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WRIGHT-PATTERSON AIR FORCE BASE, OHIO

FOREWORD

This interim technical report was prepared by Andre Benoit, University of Toronto, Canada on Contract AF33(615)-2766 for the Aerospace Research Laboratories, Office of Aerospace Research, United States Air Force. The research reported herein was accomplished on Task 7065-0015, "Fluid Dynamics Facilities Research" of Project 7065, "Aerospace Simulation Techniques Research" under the technical cognizance of Mr. John Goresh of the Fluid Dynamics Facilities Research Laboratory of ARL.

The author wishes to express his thanks to Dr. G. N. Patterson for the opportunity to complete this work.

He is also grateful to Dr. I. I. Glass who suggested the study reported herein, and to Professor J. Meinguet for the opportunity to perform the numerical calculations at the "Centre de Calcul Numerique" of the University of Louvain.

ABSTRACT

The thermodynamic and composition data behind a Chapman-Jouguet detonation wave propagating into a mixture of stoichiometric oxygen-hydrogen diluted with helium and/or hydrogen are computed assuming thermodynamic equilibrium. Results are presented for hydrogen and helium dilutions respectively.

The effects of initial conditions, namely dilution, pressure and temperature, are studied numerically and some approximate relations are provided for the purpose of practical interpolation.

The study includes a comparison with the thermodynamic data of the final gaseous products of an equivalent constant volume combustion.

The results are presented numerically and graphically for dilutions varying from 0 to 67 percent, initial pressures ranging from 0.01 to 1000 atmospheres and initial temperatures from 200 to 700 degrees Kelvin.

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NOTATION

a	(A)*	speed of sound in burned gases (equilibrium), meters/sec.
a_i	(AI)	speed of sound in fresh gases, meters/sec.
C_p	(CP)	specific heat at constant pressure in burned gases, equilibrium cal/mole ^oK.
C_{pi}	(CPI)	specific heat at constant pressure in fresh gases, cal/mole ^oK.
γ	(GAM)	isentropic exponent for burned gases
γ^*	(GAM*)	equilibrium specific heat ratio for burned gases.
γ_i	(GAM I)	specific heat ratio for fresh gases
H	(H)	enthalpy + chemical energy per mole of burned gases cal/mole
H_i	(HI)	enthalpy + chemical energy per mole of fresh gases cal/mole
μ	(M)	molecular weight of the burned gases
m	(M)	number of moles of diluting hydrogen per mole of oxygen in the fresh gases
M_D	(MD)	Mach number of the detonation wave.
μ_i	(MI)	molecular weight of the fresh gases.
n	(N)	number of moles of diluting helium per mole of oxygen in the fresh gases
ν_{H_2O} ν_{OH}	(NU(H_2)), (NU(OH))	molar concentrations of H_2O, OH.... in the burned gases
p	(P)	pressure of burned gases, atm.

(*) Symbols between brackets refer to Tables 1 and 2.

p_i	(PI)	pressure of fresh gases, atm.
ρ/ρ_i	(RAU/RAUI)	density ratio across the detonation front
T	(T)	temperature of burned gases, ^oK
T_i	(TI)	temperature of fresh gases. ^oK
U_D	(UD)	velocity of the detonation, meters/sec.
U_1	(U1)	velocity of the fresh gases relative to the detonation front, meters/sec.
U_2	(U2)	velocity of the burned gases relative to the detonation front, meters/sec.

1. INTRODUCTION

The usefulness of detonation waves to produce high enthalpy gases is well established. Indeed, the release of chemical energy through a detonation wave produces appreciable pressure and temperature jumps across the wave front. If the detonation products are to be used as driver gases for hypervelocity facilities, it is essential to keep their molecular weight as low as possible in order to minimize the driving energy spent in accelerating the gas particles.

One technique commonly used in shock-tube work for producing high-temperature light gases consists in using the heat released by the slow burning of hydrogen and oxygen to preheat the driving gases containing up to 70 percent of unburned hydrogen or helium. In the present note, it is intended to investigate the thermodynamic characteristics of the combustion products of similar initial mixtures, i.e.,

$$2H_2 + O_2 + nHe + mH_2$$

when the combustion wave is a fully developed Chapman-Jouguet detonation.

In Sec. 2 the basic assumptions on which the study is based are stated. The results of the computation are presented in Sec. 3 and the influence of the initial conditions, i.e., the type and quantity of diluted gases, the initial pressure and temperature, is discussed in Sec. 4 while the conclusions of the study are presented in Sec. 5.

2. BASIC ASSUMPTIONS

The basic assumptions used in this study are as follows.

2.1. Initial Mixture

The initial gaseous mixture is composed of hydrogen, oxygen and helium according to the molar chemical relation

$$(2H_2 + O_2) + m\,H_2 + n\,He$$

and, for simplicity, is taken at rest with respect to the laboratory. It is assumed that the gases have been properly mixed and that the concentration of each species is uniform throughout the mixture, so that the average initial values of molar fractions, molecular weight etc. can be applied locally at the flame front.

2.2. Flame Front.

With respect to the flame front, the following assumptions are made:

1) The discontinuity is a fully developed Chapman-Jouguet detonation and no consideration is made about the formation of the wave.

2) The velocity of the particles on both sides of the detonation zone are normal to the discontinuity and

3) the one-dimensional form of the conservation laws can be applied locally across the combustion wave front.

2.3 Combustion Products.

In deriving the equations of conservation the following assumptions are made:

1) The combustion products are in thermodynamic equilibrium.

2) Heat sinks due to ionization and electronic excitation are disregarded.

3) The only species in appreciable concentration are H_2O; OH; H_2O_2; H; O; and He.

4) Each species obeys the thermally perfect gas law.

5) The total pressure of the gaseous mixture is the sum of the partial pressures of all the components according to Dalton's law.

6) Heat conduction and viscosity effects are neglected.

3. RESULTS OF THE CALCULATIONS.

The composition and thermodynamic data of the detonation products have been computed for the following sets of initial conditions

1. Helium dilution (m = o)

   Dilution index:

   n varies from 0 to 6.0 in steps of 0.5

   Initial pressure in atmospheres:

   p_i = 0.01 ; 0.1 ; 1. ; 10. ; 100. ; 1000.

   Initial temperature, in degrees Kelvin:

   T_i = 200 ; 298.15 ; 300 ; 400 ; 500 ; 600 ; 700.

2. Hydrogen dilution (n = o)

   Dilution index:

   m varies from 0 to 6.0 in steps of 0.5

   Initial pressure in atmospheres:

   p_i = 0.01 ; 0.1 ; 1. ; 10. ; 100. ; 1000.

   Initial temperature in degrees Kelvin:

   T_i = 200 ; 298.15 ; 300 ; 400 ; 500 ; 600 ; 700.

3.1 Presentation of the Results

For each set of initial conditions the following quantities are given in Tables 1. and 2. for helium and hydrogen dilution respectively.

1) Characteristics of initial mixtures.
   Molar specific heat at constant pressure,
   Molar enthalpy including chemical energy,
   Specific heat ratio,
   Average molecular weight,
   Speed of sound.
2) Composition (molar concentrations) of detonation products.
3) Thermodynamic data of detonation products.
   Molar specific heat at constant pressure,
   Molar enthalpy including chemical energy,
   Isentropic exponent,
   Equilibrium specific heat ratio.
   Average molecular weight,
   Pressure,
   Temperature,
   Equilibrium speed of sound,
   Detonation velocity,
   Detonation Mach number.
4) Characteristics of the discontinuity jump.
   Final-to-initial pressure ratio,
   Final-to-initial temperature ratio,
   Final-to-initial density ratio,
   Final-to-initial molecular weight ratio.

Some of the results presented in Tables 1. and 2. will be illustrated graphically when the influence of initial conditions are investigated.

3.2 Comparison with Other Work.

For the case of stoichiometric mixtures (m=n=o), it was possible to compare the present results with these given in Ref. 1 and 2. The comparison, illustrated in Table 3, indicates excellent agreement with results presented in Ref. 1 and reasonable agreement with these given in Ref. 2.

4. INFLUENCE OF INITIAL DATA.

The effect of initial conditions on thermodynamic and composition data of detonation products will now be considered. Then, useful indications will be given on how to interpolate the results given in Tables 1 and 2.

4.1 Influence of Initial Dilution.

The effect of dilution is illustrated in Figs. 1 to 24 for an initial pressure of 0.01 atm. and initial temperature ranging from 200 to 700°K in steps of 100° K. Figures 1 to 12 are relative to helium dilution while Figs. 13 to 24 illustrate the case of hydrogen dilution.

A comparison of these thermodynamic data with those presented in Refs. 3 and 4 for constant volume combustion shows that the effect of dilution is similar, qualitatively, in both types of combustion.

A result, suggested in Figs. 8 and 20, 10 and 22 and worth being reported is the approximately linear influence of the dilution index on the detonation Mach number and density ratio across the wave. This conclusion is particularly valid for the case of helium dilution.

4.2 Influence of Initial Temperature.

The effect of initial temperature on the detonation products is illustrated in Figs. 25 to 38 for dilutions ranging from 0 to 67 percent and initial pressures ranging from 0.01 to 1000. atm. In the next paragraphs we shall present the essential conclusions which have been drawn from the computation results.

For a given initial pressure and dilution, an increase in the initial temperature considerably reduces the pressure ratio across the detonation wave. (Figs. 25 and 28). If we try to correlate the pressure ratio (p/p_i) with the initial temperature (T_i), we find that the function

$$\frac{p}{p_i} = \exp\left(\alpha \ln T_i + \beta\right) . \qquad (1)$$

where α and β are coefficients independent of T_i but are dependent on initial pressure and dilution. A comparison between the exact results and this approximate relation is given in Fig. 37. The coefficients α and β have been computed systematically by fitting the approximate curve with the exact results at 300°K and 500° K. Then, it is found that between 200° K and 700° K the agreement between the two sets of results is extremely good as shown in Table 4. In the worst case, the difference is at the most of the order of one percent; but it often remains smaller than 0.1 percent. The extreme variations of the quantities α and β with initial pressure and dilution are summarized hereafter.

When p_i varies from 0.01 to 1000 atm.:

the variation of α remains less than

4 percent for stoichiometric mixtures

8 percent for 67 percent helium or hydrogen dilution

the variation of β remains less than

1 percent for stoichiometric mixtures

2 percent for 67 percent helium dilution

5 percent for 67 percent hydrogen dilution

When the dilution index varies from 0 to 6, the variation of α remains of the order of

1 percent at p_i = 0.01 atm. for helium dilution

5 percent at p_i = 1000 atm. for helium dilution

4 percent at p_i = 0.01 atm for hydrogen dilution

8 percent at p_i = 1000 atm. for hydrogen dilution

while the variation of β remains of the order of

1 percent at p_i = 0.01 atm. for helium dilution

3 percent at p_i = 1000 atm. for helium dilution

4 percent at p_i = 0.01 atm. for hydrogen dilution

10 percent at p_i = 1000 atm. for hydrogen dilution

As a result, the effect of dilution on the values of α and β is more important than the effect of initial pressure.

The equilibrium temperature of the detonation products does not vary appreciably with the initial pressure as Figs. 26 a to f and 29 a to f indicate. At low dilution this temperature (T) slightly decreases with T_i. Then, when dilution increases, the sign of the variation changes and T increases with T_i. The effect of initial temperature variations is also more sensitive in the case of hydrogen dilution.

The effect of initial temperature on the speed of sound of the detonation products (a) is illustrated in Figs. 27 and 30 a to f. For helium dilution, a is practically independent of T_i except at high initial pressure for large values of the dilution index. The same remark is valid for hydrogen dilution, but in this case the variation Δa takes larger values as Table 5 indicates. From this table, it appears that for stoichiometric mixtures, the variation of the speed of sound is at the most of the order of one percent when T_i varies from 200° K to 700° K for initial pressure ranging from 0.01 atm. to 1000 atm. When dilution increases, the variation of a with T_i increases and at p_i = 100 atm. this variation between 200° K and 700° K reaches 1.3 percent for 67 percent (n = 6) helium dilution and almost 6 percent for 67 percent (m = 6) hydrogen dilution.

