
1730	6.840	-3.328+1	5.971	1.605+1	3.925+1	-1.826+1
1740	6.842	-3.332+1	5.976	1.599+1	3.929+1	-1.820+1
1750	6.844	-3.335+1	5.981	1.594+1	3.933+1	-1.815+1
1760	6.846	-3.339+1	5.986	1.589+1	3.937+1	-1.809+1
1770	6.848	-3.342+1	5.991	1.584+1	3.941+1	-1.803+1
1780	6.850	-3.345+1	5.996	1.579+1	3.945+1	-1.798+1
1790	6.852	-3.349+1	6.001	1.574+1	3.949+1	-1.792+1
1800	6.854	-3.352+1	6.005	1.569+1	3.953+1	-1.787+1
1810	6.855	-3.355+1	6.010	1.564+1	3.956+1	-1.782+1
1820	6.857	-3.359+1	6.015	1.559+1	3.960+1	-1.776+1
1830	6.859	-3.362+1	6.019	1.554+1	3.964+1	-1.771+1
1840	6.860	-3.365+1	6.024	1.550+1	3.968+1	-1.766+1
1850	6.862	-3.369+1	6.028	1.545+1	3.971+1	-1.761+1
1860	6.863	-3.372+1	6.033	1.540+1	3.975+1	-1.756+1
1870	6.865	-3.375+1	6.037	1.536+1	3.979+1	-1.751+1
1880	6.866	-3.378+1	6.042	1.531+1	3.983+1	-1.746+1
1890	6.867	-3.382+1	6.046	1.527+1	3.986+1	-1.741+1
1900	6.869	-3.385+1	6.051	1.522+1	3.990+1	-1.736+1
1910	6.870	-3.388+1	6.055	1.518+1	3.993+1	-1.731+1
1920	6.871	-3.391+1	6.059	1.514+1	3.997+1	-1.727+1
1930	6.872	-3.394+1	6.063	1.509+1	4.001+1	-1.722+1
1940	6.873	-3.397+1	6.067	1.505+1	4.004+1	-1.717+1
1950	6.874	-3.400+1	6.072	1.501+1	4.008+1	-1.713+1
1960	6.875	-3.404+1	6.076	1.497+1	4.011+1	-1.708+1
1970	6.876	-3.407+1	6.080	1.493+1	4.015+1	-1.704+1
1980	6.877	-3.410+1	6.084	1.489+1	4.018+1	-1.699+1
1990	6.878	-3.413+1	6.088	1.485+1	4.022+1	-1.695+1
2000	6.879	-3.416+1	6.092	1.481+1	4.025+1	-1.691+1
2010	6.880	-3.419+1	6.096	1.477+1	4.028+1	-1.686+1
2020	6.881	-3.422+1	6.100	1.473+1	4.032+1	-1.682+1
2030	6.882	-3.425+1	6.103	1.469+1	4.035+1	-1.678+1
2040	6.883	-3.428+1	6.107	1.465+1	4.039+1	-1.674+1
2050	6.884	-3.431+1	6.111	1.461+1	4.042+1	-1.669+1
2060	6.885	-3.434+1	6.115	1.458+1	4.045+1	-1.665+1
2070	6.886	-3.437+1	6.119	1.454+1	4.049+1	-1.661+1
2080	6.887	-3.440+1	6.122	1.450+1	4.052+1	-1.657+1
2090	6.888	-3.443+1	6.126	1.447+1	4.055+1	-1.653+1

SPECIE 03

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	6.889	-3.446+1	6.130	1.443+1	4.059+1	-1.649+1
2110	6.890	-3.449+1	6.133	1.439+1	4.062+1	-1.645+1
2120	6.891	-3.451+1	6.137	1.436+1	4.065+1	-1.641+1
2130	6.892	-3.454+1	6.140	1.432+1	4.068+1	-1.638+1
2140	6.893	-3.457+1	6.144	1.429+1	4.072+1	-1.634+1
2150	6.894	-3.460+1	6.147	1.425+1	4.075+1	-1.630+1
2160	6.895	-3.463+1	6.151	1.422+1	4.078+1	-1.626+1
2170	6.896	-3.466+1	6.154	1.419+1	4.081+1	-1.623+1
2180	6.897	-3.469+1	6.158	1.415+1	4.084+1	-1.619+1
2190	6.898	-3.471+1	6.161	1.412+1	4.088+1	-1.615+1
2200	6.899	-3.474+1	6.165	1.409+1	4.091+1	-1.612+1
2210	6.900	-3.477+1	6.168	1.406+1	4.094+1	-1.608+1
2220	6.901	-3.480+1	6.171	1.402+1	4.097+1	-1.604+1
2230	6.902	-3.483+1	6.175	1.399+1	4.100+1	-1.601+1
2240	6.903	-3.485+1	6.178	1.396+1	4.103+1	-1.598+1
2250	6.904	-3.488+1	6.181	1.393+1	4.106+1	-1.594+1
2260	6.905	-3.491+1	6.184	1.390+1	4.109+1	-1.591+1
2270	6.906	-3.494+1	6.187	1.387+1	4.112+1	-1.587+1
2280	6.907	-3.496+1	6.191	1.384+1	4.115+1	-1.584+1
2290	6.908	-3.499+1	6.194	1.381+1	4.118+1	-1.581+1
2300	6.909	-3.502+1	6.197	1.378+1	4.121+1	-1.577+1
2310	6.909	-3.504+1	6.200	1.375+1	4.124+1	-1.574+1
2320	6.910	-3.507+1	6.203	1.372+1	4.127+1	-1.571+1
2330	6.911	-3.510+1	6.206	1.369+1	4.130+1	-1.568+1
2340	6.912	-3.512+1	6.209	1.366+1	4.133+1	-1.564+1
2350	6.912	-3.515+1	6.212	1.363+1	4.136+1	-1.561+1
2360	6.913	-3.518+1	6.215	1.360+1	4.139+1	-1.558+1
2370	6.913	-3.520+1	6.218	1.357+1	4.142+1	-1.555+1
2380	6.913	-3.523+1	6.221	1.354+1	4.145+1	-1.552+1
2390	6.914	-3.526+1	6.224	1.352+1	4.148+1	-1.549+1
2400	6.914	-3.528+1	6.227	1.349+1	4.151+1	-1.546+1
2410	6.915	-3.531+1	6.230	1.346+1	4.154+1	-1.543+1
2420	6.915	-3.533+1	6.232	1.344+1	4.157+1	-1.540+1
2430	6.916	-3.536+1	6.235	1.341+1	4.159+1	-1.537+1
2440	6.916	-3.538+1	6.238	1.338+1	4.162+1	-1.534+1
2450	6.917	-3.541+1	6.241	1.336+1	4.165+1	-1.531+1
2460	6.917	-3.544+1	6.244	1.333+1	4.168+1	-1.528+1
2470	6.918	-3.546+1	6.246	1.330+1	4.171+1	-1.525+1
2480	6.918	-3.549+1	6.249	1.328+1	4.174+1	-1.522+1
2490	6.919	-3.551+1	6.252	1.325+1	4.176+1	-1.520+1
2500	6.919	-3.554+1	6.254	1.323+1	4.179+1	-1.517+1
2510	6.920	-3.556+1	6.257	1.320+1	4.182+1	-1.514+1
2520	6.920	-3.559+1	6.260	1.318+1	4.185+1	-1.511+1
2530	6.921	-3.561+1	6.262	1.315+1	4.187+1	-1.509+1
2540	6.921	-3.564+1	6.265	1.313+1	4.190+1	-1.506+1
2550	6.922	-3.566+1	6.267	1.310+1	4.193+1	-1.503+1
2560	6.922	-3.569+1	6.270	1.308+1	4.196+1	-1.501+1
2570	6.923	-3.571+1	6.273	1.305+1	4.198+1	-1.498+1
2580	6.923	-3.573+1	6.275	1.303+1	4.201+1	-1.495+1
2590	6.924	-3.576+1	6.278	1.301+1	4.204+1	-1.493+1

SPECIE 03

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	6.924	-3.578+1	6.280	1.298+1	4.206+1	-1.490+1
2610	6.925	-3.581+1	6.283	1.296+1	4.209+1	-1.488+1
2620	6.925	-3.583+1	6.285	1.294+1	4.212+1	-1.485+1
2630	6.926	-3.585+1	6.288	1.292+1	4.214+1	-1.482+1
2640	6.926	-3.588+1	6.290	1.289+1	4.217+1	-1.480+1
2650	6.927	-3.590+1	6.292	1.287+1	4.219+1	-1.478+1
2660	6.927	-3.593+1	6.295	1.285+1	4.222+1	-1.475+1
2670	6.928	-3.595+1	6.297	1.283+1	4.225+1	-1.473+1
2680	6.928	-3.597+1	6.300	1.280+1	4.227+1	-1.470+1
2690	6.929	-3.600+1	6.302	1.278+1	4.230+1	-1.468+1
2700	6.929	-3.602+1	6.304	1.276+1	4.232+1	-1.465+1
2710	6.930	-3.604+1	6.307	1.274+1	4.235+1	-1.463+1
2720	6.930	-3.607+1	6.309	1.272+1	4.238+1	-1.461+1
2730	6.931	-3.609+1	6.311	1.270+1	4.240+1	-1.458+1
2740	6.931	-3.611+1	6.314	1.267+1	4.243+1	-1.456+1
2750	6.932	-3.614+1	6.316	1.265+1	4.245+1	-1.454+1
2760	6.932	-3.616+1	6.318	1.263+1	4.248+1	-1.451+1
2770	6.933	-3.618+1	6.320	1.261+1	4.250+1	-1.449+1
2780	6.933	-3.620+1	6.322	1.259+1	4.253+1	-1.447+1
2790	6.934	-3.623+1	6.325	1.257+1	4.255+1	-1.445+1
2800	6.934	-3.625+1	6.327	1.255+1	4.258+1	-1.443+1
2810	6.935	-3.627+1	6.329	1.253+1	4.260+1	-1.440+1
2820	6.935	-3.629+1	6.331	1.251+1	4.263+1	-1.438+1
2830	6.936	-3.632+1	6.333	1.249+1	4.265+1	-1.436+1
2840	6.936	-3.634+1	6.335	1.247+1	4.267+1	-1.434+1
2850	6.937	-3.636+1	6.338	1.245+1	4.270+1	-1.432+1
2860	6.937	-3.638+1	6.340	1.243+1	4.272+1	-1.430+1
2870	6.938	-3.641+1	6.342	1.242+1	4.275+1	-1.427+1
2880	6.938	-3.643+1	6.344	1.240+1	4.277+1	-1.425+1
2890	6.939	-3.645+1	6.346	1.238+1	4.280+1	-1.423+1
2900	6.939	-3.647+1	6.348	1.236+1	4.282+1	-1.421+1
2910	6.940	-3.649+1	6.350	1.234+1	4.284+1	-1.419+1
2920	6.940	-3.652+1	6.352	1.232+1	4.287+1	-1.417+1
2930	6.941	-3.654+1	6.354	1.230+1	4.289+1	-1.415+1
2940	6.941	-3.656+1	6.356	1.228+1	4.292+1	-1.413+1
2950	6.942	-3.658+1	6.358	1.227+1	4.294+1	-1.411+1
2960	6.942	-3.660+1	6.360	1.225+1	4.296+1	-1.409+1
2970	6.943	-3.662+1	6.362	1.223+1	4.299+1	-1.407+1
2980	6.943	-3.664+1	6.364	1.221+1	4.301+1	-1.405+1
2990	6.944	-3.667+1	6.366	1.220+1	4.303+1	-1.403+1
3000	6.944	-3.669+1	6.368	1.218+1	4.306+1	-1.401+1
3010	6.944	-3.671+1	6.370	1.216+1	4.308+1	-1.399+1
3020	6.944	-3.673+1	6.372	1.214+1	4.310+1	-1.398+1
3030	6.945	-3.675+1	6.374	1.213+1	4.312+1	-1.396+1
3040	6.945	-3.677+1	6.376	1.211+1	4.315+1	-1.394+1
3050	6.945	-3.679+1	6.378	1.209+1	4.317+1	-1.392+1
3060	6.945	-3.681+1	6.379	1.208+1	4.319+1	-1.390+1
3070	6.945	-3.683+1	6.381	1.206+1	4.322+1	-1.388+1
3080	6.946	-3.686+1	6.383	1.204+1	4.324+1	-1.386+1
3090	6.946	-3.688+1	6.385	1.203+1	4.326+1	-1.385+1