The values of the isentropic exponent (γ), equilibrium specific heat ratio (γ^*) and molecular weight (μ) which have been obtained for discrete values of T_i ranging from 200 to 700° K can easily be evaluated with good accuracy through linear relations of the form

$$\gamma = \gamma_o + \gamma_{T_i} T_i$$

$$\gamma^* = \gamma^*_o + \gamma^*_{T_i} T_i$$

$$\mu = \mu_o + \mu_{T_i} T_i$$

where the quantities γ_o, γ^*_o, μ_o, γ_{T_i}, $\gamma^*_{T_i}$ and μ_{T_i} do not depend on initial temperature. Fig. 31 illustrates the quality of this approximation for stoichiometric mixtures. For the whole range 200 to 700° K, the error remains generally smaller than 0.002. When dilution increases, the previous coefficients have to be defined for a smaller temperature range, and practically up to 67 percent dilution, the error will remain smaller than 0.001 if the temperature interval is equal to 100° K (see Figs. 32 and 33). The variation of the molecular weight of the detonation products can be approximated by a single set of parameters (μ_o, μ_{T_i}) for the whole range 200 to 700° K and the resulting error is at the most of the order of 0.2 percent as shown in Figs. 34 to 36.

Similarly, the detonation velocity varies quasi-linearly with initial temperature and the quality of the approximation is practically independent of the dilution as can be seen in Fig. 38.

As a result, if the detonation characteristics are desired for a intermediate value of T_i they can easily be evaluated. As example the following case has been considered

p_i = 1 atm. ; m = n = o ; T_i = 313.16° K

	p/p_i	T/T_i	γ	γ^*	U_D	μ
exact results	17.88	3673.2	1.1287	1.2296	2834.8	14.4661
evaluation	17.94	3674.1	1.1287	1.2226	2835.1	14.4675

4.3 Influence of Initial Pressure

The effect of initial pressure on detonation characteristics is illustrated in Figs. 39 to 51. A general remark which can be made apriori is that when pressure increases dissociation decreases and the detonation characteristics such as p/p_i, T/T_i, μ, γ ... tend tc approach asymptotic values independent of p_i.

Figs. 39 and 40 illustrate the effect of p_i on detonation velocity. For stoichiometric mixtures, Fig. 39 shows that the variation of U_D, is practically proportional to log p_i for p_i ranging from 0.01 atm. to approximately 100 atm. The range in which this approximation is valid is extended to slightly higher values of p_i when T_i increases. Fig. 40 illustrates the effect of p_i on U_D for several dilutions for $T_i = 300^o$ K. From this figure it is seen that when dilution increases, the range of application of the previous approximation is appreciably reduced if the diluting gas is hydrogen, which is in agreement with the general remark made at the beginning of this section.

In Figs. 41 to 43 we have represented the temperature ratio across the detonation front (T/T_i) for several dilutions and initial temperatures (T_i). It is seen that a good approximation can again be obtained on the basis of a variation of T/T_i proportional to log p_i. The quality of the approximation is illustrated in these figures and in Table 6.

The effect of initial pressure on the speed of sound in the detonation products is illustrated in Figs. 44 to 46. The quality of a similar approximation (a $\sim$log p) is also shown in the figures. Here again it appears that for hydrogen dilution the coefficients to be used in the approximation have to be determined for each pressure interval.

Fig. 47 gives the molecular weight of the detonation products (μ) versus initial pressure (p_i) for a wide range of dilutions and in each case for the two extreme values of T_i which have been considered (that is for $T_i = 200^o$ K and 700^o K). It appears that the previous approximation is quite reliable provided that the coefficients (for stoichiometric mixtures) are determined for each pressure decade. Isentropic exponent (γ) and equilibrium specific heat ratio (γ^*) are presented in Figs. 48 to 50 and here again it is observed that the semi-logarithmic approximation is more reliable in the case of helium dilution. The same conclusions are applicable to the pressure ratio across the detonation wave (p/p_i) as Fig. 51 shows.

Table 6 gives an idea of the accuracy of the results which would be obtained by interpolation on the basis of semi-logarithmic variations.

5. COMPARISON WITH CONSTANT-VOLUME COMBUSTION

In Figs. 51 to 53, the final-to-initial temperature and pressure ratios are compared for the two combustion processes:

1) detonation as described in the present note.
2) constant volume combustion as described in Ref. 3.

The calculation shows that:

1) the final temperature is about 5 to 8 percent higher in the detonation products for stoichiometric mixtures at 298.15°K and initial pressures ranging from 1.0 to 1000 atmospheres. The difference increases with dilution and is slightly higher in the case of helium dilution.

2) the pressure of the detonation products is about twice the pressure reached at the end of a constant volume combustion.

3) consequences 1) and 2) have opposite effects on the composition of the combustion products. As indicated in Fig. 54, water vapour concentration is slightly lower in detonation products.

6. CONCLUSIONS

The characteristics of a fully developed Chapman-Jouguet detonation are given. That is, the jump conditions across the wave front in propagation velocity, composition and the other thermodynamic data of the detonation products, have been computed for a detonating mixture composed of stoichiometric hydrogen-oxygen mixture diluted with hydrogen or helium. The calculations were made for the following initial conditions: initial temperature ranging from 200 to 700° K, initial pressure ranging from 0.01 to 1000. atm., initial dilution up to 67 percent of hydrogen or helium.

The influence of initial conditions, namely dilution, initial temperature and pressure were investigated and linear, semilogarithmic, or logarithmic relations are presented for convenient interpolation.

It is observed that the variation of the equilibrium specific heat ratio, isentropic exponent, molecular weight and detonation velocity are almost linear with initial temperature. The temperature of the detonation products is only slightly affected by initial temperature variations. The logarithmic variation of the pressure jump across the detonation is approximately proportional to the logarithmic variation of the initial pressure.

It also appears that the variation of the detonation data (detonation velocity, temperature jump, ...) are almost proportional to the logarithmic variation of the initial pressure.

Pressure and temperature ratios across the detonation wave have been compared with the final-to-initial corresponding ratios in the case of a constant volume combustion. For identical fresh gases, it is observed that behind the detonation front, the fraction of dissociated gases is larger, the temperature of burned gases is slightly higher and that the pressure can be twice as high as in the case of a slow constant volume combustion.

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Tables of Thermodynamic Data for Detonation Products in Stoichiometric Oxygen-Hydrogen Mixtures Diluted With Helium and Hydrogen

TABLE 1

PI= 0.010

TI=200.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	I/MF
0.	0.4759E-00	0.1182F-00	0.1689F-00	0.596MF-01	0.1246E-00	0.5271E-01	0.	0.3831
0.500	0.4662E-00	0.9541F-01	0.2424F-00	0.2M4MF-01	0.1422E-00	0.3533E-01	0.	0.3269
1.000	0.4477E-00	0.7295E-01	0.2963E-00	0.1341E-01	0.1476E-00	0.2209E-01	0.	0.2848
1.500	0.4245F-00	0.5378E-01	0.3587E-00	0.6264E-02	0.1436E-00	0.1312E-01	0.	0.2520
2.000	0.3995E-00	0.387MF-01	0.417ME-00	0.2934E-02	0.1334E-00	0.75M7E-02	0.	0.2258
2.500	0.3743F-00	0.2765F-01	0.4723F-00	0.1393E-02	0.1200F-00	0.4332F-02	0.	0.2045
3.000	0.3503F-00	0.1964F-01	0.5215E 00	0.6743E-03	0.1055E-00	0.2467E-02	0.	0.1869
3.500	0.3279E-00	0.1395F-01	0.5652E 00	C.3335E-03	0.9123F-01	0.140MF-02	0.	0.1719
4.000	0.3073E-00	0.9924E-02	0.6039F 00	0.16M1E-03	0.7791E-01	0.M065E-03	0.	0.1592
4.500	0.2M86F-00	0.706MF-02	0.6379F 00	0..610E-04	0.6583E-01	0.4629E-03	0.	0.1484
5.000	0.2716F-00	0.5034F-02	0.6679F 00	0.4457E-04	0.5510E-01	0.2656E-03	0.	0.1385
5.500	0.2563F-00	0.35M0E-02	0.6943F 00	0.2320F-04	0.456ME-01	0.151MF-03	0.	0.1300
6.000	0.2423E-00	0.2536F-02	0.7175F 00	0.1209E-04	0.3751E-01	0.M614E-04	0.	0.1225

M	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.6660	-669.9	1.4247	12.0107	444.1	96.5071	7374.7	1.1071	1.2252	13.M039
0.5	6.6449	-66M.M	1.4266	10.5M29	479.5	91.2391	7353.9	1.1082	1.2193	12.1101
1.0	6.6290	-667.9	1.42M1	9.5170	499.7	79.2099	7275.6	1.1103	1.2041	10.8342
1.5	6.6167	-667.3	1.4292	M.6791	523.3	66.2402	7159.5	1.1134	1.1M87	9.M414
2.0	6.6069	-666.M	1.4302	M.012M	544.M	55.2425	7019.M	1.1173	1.1772	9.04M4
2.5	6.59MM	-666.3	1.4309	7.4676	564.5	46.6901	6M67.9	1.1217	1.1697	M.4012
3.0	6.5921	-666.0	1.4315	7.0133	5M2.6	40.1190	6711.1	1.1265	1.1654	7.M610
3.5	6.5M64	-665.7	1.4321	6.6289	599.4	34.9741	6553.4	1.1316	1.1633	7.4085
4.0	6.5M15	-665.4	1.4325	6.2994	614.9	30.M2M8	6396.6	1.1370	1.1631	7.0194
4.5	6.5773	-665.2	1.4329	6.0139	629.5	27.4091	6241.1	1.1428	1.1643	6.M823
5.0	6.5736	-665.0	1.4333	5.7640	643.0	24.5265	6087.0	1.1492	1.166M	6.3M73
5.5	6.5704	-664.M	1.4336	5.5435	655.M	22.0657	5933.M	1.1562	1.1706	6.126M
6.0	6.5675	-664.7	1.4339	5.3476	667.7	19.9449	5781.0	1.163M	1.1756	5.M950

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.242	2983.9	1410.4	2631.MM	5.925M	24.21M3	14.9165	1.M660	0.5359	1.1493
0.5	0.242	2974.7	1504.4	2M06.04	5.9265	24.2431	14.M736	1.M652	0.5361	1.1463
1.0	0.241	2967.0	15M4.6	2952.68	5.9093	24.1055	14.7352	1.M633	0.5367	1.1390
1.5	0.23M	2907.1	1653.6	3076.64	5.M793	23.M497	14.5355	1.M605	0.5375	1.1339
2.0	0.235	2859.M	1713.5	3141.90	5.M405	23.5137	14.2991	1.M569	0.53M5	1.1292
2.5	0.231	2M0M.7	1765.9	3272.00	5.7965	23.1303	14.0437	1.M529	0.5397	1.1250
3.0	0.227	2756.2	1M12.0	3349.65	5.7494	22.7229	13.7M10	1.M4M6	0.5409	1.1212
3.5	0.223	2703.5	1M53.0	3417.04	5.7010	22.3047	13.5177	1.M441	0.5423	1.1176
4.0	0.219	2651.4	1MM9.7	3475.71	5.6521	21.MM26	13.256M	1.M393	0.5437	1.1143
4.5	0.215	2599.9	1922.M	3526.79	5.6028	21.4586	12.9993	1.M347	0.5452	1.1112
5.0	0.210	2549.0	1952.7	3571.17	5.5536	21.0342	12.7452	1.M2MM	0.5468	1.1081
5.5	0.206	2498.7	1980.0	3609.55	5.5043	20.6073	12.4937	1.M230	0.54M6	1.1052
6.0	0.202	2448.M	2004.9	3642.30	5.4546	20.1782	12.2447	1.M167	0.5505	1.1024

PI= 0.010

TI=298.1500 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	I/MF
0.	0.465ME-00	0.1169E-00	0.1696E-00	0.6094E-01	0.1316E-00	0.5510E-01	0.	0.3799
0.500	0.4567F-00	0.949MF-01	0.2315F-00	0.2571E-01	0.1498E-00	0.3737E-01	0.	0.3242
1.000	0.4391F-00	0.7337F-01	0.2936F-00	0.1433E-01	0.1558E-00	0.2375E-01	0.	0.2824
1.500	0.4170E-00	0.5479F-01	0.3544F-00	0.6874E-02	0.1525E-00	0.1445E-01	0.	0.2500
2.000	0.3930F-00	0.4009F-01	0.4121F-00	0.3311E-02	0.1429E-00	0.M564E-02	0.	0.2242
2.500	0.36MMF-00	0.2905F-01	0.4655F-00	0.1619F-02	0.1300E-00	0.5025E-02	0.	0.2031
3.000	0.3456F-00	0.2099F-01	0.5139F 00	0.M0M1E-03	0.1157E-00	0.2947E-02	0.	0.1856
3.500	0.3239F-00	0.1520F-01	0.5572F 00	0.4140E-03	0.1016F-00	0.173ME-02	0.	0.170M
4.000	0.3039F-00	0.1104F-01	0.5957F 00	0.2159F-03	0.MM13E-01	0.1031E-02	0.	0.15M2
4.500	0.2857F-00	0.M046F-02	0.6297F 00	0.1150F-03	0.75M3E-01	0.6161E-03	0.	0.1473
5.000	0.2691F-00	0.5MM0F-02	0.65MMF 00	0.6223E-04	0.6476E-01	0.3696F-03	0.	0.1377
5.500	0.2541F-00	0.4304E-02	0.6864F 00	0.3405E-04	0.5493E-01	0.2221E-03	0.	0.1294
6.000	0.2405F-00	0.3149F-02	0.7100F 00	0.1M76F-04	0.4627E-01	0.1333E-03	0.	0.1219