SPECIE 03

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	6.945	-3.690+1	6.387	1.201+1	4.328+1	-1.383+1
3110	6.946	-3.692+1	6.389	1.199+1	4.331+1	-1.381+1
3120	6.946	-3.694+1	6.390	1.198+1	4.333+1	-1.379+1
3130	6.946	-3.696+1	6.392	1.196+1	4.335+1	-1.377+1
3140	6.947	-3.698+1	6.394	1.194+1	4.337+1	-1.376+1
3150	6.947	-3.700+1	6.396	1.193+1	4.339+1	-1.374+1
3160	6.947	-3.702+1	6.397	1.191+1	4.342+1	-1.372+1
3170	6.948	-3.704+1	6.399	1.190+1	4.344+1	-1.370+1
3180	6.948	-3.706+1	6.401	1.188+1	4.346+1	-1.369+1
3190	6.949	-3.708+1	6.403	1.187+1	4.348+1	-1.367+1
3200	6.949	-3.710+1	6.404	1.185+1	4.350+1	-1.365+1
3210	6.949	-3.712+1	6.406	1.184+1	4.353+1	-1.364+1
3220	6.950	-3.714+1	6.408	1.182+1	4.355+1	-1.362+1
3230	6.950	-3.716+1	6.409	1.181+1	4.357+1	-1.360+1
3240	6.950	-3.718+1	6.411	1.179+1	4.359+1	-1.359+1
3250	6.951	-3.720+1	6.413	1.178+1	4.361+1	-1.357+1
3260	6.951	-3.722+1	6.414	1.176+1	4.363+1	-1.355+1
3270	6.951	-3.724+1	6.416	1.175+1	4.365+1	-1.354+1
3280	6.951	-3.726+1	6.418	1.173+1	4.368+1	-1.352+1
3290	6.951	-3.728+1	6.419	1.172+1	4.370+1	-1.351+1
3300	6.951	-3.730+1	6.421	1.170+1	4.372+1	-1.349+1
3310	6.952	-3.732+1	6.423	1.169+1	4.374+1	-1.348+1
3320	6.952	-3.734+1	6.424	1.167+1	4.376+1	-1.346+1
3330	6.952	-3.736+1	6.426	1.166+1	4.378+1	-1.344+1
3340	6.953	-3.737+1	6.427	1.165+1	4.380+1	-1.343+1
3350	6.953	-3.739+1	6.429	1.163+1	4.382+1	-1.341+1
3360	6.953	-3.741+1	6.431	1.162+1	4.384+1	-1.340+1
3370	6.953	-3.743+1	6.432	1.160+1	4.386+1	-1.338+1
3380	6.954	-3.745+1	6.434	1.159+1	4.388+1	-1.337+1
3390	6.954	-3.747+1	6.435	1.158+1	4.391+1	-1.335+1
3400	6.954	-3.749+1	6.437	1.156+1	4.393+1	-1.334+1
3410	6.954	-3.751+1	6.438	1.155+1	4.395+1	-1.332+1
3420	6.955	-3.753+1	6.440	1.154+1	4.397+1	-1.331+1
3430	6.955	-3.755+1	6.441	1.152+1	4.399+1	-1.329+1
3440	6.955	-3.756+1	6.443	1.151+1	4.401+1	-1.328+1
3450	6.955	-3.758+1	6.444	1.150+1	4.403+1	-1.327+1
3460	6.955	-3.760+1	6.446	1.148+1	4.405+1	-1.325+1
3470	6.956	-3.762+1	6.447	1.147+1	4.407+1	-1.324+1
3480	6.956	-3.764+1	6.449	1.146+1	4.409+1	-1.322+1
3490	6.956	-3.766+1	6.450	1.144+1	4.411+1	-1.321+1
3500	6.956	-3.768+1	6.452	1.143+1	4.413+1	-1.319+1
3510	6.956	-3.769+1	6.453	1.142+1	4.415+1	-1.318+1
3520	6.956	-3.771+1	6.454	1.141+1	4.417+1	-1.317+1
3530	6.957	-3.773+1	6.456	1.139+1	4.419+1	-1.315+1
3540	6.957	-3.775+1	6.457	1.138+1	4.421+1	-1.314+1
3550	6.957	-3.777+1	6.459	1.137+1	4.423+1	-1.313+1
3560	6.957	-3.779+1	6.460	1.136+1	4.425+1	-1.311+1
3570	6.957	-3.780+1	6.462	1.134+1	4.427+1	-1.310+1
3580	6.958	-3.782+1	6.463	1.133+1	4.428+1	-1.309+1
3590	6.958	-3.784+1	6.464	1.132+1	4.430+1	-1.307+1

SPECIE 03

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	6.958	-3.786+1	6.466	1.131+1	4.432+1	-1.306+1
3610	6.958	-3.788+1	6.467	1.130+1	4.434+1	-1.305+1
3620	6.958	-3.789+1	6.469	1.128+1	4.436+1	-1.303+1
3630	6.959	-3.791+1	6.470	1.127+1	4.438+1	-1.302+1
3640	6.959	-3.793+1	6.471	1.126+1	4.440+1	-1.301+1
3650	6.959	-3.795+1	6.473	1.125+1	4.442+1	-1.299+1
3660	6.959	-3.796+1	6.474	1.124+1	4.444+1	-1.298+1
3670	6.959	-3.798+1	6.475	1.122+1	4.446+1	-1.297+1
3680	6.960	-3.800+1	6.477	1.121+1	4.448+1	-1.296+1
3690	6.960	-3.802+1	6.478	1.120+1	4.450+1	-1.294+1
3700	6.960	-3.803+1	6.479	1.119+1	4.451+1	-1.293+1
3710	6.960	-3.805+1	6.481	1.118+1	4.453+1	-1.292+1
3720	6.960	-3.807+1	6.482	1.117+1	4.455+1	-1.291+1
3730	6.961	-3.809+1	6.483	1.116+1	4.457+1	-1.289+1
3740	6.961	-3.810+1	6.484	1.115+1	4.459+1	-1.288+1
3750	6.961	-3.812+1	6.486	1.113+1	4.461+1	-1.287+1
3760	6.961	-3.814+1	6.487	1.112+1	4.463+1	-1.286+1
3770	6.961	-3.816+1	6.488	1.111+1	4.464+1	-1.285+1
3780	6.962	-3.817+1	6.490	1.110+1	4.466+1	-1.283+1
3790	6.962	-3.819+1	6.491	1.109+1	4.468+1	-1.282+1
3800	6.962	-3.821+1	6.492	1.108+1	4.470+1	-1.281+1
3810	6.962	-3.823+1	6.493	1.107+1	4.472+1	-1.280+1
3820	6.962	-3.824+1	6.495	1.106+1	4.474+1	-1.279+1
3830	6.963	-3.826+1	6.496	1.105+1	4.475+1	-1.278+1
3840	6.963	-3.828+1	6.497	1.104+1	4.477+1	-1.276+1
3850	6.963	-3.829+1	6.498	1.103+1	4.479+1	-1.275+1
3860	6.963	-3.831+1	6.499	1.102+1	4.481+1	-1.274+1
3870	6.964	-3.833+1	6.501	1.100+1	4.483+1	-1.273+1
3880	6.964	-3.834+1	6.502	1.099+1	4.485+1	-1.272+1
3890	6.964	-3.836+1	6.503	1.098+1	4.486+1	-1.271+1
3900	6.964	-3.838+1	6.504	1.097+1	4.488+1	-1.270+1
3910	6.964	-3.839+1	6.505	1.096+1	4.490+1	-1.268+1
3920	6.964	-3.841+1	6.507	1.095+1	4.492+1	-1.267+1
3930	6.965	-3.843+1	6.508	1.094+1	4.493+1	-1.266+1
3940	6.965	-3.844+1	6.509	1.093+1	4.495+1	-1.265+1
3950	6.965	-3.846+1	6.510	1.092+1	4.497+1	-1.264+1
3960	6.965	-3.848+1	6.511	1.091+1	4.499+1	-1.263+1
3970	6.965	-3.849+1	6.512	1.090+1	4.500+1	-1.262+1
3980	6.965	-3.851+1	6.514	1.089+1	4.502+1	-1.261+1
3990	6.965	-3.853+1	6.515	1.088+1	4.504+1	-1.260+1
4000	6.965	-3.854+1	6.516	1.087+1	4.506+1	-1.259+1
4010	6.965	-3.856+1	6.517	1.086+1	4.507+1	-1.258+1
4020	6.965	-3.857+1	6.518	1.085+1	4.509+1	-1.257+1
4030	6.965	-3.859+1	6.519	1.084+1	4.511+1	-1.256+1
4040	6.965	-3.861+1	6.520	1.083+1	4.513+1	-1.255+1
4050	6.966	-3.862+1	6.521	1.083+1	4.514+1	-1.254+1
4060	6.966	-3.864+1	6.523	1.082+1	4.516+1	-1.253+1
4070	6.966	-3.865+1	6.524	1.081+1	4.518+1	-1.252+1
4080	6.966	-3.867+1	6.525	1.080+1	4.520+1	-1.250+1
4090	6.966	-3.869+1	6.526	1.079+1	4.521+1	-1.249+1

SPECIE 03

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	6.966	-3.870+1	6.527	1.078+1	4.523+1	-1.249+1
4110	6.966	-3.872+1	6.528	1.077+1	4.525+1	-1.247+1
4120	6.966	-3.873+1	6.529	1.076+1	4.526+1	-1.246+1
4130	6.967	-3.875+1	6.530	1.075+1	4.528+1	-1.246+1
4140	6.967	-3.877+1	6.531	1.074+1	4.530+1	-1.245+1
4150	6.967	-3.878+1	6.532	1.073+1	4.531+1	-1.244+1
4160	6.967	-3.880+1	6.533	1.072+1	4.533+1	-1.243+1
4170	6.967	-3.881+1	6.534	1.071+1	4.535+1	-1.242+1
4180	6.967	-3.883+1	6.535	1.071+1	4.536+1	-1.241+1
4190	6.967	-3.884+1	6.536	1.070+1	4.538+1	-1.240+1
4200	6.967	-3.886+1	6.538	1.069+1	4.540+1	-1.239+1
4210	6.968	-3.888+1	6.539	1.068+1	4.277+1	-1.238+1
4220	6.968	-3.889+1	6.540	1.067+1	3.966+1	-1.237+1
4230	6.968	-3.891+1	6.541	1.066+1	3.610+1	-1.236+1
4240	6.968	-3.892+1	6.542	1.065+1	3.215+1	-1.235+1
4250	6.968	-3.894+1	6.543	1.064+1	2.787+1	-1.234+1
4260	6.968	-3.895+1	6.544	1.064+1	2.333+1	-1.233+1
4270	6.968	-3.897+1	6.545	1.063+1	1.862+1	-1.232+1
4280	6.968	-3.898+1	6.546	1.062+1	1.385+1	-1.231+1
4290	6.968	-3.900+1	6.547	1.061+1	9.117	-1.230+1
4300	6.968	-3.901+1	6.548	1.060+1	4.557	-1.229+1
4310	6.969	-3.903+1	6.549	1.059+1	2.433	-1.229+1
4320	6.969	-3.904+1	6.550	1.058+1	8.324-1	-1.228+1
4330	6.969	-3.906+1	6.551	1.058+1	-2.418-1	-1.227+1
4340	6.969	-3.907+1	6.552	1.057+1	-7.999-1	-1.226+1
4350	6.969	-3.909+1	6.553	1.056+1	-8.643-1	-1.225+1
4360	6.969	-3.910+1	6.554	1.055+1	-4.698-1	-1.224+1
4370	6.969	-3.912+1	6.555	1.054+1	3.366-1	-1.223+1
4380	6.969	-3.913+1	6.555	1.053+1	1.496	-1.222+1
4390	6.969	-3.915+1	6.556	1.053+1	2.936	-1.221+1
4400	6.969	-3.916+1	6.557	1.052+1	4.573	-1.221+1
4410	6.969	-3.918+1	6.558	1.051+1	4.575	-1.220+1
4420	6.969	-3.919+1	6.559	1.050+1	4.577	-1.219+1
4430	6.969	-3.921+1	6.560	1.049+1	4.578	-1.218+1
4440	6.970	-3.922+1	6.561	1.048+1	4.580	-1.217+1
4450	6.970	-3.924+1	6.562	1.047+1	4.582	-1.216+1
4460	6.970	-3.925+1	6.563	1.046+1	4.583	-1.216+1
4470	6.970	-3.927+1	6.564	1.045+1	4.585	-1.215+1
4480	6.970	-3.928+1	6.565	1.044+1	4.587	-1.214+1
4490	6.970	-3.930+1	6.566	1.043+1	4.588	-1.213+1
4500	6.970	-3.931+1	6.567	1.042+1	4.590	-1.212+1
4510	6.970	-3.933+1	6.568	1.041+1	7.627	-1.211+1
4520	6.970	-3.934+1	6.569	1.040+1	1.117+1	-1.211+1
4530	6.970	-3.936+1	6.570	1.039+1	1.514+1	-1.210+1
4540	6.970	-3.937+1	6.571	1.038+1	1.947+1	-1.209+1
4550	6.970	-3.939+1	6.572	1.037+1	2.405+1	-1.208+1
4560	6.971	-3.940+1	6.573	1.036+1	2.877+1	-1.207+1
4570	6.971	-3.942+1	6.574	1.035+1	3.349+1	-1.206+1
4580	6.971	-3.943+1	6.575	1.034+1	3.807+1	-1.205+1
4590	6.971	-3.945+1	6.576	1.033+1	4.233+1	-1.204+1

SPECIE 03

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	6.971	-3.946+1	6.577	1.032+1	4.611+1	-1.203+1
4610	6.971	-3.948+1	6.577	1.031+1	4.523+1	-1.203+1
4620	6.971	-3.950+1	6.577	1.030+1	4.332+1	-1.202+1
4630	6.971	-3.951+1	6.576	1.029+1	4.043+1	-1.201+1
4640	6.971	-3.953+1	6.576	1.028+1	3.668+1	-1.200+1
4650	6.971	-3.954+1	6.575	1.027+1	3.216+1	-1.199+1
4660	6.971	-3.956+1	6.573	1.026+1	2.705+1	-1.198+1
4670	6.971	-3.958+1	6.572	1.025+1	2.151+1	-1.197+1
4680	6.971	-3.959+1	6.570	1.024+1	1.577+1	-1.196+1
4690	6.971	-3.961+1	6.568	1.023+1	1.004+1	-1.195+1
4700	6.971	-3.963+1	6.566	1.022+1	4.618	-1.194+1
4710	6.972	-3.965+1	6.563	1.021+1	4.823	-1.193+1
4720	6.972	-3.966+1	6.560	1.020+1	6.106	-1.192+1
4730	6.972	-3.968+1	6.556	1.019+1	8.444	-1.191+1
4740	6.972	-3.969+1	6.553	1.018+1	1.178+1	-1.190+1
4750	6.972	-3.971+1	6.549	1.017+1	1.605+1	-1.189+1
4760	6.972	-3.972+1	6.545	1.016+1	2.112+1	-1.188+1
4770	6.972	-3.974+1	6.540	1.015+1	2.687+1	-1.187+1
4780	6.972	-3.976+1	6.535	1.014+1	3.312+1	-1.186+1
4790	6.972	-3.977+1	6.530	1.013+1	3.968+1	-1.185+1
4800	6.972	-3.979+1	6.525	1.012+1	4.631+1	-1.184+1
4810	6.972	-3.980+1	6.521	1.011+1	4.881+1	-1.183+1
4820	6.972	-3.982+1	6.516	1.010+1	5.073+1	-1.182+1
4830	6.972	-3.983+1	6.510	1.009+1	5.203+1	-1.182+1
4840	6.972	-3.985+1	6.505	1.008+1	5.274+1	-1.181+1
4850	6.972	-3.986+1	6.500	1.007+1	5.286+1	-1.180+1
4860	6.972	-3.988+1	6.494	1.006+1	5.243+1	-1.179+1
4870	6.972	-3.990+1	6.489	1.005+1	5.149+1	-1.178+1
4880	6.972	-3.991+1	6.484	1.004+1	5.012+1	-1.177+1
4890	6.972	-3.993+1	6.479	1.002+1	4.839+1	-1.176+1
4900	6.972	-3.994+1	6.473	1.001+1	4.641+1	-1.175+1
4910	6.973	-3.996+1	6.468	1.000+1	4.642+1	-1.175+1
4920	6.973	-3.997+1	6.463	9.992	4.643+1	-1.174+1
4930	6.973	-3.999+1	6.458	9.982	4.644+1	-1.173+1
4940	6.973	-4.000+1	6.453	9.971	4.645+1	-1.172+1
4950	6.973	-4.002+1	6.448	9.960	4.646+1	-1.171+1
4960	6.973	-4.003+1	6.443	9.949	4.647+1	-1.170+1
4970	6.973	-4.005+1	6.438	9.938	4.648+1	-1.170+1
4980	6.973	-4.006+1	6.434	9.927	4.649+1	-1.169+1
4990	6.973	-4.008+1	6.429	9.916	4.650+1	-1.168+1
5000	6.973	-4.009+1	6.424	9.905	4.651+1	-1.167+1
5010	6.973	-4.011+1	6.419	9.893	4.652+1	-1.166+1
5020	6.973	-4.012+1	6.414	9.882	4.653+1	-1.166+1
5030	6.973	-4.014+1	6.409	9.870	4.654+1	-1.165+1
5040	6.973	-4.016+1	6.404	9.858	4.655+1	-1.164+1
5050	6.973	-4.017+1	6.399	9.847	4.657+1	-1.163+1
5060	6.973	-4.019+1	6.395	9.835	4.658+1	-1.162+1
5070	6.973	-4.021+1	6.390	9.823	4.659+1	-1.162+1
5080	6.973	-4.022+1	6.385	9.811	4.660+1	-1.161+1
5090	6.973	-4.024+1	6.380	9.798	4.661+1	-1.160+1

SPECIE 03

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	6.973	-4.026+1	6.375	9.786	4.663+1	-1.159+1
5110	6.974	-4.027+1	6.370	9.775	4.663+1	-1.158+1
5120	6.974	-4.029+1	6.365	9.763	4.664+1	-1.158+1
5130	6.974	-4.030+1	6.360	9.752	4.665+1	-1.157+1
5140	6.974	-4.031+1	6.355	9.740	4.666+1	-1.156+1
5150	6.974	-4.032+1	6.350	9.729	4.667+1	-1.155+1
5160	6.974	-4.034+1	6.346	9.717	4.668+1	-1.155+1
5170	6.974	-4.035+1	6.341	9.706	4.668+1	-1.154+1
5180	6.974	-4.036+1	6.336	9.695	4.669+1	-1.153+1
5190	6.974	-4.037+1	6.331	9.684	4.670+1	-1.152+1
5200	6.974	-4.038+1	6.326	9.673	4.670+1	-1.152+1
5210	6.974	-4.039+1	6.321	9.661	4.671+1	-1.151+1
5220	6.974	-4.041+1	6.316	9.650	4.672+1	-1.150+1
5230	6.974	-4.042+1	6.311	9.639	4.673+1	-1.150+1
5240	6.974	-4.043+1	6.306	9.628	4.674+1	-1.149+1
5250	6.974	-4.045+1	6.300	9.617	4.675+1	-1.148+1
5260	6.974	-4.046+1	6.295	9.607	4.676+1	-1.147+1
5270	6.974	-4.048+1	6.290	9.596	4.677+1	-1.147+1
5280	6.974	-4.049+1	6.285	9.585	4.677+1	-1.146+1
5290	6.974	-4.051+1	6.279	9.574	4.678+1	-1.145+1
5300	6.974	-4.052+1	6.274	9.563	4.679+1	-1.145+1
5310	6.974	-4.053+1	6.269	9.553	4.680+1	-1.144+1
5320	6.974	-4.055+1	6.265	9.542	4.681+1	-1.143+1
5330	6.974	-4.056+1	6.260	9.531	4.682+1	-1.143+1
5340	6.974	-4.058+1	6.256	9.521	4.683+1	-1.142+1
5350	6.974	-4.059+1	6.251	9.510	4.684+1	-1.141+1
5360	6.974	-4.060+1	6.247	9.500	4.685+1	-1.141+1
5370	6.974	-4.062+1	6.242	9.489	4.686+1	-1.140+1
5380	6.974	-4.063+1	6.238	9.479	4.687+1	-1.139+1
5390	6.974	-4.064+1	6.234	9.469	4.688+1	-1.139+1
5400	6.974	-4.065+1	6.230	9.458	4.688+1	-1.138+1
5410	6.974	-4.067+1	6.226	9.448	4.689+1	-1.137+1
5420	6.974	-4.068+1	6.221	9.438	4.690+1	-1.137+1
5430	6.974	-4.069+1	6.217	9.428	4.691+1	-1.136+1
5440	6.974	-4.071+1	6.213	9.417	4.692+1	-1.135+1
5450	6.974	-4.072+1	6.209	9.407	4.693+1	-1.135+1
5460	6.974	-4.073+1	6.204	9.397	4.694+1	-1.134+1
5470	6.974	-4.075+1	6.200	9.387	4.695+1	-1.133+1
5480	6.974	-4.076+1	6.196	9.377	4.696+1	-1.133+1
5490	6.974	-4.077+1	6.192	9.367	4.697+1	-1.132+1
5500	6.974	-4.079+1	6.188	9.357	4.698+1	-1.132+1
5510	6.974	-4.080+1	6.184	9.347	4.698+1	-1.131+1
5520	6.974	-4.081+1	6.179	9.337	4.699+1	-1.130+1
5530	6.974	-4.083+1	6.175	9.328	4.700+1	-1.130+1
5540	6.974	-4.084+1	6.171	9.318	4.701+1	-1.129+1
5550	6.974	-4.085+1	6.167	9.308	4.702+1	-1.128+1
5560	6.974	-4.087+1	6.163	9.298	4.703+1	-1.128+1
5570	6.974	-4.088+1	6.159	9.289	4.704+1	-1.127+1
5580	6.974	-4.089+1	6.155	9.279	4.705+1	-1.127+1
5590	6.974	-4.090+1	6.151	9.269	4.706+1	-1.126+1