M	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.9350	0.	1.4016	12.0107	537.9	102.1706	77M1.4	1.1054	1.2276	13.6M70
0.5	6.9289	0.	1.4021	10.5M29	571.1	96.M507	7759.2	1.1064	1.221M	12.0090
1.0	6.9242	0.	1.4025	9.5170	604.6	M4.6319	76M5.1	1.1083	1.2067	10.7463
1.5	6.9206	0.	1.402M	M.6791	633.0	71.2736	7576.9	1.1111	1.1911	9.7644
2.0	6.9177	0.	1.4030	M.012M	65M.M	59.7M3M	7447.0	1.1147	1.1790	M.9M05
2.5	6.9154	0.	1.4032	7.4676	6M2.5	50.7653	7306.7	1.1187	1.1706	M.3407
3.0	6.9134	0.	1.4034	7.0133	704.3	43.M056	7162.3	1.1230	1.1657	7.M090
3.5	6.9118	0.	1.4035	6.6289	724.5	3M.34M9	7017.5	1.1275	1.1629	7.3600
4.0	6.9103	0.	1.4036	6.2994	743.2	33.9566	6M74.7	1.1322	1.1617	6.9758
4.5	6.9091	0.	1.4037	6.0139	760.7	30.3273	6733.1	1.1373	1.1619	6.6430
5.0	6.9080	0.	1.4038	5.7640	777.0	27.2667	6594.1	1.1427	1.1633	6.3519
5.5	6.9071	0.	1.4039	5.5435	792.3	24.6449	6456.7	1.1485	1.165M	6.0950
6.0	6.9062	0.	1.4040	5.3476	M06.M	22.3741	6320.6	1.1549	1.1693	5.M664

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.160	2933.M	1403.6	2593.75	4.M223	15.956M	9.M399	1.04M0	0.5411	1.1396
0.5	0.160	2925.9	1497.1	2765.54	4.M256	15.9750	9.M134	1.M473	0.5413	1.1348
1.0	0.159	2900.7	1577.1	2910.61	4.M143	15.M925	9.7290	1.M455	0.5419	1.1298
1.5	0.157	2M64.4	1640.3	3033.70	4.7926	14.7363	9.6073	1.M42M	0.5427	1.1250
2.0	0.155	2821.4	1706.4	313M.67	4.7639	15.5102	9.4611	1.M395	0.5437	1.1208
2.5	0.153	2775.0	1759.2	322M.M4	4.730M	15.2949	9.3073	1.M354	0.5448	1.1169
3.0	0.150	2727.3	1805.M	3307.00	4.6954	15.0446	9.1473	1.M313	0.5461	1.1134
3.5	0.14M	2679.6	1M47.4	3375.1M	4.65MM	14.7MM9	M.9M73	1.M269	0.5474	1.1103
4.0	0.145	2632.4	1MM4.M	3434.97	4.6211M	14.5308M	M.M299	1.M224	0.5487	1.1074
4.5	0.143	2586.2	1914.7	3M97.94	4.5M47	14.2737	M.6741	1.M177	0.5501	1.1046
5.0	0.140	2540.7	1949.4	3533.78	4.5479	14.0177	M.5217	1.M127	0.5517	1.1020
5.5	0.13M	2496.1	1977.6	3574.92	4.5111	13.7625	M.3719	1.M074	0.5533	1.0995
6.0	0.135	2452.0	2003.4	3609.70	4.4743	13.5073	M.2241	1.M01M	0.5550	1.0970

PI= 0.010

TI=300.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4657E-00	0.1169E-00	0.1697E-00	0.6096E-01	0.1317E-00	0.5514E-01	0.	0.3798
0.500	0.4465E-00	0.9697E-01	0.2315E-00	0.2973E-01	0.1499E-00	0.3741E-01	0.	0.3242
1.000	0.4390E-00	0.7337E-01	0.2936E-00	0.1435E-01	0.1560E-00	0.2378E-01	0.	0.2824
1.500	0.4169E-00	0.5481E-01	0.3543E-00	0.6885E-02	0.1526E-00	0.1447E-01	0.	0.2500
2.000	0.3929E-00	0.4012E-01	0.4120E-00	0.3318E-02	0.1431E-00	0.8582E-02	0.	0.2241
2.500	0.3687E-00	0.2907E-01	0.4654E-00	0.1621E-02	0.1302E-00	0.5037E-02	0.	0.2030
3.000	0.3455E-00	0.2102E-01	0.5138E 00	0.8106E-03	0.1159E-00	0.2956E-02	0.	0.1856
3.500	0.3238E-00	0.1522E-01	0.5571E 00	0.4145E-03	0.1017E-00	0.1744E-02	0.	0.1708
4.000	0.3038E-00	0.1106E-01	0.5956E 00	0.2168E-03	0.8831E-01	0.1036E-02	0.	0.1582
4.500	0.2856E-00	0.8064E-02	0.6296E 00	0.1156E-03	0.7601E-01	0.6191E-03	0.	0.1473
5.000	0.2691E-00	0.5806E-02	0.6597E 00	0.6258E-04	0.6496E-01	0.3716E-03	0.	0.1377
5.500	0.2541E-00	0.4217E-02	0.6863E 00	0.3427E-04	0.5510E-01	0.2235E-03	0.	0.1293
6.000	0.2404E-00	0.3161E-02	0.7098E 00	0.1890E-04	0.4643E-01	0.1343E-03	0.	0.1219

M	CPI	MI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.9371	12.M	1.4015	12.0107	539.5	102.2620	7789.7	1.1054	1.2277	13.6850
0.5	6.9309	12.M	1.4020	10.5829	574.M	96.9431	7767.4	1.1064	1.221M	12.0072
1.0	6.9263	12.M	1.4023	9.5120	606.4	84.7267	7693.4	1.10M3	1.206M	10.744M
1.5	6.9227	12.M	1.4026	M.6791	634.9	71.3600	7585.1	1.1111	1.1911	9.7631
2.0	6.9198	12.M	1.4029	M.012M	660.M	59.M583	7455.6	1.1147	1.1790	M.9793
2.5	6.9174	12.M	1.4031	7.4676	6M4.6	50.M327	7315.5	1.1187	1.1708	M.4397
3.0	6.9154	12.7	1.4032	7.0133	706.5	43.M704	7171.2	1.1230	1.1657	7.MOM0
3.5	6.913M	12.7	1.4034	6.62M5	726.7	3M.40M4	7026.7	1.1274	1.1629	7.3592
4.0	6.9124	12.7	1.4035	6.2994	745.5	34.0109	6MM3.6	1.1341	1.1617	6.9750
4.5	6.9111	12.7	1.4036	6.0139	763.0	30.37M9	6742.7	1.1372	1.1619	6.6423
5.0	6.9100	12.7	1.4037	5.7640	779.4	27.3159	6603.9	1.1426	1.1633	6.3513
5.5	6.9091	12.7	1.4037	5.5435	794.8	24.6912	6466.M	1.14M4	1.165M	6.0944
6.0	6.90M2	12.7	1.403M	5.3476	M09.2	22.4171	6331.0	1.154M	1.1692	5.M659

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.15[illegible]	2933.0	1403.[illegible]	2593.09	4.M065	15.M536	9.7767	1.M476	0.5412	1.1494
0.5	0.149	2925.1	1407.0	2746.M2	4.M047	15.M720	9.7504	1.M469	0.5414	1.1346
1.0	0.158	2900.0	1577.1	2909.91	4.7985	15.7M99	9.6667	1.M451	0.5420	1.1476
1.5	0.156	2M63.M	1646.2	3032.99	4.7770	15.6351	9.5459	1.M425	0.542M	1.1249
2.0	0.154	2M20.0	1706.4	3137.03	4.74M4	15.4304	9.407M	1.M390	0.543M	1.1206
2.5	0.152	2774.[illegible]	1759.1	3228.12	4.7154	15.1970	9.24M3	1.M351	0.5449	1.1168
3.0	0.149	2726.9	1805.M	3306.27	4.6M01	14.94M5	9.0M95	1.M309	0.5462	1.1133
3.5	0.147	2679.2	1M47.4	3374.47	4.6M37	14.6942	M.9307	1.M266	0.5475	1.1102
4.0	0.144	2632.2	1MM4.M	3434.23	4.606M	14.43M7	M.7740	1.M221	0.54MM	1.1072
4.5	0.142	2586.0	1918.[illegible]	3486.M4	4.5699	14.1M47	M.6200	1.M174	0.5502	1.1045
5.0	0.139	2540.7	1948.4	3533.11	4.5332	13.9298	M.46M9	1.M124	0.551M	1.1019
5.5	0.137	2496.1	1977.6	3573.70	4.4996	13.6765	M.3203	1.M071	0.5534	1.0994
6.0	0.134	2452.1	2003.4	3609.09	4.4600	13.4235	M.1737	1.M015	0.5551	1.0969

PI= 0.010

TI=400.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4567E-00	0.1161E-00	0.1703E-00	0.6194E-01	0.1377E-00	0.5725E-01	0.	0.3770
0.500	0.4480E-00	0.9645E-01	0.2308E-00	0.3076E-01	0.1564E-00	0.3923E-01	0.	0.3218
1.000	0.4312E-00	0.7392E-01	0.2914E-00	0.1514E-01	0.1630E-00	0.2531E-01	0.	0.2804
1.500	0.4101E-00	0.5538E-01	0.3506E-00	0.7434E-02	0.1604E-00	0.1570E-01	0.	0.2482
2.000	0.3870E-00	0.4134E-01	0.4070E-00	0.3671E-02	0.1514E-00	0.9512E-02	0.	0.2226
2.500	0.3636E-00	0.3041E-01	0.4594E-00	0.1842E-02	0.1390E-00	0.5716E-02	0.	0.2017
3.000	0.3411E-00	0.2231E-01	0.5071E 00	0.9468E-03	0.1251E-00	0.3440E-02	0.	0.1844
3.500	0.3200E-00	0.1642E-01	0.5499E 00	0.4968E-03	0.1111E-00	0.2085E-02	0.	0.1698
4.000	0.3006E-00	0.1214E-01	0.5880E 00	0.2677E-03	0.9774E-01	0.1276E-02	0.	0.1573
4.500	0.2828E-00	0.9014E-02	0.6219E 00	0.1475E-03	0.8536E-01	0.7874E-03	0.	0.1464
5.000	0.2666E-00	0.6732E-02	0.6520E 00	0.8277E-04	0.7412E-01	0.4902E-03	0.	0.1370
5.500	0.2518E-00	0.5044E-02	0.6786E 00	0.4716E-04	0.6404E-01	0.3068E-03	0.	0.1287
6.000	0.2386E-00	0.3788E-02	0.7024E 00	0.2714E-04	0.5506E-01	0.1927E-03	0.	0.1213

M	CPI	MI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.04M9	712.6	426	12.0107	621.0	10A.M024	M25M.9	1.1042	1.2300	13.5M26
0.5	7.03M6	711.M	1.3934	10.5829	661.7	101.4792	M235.2	1.1051	1.2243	11.91M5
1.0	7.0302	711.3	1.3960	9.5120	69M.2	M9.2137	M163.7	1.1069	1.2094	10.6672
1.5	7.0246	710.M	1.3965	M.6791	731.0	75.6314	M061.3	1.1095	1.1936	9.6946
2.0	7.0195	710.5	1.3969	M.[illegible]	760.9	63.M061	7939.2	1.112M	1.1M11	M.94M3
2.5	7.0156	710.2	1.3952	7.4676	7MM.3	54.4396	7807.6	1.1165	1.1724	M.2M50
3.0	7.0121	709.9	1.3955	7.0133	M13.5	47.1790	7672.7	1.1209	1.1667	7.75M7
3.5	7.0093	709.7	1.3957	6.62M9	M36.M	41.4790	7537.9	1.1244	1.1632	7.3144
4.0	7.006M	709.6	1.3959	6.2994	M5M.5	36.MMMM	7405.2	1.12M6	1.1613	6.9342
4.5	7.0047	709.4	1.3960	6.0139	M7M.7	33.099M	7275.1	1.1330	1.160M	6.6051
5.0	7.0029	709.3	1.3962	5.7640	M97.6	29.9045	7147.M	1.1376	1.1613	6.3173
5.5	7.0013	709.2	1.3963	5.5435	915.3	27.1615	7022.M	1.1426	1.1627	6.0634
6.0	6.999M	709.1	1.3964	5.3476	931.9	24.7794	6M99.7	1.14M0	1.1651	5.M377