SPECIE 03

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	6.974	-4.092+1	6.147	9.260	4.706+1	-1.125+1
5610	6.974	-4.093+1	6.143	9.250	4.707+1	-1.125+1
5620	6.974	-4.094+1	6.139	9.241	4.708+1	-1.124+1
5630	6.974	-4.096+1	6.135	9.231	4.709+1	-1.124+1
5640	6.974	-4.097+1	6.131	9.222	4.710+1	-1.123+1
5650	6.974	-4.098+1	6.127	9.213	4.711+1	-1.122+1
5660	6.974	-4.099+1	6.124	9.203	4.712+1	-1.122+1
5670	6.974	-4.101+1	6.120	9.194	4.713+1	-1.121+1
5680	6.974	-4.102+1	6.116	9.185	4.713+1	-1.121+1
5690	6.974	-4.103+1	6.112	9.175	4.714+1	-1.120+1
5700	6.974	-4.104+1	6.108	9.166	4.715+1	-1.120+1
5710	6.974	-4.106+1	6.104	9.157	4.716+1	-1.119+1
5720	6.974	-4.107+1	6.100	9.148	4.717+1	-1.118+1
5730	6.974	-4.108+1	6.096	9.139	4.718+1	-1.118+1
5740	6.974	-4.109+1	6.093	9.129	4.719+1	-1.117+1
5750	6.974	-4.111+1	6.089	9.120	4.719+1	-1.117+1
5760	6.974	-4.112+1	6.085	9.111	4.720+1	-1.116+1
5770	6.974	-4.113+1	6.082	9.102	4.721+1	-1.116+1
5780	6.974	-4.114+1	6.078	9.093	4.722+1	-1.115+1
5790	6.974	-4.116+1	6.074	9.085	4.723+1	-1.115+1
5800	6.974	-4.117+1	6.071	9.076	4.724+1	-1.114+1
5810	6.974	-4.118+1	6.067	9.067	4.725+1	-1.113+1
5820	6.974	-4.119+1	6.063	9.058	4.725+1	-1.113+1
5830	6.974	-4.120+1	6.059	9.049	4.726+1	-1.112+1
5840	6.974	-4.122+1	6.056	9.040	4.727+1	-1.112+1
5850	6.974	-4.123+1	6.052	9.032	4.728+1	-1.111+1
5860	6.974	-4.124+1	6.048	9.023	4.729+1	-1.111+1
5870	6.974	-4.125+1	6.045	9.014	4.730+1	-1.110+1
5880	6.974	-4.126+1	6.041	9.006	4.730+1	-1.110+1
5890	6.974	-4.128+1	6.037	8.997	4.731+1	-1.109+1
5900	6.974	-4.129+1	6.034	8.988	4.732+1	-1.109+1
5910	6.974	-4.130+1	6.030	8.980	4.733+1	-1.108+1
5920	6.974	-4.131+1	6.026	8.971	4.734+1	-1.108+1
5930	6.974	-4.132+1	6.023	8.963	4.735+1	-1.107+1
5940	6.974	-4.133+1	6.019	8.954	4.735+1	-1.107+1
5950	6.974	-4.135+1	6.016	8.946	4.736+1	-1.106+1
5960	6.974	-4.136+1	6.012	8.938	4.737+1	-1.106+1
5970	6.974	-4.137+1	6.009	8.929	4.738+1	-1.105+1
5980	6.974	-4.138+1	6.006	8.921	4.739+1	-1.105+1
5990	6.974	-4.139+1	6.002	8.912	4.740+1	-1.104+1
6000	6.974	-4.140+1	5.999	8.904	4.740+1	-1.104+1

SPECIE OH

MOLECULAR WEIGHT EQUALS 17.0080

DELTA E ZERO EQUALS 9.301 (KCAL/MOL)

REFERENCES

DELTA E ZERO

(R. F. BARROW, ARKIV, FYSIK, 1956) (1)

THERMAL

(J. S. GORDON WADC TR 57-33, 1/57) (4)

SPECIE OH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
100	3.713	-1.591+1	3.556	5.036+1	1.947+1	-4.446+1
110	3.705	-1.807+1	3.556	4.679+1	1.963+1	-4.096+1
120	3.697	-1.623+1	3.556	4.356+1	1.979+1	-3.779+1
130	3.690	-1.639+1	3.555	4.063+1	1.994+1	-3.492+1
140	3.683	-1.654+1	3.555	3.799+1	2.009+1	-3.233+1
150	3.676	-1.668+1	3.555	3.561+1	2.024+1	-3.000+1
160	3.669	-1.682+1	3.555	3.348+1	2.038+1	-2.790+1
170	3.663	-1.696+1	3.555	3.156+1	2.052+1	-2.603+1
180	3.657	-1.710+1	3.554	2.985+1	2.065+1	-2.435+1
190	3.651	-1.723+1	3.554	2.832+1	2.078+1	-2.284+1
200	3.645	-1.736+1	3.554	2.696+1	2.092+1	-2.150+1
210	3.639	-1.749+1	3.554	2.574+1	2.104+1	-2.031+1
220	3.633	-1.762+1	3.555	2.466+1	2.117+1	-1.924+1
230	3.628	-1.774+1	3.555	2.369+1	2.129+1	-1.829+1
240	3.623	-1.786+1	3.555	2.283+1	2.141+1	-1.744+1
250	3.618	-1.798+1	3.555	2.206+1	2.153+1	-1.668+1
260	3.613	-1.810+1	3.555	2.136+1	2.165+1	-1.599+1
270	3.608	-1.821+1	3.555	2.074+1	2.177+1	-1.537+1
280	3.604	-1.833+1	3.555	2.016+1	2.188+1	-1.480+1
290	3.600	-1.844+1	3.555	1.964+1	2.200+1	-1.428+1
300	3.595	-1.855+1	3.555	1.916+1	2.211+1	-1.380+1
310	3.591	-1.866+1	3.556	1.864+1	2.222+1	-1.328+1
320	3.587	-1.877+1	3.556	1.816+1	2.233+1	-1.280+1
330	3.583	-1.888+1	3.556	1.772+1	2.243+1	-1.235+1
340	3.580	-1.898+1	3.557	1.730+1	2.254+1	-1.193+1
350	3.576	-1.909+1	3.557	1.690+1	2.265+1	-1.153+1
360	3.573	-1.919+1	3.558	1.654+1	2.275+1	-1.116+1
370	3.570	-1.929+1	3.558	1.619+1	2.285+1	-1.081+1
380	3.567	-1.939+1	3.559	1.586+1	2.294+1	-1.048+1
390	3.564	-1.948+1	3.559	1.555+1	2.304+1	-1.017+1
400	3.561	-1.957+1	3.560	1.526+1	2.313+1	-9.871
410	3.559	-1.966+1	3.560	1.498+1	2.322+1	-9.589
420	3.557	-1.975+1	3.559	1.472+1	2.331+1	-9.320
430	3.555	-1.983+1	3.559	1.446+1	2.340+1	-9.062
440	3.554	-1.992+1	3.560	1.422+1	2.348+1	-8.816
450	3.552	-2.000+1	3.559	1.398+1	2.356+1	-8.579
460	3.551	-2.008+1	3.559	1.375+1	2.364+1	-8.351
470	3.550	-2.015+1	3.559	1.353+1	2.371+1	-8.131
480	3.549	-2.023+1	3.559	1.332+1	2.379+1	-7.918
490	3.548	-2.030+1	3.559	1.312+1	2.386+1	-7.713
500	3.548	-2.037+1	3.558	1.292+1	2.393+1	-7.515
510	3.548	-2.044+1	3.558	1.274+1	2.400+1	-7.331
520	3.548	-2.051+1	3.558	1.256+1	2.407+1	-7.155
530	3.547	-2.058+1	3.558	1.239+1	2.413+1	-6.985
540	3.547	-2.064+1	3.558	1.223+1	2.420+1	-6.821
550	3.547	-2.071+1	3.558	1.207+1	2.427+1	-6.663
560	3.547	-2.077+1	3.558	1.192+1	2.433+1	-6.510
570	3.547	-2.084+1	3.558	1.177+1	2.439+1	-6.362
580	3.548	-2.090+1	3.558	1.163+1	2.446+1	-6.219
590	3.549	-2.096+1	3.557	1.149+1	2.452+1	-6.080