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.117	2M99.5	1400.0	2559.63	4.1219	11.7196	7.24MM	1.M2M3	0.5469	1.1309
0.5	0.117	2M92.[illegible]	1403.3	2729.30	4.1244	11.7365	7.2305	1.M277	0.5471	1.1262
1.0	0.117	2M69.0	1573.3	2872.96	4.1151	11.67M7	7.1724	1.M260	0.5476	1.1214
1.5	0.116	2835.5	1642.6	2995.14	4.0973	11.5715	7.0M07	1.M234	0.54M4	1.1170
2.0	0.114	2795.9	1703.1	3099.69	4.0737	11.4296	6.9M96	1.M200	0.5494	1.1130
2.5	0.113	2753.1	1756.3	3189.80	4.0466	11.2670	6.8M26	1.M162	0.5506	1.1095
3.0	0.111	2709.1	1803.[illegible]	3268.19	4.017M	11.0941	6.772M	1.M121	0.551M	1.1063
3.5	0.109	2665.3	1M4[illegible].7	3336.86	3.9M76	10.9174	6.6632	1.M079	0.5521	1.1034
4.0	0.107	2622.1	1MM3.7	3397.30	3.9575	10.7407	6.5553	1.M036	0.5545	1.100M
4.5	0.106	2579.9	1[illegible]1.2	3451.02	3.9276	10.5649	6.4498	1.[illegible]9[illegible]	0.5558	1.0983
5.0	0.104	2538.7	1949.7	3498.54	3.8979	10.3912	6.3467	1.7944	0.5573	1.0960
5.5	0.102	2498.4	1973.5	3540.70	3.8685	10.2191	6.2460	1.7M96	0.55MM	1.093M
6.0	0.100	2458.9	2005.1	3577.93	3.8393	10.0481	6.1472	1.7M44	0.5604	1.0917

PI= 0.010

TI=500.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4485E-00	0.1156E-00	0.1710E-00	0.6274E-01	0.1431E-00	0.5919E-01	0.	0.3744
0.500	0.4402E-00	0.9490E-01	0.2303E-00	0.3161E-01	0.1621E-00	0.4091E-01	0.	0.3196
1.000	0.4240E-00	0.7451E-01	0.2896E-00	0.1585E-01	0.1693E-00	0.2675E-01	0.	0.2785
1.500	0.4037E-00	0.5682E-01	0.3475E-00	0.7943E-02	0.1673E-00	0.1686E-01	0.	0.2466
2.000	0.3814E-00	0.4259E-01	0.4026E-00	0.4008E-02	0.1590E-00	0.1041E-01	0.	0.2212
2.500	0.3584E-00	0.3167E-01	0.4540E-00	0.2056E-02	0.1471E-00	0.6386E-02	0.	0.2005
3.000	0.3369E-00	0.2354E-01	0.5009E 00	0.1079E-02	0.1336E-00	0.3928E-02	0.	0.1833
3.500	0.3164E-00	0.1756E-01	0.5432E 00	0.5815E-03	0.1198E-00	0.2434E-02	0.	0.1688
4.000	0.2974E-00	0.1317E-01	0.5810E 00	0.3215E-03	0.1066E-00	0.1529E-02	0.	0.1564
4.500	0.2800E-00	0.9943E-02	0.6147E 00	0.1820E-03	0.9419E-01	0.9702E-03	0.	0.1457
5.000	0.2642E-00	0.7551E-02	0.6446E 00	0.1052E-03	0.8284E-01	0.6218E-03	0.	0.1363
5.500	0.2499E-00	0.5765E-02	0.6713E 00	0.6191E-04	0.7266E-01	0.4019E-03	0.	0.1280
6.000	0.2367E-00	0.4419E-02	0.6951E 00	0.3696E-04	0.6344E-01	0.2615E-03	0.	0.1207

M	CPI	MI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	7.1393	1422.0	1.3857	12.0107	692.6	110.6705	8753.0	1.1033	1.2323	13.4893
0.5	7.1184	1419.7	1.3873	10.5829	734.2	105.3693	8726.5	1.1043	1.2268	11.8375
1.0	7.1028	1418.0	1.3885	9.5120	779.0	93.1235	8656.1	1.1059	1.2120	10.5963
1.5	7.0906	1416.7	1.3894	8.6791	815.8	79.4252	8557.3	1.1083	1.1962	9.6318
2.0	7.0809	1415.6	1.3901	8.0128	849.3	67.3865	8440.6	1.1114	1.1834	8.8622
2.5	7.0729	1414.7	1.3907	7.4478	870.9	57.7321	8315.5	1.1147	1.1742	8.2344
3.0	7.0662	1414.0	1.3912	7.0133	904.1	50.2322	8187.6	1.1183	1.1679	7.7127
3.5	7.0606	1413.3	1.3917	6.6289	934.2	44.3344	8060.5	1.1220	1.1639	7.2724
4.0	7.0558	1412.8	1.3921	6.2994	958.5	39.5858	7935.6	1.1258	1.1615	6.8958
4.5	7.0516	1412.4	1.3924	6.0139	981.1	35.6707	7814.0	1.1297	1.1603	6.5698
5.0	7.0480	1411.9	1.3927	5.7640	1002.2	32.3666	7695.5	1.1338	1.1602	6.2868
5.5	7.0448	1411.6	1.3929	5.5435	1022.1	29.5329	7579.9	1.1381	1.1609	6.0334
6.0	7.0419	1411.3	1.3931	5.3476	1040.7	27.0676	7466.5	1.1427	1.1624	5.8100

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.093	2874.9	1398.3	2528.71	3.6513	9.2586	5.7499	1.8084	0.5530	1.1231
0.5	0.093	2868.0	1491.5	2696.47	3.6527	9.2711	5.7361	1.8079	0.5531	1.1186
1.0	0.092	2846.3	1571.6	2838.73	3.6441	9.2301	5.6926	1.8063	0.5536	1.1140
1.5	0.092	2815.1	1641.1	2960.04	3.6284	9.1592	5.6301	1.8036	0.5544	1.1098
2.0	0.090	2778.1	1702.0	3064.04	3.6079	9.0441	5.5562	1.8003	0.5555	1.1060
2.5	0.089	2738.2	1755.6	3153.94	3.5844	8.9223	5.4763	1.7965	0.5566	1.1027
3.0	0.088	2697.2	1803.2	3232.34	3.5594	8.7928	5.3945	1.7925	0.5579	1.0997
3.5	0.087	2656.4	1846.0	3301.24	3.5337	8.6607	5.3125	1.7884	0.5592	1.0971
4.0	0.085	2616.4	1884.5	3362.25	3.5079	8.5286	5.2328	1.7841	0.5605	1.0947
4.5	0.084	2577.4	1919.6	3416.53	3.4824	8.3982	5.1548	1.7798	0.5619	1.0924
5.0	0.083	2539.5	1951.7	3464.94	3.4572	8.2698	5.0789	1.7756	0.5633	1.0903
5.5	0.081	2502.9	1981.1	3508.19	3.4325	8.1433	5.0051	1.7714	0.5647	1.0884
6.0	0.080	2466.6	2008.4	3546.79	3.4081	8.0185	4.9331	1.7660	0.5663	1.0865

PI= 0.010

TI=600.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4407E-00	0.1153E-00	0.1715E-00	0.6344E-01	0.1480E-00	0.6102E-01	0.	0.3719
0.500	0.4327E-00	0.9504E-01	0.2298E-00	0.3239E-01	0.1675E-00	0.4251E-01	0.	0.3175
1.000	0.4172E-00	0.7513E-01	0.2879E-00	0.1651E-01	0.1751E-00	0.2812E-01	0.	0.2767
1.500	0.3976E-00	0.5779E-01	0.3445E-00	0.8425E-02	0.1737E-00	0.1799E-01	0.	0.2451
2.000	0.3760E-00	0.4374E-01	0.3986E-00	0.4336E-02	0.1660E-00	0.1130E-01	0.	0.2199
2.500	0.3542E-00	0.3289E-01	0.4490E-00	0.2270E-02	0.1546E-00	0.7054E-02	0.	0.1993
3.000	0.3329E-00	0.2472E-01	0.4952E-00	0.1216E-02	0.1415E-00	0.4427E-02	0.	0.1822
3.500	0.3129E-00	0.1866E-01	0.5369E 00	0.6695E-03	0.1279E-00	0.2806E-02	0.	0.1678
4.000	0.2943E-00	0.1401E-01	0.5743E 00	0.3785E-03	0.1150E-00	0.1794E-02	0.	0.1555
4.500	0.2773E-00	0.1085E-01	0.6077E 00	0.2193E-03	0.1027E-00	0.1167E-02	0.	0.1449
5.000	0.2618E-00	0.8359E-02	0.6376E 00	0.1300E-03	0.9136E-01	0.7669E-03	0.	0.1356
5.500	0.2477E-00	0.6642E-02	0.6642E 00	0.7858E-04	0.8106E-01	0.5132E-03	0.	0.1274
6.000	0.2348E-00	0.5054E-02	0.6880E 00	0.4829E-04	0.7176E-01	0.3411E-03	0.	0.1202

M	CPI	MI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	7.2295	2140.4	1.3791	12.0107	756.8	114.1053	9262.1	1.1027	1.2346	13.4017
0.5	7.1980	2135.5	1.3814	10.5829	807.0	109.0342	9231.7	1.1036	1.2291	11.7615
1.0	7.1744	2131.8	1.3831	9.5120	851.7	96.6496	9160.7	1.1051	1.2146	10.5296
1.5	7.1561	2128.9	1.3845	8.6791	892.1	82.9041	9064.0	1.1074	1.1988	9.5727
2.0	7.1414	2126.6	1.3855	8.0128	928.8	70.6744	8951.0	1.1102	1.1857	8.8091
2.5	7.1293	2124.7	1.3864	7.4478	962.4	60.8330	8830.7	1.1133	1.1761	8.1864
3.0	7.1193	2123.2	1.3872	7.0133	991.4	53.1286	8708.2	1.1166	1.1695	7.6689
3.5	7.1108	2121.8	1.3878	6.6289	1022.0	47.0542	8587.0	1.1200	1.1650	7.2323
4.0	7.1036	2120.7	1.3884	6.2994	1044.6	42.1701	8468.4	1.1234	1.1621	6.8588
4.5	7.0973	2119.7	1.3889	6.0139	1073.4	38.1435	8353.9	1.1270	1.1605	6.5356
5.0	7.0918	2118.8	1.3893	5.7640	1096.6	34.7513	8241.8	1.1306	1.1597	6.2531
5.5	7.0869	2118.1	1.3897	5.5435	1118.9	31.8392	8133.5	1.1344	1.1598	6.0040
6.0	7.0826	2117.4	1.3900	5.3476	1138.7	29.3069	8029.2	1.1384	1.1606	5.7826

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.076	2855.8	1397.8	2499.17	3.3021	7.6270	4.7597	1.7880	0.5593	1.1158
0.5	0.076	2849.3	1490.9	2665.07	3.3026	7.6379	4.7448	1.7875	0.5594	1.1114
1.0	0.076	2828.8	1571.2	2808.98	3.2946	7.6063	4.7147	1.7859	0.5599	1.1070
1.5	0.075	2799.4	1640.9	2926.30	3.2804	7.5439	4.6657	1.7833	0.5607	1.1030
2.0	0.075	2764.7	1702.1	3029.79	3.2620	7.4606	4.6078	1.7800	0.5618	1.0994
2.5	0.074	2727.2	1756.1	3119.28	3.2411	7.3649	4.5454	1.7762	0.5630	1.0962
3.0	0.073	2688.8	1804.2	3197.51	3.2189	7.2632	4.4814	1.7723	0.5643	1.0935
3.5	0.072	2650.6	1847.4	3266.52	3.1962	7.1594	4.4177	1.7682	0.5656	1.0910
4.0	0.071	2613.2	1886.5	3327.73	3.1736	7.0561	4.3553	1.7640	0.5669	1.0888
4.5	0.070	2576.8	1922.1	3382.38	3.1512	6.9542	4.2947	1.7597	0.5683	1.0868
5.0	0.069	2541.6	1954.7	3431.34	3.1292	6.8545	4.2359	1.7555	0.5696	1.0849
5.5	0.068	2507.4	1984.7	3475.34	3.1077	6.7567	4.1791	1.7511	0.5711	1.0831
6.0	0.067	2474.3	2012.5	3514.90	3.0866	6.6607	4.1239	1.7466	0.5726	1.0814

PI= 0.010

TI=700.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6835E-00	0.1151E-00	0.1720E-00	0.6404E-01	0.152AE-00	0.62A0E-01	0.	0.3696
0.500	0.6256E-00	0.9923E-01	0.2294E-00	0.9311E-01	0.1726E-00	0.4405E-01	0.	0.3156
1.000	0.4107E-00	0.7575E-01	0.2A63E-00	0.1713E-01	0.1807E-00	0.2946E-01	0.	0.2751
1.500	0.1917E-00	0.5A73E-01	0.241AE-00	0.AA90E-02	0.1798E-00	0.1910E-01	0.	0.2436
2.000	0.5708E-00	0.4446E-01	0.194AE-00	0.4658E-02	0.1726E-00	0.121AE-01	0.	0.2186
2.500	0.3696E-00	0.3406E-01	0.4449E-00	0.2484E-02	0.161AE-00	0.7739E-02	0.	0.1982
3.000	0.3290E-00	0.2587E-01	0.4897E-00	0.1357E-02	0.1491E-00	0.4940E-02	0.	0.1812
3.500	0.3094E-00	0.1974E-01	0.5309E 00	0.7612E-03	0.1360E-00	0.31A7E-02	0.	0.1669
4.000	0.2913E-00	0.1517E-01	0.5679E 00	0.4390E-03	0.1291E-00	0.20A9E-02	0.	0.1547
4.500	0.2767E-00	0.1174E-01	0.6010E 00	0.2597E-03	0.1109E-00	0.13A0E-02	0.	0.1442
5.000	0.2595E-00	0.9162E-02	0.6307E 00	0.1573E-03	0.9963E-01	0.9262E-03	0.	0.1349
5.500	0.2456E-00	0.7199E-02	0.6572E 00	0.9726E-04	0.A931E-01	0.6292E-03	0.	0.1268
6.000	0.2329E-00	0.5693E-02	0.6A10E 00	0.6125E-04	0.7994E-01	0.4319E-03	0.	0.1196

M	CPI	MI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.3192	2867.9	1.3727	12.0107	A15.6	117.2253	9781.4	1.1022	1.2369	13.317A
0.5	7.27AA	2859.4	1.3755	10.5A29	A69.A	112.0024	9746.0	1.1030	1.2315	11.68AA
1.0	7.24A6	2852.9	1.3777	9.5170	91A.1	99.911A	9673.4	1.1045	1.2171	10.465A
1.5	7.2251	2AAA.0	1.3794	A.6791	961.A	A6.15A3	9577.4	1.1066	1.2013	9.5159
2.0	7.2063	2AA4.0	1.3AOA	A.012A	1001.5	73.A165	9467.0	1.1092	1.1841	A.7581
2.5	7.1909	2AA0.7	1.3A19	7.4676	1037.A	A3.7936	9350.2	1.1121	1.1782	A.1401
3.0	7.1780	2A3A.0	1.3A2A	7.0133	1071.3	55.9122	9231.A	1.1152	1.1712	7.6266
3.5	7.1672	2A35.7	1.3A36	6.6289	1102.2	49.6900	9115.1	1.1183	1.1663	7.1933
4.0	7.1579	2A33.7	1.3A4A	6.2994	1130.9	44.67AA	9001.6	1.1215	1.1631	6.A22A
4.5	7.149A	2A32.0	1.3A49	6.0139	1157.7	40.5543	AA91.A	1.1246	1.1609	6.5022
5.0	7.1427	2A30.5	1.3A54	5.7640	1182.A	37.0A20	A785.9	1.1279	1.159A	6.2220
5.5	7.1365	2A29.2	1.3A59	5.5435	1206.3	34.1047	A6A3.6	1.1313	1.1593	5.9769
6.0	7.1310	2A2A.0	1.3A63	5.3476	1228.A	31.5151	A5A4.5	1.134A	1.1596	5.7555

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.065	2840.4	1398.0	2470.33	3.0289	6.4663	4.0577	1.7670	0.5659	1.10AA
0.5	0.065	2834.2	1491.7	2634.39	3.02AA	6.4760	4.0AAA	1.7666	0.5660	1.1045
1.0	0.065	2814.A	1571.6	2773.01	3.0217	6.4507	4.0711	1.7651	0.5666	1.1003
1.5	0.064	2787.0	1641.6	2893.24	3.00A2	6.4003	3.9A15	1.7625	0.5674	1.0964
2.0	0.063	2754.2	1703.0	2995.95	2.9916	6.3327	3.9346	1.7592	0.56A4	1.0930
2.5	0.063	2718.9	1757.A	3085.07	2.9727	6.2551	3.AA41	1.7554	0.5697	1.0900
3.0	0.062	2AA2.7	1A06.0	3163.04	2.9527	6.1724	3.A324	1.7514	0.5710	1.0A74
3.5	0.061	2646.7	1A49.6	3231.94	2.9323	6.0AA2	3.7A09	1.7473	0.5723	1.0851
4.0	0.060	2611.5	1A89.2	3293.23	2.9120	6.0044	3.7107	1.7432	0.5737	1.0831
4.5	0.059	2577.A	1925.3	3348.05	2.A919	5.9222	3.6A20	1.7390	0.5750	1.0A12
5.0	0.058	2544.4	1958.A	3397.43	2.A726	5.A418	3.6349	1.7348	0.5764	1.0795
5.5	0.058	2512.7	1988.A	3441.AA	2.A533	5.7635	3.5A95	1.7306	0.5778	1.0778
6.0	0.057	24A1.9	2017.1	3AA2.07	2.A347	5.6A69	3.5456	1.7262	0.5793	1.0763

PI= 0.100

TI=200.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.5047E 00	0.1294E-00	0.1673E-00	0.5372E-01	0.99A0E-01	0.4507E-01	0.	0.3933
0.500	0.4925E-00	0.1020E-00	0.2275E-00	0.2976E-01	0.1153E-00	0.2A96E-01	0.	0.3355
1.000	0.4703E-00	0.7549E-01	0.3079E-00	0.1036E-01	0.1189E-00	0.1710E-01	0.	0.291A
1.500	0.4433E-00	0.5369E-01	0.3753E-00	0.4492E-02	0.1136E-00	0.95A0E-02	0.	0.2578
2.000	0.4149E-00	0.3730E-01	0.4377E-00	0.1965E-02	0.1029E-00	0.5206E-02	0.	0.2307
2.500	0.3A70E-00	0.2559E-01	0.4938E-00	0.A730E-03	0.A094E-01	0.27A7E-02	0.	0.20A6
3.000	0.3607E-00	0.1746E-01	0.5434E 00	0.304AE-03	0.7657E-01	0.14A2E-02	0.	0.1902
3.500	0.3365E-00	0.1187E-01	0.5A6AE 00	0.1A15E-03	0.6391E-01	0.7A57E-03	0.	0.174A
4.000	0.3144E-00	0.8056E-02	0.624AE 00	0.A447E-04	0.5249E-01	0.4149E-03	0.	0.1615
4.500	0.2945E-00	0.5447E-02	0.6573E 00	0.3962E-04	0.4251E-01	0.2174E-03	0.	0.1501
5.000	0.2765E-00	0.3665E-02	0.6858E 00	0.1A63E-04	0.3396E-01	0.1133E-03	0.	0.1402
5.500	0.2602E-00	0.2451E-02	0.7105E 00	0.A73AE-05	0.2679E-01	0.5A22E-04	0.	0.1314
6.000	0.2455E-00	0.1625E-02	0.7320E 00	0.4071E-05	0.20A6E-01	0.294AE-04	0.	0.1236

M	CPI	MI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.6660	-669.9	1.4247	12.0107	444.1	72.3936	A322.3	1.1184	1.2229	14.1719
0.5	6.6449	-668.A	1.4266	11.5A29	473.5	67.9410	A291.5	1.1199	1.2169	12.A.53
1.0	6.6290	-667.9	1.4281	9.5170	499.7	58.1926	A175.9	1.1227	1.2021	11.1019
1.5	6.6167	-667.3	1.4292	A.6791	523.3	48.22AA	8007.2	1.126A	1.1886	10.0687
2.0	6.6069	-666.A	1.4302	A.012A	544.A	40.1136	7808.3	1.1319	1.1796	9.2419
2.5	6.599AA	-666.3	1.4309	7.4676	564.5	33.9124	7594.A	1.1377	1.1747	A.5665
3.0	6.5921	-666.0	1.4315	7.0133	582.6	29.1767	7375.A	1.1440	1.1730	A.0045
3.5	6.5864	-665.7	1.4321	6.6289	599.4	25.6732	7156.2	1.1507	1.1737	7.5298
4.0	6.5815	-665.6	1.4325	6.2994	614.9	22.5033	6938.1	1.1580	1.1761	7.1232
4.5	6.5773	-665.2	1.4329	6.0139	629.5	20.0737	6722.2	1.165A	1.1801	6.7709
5.0	6.5736	-665.0	1.4333	5.7640	643.0	18.0570	6508.7	1.1743	1.1855	6.4626
5.5	6.5706	-664.A	1.4336	5.5435	655.A	16.36M6	6297.7	1.1834	1.1922	6.1904
6.0	6.5675	-664.7	1.4339	5.3476	667.7	14.9522	6089.2	1.1931	1.1999	5.9482

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	2.62A	3333.6	1479.0	2751.06	6.1942	26.2758	16.66A0	1.A601	0.5376	1.1799
0.5	2.630	3321.6	1577.7	2932.95	6.1946	26.2959	16.6079	1.A590	0.5379	1.1761
1.0	2.610	32A1.0	1660.9	3083.69	6.1715	26.0954	16.4069	1.A566	0.5386	1.1671
1.5	2.574	3223.0	1731.A	3208.97	6.1322	25.7399	16.1150	1.A530	0.5397	1.16C1
2.0	2.52A	3154.4	1792.6	3313.59	6.0A22	25.2A49	15.7769	1.A485	0.5410	1.1534
2.5	2.477	3083.2	1845.1	3401.52	6.0259	24.7737	15.4158	1.A435	0.5424	1.1471
3.0	2.423	3009.4	1891.0	3475.89	5.9861	24.2325	15.0469	1.A3A1	0.5440	1.1413
3.5	2.368	2935.6	1931.4	3538.89	5.9049	23.6769	14.6780	1.A323	0.5458	1.1359
4.0	2.312	2862.4	1967.0	3592.70	5.A415	23.1154	14.3127	1.A262	0.5476	1.130A
4.5	2.255	2790.5	1998.7	3637.11	5.7781	22.5505	13.9523	1.A197	0.5495	1.1259
5.0	2.198	2719.4	2026.9	3674.48	5.7142	21.9841	13.596A	1.A128	0.5516	1.1212
5.5	2.142	2649.2	2052.1	3705.13	5.6500	21.4174	13.2462	1.A056	0.5538	1.1167
6.0	2.085	2580.0	2074.4	3729.59	5.5853	20.A518	12.9002	1.7979	0.5562	1.1123

PI= 0.100

TI=298.1500 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4924E-00	0.1289E-00	0.1690E-00	0.5511E-01	0.1068E-00	0.4777E-01	0.	0.3896
0.500	0.4809E-00	0.1025E-00	0.2373E-00	0.2506E-01	0.1230E-00	0.3121E-01	0.	0.3324
1.000	0.4660E-00	0.7699E-01	0.3056E-00	0.1129E-01	0.1273E-00	0.1890E-01	0.	0.2892
1.500	0.4344E-00	0.4572E-01	0.3711E-00	0.5081E-02	0.1226E-00	0.6191E-02	0.	0.2557
2.000	0.4075E-00	0.3949E-01	0.4420E-00	0.2308E-02	0.1126E-00	0.3405E-02	0.	0.2289
2.500	0.3809E-00	0.2769E-01	0.4871E-00	0.1066E-02	0.9986E-01	0.1885E-02	0.	0.2070
3.000	0.3556E-00	0.1934E-01	0.5361E 00	0.5024E-03	0.8651E-01	0.1045E-02	0.	0.1889
3.500	0.3323E-00	0. 350E-01	0.5793E 00	0.2416E-03	0.7465E-01	0.1045E-02	0.	0.1737
4.000	0.3110E-00	0.9422E-02	0.6171E 00	0.1181E-03	0.6184E-01	0.5793E-03	0.	0.1606
4.500	0.2917E-00	0.6576E-02	0.6501E 00	0.5852E-04	0.5133E-01	0.3211E-03	0.	0.1493
5.000	0.2742E-00	0.4583E-02	0.6789E 00	0.2923E-04	0.4216E-01	0.1775E-03	0.	0.1395
5.500	0.2581E-00	0.3185E-02	0.7041E 00	0.1465E-04	0.3429E-01	0.9755E-04	0.	0.1308
6.000	0.2440E-00	0.2205E-02	0.7261E 00	0.7369E-05	0.2761E-01	0.5318E-04	0.	0.1231