SPECIE OH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
600	3.550	-2.102+1	3.557	1.136+1	2.458+1	-5.945
610	3.551	-2.108+1	3.557	1.123+1	2.463+1	-5.818
620	3.552	-2.113+1	3.557	1.111+1	2.469+1	-5.694
630	3.553	-2.119+1	3.557	1.099+1	2.475+1	-5.574
640	3.554	-2.125+1	3.557	1.087+1	2.480+1	-5.458
650	3.556	-2.130+1	3.557	1.076+1	2.486+1	-5.346
660	3.558	-2.136+1	3.557	1.065+1	2.491+1	-5.236
670	3.560	-2.141+1	3.556	1.054+1	2.497+1	-5.130
680	3.562	-2.146+1	3.556	1.044+1	2.502+1	-5.027
690	3.564	-2.151+1	3.556	1.034+1	2.507+1	-4.927
700	3.566	-2.157+1	3.556	1.024+1	2.512+1	-4.830
710	3.569	-2.162+1	3.556	1.015+1	2.517+1	-4.736
720	3.571	-2.167+1	3.556	1.006+1	2.522+1	-4.645
730	3.574	-2.172+1	3.557	9.968	2.527+1	-4.556
740	3.577	-2.176+1	3.557	9.882	2.532+1	-4.469
750	3.580	-2.181+1	3.557	9.798	2.537+1	-4.385
760	3.583	-2.186+1	3.558	9.716	2.542+1	-4.303
770	3.587	-2.191+1	3.558	9.637	2.546+1	-4.223
780	3.590	-2.195+1	3.558	9.559	2.551+1	-4.145
790	3.594	-2.200+1	3.559	9.484	2.556+1	-4.069
800	3.597	-2.204+1	3.559	9.410	2.560+1	-3.995
810	3.601	-2.209+1	3.560	9.338	2.565+1	-3.923
820	3.605	-2.213+1	3.560	9.268	2.569+1	-3.853
830	3.609	-2.217+1	3.561	9.200	2.573+1	-3.785
840	3.613	-2.222+1	3.562	9.134	2.578+1	-3.718
850	3.617	-2.226+1	3.562	9.069	2.582+1	-3.653
860	3.622	-2.230+1	3.563	9.006	2.586+1	-3.589
870	3.626	-2.234+1	3.564	8.944	2.590+1	-3.527
880	3.630	-2.238+1	3.564	8.883	2.595+1	-3.466
890	3.635	-2.242+1	3.565	8.824	2.599+1	-3.407
900	3.640	-2.246+1	3.566	8.766	2.603+1	-3.349
910	3.644	-2.250+1	3.567	8.710	2.607+1	-3.292
920	3.649	-2.254+1	3.568	8.655	2.611+1	-3.237
930	3.654	-2.258+1	3.569	8.601	2.615+1	-3.183
940	3.659	-2.262+1	3.569	8.549	2.619+1	-3.130
950	3.664	-2.265+1	3.570	8.497	2.622+1	-3.078
960	3.669	-2.269+1	3.572	8.447	2.626+1	-3.027
970	3.674	-2.273+1	3.573	8.398	2.630+1	-2.977
980	3.679	-2.277+1	3.574	8.350	2.634+1	-2.928
990	3.684	-2.280+1	3.575	8.303	2.638+1	-2.881
1000	3.689	-2.284+1	3.576	8.257	2.641+1	-2.834
1010	3.695	-2.287+1	3.577	8.211	2.645+1	-2.788
1020	3.700	-2.291+1	3.578	8.167	2.649+1	-2.744
1030	3.705	-2.294+1	3.580	8.124	2.652+1	-2.700
1040	3.711	-2.298+1	3.581	8.081	2.656+1	-2.657
1050	3.716	-2.301+1	3.582	8.039	2.659+1	-2.615
1060	3.722	-2.305+1	3.583	7.999	2.663+1	-2.574
1070	3.727	-2.308+1	3.585	7.959	2.666+1	-2.533
1080	3.733	-2.311+1	3.586	7.920	2.670+1	-2.493
1090	3.738	-2.315+1	3.587	7.881	2.673+1	-2.455

SPECIE OH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1100	3.744	-2.318+1	3.589	7.844	2.677+1	-2.416
1110	3.749	-2.321+1	3.590	7.807	2.680+1	-2.379
1120	3.755	-2.324+1	3.591	7.770	2.684+1	-2.342
1130	3.761	-2.328+1	3.593	7.735	2.687+1	-2.306
1140	3.766	-2.331+1	3.594	7.700	2.690+1	-2.270
1150	3.772	-2.334+1	3.596	7.666	2.693+1	-2.235
1160	3.777	-2.337+1	3.598	7.632	2.697+1	-2.201
1170	3.783	-2.340+1	3.599	7.600	2.700+1	-2.167
1180	3.789	-2.343+1	3.601	7.567	2.703+1	-2.134
1190	3.794	-2.346+1	3.602	7.536	2.706+1	-2.101
1200	3.800	-2.349+1	3.604	7.504	2.710+1	-2.069
1210	3.806	-2.352+1	3.606	7.474	2.713+1	-2.038
1220	3.811	-2.355+1	3.607	7.444	2.716+1	-2.006
1230	3.817	-2.358+1	3.609	7.414	2.719+1	-1.976
1240	3.823	-2.361+1	3.611	7.385	2.722+1	-1.946
1250	3.828	-2.364+1	3.612	7.357	2.725+1	-1.917
1260	3.834	-2.367+1	3.614	7.329	2.728+1	-1.888
1270	3.839	-2.370+1	3.616	7.301	2.731+1	-1.859
1280	3.845	-2.372+1	3.618	7.274	2.734+1	-1.831
1290	3.850	-2.375+1	3.620	7.248	2.737+1	-1.803
1300	3.856	-2.378+1	3.621	7.222	2.740+1	-1.776
1310	3.862	-2.381+1	3.623	7.196	2.743+1	-1.749
1320	3.867	-2.384+1	3.625	7.171	2.746+1	-1.723
1330	3.872	-2.386+1	3.627	7.146	2.749+1	-1.697
1340	3.878	-2.389+1	3.629	7.121	2.752+1	-1.672
1350	3.883	-2.392+1	3.630	7.097	2.755+1	-1.647
1360	3.889	-2.395+1	3.632	7.074	2.758+1	-1.622
1370	3.894	-2.397+1	3.634	7.051	2.761+1	-1.598
1380	3.900	-2.400+1	3.636	7.028	2.763+1	-1.574
1390	3.905	-2.402+1	3.638	7.005	2.766+1	-1.550
1400	3.910	-2.405+1	3.640	6.983	2.769+1	-1.527
1410	3.916	-2.408+1	3.642	6.961	2.772+1	-1.504
1420	3.921	-2.410+1	3.644	6.940	2.775+1	-1.481
1430	3.926	-2.413+1	3.646	6.919	2.777+1	-1.459
1440	3.931	-2.415+1	3.648	6.898	2.780+1	-1.437
1450	3.937	-2.418+1	3.650	6.878	2.783+1	-1.415
1460	3.942	-2.420+1	3.652	6.858	2.785+1	-1.394
1470	3.947	-2.423+1	3.654	6.838	2.788+1	-1.373
1480	3.952	-2.425+1	3.656	6.818	2.791+1	-1.352
1490	3.957	-2.428+1	3.658	6.799	2.794+1	-1.332
1500	3.962	-2.430+1	3.660	6.780	2.796+1	-1.311
1510	3.967	-2.433+1	3.662	6.762	2.799+1	-1.291
1520	3.972	-2.435+1	3.664	6.743	2.801+1	-1.272
1530	3.977	-2.437+1	3.666	6.725	2.804+1	-1.252
1540	3.982	-2.440+1	3.668	6.707	2.807+1	-1.233
1550	3.987	-2.442+1	3.670	6.690	2.809+1	-1.214
1560	3.992	-2.445+1	3.672	6.672	2.812+1	-1.195
1570	3.997	-2.447+1	3.674	6.655	2.814+1	-1.177
1580	4.002	-2.449+1	3.676	6.638	2.817+1	-1.159
1590	4.007	-2.452+1	3.678	6.622	2.819+1	-1.141

SPECIE OH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
1600	4.012	-2.454+1	3.680	6.605	2.822+1	-1.123
1610	4.016	-2.456+1	3.682	6.589	2.824+1	-1.105
1620	4.021	-2.458+1	3.684	6.574	2.827+1	-1.088
1630	4.026	-2.461+1	3.686	6.558	2.829+1	-1.071
1640	4.030	-2.463+1	3.689	6.542	2.832+1	-1.054
1650	4.035	-2.465+1	3.691	6.527	2.834+1	-1.038
1660	4.040	-2.467+1	3.693	6.512	2.837+1	-1.022
1670	4.044	-2.470+1	3.695	6.497	2.839+1	-1.005
1680	4.049	-2.472+1	3.697	6.483	2.842+1	-9.895-1
1690	4.053	-2.474+1	3.699	6.469	2.844+1	-9.738-1
1700	4.058	-2.476+1	3.701	6.454	2.846+1	-9.582-1
1710	4.062	-2.478+1	3.703	6.440	2.849+1	-9.428-1
1720	4.067	-2.481+1	3.705	6.427	2.851+1	-9.275-1
1730	4.071	-2.483+1	3.707	6.413	2.853+1	-9.124-1
1740	4.076	-2.485+1	3.710	6.399	2.856+1	-8.975-1
1750	4.080	-2.487+1	3.712	6.386	2.858+1	-8.829-1
1760	4.084	-2.489+1	3.714	6.373	2.860+1	-8.683-1
1770	4.088	-2.491+1	3.716	6.360	2.863+1	-8.539-1
1780	4.093	-2.493+1	3.718	6.347	2.865+1	-8.397-1
1790	4.097	-2.495+1	3.720	6.335	2.867+1	-8.257-1
1800	4.101	-2.497+1	3.722	6.322	2.870+1	-8.118-1
1810	4.105	-2.500+1	3.724	6.310	2.872+1	-7.981-1
1820	4.109	-2.502+1	3.726	6.298	2.874+1	-7.846-1
1830	4.114	-2.504+1	3.729	6.286	2.876+1	-7.712-1
1840	4.118	-2.506+1	3.731	6.274	2.879+1	-7.580-1
1850	4.122	-2.508+1	3.733	6.263	2.881+1	-7.449-1
1860	4.126	-2.510+1	3.735	6.251	2.883+1	-7.320-1
1870	4.130	-2.512+1	3.737	6.240	2.885+1	-7.192-1
1880	4.134	-2.514+1	3.739	6.229	2.888+1	-7.066-1
1890	4.138	-2.516+1	3.741	6.217	2.890+1	-6.941-1
1900	4.142	-2.518+1	3.743	6.207	2.892+1	-6.817-1
1910	4.146	-2.520+1	3.745	6.196	2.894+1	-6.694-1
1920	4.150	-2.522+1	3.747	6.185	2.896+1	-6.573-1
1930	4.154	-2.523+1	3.750	6.175	2.898+1	-6.453-1
1940	4.157	-2.525+1	3.752	6.164	2.901+1	-6.334-1
1950	4.161	-2.527+1	3.754	6.154	2.903+1	-6.216-1
1960	4.165	-2.529+1	3.756	6.144	2.905+1	-6.100-1
1970	4.169	-2.531+1	3.758	6.134	2.907+1	-5.984-1
1980	4.172	-2.533+1	3.760	6.124	2.909+1	-5.870-1
1990	4.176	-2.535+1	3.762	6.114	2.911+1	-5.758-1
2000	4.180	-2.537+1	3.764	6.104	2.913+1	-5.646-1
2010	4.183	-2.539+1	3.766	6.095	2.915+1	-5.536-1
2020	4.187	-2.541+1	3.768	6.085	2.917+1	-5.427-1
2030	4.190	-2.543+1	3.770	6.076	2.920+1	-5.319-1
2040	4.194	-2.544+1	3.772	6.067	2.922+1	-5.212-1
2050	4.198	-2.546+1	3.775	6.058	2.924+1	-5.106-1
2060	4.201	-2.548+1	3.777	6.049	2.926+1	-5.002-1
2070	4.205	-2.550+1	3.779	6.040	2.928+1	-4.898-1
2080	4.208	-2.552+1	3.781	6.031	2.930+1	-4.796-1
2090	4.211	-2.554+1	3.783	6.022	2.932+1	-4.695-1