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	6.9350	0.	1.4016	12.0107	537.9	76.9141	8723.3	1.1166	1.2255	14.0397
0.5	6.9289	0.	1.4021	10.5829	573.1	72.4518	8692.2	1.1180	1.2196	12.3116
1.0	6.9242	0.	1.4025	9.5120	604.6	67.9605	8585.1	1.1204	1.2068	11.0046
1.5	6.9206	0.	1.4028	8.6791	633.0	63.7467	8430.0	1.1242	1.1909	9.9852
2.0	6.9177	0.	1.4030	8.0128	658.8	59.7001	8247.7	1.1288	1.1810	9.1700
2.5	6.9154	0.	1.4032	7.4676	682.5	57.0968	8052.2	1.1339	1.1752	8.5042
3.0	6.9134	0.	1.4034	7.0133	704.3	52.0246	7852.2	1.1395	1.1725	7.9505
3.5	6.9118	0.	1.4035	6.6289	724.5	48.0466	7652.1	1.1455	1.1719	7.4827
4.0	6.9103	0.	1.4036	6.2994	743.2	44.8479	7453.9	1.1518	1.1732	7.0823
4.5	6.9091	0.	1.4037	6.0139	760.7	42.2178	7258.3	1.1587	1.1759	6.7355
5.0	6.9080	0.	1.4038	5.7640	777.0	40.0200	7065.6	1.1660	1.1799	6.4321
5.5	6.9071	0.	1.4039	5.5435	792.3	38.1641	6875.5	1.1739	1.1851	6.1642
6.0	6.9062	0.	1.4040	5.3476	806.8	36.5863	6687.7	1.1824	1.1912	5.9260

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	1.733	3276.2	1471.9	2714.04	5.0460	17.3331	10.9883	1.8439	0.5423	1.1689
0.5	1.735	3265.4	1570.2	2893.71	5.0492	17.3501	10.9522	1.8429	0.5426	1.1634
1.0	1.723	3229.1	1653.3	3043.33	5.0338	17.2316	10.8303	1.8407	0.5433	1.1569
1.5	1.702	3177.0	1724.5	3168.41	5.0055	17.0168	10.6558	1.8373	0.5443	1.1505
2.0	1.674	3116.2	1785.9	3273.54	4.9686	16.7405	10.4519	1.8330	0.5456	1.1444
2.5	1.643	3051.2	1839.2	3362.47	4.9266	16.4290	10.2338	1.8282	0.5470	1.1388
3.0	1.610	2984.8	1886.0	3438.30	4.8818	16.0993	10.0110	1.8230	0.5485	1.1336
3.5	1.576	2918.5	1927.3	3503.19	4.8354	15.7618	9.7886	1.8176	0.5502	1.1289
4.0	1.542	2853.0	1966.2	3558.82	4.7884	15.4210	9.5688	1.8119	0.5519	1.1243
4.5	1.508	2788.5	1997.1	3606.41	4.7410	15.0797	9.3526	1.8058	0.5538	1.1200
5.0	1.474	2725.1	2026.7	3646.92	4.6935	14.7388	9.1401	1.7994	0.5557	1.1159
5.5	1.440	2662.8	2053.4	3681.05	4.6458	14.3982	8.9309	1.7927	0.5578	1.1120
6.0	1.406	2601.3	2077.4	3709.36	4.5979	14.0587	8.7249	1.7856	0.5600	1.1082

PI= 0.100

TI=300.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4922E-00	0.1289E-00	0.1691E-00	0.4413E-01	0.1069E-00	0.4782E-01	0.	0.3896
0.500	0.4807E-00	0.1026E-00	0.2373E-00	0.2508E-01	0.1231E-00	0.3125E-01	0.	0.3323
1.000	0.4659E-00	0.7701E-01	0.3055E-00	0.1131E-01	0.1274E-00	0.1893E-01	0.	0.2892
1.500	0.4344E-00	0.5576E-01	0.3710E-00	0.5092E-02	0.1228E-00	0.1093E-01	0.	0.2556
2.000	0.4074E-00	0.3953E-01	0.4419E-00	0.2314E-02	0.1127E-00	0.6147E-02	0.	0.2289
2.500	0.3808E-00	0.2773E-01	0.4870E-00	0.1069E-02	0.1000E-00	0.3417E-02	0.	0.2070
3.000	0.3556E-00	0.1937E-01	0.5360F 00	0.5044E-03	0.8669E-01	0.1893E-02	0.	0.1889
3.500	0.3322F-00	0.1353E-01	0.5791F 00	0.2427E-03	0.7482E-01	0.1050E-02	0.	0.1736
4.000	0.3109E-00	0.9447E-02	0.6169F 00	0.1188E-03	0.6201E-01	0.5825E-03	0.	0.1606
4.500	0.2916F-00	0.6596E-02	0.6499E 00	0.5890E-04	0.5149E-01	0.3232E-03	0.	0.1493
5.000	0.2741F-00	0.4600E-02	0.6788E 00	0.2965E-04	0.4232E-01	0.1788E-03	0.	0.1395
5.500	0.2583F-00	0.3199E-02	0.7040F 00	0.1478E-04	0.3443E-01	0.9839E-04	0.	0.1308
6.000	0.2440F-00	0.2216E-02	0.7260F 00	0.7418E-05	0.2773E-01	0.5370E-04	0.	0.1231

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	6.9371	12.8	1.4015	12.0107	539.5	76.9857	8731.5	1.1166	1.2255	14.0375
0.5	6.9309	12.8	1.4020	10.5829	574.8	72.5263	8700.6	1.1179	1.2196	12.3097
1.0	6.9263	12.8	1.4023	9.5120	606.4	67.6309	8593.4	1.1204	1.2069	11.0029
1.5	6.9227	12.8	1.4026	8.6791	636.9	62.3168	8438.6	1.1241	1.1909	9.9838
2.0	6.9198	12.8	1.4029	8.0128	664.8	63.7607	8256.6	1.1287	1.1810	9.1688
2.5	6.9174	12.7	1.4031	7.4676	688.6	57.1573	8061.6	1.1339	1.1752	8.5031
3.0	6.9154	12.7	1.4032	7.0133	706.5	52.0751	7861.6	1.1396	1.1726	7.9495
3.5	6.9138	12.7	1.4034	6.6289	726.7	28.0922	7661.8	1.1456	1.1719	7.4819
4.0	6.9124	12.7	1.4035	6.2994	745.5	24.8890	7463.9	1.1517	1.1731	7.0816
4.5	6.9111	12.7	1.4036	6.0139	763.0	22.2564	7268.8	1.1585	1.1758	6.7349
5.0	6.9100	12.7	1.4037	5.7640	779.4	20.0571	7076.4	1.1659	1.1798	6.431
5.5	6.9091	12.7	1.4037	5.5435	794.8	18.1974	6886.6	1.1737	1.1849	6.1638
6.0	6.9082	12.7	1.4038	5.3476	809.2	16.6168	6699.2	1.1821	1.1911	5.9255

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	1.722	3279.3	1471.8	2713.38	5.0295	17.2216	10.9177	1.8436	0.5424	1.1688
0.5	1.724	3266.6	1570.0	2893.05	5.0328	17.2388	10.8819	1.8427	0.5427	1.1632
1.0	1.712	3228.3	1653.3	3042.66	5.0174	17.1207	10.7609	1.8404	0.5434	1.1567
1.5	1.691	3176.4	1724.4	3167.72	4.9892	16.9080	10.5879	1.8370	0.5444	1.1503
2.0	1.663	3115.7	1785.8	3272.83	4.9525	16.6341	10.3856	1.8327	0.5456	1.1443
2.5	1.632	3050.8	1839.2	3361.80	4.9107	16.3248	10.1692	1.8279	0.5471	1.1387
3.0	1.600	2984.5	1885.9	3437.63	4.8661	15.9977	9.9482	1.8228	0.5486	1.1335
3.5	1.566	2918.3	1927.3	3502.58	4.8200	15.6626	9.7275	1.8173	0.5503	1.1287
4.0	1.532	2852.9	1964.1	3558.29	4.7731	15.3245	9.5095	1.8116	0.5520	1.1242
4.5	1.499	2788.5	1997.1	3605.87	4.7259	14.9860	9.2951	1.8056	0.5538	1.1199
5.0	1.465	2725.3	2026.7	3646.43	4.6786	14.6478	9.0842	1.7992	0.5558	1.1158
5.5	1.431	2663.0	2053.4	3680.59	4.6311	14.3102	8.8768	1.7924	0.5579	1.1119
6.0	1.397	2601.7	2077.4	3708.98	4.5835	13.9734	8.6725	1.7854	0.5601	1.1081

PI= 0.100

TI=600.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6A16F-00	0.12A7E-00	0.1705E-00	0.5620E-01	0.1128E-00	0.5016E-01	0.	0.3864
0.500	0.4706F-00	0.1092E-00	0.2372E-00	0.2617E-01	0.1296E-00	0.9323E-01	0.	0.3297
1.000	0.450AF-00	0.7A9AF-01	0.3037F-00	0.1212E-01	0.1945F-00	0.2059F-01	0.	0.2870
1.500	0.4265E-00	0.5748E-01	0.3675E-00	0.5671E-02	0.1906E-00	0.1216E-01	0.	0.2538
2.000	0.4007E-00	0.4169E-01	0.4270F-00	0.2635E-02	0.1211E-00	0.7029E-02	0.	0.2273
2.500	0.3752E-00	0.2963E-01	0.4811E-00	0.1259E-02	0.1088E-00	0.4028E-02	0.	0.2057
3.000	0.3508E-00	0.2111E-01	0.5295E 00	0.6146E-03	0.9563E-01	0.2307E-02	0.	0.1877
3.500	0.3283E-00	0.1506F-01	0.5723E 00	0.3069E-03	0.8275E-01	0.1327E-02	0.	0.1726
4.000	0.3076E-00	0.1076F-01	0.6100E 00	0.1564E-03	0.7076E-01	0.7669E-03	0.	0.1597
4.500	0.2888E-00	0.7711E-02	0.6430F 00	0.8104E-04	0.5994E-01	0.4463E-03	0.	0.1486
5.000	0.2718F-00	0.5531E-02	0.6720E 00	0.4254F-04	0.5036E-01	0.2581E-03	0.	0.1388
5.500	0.2563E-00	0.3969E-02	0.6975E 00	0.2253E-04	0.4199E-01	0.1499E-03	0.	0.1302
6.000	0.2423F-00	0.2845F-02	0.7200E 00	0.1200E-04	0.3475E-01	0.8684E-04	0.	0.1226

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	7.0689	712.6	1.3926	12.0107	621.0	H0.6248	9202.5	1.1153	1.22H0	13.9241
0.5	7.0386	711.8	1.3934	10.5829	661.7	76.1751	9170.7	1.1166	1.2222	12.2118
1.0	7.0309	711.1	1.3940	9.5120	698.2	66.3520	9069.6	1.1189	1.2076	10.9185
1.5	7.0244	710.8	1.3945	8.6791	731.0	58.7418	H924.5	1.1223	1.1936	9.9106
2.0	7.0195	710.5	1.3949	8.0128	760.9	46.8901	H754.3	1.1264	1.1829	9.1049
2.5	7.0154	710.2	1.3952	7.4676	788.3	39.9874	8572.5	1.1311	1.1763	H.4471
3.0	7.0121	709.9	1.3955	7.0133	H13.5	34.6541	H3H6.7	1.1362	1.1727	7.9002
3.5	7.0093	709.7	1.3957	6.62A9	H36.A	30.4601	H201.7	1.1415	1.1713	7.4383
4.0	7.006A	709.6	1.3959	6.2994	H5A.5	27.0823	H019.1	1.1471	1.1715	7.0430
4.5	7.0047	709.4	1.3960	6.0139	H7H.7	24.3000	7H39.6	1.1531	1.1732	6.7007
5.0	7.0029	709.3	1.3962	5.7640	H97.6	21.9641	7663.5	1.1594	1.1760	6.4014
5.5	7.0013	709.2	1.3963	5.5435	915.3	19.9801	7490.3	1.1663	1.1799	6.1372
6.0	6.999A	709.1	1.3964	5.3476	931.9	18.27HA	7320.0	1.1735	1.1H47	5.9023

M	D	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	1.275	3236.A	1468.2	2681.37	4.3180	12.7475	H.0920	1.H263	0.5476	1.1593
0.5	1.276	3227.0	1466.3	2859.14	4.3206	12.7622	H.0A75	1.H25A	0.547A	1.1539
1.0	1.2AA	3193.A	1449.6	3007.72	4.30A1	12.6H29	7.9H65	1.H233	0.54H5	1.1479
1.5	1.254	3146.3	1721.1	3132.44	4.2A51	12.536A	7.A65A	1.H200	0.5495	1.1419
2.0	1.235	3090.7	17A3.1	3237.7A	4.2552	12.3479	7.726A	1.H159	0.5507	1.1363
2.5	1.219	3031.3	1A37.1	3327.42	4.2211	12.1342	7.57H2	1.H112	0.5521	1.1312
3.0	1.191	2970.5	1AA6.7	3404.22	4.1847	11.9079	7.4264	1.H062	0.5536	1.1264
3.5	1.16A	2910.0	1926.9	3470.50	4.1473	11.6769	7.2751	1.H010	0.5552	1.1221
4.0	1.144	2850.A	1864.7	3527.80	4.1094	11.444A	7.1261	1.7956	0.5569	1.1180
4.5	1.121	2792.0	1998.7	3577.45	4.0715	11.213A	6.9799	1.7H09	0.55A7	1.1142
5.0	1.098A	2734.7	2029.4	3620.34	4.0336	10.9A23	6.A36A	1.7H40	0.5605	1.1106
5.5	1.075	267A.6	2057.3	3657.17	3.9957	10.7529	6.6966	1.7777	0.5625	1.1071
6.0	1.053	2623.6	20A2.6	36AA.61	3.9580	10.5251	6.55A1	1.7712	0.5646	1.1037

PI= 0.100

TI=500.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4720E-00	0.12A7E-00	0.1717E-00	0.970AF-01	0.1181E-00	0.522AE-01	0.	0.3836
0.500	0.4616E-00	0.103AE-00	0.2371F-00	0.2710E-01	0.1354E-00	0.3503E-01	0.	0.3273
1.000	0.4426E-00	0.7965E-01	0.3020F-00	0.12H4E-01	0.1409E-00	0.2202E-01	0.	0.2850
1.500	0.4193E-00	0.5923F-01	0.3644E-00	0.6110E-02	0.1376E-00	0.1331E-01	0.	0.2520
2.000	0.3945E-00	0.4329F-01	0.4227E-00	0.2943E-02	0.12A7E-00	0.7AA5E-02	0.	0.225A
2.500	0.3699E-00	0.3140F-01	0.475AF-00	0.1446E-02	0.116AE-00	0.463AE-02	0.	0.2044
3.000	0.3464E-00	0.2274E-01	0.5236F 00	0.7271E-03	0.1039E-00	0.2733E-02	0.	0.1866
3.500	0.3245F-00	0.1651F-01	0.5659F 00	0.3747E-03	0.9108E-01	0.1620E-02	0.	0.1717
4.000	0.3044F-00	0.1203E-01	0.6034E 00	0.1974E-03	0.7904E-01	0.9672E-03	0.	0.1589
4.500	0.2861E-00	0.HA04E-02	0.6364F 00	0.1061E-03	0.6905E-01	0.5815E-03	0.	0.147A
5.000	0.2694E-00	0.6463E-02	0.6655F 00	0.5796E-04	0.5A20E-01	0.3515E-03	0.	0.1382
5.500	0.2543E-00	0.479AE-02	0.6912F 00	0.3206E-04	0.4950E-01	0.2134E-03	0.	0.1297
6.000	0.2406E-00	0.3405E-02	0.7139F 00	0.1791E-04	0.4186E-01	0.1296E-03	0.	0.1221

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	7.1393	1422.0	1.3857	12.0107	692.6	A3.7143	9702.2	1.1144	1.2304	13.8222
0.5	7.1186	1419.7	1.3A73	10.5829	738.2	79.3027	966A.4	1.1155	1.2248	12.1237
1.0	7.102A	1418.0	1.3AA5	9.5120	779.0	69.4039	9569.9	1.1177	1.2104	10.8421
1.5	7.0906	1416.7	1.3A94	A.6791	A15.A	58.7A03	9432.0	1.1208	1.1958	9.A440
2.0	7.0809	1415.6	1.3901	A.0128	AA9.3	49.722A	9270.7	1.1247	1.1A49	9.0466
2.5	7.0729	1414.7	1.3907	7.4676	A79.9	42.5871	9099.1	1.1290	1.1777	8.3953
3.0	7.0662	1414.0	1.3912	7.0133	908.1	37.04A1	8924.3	1.1336	1.1734	7.8541
3.5	7.0606	1413.3	1.3917	6.62A9	934.2	32.6822	8750.5	1.1384	1.1713	7.3971
4.0	7.0558	1412.8	1.3921	6.2994	958.5	29.1604	8579.8	1.1434	1.1708	7.0061
4.5	7.0516	1412.4	1.3924	6.0139	9A1.1	26.2564	A412.7	1.1487	1.1715	6.6677
5.0	7.04A0	1411.9	1.3927	5.7640	1002.2	23.A150	A249.5	1.1543	1.1734	6.3717
5.5	7.044A	1411.6	1.3929	5.5435	1022.1	21.7337	A089.A	1.1602	1.1763	6.1107
6.0	7.0419	1411.3	1.3931	5.3476	1040.7	19.9387	7933.2	1.1665	1.1800	5.A7A7

M	D	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	1.008A	3208.7	1466.6	2852.18	4.A295	10.0842	6.4175	1.8084	0.5530	1.150A
0.5	1.010	3199.7	1464.6	2828.21	4.A311	10.0976	6.3993	1.8076	0.5532	1.1456
1.0	1.004	3168.9	1648.1	2975.74	4.8200	10.0394	6.3378	1.8055	0.5539	1.1398
1.5	0.993	3124.9	1720.0	3099.99	4.8000	9.9316	6.2498	1.8024	0.554A	1.1342
2.0	0.979	3073.6	17A2.4	3205.38	4.7743	9.7910	6.146A	1.7983	0.5561	1.1290
2.5	0.963	3018.9	1A37.1	3295.35	4.7451	9.6319	6.0366	1.793A	0.5575	1.1242
3.0	0.946	2962.1	1AA5.4	3372.82	4.7140	9.4636	5.9242	1.7890	0.5590	1.1199
3.5	0.929	2906.1	1928.4	3440.02	4.6822	9.2917	5.8123	1.7A39	0.5606	1.1159
4.0	0.912	2851.1	1966.9	3498.59	4.6501	9.1195	5.7023	1.7787	0.5622	1.1122
4.5	0.A95	2797.4	2001.A	3549.66	4.6181	A.94A6	5.5949	1.7733	0.5639	1.1087
5.0	0.A7A	2745.0	2033.4	3594.33	4.5863	A.77AA	5.4900	1.7676	0.5657	1.1054
5.5	0.A61	2693.A	2062.2	3633.24	4.554A	A.6110	5.3A77	1.761A	0.5676	1.1023
6.0	0.A44	2643.A	20AA.6	3666.97	4.5236	A.4449	5.2A76	1.7557	0.5696	1.0993

PI= 0.100

TI=600.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4692E-00	0.1288F-00	0.1728F-00	0.5784E-01	0.1730E-00	0.5427E-01	0.	0.3810
0.500	0.4591E-00	0.1045E-00	0.2370E-00	0.2793E-01	0.1407E-00	0.3679E-01	0.	0.3251
1.000	0.4349F-00	0.8085E-01	0.3006E-00	0.1351E-01	0.1467E-00	0.2346E-01	0.	0.2831
1.500	0.4125E-00	0.6078E-01	0.3616F-00	0.6573E-02	0.1440E-00	0.1444E-01	0.	0.2505
2.000	0.3887E-00	0.4498E-01	0.4187E-00	0.3243E-02	0.1357E-00	0.8733E-02	0.	0.2244
2.500	0.3648E-00	0.3306E-01	0.4709E-00	0.1634E-02	0.1243E-00	0.5257E-02	0.	0.2032
3.000	0.3420E-00	0.2430F-01	0.5180E 00	0.8432E-03	0.1117E-00	0.3176E-02	0.	0.1856
3.500	0.3208F-00	0.1792E-01	0.5599E 00	0.4465F-03	0.9901E-01	0.1932E-02	0.	0.1708
4.000	0.3012F-00	0.1327E-01	0.5971E 00	0.2472E-03	0.8700F-01	0.1186F-02	0.	0.1581
4.500	0.2833E-00	0.9886E-02	0.6300E 00	0.1342E-03	0.7594E-01	0.7355E-03	0.	0.1471
5.000	0.2671E-00	0.7396E-02	0.6591E 00	0.7580E-04	0.6592E-01	0.4596E-03	0.	0.1375
5.500	0.2523E-00	0.5559E-02	0.6846E 00	0.4347E-04	0.5698E-01	0.2891E-03	0.	0.1291
6.000	0.2389E-00	0.4191E-02	0.7072E 00	0.2525E-04	0.4906E-01	0.1827E-03	0.	0.1216

M	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.2295	2140.4	1.3791	12.0107	756.8	86.4595	10219.4	1.1136	1.2327	13.7273
0.5	7.1980	2135.5	1.3814	10.5829	807.0	82.0856	10181.9	1.1148	1.2273	12.0417
1.0	7.1746	2131.8	1.3831	9.5120	851.7	78.2490	10084.8	1.1168	1.2130	10.7709
1.5	7.1561	2128.9	1.3845	8.6791	892.1	61.5715	9951.1	1.1197	1.1984	9.7816
2.0	7.1414	2126.6	1.3855	8.0128	928.8	52.3555	9796.7	1.1233	1.1871	8.9913
2.5	7.1293	2124.7	1.3864	7.4676	962.4	45.0366	9632.9	1.1272	1.1794	8.3462
3.0	7.1193	2123.2	1.3872	7.0133	993.4	39.9228	9466.5	1.1314	1.1765	7.8101
3.5	7.1108	2121.8	1.3878	6.6289	1022.0	34.8099	9301.8	1.1358	1.1718	7.3575
4.0	7.1036	2120.7	1.3884	6.2994	1048.6	31.1673	9140.6	1.1404	1.1706	6.9703
4.5	7.0973	2119.7	1.3889	6.0139	1073.4	28.1605	8983.6	1.1451	1.1707	6.6353
5.0	7.0918	2118.8	1.3893	5.7640	1096.6	25.6321	8830.6	1.1501	1.1717	6.3424
5.5	7.0869	2118.1	1.3897	5.5435	1118.3	23.4691	8681.8	1.1553	1.1737	6.0841
6.0	7.0826	2117.4	1.3900	5.3476	1138.7	21.5995	8536.5	1.1608	1.1764	5.8546

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	0.832	3187.1	1466.2	2624.57	3.467	8.3193	5.3118	1.7900	0.5587	1.1429
0.5	0.833	3178.6	1564.2	2798.94	3.468	8.3310	5.2977	1.7893	0.5589	1.1378
1.0	0.829	3149.9	1667.9	2965.98	3.458	8.2867	5.2498	1.7874	0.5595	1.1323
1.5	0.820	3108.8	1720.1	3069.10	3.4404	8.2027	5.1814	1.7842	0.5605	1.1270
2.0	0.809	3060.7	1783.0	3174.29	3.4177	8.0932	5.1012	1.7803	0.5617	1.1221
2.5	0.797	3009.3	1838.3	3264.43	3.3920	7.9690	5.0154	1.7758	0.5631	1.1177
3.0	0.784	2956.8	1887.2	3342.32	3.3647	7.8374	4.9280	1.7710	0.5646	1.1136
3.5	0.770	2904.6	1930.9	3410.20	3.336A	7.7032	4.8411	1.7661	0.5662	1.1099
4.0	0.757	2853.5	1970.2	3469.64	3.3089	7.5691	4.7559	1.7611	0.5678	1.1065
4.5	0.744	2803.7	2005.8	3521.85	3.2811	7.4365	4.6729	1.7559	0.5695	1.1033
5.0	0.731	2755.3	2038.2	3567.80	3.2536	7.3055	4.5922	1.7505	0.5713	1.1003
5.5	0.718	2708.2	2067.4	3608.24	3.2265	7.1765	4.5137	1.7450	0.5731	1.0975
6.0	0.705	2662.4	2095.0	3643.77	3.199A	7.0494	4.4373	1.7393	0.5749	1.094A