SPECIE OH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2100	4.215	-2.555+1	3.785	5.014	2.934+1	-4.594-1
2110	4.218	-2.557+1	3.787	5.005	2.936+1	-4.495-1
2120	4.222	-2.559+1	3.789	5.997	2.938+1	-4.397-1
2130	4.225	-2.561+1	3.791	5.989	2.940+1	-4.299-1
2140	4.228	-2.562+1	3.793	5.980	2.942+1	-4.203-1
2150	4.232	-2.564+1	3.795	5.972	2.944+1	-4.107-1
2160	4.235	-2.566+1	3.797	5.964	2.946+1	-4.012-1
2170	4.238	-2.568+1	3.799	5.956	2.948+1	-3.918-1
2180	4.241	-2.570+1	3.801	5.948	2.950+1	-3.825-1
2190	4.244	-2.571+1	3.803	5.940	2.952+1	-3.733-1
2200	4.248	-2.573+1	3.805	5.933	2.954+1	-3.642-1
2210	4.251	-2.575+1	3.807	5.925	2.955+1	-3.551-1
2220	4.254	-2.576+1	3.809	5.918	2.957+1	-3.461-1
2230	4.257	-2.578+1	3.811	5.910	2.959+1	-3.372-1
2240	4.260	-2.580+1	3.813	5.903	2.961+1	-3.283-1
2250	4.263	-2.582+1	3.815	5.895	2.963+1	-3.196-1
2260	4.266	-2.583+1	3.817	5.888	2.965+1	-3.109-1
2270	4.270	-2.585+1	3.819	5.881	2.967+1	-3.023-1
2280	4.273	-2.587+1	3.821	5.874	2.969+1	-2.938-1
2290	4.276	-2.588+1	3.823	5.867	2.971+1	-2.853-1
2300	4.279	-2.590+1	3.825	5.860	2.972+1	-2.770-1
2310	4.282	-2.592+1	3.827	5.853	2.974+1	-2.687-1
2320	4.285	-2.593+1	3.829	5.846	2.976+1	-2.606-1
2330	4.288	-2.595+1	3.831	5.840	2.978+1	-2.525-1
2340	4.291	-2.597+1	3.833	5.833	2.980+1	-2.445-1
2350	4.293	-2.598+1	3.835	5.827	2.982+1	-2.365-1
2360	4.296	-2.600+1	3.837	5.820	2.983+1	-2.287-1
2370	4.299	-2.601+1	3.839	5.814	2.985+1	-2.209-1
2380	4.302	-2.603+1	3.841	5.807	2.987+1	-2.132-1
2390	4.305	-2.605+1	3.843	5.801	2.989+1	-2.055-1
2400	4.307	-2.606+1	3.845	5.795	2.991+1	-1.980-1
2410	4.310	-2.608+1	3.847	5.789	2.992+1	-1.904-1
2420	4.313	-2.609+1	3.848	5.783	2.994+1	-1.829-1
2430	4.316	-2.611+1	3.850	5.776	2.996+1	-1.754-1
2440	4.318	-2.613+1	3.852	5.770	2.998+1	-1.680-1
2450	4.321	-2.614+1	3.854	5.765	3.000+1	-1.606-1
2460	4.324	-2.616+1	3.856	5.759	3.001+1	-1.533-1
2470	4.327	-2.617+1	3.858	5.753	3.003+1	-1.461-1
2480	4.329	-2.619+1	3.860	5.747	3.005+1	-1.389-1
2490	4.332	-2.620+1	3.862	5.742	3.007+1	-1.318-1
2500	4.335	-2.622+1	3.864	5.736	3.008+1	-1.247-1
2510	4.337	-2.624+1	3.866	5.730	3.010+1	-1.178-1
2520	4.340	-2.625+1	3.867	5.725	3.012+1	-1.110-1
2530	4.342	-2.627+1	3.869	5.719	3.014+1	-1.043-1
2540	4.345	-2.628+1	3.871	5.714	3.015+1	-9.757-2
2550	4.348	-2.630+1	3.873	5.709	3.017+1	-9.095-2
2560	4.350	-2.631+1	3.875	5.703	3.019+1	-8.440-2
2570	4.353	-2.633+1	3.877	5.698	3.020+1	-7.792-2
2580	4.355	-2.634+1	3.879	5.693	3.022+1	-7.148-2
2590	4.358	-2.636+1	3.880	5.688	3.024+1	-6.511-2

SPECIE OH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
2600	4.360	-2.637+1	3.882	5.683	3.025+1	-5.878-2
2610	4.363	-2.639+1	3.884	5.677	3.027+1	-5.241-2
2620	4.365	-2.640+1	3.886	5.672	3.029+1	-4.607-2
2630	4.368	-2.642+1	3.888	5.667	3.030+1	-3.977-2
2640	4.370	-2.643+1	3.890	5.663	3.032+1	-3.350-2
2650	4.373	-2.645+1	3.891	5.658	3.034+1	-2.726-2
2660	4.375	-2.646+1	3.893	5.653	3.035+1	-2.106-2
2670	4.378	-2.647+1	3.895	5.648	3.037+1	-1.490-2
2680	4.380	-2.649+1	3.897	5.643	3.039+1	-8.768-3
2690	4.383	-2.650+1	3.899	5.639	3.040+1	-2.680-3
2700	4.385	-2.652+1	3.901	5.634	3.042+1	3.364-3
2710	4.387	-2.653+1	3.902	5.629	3.044+1	9.303-3
2720	4.390	-2.655+1	3.904	5.625	3.045+1	1.519-2
2730	4.392	-2.656+1	3.906	5.620	3.047+1	2.103-2
2740	4.394	-2.658+1	3.908	5.616	3.048+1	2.681-2
2750	4.397	-2.659+1	3.909	5.611	3.050+1	3.254-2
2760	4.399	-2.660+1	3.911	5.607	3.052+1	3.823-2
2770	4.401	-2.662+1	3.913	5.603	3.053+1	4.386-2
2780	4.404	-2.663+1	3.915	5.598	3.055+1	4.945-2
2790	4.406	-2.665+1	3.916	5.594	3.056+1	5.499-2
2800	4.408	-2.666+1	3.918	5.590	3.058+1	6.049-2
2810	4.410	-2.667+1	3.920	5.585	3.059+1	6.598-2
2820	4.413	-2.669+1	3.922	5.581	3.061+1	7.143-2
2830	4.415	-2.670+1	3.923	5.577	3.063+1	7.684-2
2840	4.417	-2.672+1	3.925	5.573	3.064+1	8.221-2
2850	4.419	-2.673+1	3.927	5.569	3.066+1	8.754-2
2860	4.421	-2.674+1	3.928	5.565	3.067+1	9.283-2
2870	4.424	-2.676+1	3.930	5.561	3.069+1	9.808-2
2880	4.426	-2.677+1	3.932	5.557	3.070+1	1.033-1
2890	4.428	-2.678+1	3.933	5.553	3.072+1	1.085-1
2900	4.430	-2.680+1	3.935	5.549	3.073+1	1.136-1
2910	4.432	-2.681+1	3.937	5.545	3.075+1	1.187-1
2920	4.435	-2.683+1	3.939	5.541	3.076+1	1.237-1
2930	4.437	-2.684+1	3.940	5.538	3.078+1	1.288-1
2940	4.439	-2.685+1	3.942	5.534	3.079+1	1.337-1
2950	4.441	-2.687+1	3.944	5.530	3.081+1	1.387-1
2960	4.443	-2.688+1	3.945	5.527	3.082+1	1.436-1
2970	4.445	-2.689+1	3.947	5.523	3.084+1	1.485-1
2980	4.447	-2.691+1	3.949	5.519	3.085+1	1.533-1
2990	4.449	-2.692+1	3.951	5.516	3.087+1	1.581-1
3000	4.451	-2.693+1	3.952	5.512	3.088+1	1.629-1
3010	4.453	-2.695+1	3.954	5.509	3.090+1	1.676-1
3020	4.456	-2.696+1	3.956	5.505	3.091+1	1.724-1
3030	4.458	-2.697+1	3.957	5.502	3.093+1	1.770-1
3040	4.460	-2.698+1	3.959	5.499	3.094+1	1.817-1
3050	4.462	-2.700+1	3.961	5.495	3.096+1	1.863-1
3060	4.464	-2.701+1	3.962	5.492	3.097+1	1.909-1
3070	4.466	-2.702+1	3.964	5.488	3.099+1	1.955-1
3080	4.468	-2.704+1	3.965	5.485	3.100+1	2.000-1
3090	4.470	-2.705+1	3.967	5.482	3.102+1	2.045-1

SPECIE OH						
TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3100	4.472	-2.706+1	3.969	5.478	3.103+1	2.089-1
3110	4.474	-2.708+1	3.970	5.475	3.105+1	2.133-1
3120	4.476	-2.709+1	3.972	5.472	3.106+1	2.177-1
3130	4.478	-2.710+1	3.973	5.469	3.107+1	2.220-1
3140	4.480	-2.711+1	3.975	5.466	3.109+1	2.263-1
3150	4.482	-2.713+1	3.977	5.463	3.110+1	2.305-1
3160	4.484	-2.714+1	3.978	5.459	3.112+1	2.348-1
3170	4.486	-2.715+1	3.980	5.456	3.113+1	2.389-1
3180	4.488	-2.716+1	3.982	5.453	3.114+1	2.431-1
3190	4.490	-2.718+1	3.983	5.450	3.116+1	2.472-1
3200	4.492	-2.719+1	3.985	5.447	3.117+1	2.513-1
3210	4.494	-2.720+1	3.986	5.444	3.119+1	2.554-1
3220	4.495	-2.721+1	3.988	5.441	3.120+1	2.595-1
3230	4.497	-2.723+1	3.989	5.438	3.121+1	2.635-1
3240	4.499	-2.724+1	3.991	5.436	3.123+1	2.675-1
3250	4.501	-2.725+1	3.993	5.433	3.124+1	2.715-1
3260	4.503	-2.726+1	3.994	5.430	3.126+1	2.755-1
3270	4.505	-2.727+1	3.996	5.427	3.127+1	2.794-1
3280	4.507	-2.729+1	3.997	5.424	3.128+1	2.833-1
3290	4.509	-2.730+1	3.999	5.421	3.130+1	2.872-1
3300	4.511	-2.731+1	4.000	5.419	3.131+1	2.911-1
3310	4.513	-2.732+1	4.002	5.416	3.132+1	2.950-1
3320	4.514	-2.734+1	4.003	5.413	3.134+1	2.988-1
3330	4.516	-2.735+1	4.005	5.410	3.135+1	3.026-1
3340	4.518	-2.736+1	4.006	5.408	3.137+1	3.063-1
3350	4.520	-2.737+1	4.008	5.405	3.138+1	3.101-1
3360	4.522	-2.738+1	4.010	5.402	3.139+1	3.138-1
3370	4.524	-2.740+1	4.011	5.400	3.141+1	3.175-1
3380	4.526	-2.741+1	4.013	5.397	3.142+1	3.212-1
3390	4.527	-2.742+1	4.014	5.395	3.143+1	3.249-1
3400	4.529	-2.743+1	4.016	5.392	3.145+1	3.285-1
3410	4.531	-2.744+1	4.017	5.390	3.146+1	3.322-1
3420	4.533	-2.745+1	4.019	5.387	3.147+1	3.358-1
3430	4.535	-2.747+1	4.020	5.385	3.149+1	3.394-1
3440	4.537	-2.748+1	4.022	5.382	3.150+1	3.430-1
3450	4.538	-2.749+1	4.023	5.380	3.151+1	3.466-1
3460	4.540	-2.750+1	4.025	5.377	3.153+1	3.501-1
3470	4.542	-2.751+1	4.026	5.375	3.154+1	3.537-1
3480	4.544	-2.752+1	4.028	5.373	3.155+1	3.572-1
3490	4.546	-2.754+1	4.029	5.370	3.156+1	3.606-1
3500	4.547	-2.755+1	4.031	5.368	3.158+1	3.641-1
3510	4.549	-2.756+1	4.032	5.366	3.159+1	3.675-1
3520	4.551	-2.757+1	4.034	5.363	3.160+1	3.709-1
3530	4.553	-2.758+1	4.035	5.361	3.162+1	3.743-1
3540	4.555	-2.759+1	4.036	5.359	3.163+1	3.776-1
3550	4.556	-2.760+1	4.038	5.356	3.164+1	3.809-1
3560	4.558	-2.762+1	4.039	5.354	3.166+1	3.842-1
3570	4.560	-2.763+1	4.041	5.352	3.167+1	3.875-1
3580	4.562	-2.764+1	4.042	5.350	3.168+1	3.908-1
3590	4.563	-2.765+1	4.044	5.347	3.169+1	3.940-1

SPECIE OH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
3600	4.565	-2.766+1	4.045	5.345	3.171+1	3.972-1
3610	4.567	-2.767+1	4.047	5.343	3.172+1	4.005-1
3620	4.569	-2.768+1	4.048	5.341	3.173+1	4.037-1
3630	4.570	-2.769+1	4.049	5.339	3.174+1	4.069-1
3640	4.572	-2.771+1	4.051	5.337	3.176+1	4.100-1
3650	4.574	-2.772+1	4.052	5.335	3.177+1	4.132-1
3660	4.576	-2.773+1	4.054	5.333	3.178+1	4.163-1
3670	4.577	-2.774+1	4.055	5.331	3.179+1	4.194-1
3680	4.579	-2.775+1	4.057	5.328	3.181+1	4.225-1
3690	4.581	-2.776+1	4.058	5.326	3.182+1	4.256-1
3700	4.583	-2.777+1	4.059	5.324	3.183+1	4.286-1
3710	4.584	-2.778+1	4.061	5.322	3.184+1	4.316-1
3720	4.586	-2.779+1	4.062	5.320	3.186+1	4.345-1
3730	4.588	-2.781+1	4.064	5.318	3.187+1	4.374-1
3740	4.590	-2.782+1	4.065	5.317	3.188+1	4.404-1
3750	4.591	-2.783+1	4.066	5.315	3.189+1	4.433-1
3760	4.593	-2.784+1	4.068	5.313	3.191+1	4.461-1
3770	4.595	-2.785+1	4.069	5.311	3.192+1	4.490-1
3780	4.596	-2.786+1	4.071	5.309	3.193+1	4.517-1
3790	4.598	-2.787+1	4.072	5.307	3.194+1	4.546-1
3800	4.600	-2.788+1	4.073	5.305	3.195+1	4.573-1
3810	4.602	-2.789+1	4.075	5.303	3.197+1	4.601-1
3820	4.603	-2.790+1	4.076	5.301	3.198+1	4.629-1
3830	4.605	-2.791+1	4.078	5.300	3.199+1	4.657-1
3840	4.607	-2.792+1	4.079	5.298	3.200+1	4.684-1
3850	4.608	-2.793+1	4.080	5.296	3.201+1	4.711-1
3860	4.610	-2.794+1	4.082	5.294	3.203+1	4.739-1
3870	4.612	-2.796+1	4.083	5.292	3.204+1	4.766-1
3880	4.613	-2.797+1	4.084	5.291	3.205+1	4.793-1
3890	4.615	-2.798+1	4.086	5.289	3.206+1	4.820-1
3900	4.617	-2.799+1	4.087	5.287	3.207+1	4.846-1
3910	4.619	-2.800+1	4.088	5.285	3.209+1	4.873-1
3920	4.620	-2.801+1	4.090	5.284	3.210+1	4.900-1
3930	4.622	-2.802+1	4.091	5.282	3.211+1	4.927-1
3940	4.624	-2.803+1	4.092	5.280	3.212+1	4.953-1
3950	4.625	-2.804+1	4.094	5.279	3.213+1	4.980-1
3960	4.627	-2.805+1	4.095	5.277	3.214+1	5.006-1
3970	4.629	-2.806+1	4.096	5.275	3.216+1	5.033-1
3980	4.631	-2.807+1	4.098	5.274	3.217+1	5.059-1
3990	4.632	-2.808+1	4.099	5.272	3.218+1	5.085-1
4000	4.634	-2.809+1	4.100	5.271	3.219+1	5.111-1
4010	4.636	-2.810+1	4.102	5.269	3.220+1	5.137-1
4020	4.637	-2.811+1	4.103	5.267	3.221+1	5.161-1
4030	4.639	-2.812+1	4.104	5.266	3.223+1	5.186-1
4040	4.641	-2.813+1	4.106	5.264	3.224+1	5.211-1
4050	4.643	-2.814+1	4.107	5.263	3.225+1	5.235-1
4060	4.644	-2.815+1	4.108	5.261	3.226+1	5.260-1
4070	4.646	-2.816+1	4.110	5.260	3.227+1	5.284-1
4080	4.648	-2.817+1	4.111	5.258	3.228+1	5.308-1
4090	4.649	-2.818+1	4.112	5.257	3.229+1	5.333-1

SPECIE OH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4100	4.651	-2.819+1	4.114	5.255	3.230+1	5.356-1
4110	4.653	-2.820+1	4.115	5.254	3.232+1	5.381-1
4120	4.654	-2.821+1	4.116	5.252	3.233+1	5.405-1
4130	4.656	-2.822+1	4.117	5.251	3.234+1	5.429-1
4140	4.658	-2.823+1	4.119	5.249	3.235+1	5.453-1
4150	4.659	-2.824+1	4.120	5.248	3.236+1	5.478-1
4160	4.661	-2.825+1	4.121	5.246	3.237+1	5.502-1
4170	4.663	-2.826+1	4.123	5.245	3.238+1	5.526-1
4180	4.664	-2.827+1	4.124	5.244	3.240+1	5.550-1
4190	4.666	-2.828+1	4.125	5.242	3.241+1	5.574-1
4200	4.668	-2.829+1	4.126	5.241	3.242+1	5.598-1
4210	4.669	-2.830+1	4.128	5.240	3.243+1	5.621-1
4220	4.671	-2.831+1	4.129	5.238	3.244+1	5.644-1
4230	4.673	-2.832+1	4.130	5.237	3.245+1	5.667-1
4240	4.674	-2.833+1	4.132	5.235	3.246+1	5.689-1
4250	4.676	-2.834+1	4.133	5.234	3.247+1	5.712-1
4260	4.678	-2.835+1	4.134	5.233	3.248+1	5.734-1
4270	4.680	-2.836+1	4.135	5.232	3.249+1	5.756-1
4280	4.681	-2.837+1	4.137	5.230	3.251+1	5.778-1
4290	4.683	-2.838+1	4.138	5.229	3.252+1	5.800-1
4300	4.685	-2.839+1	4.139	5.228	3.253+1	5.822-1
4310	4.687	-2.840+1	4.140	5.226	3.254+1	5.844-1
4320	4.688	-2.841+1	4.142	5.225	3.255+1	5.865-1
4330	4.690	-2.842+1	4.143	5.224	3.256+1	5.887-1
4340	4.692	-2.843+1	4.144	5.223	3.257+1	5.909-1
4350	4.693	-2.844+1	4.145	5.221	3.258+1	5.930-1
4360	4.695	-2.845+1	4.147	5.220	3.259+1	5.951-1
4370	4.697	-2.846+1	4.148	5.219	3.260+1	5.972-1
4380	4.699	-2.846+1	4.149	5.218	3.261+1	5.993-1
4390	4.700	-2.847+1	4.150	5.217	3.262+1	6.013-1
4400	4.702	-2.848+1	4.152	5.215	3.264+1	6.034-1
4410	4.704	-2.849+1	4.153	5.214	3.265+1	6.054-1
4420	4.705	-2.850+1	4.154	5.213	3.266+1	6.073-1
4430	4.707	-2.851+1	4.155	5.212	3.267+1	6.093-1
4440	4.709	-2.852+1	4.157	5.211	3.268+1	6.112-1
4450	4.710	-2.853+1	4.158	5.210	3.269+1	6.132-1
4460	4.712	-2.854+1	4.159	5.208	3.270+1	6.151-1
4470	4.714	-2.855+1	4.160	5.207	3.271+1	6.169-1
4480	4.716	-2.856+1	4.161	5.206	3.272+1	6.188-1
4490	4.717	-2.857+1	4.163	5.205	3.273+1	6.207-1
4500	4.719	-2.858+1	4.164	5.204	3.274+1	6.225-1
4510	4.721	-2.859+1	4.165	5.203	3.275+1	6.244-1
4520	4.722	-2.860+1	4.166	5.202	3.276+1	6.264-1
4530	4.724	-2.860+1	4.167	5.201	3.277+1	6.283-1
4540	4.726	-2.861+1	4.169	5.200	3.278+1	6.302-1
4550	4.728	-2.862+1	4.170	5.199	3.279+1	6.322-1
4560	4.729	-2.863+1	4.171	5.197	3.280+1	6.341-1
4570	4.731	-2.864+1	4.172	5.196	3.281+1	6.360-1
4580	4.733	-2.865+1	4.173	5.195	3.282+1	6.380-1
4590	4.734	-2.866+1	4.175	5.194	3.283+1	6.399-1

SPECIE OH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
4600	4.736	-2.867+1	4.176	5.193	3.284+1	6.419-1
4610	4.738	-2.868+1	4.177	5.192	3.285+1	6.437-1
4620	4.739	-2.869+1	4.178	5.191	3.286+1	6.456-1
4630	4.740	-2.870+1	4.179	5.190	3.288+1	6.474-1
4640	4.742	-2.870+1	4.181	5.189	3.289+1	6.492-1
4650	4.743	-2.871+1	4.182	5.188	3.290+1	6.510-1
4660	4.744	-2.872+1	4.183	5.187	3.291+1	6.528-1
4670	4.746	-2.873+1	4.184	5.186	3.292+1	6.546-1
4680	4.747	-2.874+1	4.185	5.185	3.293+1	6.565-1
4690	4.748	-2.875+1	4.187	5.184	3.294+1	6.582-1
4700	4.749	-2.876+1	4.188	5.184	3.295+1	6.600-1
4710	4.750	-2.877+1	4.189	5.183	3.296+1	6.618-1
4720	4.751	-2.878+1	4.190	5.182	3.297+1	6.636-1
4730	4.753	-2.879+1	4.191	5.181	3.298+1	6.654-1
4740	4.754	-2.879+1	4.192	5.180	3.299+1	6.672-1
4750	4.755	-2.880+1	4.194	5.179	3.300+1	6.690-1
4760	4.756	-2.881+1	4.195	5.178	3.301+1	6.708-1
4770	4.758	-2.882+1	4.196	5.177	3.302+1	6.726-1
4780	4.759	-2.883+1	4.197	5.176	3.303+1	6.744-1
4790	4.760	-2.884+1	4.198	5.175	3.304+1	6.762-1
4800	4.761	-2.885+1	4.199	5.174	3.305+1	6.780-1
4810	4.763	-2.886+1	4.200	5.174	3.306+1	6.797-1
4820	4.764	-2.886+1	4.202	5.173	3.307+1	6.813-1
4830	4.765	-2.887+1	4.203	5.172	3.308+1	6.829-1
4840	4.766	-2.888+1	4.204	5.171	3.309+1	6.846-1
4850	4.767	-2.889+1	4.205	5.170	3.310+1	6.862-1
4860	4.769	-2.890+1	4.206	5.169	3.311+1	6.878-1
4870	4.770	-2.891+1	4.207	5.168	3.312+1	6.894-1
4880	4.771	-2.892+1	4.208	5.168	3.312+1	6.909-1
4890	4.772	-2.893+1	4.210	5.167	3.313+1	6.926-1
4900	4.773	-2.893+1	4.211	5.166	3.314+1	6.941-1
4910	4.774	-2.894+1	4.212	5.165	3.315+1	6.957-1
4920	4.776	-2.895+1	4.213	5.164	3.316+1	6.972-1
4930	4.777	-2.896+1	4.214	5.164	3.317+1	6.988-1
4940	4.778	-2.897+1	4.215	5.163	3.318+1	7.004-1
4950	4.779	-2.898+1	4.216	5.162	3.319+1	7.019-1
4960	4.780	-2.898+1	4.218	5.161	3.320+1	7.035-1
4970	4.781	-2.899+1	4.219	5.160	3.321+1	7.051-1
4980	4.783	-2.900+1	4.220	5.160	3.322+1	7.066-1
4990	4.784	-2.901+1	4.221	5.159	3.323+1	7.081-1
5000	4.785	-2.902+1	4.222	5.158	3.324+1	7.097-1
5010	4.786	-2.903+1	4.223	5.157	3.325+1	7.111-1
5020	4.787	-2.904+1	4.224	5.157	3.326+1	7.126-1
5030	4.788	-2.904+1	4.225	5.156	3.327+1	7.139-1
5040	4.789	-2.905+1	4.227	5.155	3.328+1	7.154-1
5050	4.790	-2.906+1	4.228	5.154	3.329+1	7.168-1
5060	4.791	-2.907+1	4.229	5.154	3.330+1	7.182-1
5070	4.792	-2.908+1	4.230	5.153	3.331+1	7.196-1
5080	4.792	-2.909+1	4.231	5.152	3.332+1	7.211-1
5090	4.793	-2.909+1	4.232	5.152	3.333+1	7.224-1

SPECIE OH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5100	4.794	-2.910+1	4.233	5.151	3.334+1	7.237-1
5110	4.795	-2.911+1	4.234	5.150	3.334+1	7.252-1
5120	4.796	-2.912+1	4.235	5.150	3.335+1	7.267-1
5130	4.798	-2.913+1	4.236	5.149	3.336+1	7.281-1
5140	4.799	-2.914+1	4.238	5.148	3.337+1	7.296-1
5150	4.800	-2.914+1	4.239	5.147	3.338+1	7.311-1
5160	4.801	-2.915+1	4.240	5.147	3.339+1	7.326-1
5170	4.803	-2.916+1	4.241	5.146	3.340+1	7.341-1
5180	4.804	-2.917+1	4.242	5.146	3.341+1	7.356-1
5190	4.806	-2.918+1	4.243	5.145	3.342+1	7.371-1
5200	4.807	-2.918+1	4.244	5.144	3.343+1	7.386-1
5210	4.808	-2.919+1	4.245	5.144	3.344+1	7.400-1
5220	4.810	-2.920+1	4.246	5.143	3.345+1	7.413-1
5230	4.811	-2.921+1	4.247	5.142	3.346+1	7.427-1
5240	4.812	-2.922+1	4.248	5.142	3.347+1	7.440-1
5250	4.813	-2.923+1	4.249	5.141	3.348+1	7.453-1
5260	4.814	-2.923+1	4.251	5.140	3.348+1	7.466-1
5270	4.816	-2.924+1	4.252	5.140	3.349+1	7.479-1
5280	4.817	-2.925+1	4.253	5.139	3.350+1	7.492-1
5290	4.818	-2.926+1	4.254	5.139	3.351+1	7.506-1
5300	4.819	-2.927+1	4.255	5.138	3.352+1	7.518-1
5310	4.820	-2.927+1	4.256	5.137	3.353+1	7.532-1
5320	4.822	-2.928+1	4.257	5.137	3.354+1	7.545-1
5330	4.823	-2.929+1	4.258	5.136	3.355+1	7.558-1
5340	4.824	-2.930+1	4.259	5.136	3.356+1	7.572-1
5350	4.825	-2.931+1	4.260	5.135	3.357+1	7.585-1
5360	4.826	-2.931+1	4.261	5.134	3.357+1	7.598-1
5370	4.828	-2.932+1	4.262	5.134	3.358+1	7.612-1
5380	4.829	-2.933+1	4.263	5.133	3.359+1	7.625-1
5390	4.830	-2.934+1	4.264	5.133	3.360+1	7.638-1
5400	4.831	-2.935+1	4.265	5.132	3.361+1	7.652-1
5410	4.832	-2.935+1	4.266	5.132	3.362+1	7.664-1
5420	4.834	-2.936+1	4.267	5.131	3.363+1	7.677-1
5430	4.835	-2.937+1	4.268	5.130	3.364+1	7.690-1
5440	4.836	-2.938+1	4.270	5.130	3.365+1	7.702-1
5450	4.837	-2.938+1	4.271	5.129	3.366+1	7.714-1
5460	4.838	-2.939+1	4.272	5.129	3.366+1	7.726-1
5470	4.839	-2.940+1	4.273	5.128	3.367+1	7.738-1
5480	4.840	-2.941+1	4.274	5.128	3.368+1	7.750-1
5490	4.841	-2.942+1	4.275	5.127	3.369+1	7.762-1
5500	4.842	-2.942+1	4.276	5.127	3.370+1	7.774-1
5510	4.843	-2.943+1	4.277	5.126	3.371+1	7.786-1
5520	4.844	-2.944+1	4.278	5.126	3.372+1	7.798-1
5530	4.846	-2.945+1	4.279	5.125	3.373+1	7.810-1
5540	4.847	-2.945+1	4.280	5.125	3.373+1	7.822-1
5550	4.848	-2.946+1	4.281	5.124	3.374+1	7.833-1
5560	4.849	-2.947+1	4.282	5.124	3.375+1	7.845-1
5570	4.850	-2.948+1	4.283	5.123	3.376+1	7.857-1
5580	4.851	-2.949+1	4.284	5.123	3.377+1	7.868-1
5590	4.852	-2.949+1	4.285	5.122	3.378+1	7.880-1

SPECIE OH

TEMP	CP/R	(F-E)/RT	(H-E)/RT	DELTA H/RT	S/R	LN K
5600	4.853	-2.950+1	4.286	5.122	3.379+1	7.892-1
5610	4.854	-2.951+1	4.287	5.121	3.380+1	7.903-1
5620	4.855	-2.952+1	4.288	5.121	3.380+1	7.915-1
5630	4.856	-2.952+1	4.289	5.121	3.381+1	7.927-1
5640	4.857	-2.953+1	4.290	5.120	3.382+1	7.939-1
5650	4.858	-2.954+1	4.291	5.120	3.383+1	7.951-1
5660	4.859	-2.955+1	4.292	5.119	3.384+1	7.962-1
5670	4.860	-2.955+1	4.294	5.119	3.385+1	7.974-1
5680	4.861	-2.956+1	4.295	5.119	3.386+1	7.986-1
5690	4.862	-2.957+1	4.296	5.118	3.387+1	7.998-1
5700	4.863	-2.958+1	4.297	5.118	3.387+1	8.010-1
5710	4.864	-2.958+1	4.298	5.117	3.388+1	8.021-1
5720	4.865	-2.959+1	4.299	5.117	3.389+1	8.033-1
5730	4.866	-2.960+1	4.300	5.117	3.390+1	8.045-1
5740	4.867	-2.961+1	4.301	5.116	3.391+1	8.057-1
5750	4.868	-2.961+1	4.302	5.116	3.392+1	8.068-1
5760	4.869	-2.962+1	4.302	5.115	3.392+1	8.080-1
5770	4.870	-2.963+1	4.303	5.115	3.393+1	8.091-1
5780	4.871	-2.964+1	4.304	5.114	3.394+1	8.103-1
5790	4.872	-2.964+1	4.305	5.113	3.395+1	8.115-1
5800	4.873	-2.965+1	4.306	5.113	3.396+1	8.126-1
5810	4.873	-2.966+1	4.307	5.112	3.397+1	8.137-1
5820	4.874	-2.967+1	4.308	5.112	3.397+1	8.148-1
5830	4.875	-2.967+1	4.309	5.112	3.398+1	8.157-1
5840	4.876	-2.968+1	4.310	5.111	3.399+1	8.168-1
5850	4.877	-2.969+1	4.311	5.111	3.400+1	8.178-1
5860	4.878	-2.970+1	4.312	5.110	3.401+1	8.188-1
5870	4.879	-2.970+1	4.313	5.110	3.402+1	8.198-1
5880	4.879	-2.971+1	4.314	5.110	3.402+1	8.209-1
5890	4.880	-2.972+1	4.315	5.109	3.403+1	8.218-1
5900	4.881	-2.973+1	4.316	5.109	3.404+1	8.228-1
5910	4.882	-2.973+1	4.317	5.108	3.405+1	8.238-1
5920	4.883	-2.974+1	4.318	5.108	3.406+1	8.248-1
5930	4.884	-2.975+1	4.318	5.108	3.407+1	8.258-1
5940	4.884	-2.975+1	4.319	5.107	3.407+1	8.268-1
5950	4.885	-2.976+1	4.320	5.107	3.408+1	8.279-1
5960	4.886	-2.977+1	4.321	5.107	3.409+1	8.289-1
5970	4.887	-2.978+1	4.322	5.106	3.410+1	8.299-1
5980	4.888	-2.978+1	4.323	5.106	3.411+1	8.309-1
5990	4.888	-2.979+1	4.324	5.105	3.411+1	8.319-1
6000	4.889	-2.980+1	4.325	5.105	3.412+1	8.330-1

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