PI= 0.100

TI=700.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4547E-00	0.1290E-00	0.1738F-00	0.5850E-01	0.1277E-00	0.5619E-01	0.	0.3785
0.500	0.4451E-00	0.1051E-00	0.2369E-00	0.2869E-01	0.1458E-00	0.3837E-01	0.	0.3230
1.000	0.4275F-00	0.8199E-01	0.2992E-00	0.1413E-01	0.1523E-00	0.2482E-01	0.	0.2813
1.500	0.4060E-00	0.6225E-01	0.3590E-00	0.7021E-02	0.1502E-00	0.1554E-01	0.	0.2489
2.000	0.3830E-00	0.4658E-01	0.4150E-00	0.3540E-02	0.1424F-00	0.9548F-02	0.	0.2231
2.500	0.3599E-00	0.3466E-01	0.4663E-00	0.1824E-02	0.1314E-00	0.5888E-02	0.	0.2021
3.000	0.3378E-00	0.2580F-01	0.5127E 00	0.9636E-03	0.1191E-00	0.3634E-02	0.	0.1846
3.500	0.3171F-00	0.1928F-01	0.5541E 00	0.5226E-03	0.1067E-00	0.2263E-02	0.	0.1699
4.000	0.2981E-00	0.1450E-01	0.5910E 00	0.2907E-03	0.9475E-01	0.1425E-02	0.	0.1573
4.500	0.2806E-00	0.1096E-01	0.6237E 00	0.1655E-03	0.8367E-01	0.9069E-03	0.	0.1464
5.000	0.2647F-00	0.8339E-02	0.6527E 00	0.9616F-04	0.7357E-01	0.5830E-03	0.	0.1369
5.500	0.2502E-00	0.6378E-02	0.6785F 00	0.5687E-04	0.6446E-01	0.3780E-03	0.	0.1286
6.000	0.2371E-00	0.4901E-02	0.7014E 00	0.3413E-04	0.5633E-01	0.2469E-03	0.	0.1211

M	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.3192	2867.9	1.3727	12.0107	815.6	88.9496	10748.8	1.1131	1.2351	13.6370
0.5	7.2788	2859.4	1.3755	10.5829	869.8	84.6293	10706.4	1.1142	1.2298	11 9637
1.0	7.2486	2852.9	1.3777	9.5120	918.1	74.8742	10609.1	1.1161	1.2157	10.7030
1.5	7.2251	2848.0	1.3796	8.6791	961.8	64.1885	10478.4	1.1187	1.2010	9.7220
2.0	7.2063	2844.0	1.3808	8.0128	1001.5	54.8578	10329.0	1.1221	1.1893	8.9384
2.5	7.1909	2840.7	1.3819	7.4676	1037.8	47.3852	10170.8	1.1257	1.1812	8.2989
3.0	7.1780	2838.0	1.3828	7.0133	1071.3	41.5218	10011.4	1.1297	1.1758	7.7675
3.5	7.1672	2835.7	1.3836	6.6289	1102.2	36.8814	9853.9	1.1337	1.1726	7.3190
4.0	7.1579	2833.7	1.3843	6.2994	1130.9	33.1294	9700.5	1.1378	1.1708	6.9351
4.5	7.1498	2832.0	1.3849	6.0139	1157.7	30.0323	9551.6	1.1421	1.1703	6.6093
5.0	7.1427	2830.5	1.3854	5.7640	1182.8	27.4251	9407.1	1.1465	1.1708	6.3132
5.5	7.1365	2829.2	1.3859	5.5435	1206.3	25.1961	9267.3	1.1511	1.1720	6.0574
6.0	7.1310	2828.0	1.3863	5.3476	1228.4	23.2647	9131.4	1.1559	1.1739	5.8301

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	0.706	3169.8	1466.7	2597.87	3.1853	7.0642	4.5283	1.7712	0.5646	1.1354
0.5	0.707	3161.9	1564.7	2770.58	3.1854	7.0748	4.5169	1.7707	0.5648	1.1305
1.0	0.704	3134.9	1668.6	2935.96	3.1759	7.0396	4.4784	1.7687	0.5654	1.1252
1.5	0.697	3096.3	1721.2	3039.01	3.159A	6.9721	4.4232	1.7657	0.5664	1.1202
2.0	0.688	3051.1	1784.5	3143.92	3.1393	6.8838	4.3587	1.7618	0.5676	1.1155
2.5	0.678	3002.8	1840.9	3234.07	3.1163	6.7834	4.2897	1.7574	0.5690	1.1113
3.0	0.668	2953.5	1889.8	3312.25	3.0919	6.6770	4.2193	1.7527	0.5706	1.1075
3.5	0.657	2904.7	1934.2	3380.52	3.0671	6.5688	4.1495	1.7478	0.5721	1.1041
4.0	0.646	2856.9	1974.1	3440.54	3.0422	6.4609	4.0812	1.7429	0.5738	1.1009
4.5	0.635	2810.4	2010.3	3493.61	3.0177	6.3543	4.0149	1.7378	0.5754	1.0980
5.0	0.625	2765.4	2043.4	3540.55	2.9934	6.2495	3.9505	1.7326	0.5772	1.0953
5.5	0.615	2721.8	2073.8	3582.25	2.9697	6.1468	3.8882	1.7274	0.5789	1.0927
6.0	0.605	2679.4	2101.7	3619.18	2.9464	6.0459	3.8278	1.7220	0.5807	1.0902

PI= 1.000

TI=200.0000 N= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.9469E 00	0.1358E-00	0.1605E-00	0.4708E-01	0.7416E-01	0.3553E-01	0.	0.4062
0.500	0.9911E 00	0.1030E-00	0.2391E-00	0.1840E-01	0.8710E-01	0.2128E-01	0.	0.3461
1.000	0.5029E 00	0.7229E-01	0.9178E-00	0.7070E-02	0.8851E-01	0.1146E-01	0.	0.3004
1.500	0.4697E-00	0.4840E-01	0.3915E-00	0.2725E-02	0.8194E-01	0.5805E-02	0.	0.2647
2.000	0.4957E-00	0.3163E-01	0.4574E-00	0.1066E-02	0.7133E-01	0.2848E-02	0.	0.2362
2.500	0.4039E-00	0.2040E-01	0.5150E 00	0.4246E-03	0.5956E-01	0.1374E-02	0.	0.2129
3.000	0.3739E-00	0.1306E-01	0.5665E 00	0.1721E-03	0.4826E-01	0.6565E-03	0.	0.1937
3.500	0.3463E-00	0.8313E-02	0.6048E 00	0.7067E-04	0.3822E-01	0.3109E-03	0.	0.1775
4.000	0.3220E-00	0.5262E-02	0.6429E 00	0.2925E-04	0.2970E-01	0.1459E-03	0.	0.1637
4.500	0.3009E-00	0.3312E-02	0.6796E 00	0.1214E-04	0.2270E-01	0.6769E-04	0.	0.1518
5.000	0.2809E-00	0.2070E-02	0.6999E 00	0.5038E-05	0.1710E-01	0.3103E-04	0.	0.1415
5.500	0.2635E-00	0.1286E-02	0.7225E 00	0.2084E-05	0.1271E-01	0.1404E-04	0.	0.1324
6.000	0.2479E-00	0.7933E-03	0.7419E 00	0.8579E-06	0.9334E-02	0.6272E-05	0.	0.1244

N	CPI	MI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.6660	-669.9	1.4247	12.0107	444.1	53.2580	9428.9	1.1307	1.2194	14.6364
0.5	6.6449	-668.8	1.4266	10.5829	479.5	49.3743	9377.1	1.1327	1.2150	12.8198
1.0	6.6298	-667.9	1.4281	9.4120	499.7	41.4674	9192.2	1.1366	1.1990	11.4284
1.5	6.6167	-667.1	1.4292	8.4791	529.1	34.0578	8931.8	1.1423	1.1884	10.3365
2.0	6.6069	-666.8	1.4302	8.0128	544.8	28.3643	8634.3	1.1491	1.1830	9.4612
2.5	6.5988	-666.3	1.4309	7.4676	564.5	24.1483	8322.5	1.1567	1.1818	8.7458
3.0	6.5921	-666.0	1.4315	7.0139	582.6	20.9760	8008.7	1.1648	1.1836	8.1510
3.5	6.5864	-665.7	1.4321	6.6288	599.4	18.5291	7699.8	1.1735	1.1876	7.6489
4.0	6.5815	-665.4	1.4325	6.2994	614.9	16.5994	7395.8	1.1826	1.1931	7.2196
4.5	6.5773	-665.2	1.4329	6.0199	629.5	15.0557	7101.1	1.1921	1.2000	6.8483
5.0	6.5736	-665.0	1.4333	5.7640	643.0	13.8112	6815.5	1.2019	1.2077	6.5241
5.5	6.5704	-664.8	1.4336	5.5435	655.8	12.8042	6540.3	1.2118	1.2160	6.2386
6.0	6.5675	-664.7	1.4339	5.3476	667.7	11.9903	6276.3	1.2215	1.2247	5.9855

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	28.680	3765.3	1551.1	2874.60	6.4723	28.6801	18.7265	1.8533	0.5396	1.2186
0.5	28.680	3726.0	1654.5	3069.82	6.4710	28.6804	18.6900	1.8519	0.5400	1.2114
1.0	28.166	3661.3	1740.0	3214.54	6.4374	28.1663	18.3067	1.8486	0.5410	1.2015
1.5	27.646	3571.5	1811.5	3340.07	6.3827	27.6460	17.8478	1.8438	0.5424	1.1910
2.0	27.005	3469.6	1871.8	3440.49	6.3152	27.0051	17.3482	1.8380	0.5441	1.1808
2.5	26.301	3363.9	1929.1	3522.59	6.2403	26.3006	16.8169	1.8317	0.5459	1.1712
3.0	25.567	3256.4	1967.0	3589.69	6.1614	25.5669	16.2921	1.8249	0.5480	1.1622
3.5	24.822	3151.1	2004.9	3644.55	6.0806	24.8217	15.7754	1.8179	0.5501	1.1539
4.0	24.077	3048.2	2037.5	3688.88	5.9987	24.0766	15.2609	1.8105	0.5523	1.1461
4.5	23.338	2948.1	2069.6	3726.21	5.9165	23.3379	14.7605	1.8029	0.5547	1.1387
5.0	22.610	2851.1	2089.8	3751.62	5.8342	22.6105	14.2557	1.7952	0.5570	1.1319
5.5	21.900	2757.5	2110.3	3772.24	5.7523	21.8908	13.7874	1.7875	0.5594	1.1256
6.0	21.209	2667.3	2127.5	3786.09	5.6717	21.2094	13.3369	1.7800	0.5618	1.1193

PI= 1.000

TI=298.1500 N= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NI
0.	0.5916F 00	0.136MF-00	0.1037F-00	0.4M65F-01	0.80MME-01	0.3M44E-01	0.	0.4020
0.500	0.516MF 00	0.105?F-00	0.2399F-00	0.1096F-01	0.745ME-01	0.2361E-01	0.	0.3427
1.000	0.4906F-00	0.7535F-01	0.9161F-00	0.8000F-02	0.9677E-01	0.1319E-01	0.	0.2976
1.500	0.4596E-00	0.5177E-01	0.3876F-00	0.3242F-02	0.9082F-01	0.6975E-02	0.	0.2624
2.000	0.4277F-00	0.3470F-01	0.4521F-00	0.1335F-02	0.8051F-01	0.3587E-02	0.	0.2344
2.500	0.3969F-00	0.2311F-01	0.5089E 00	0.5606F-03	0.6867E-01	0.1820E-02	0.	0.2115
3.000	0.3684F-00	0.1528F-01	0.5582E 00	0.2403F-03	0.5699E-01	0.9179E-03	0.	0.1925
3.500	0.3424E-00	0.1006F-01	0.6006E 00	0.1047F-03	0.4634E-01	0.4611E-03	0.	0.1766
4.000	0.3190E-00	0.6612F-02	0.6370E 00	0.4622E-04	0.3707E-01	0.2306E-03	0.	0.1630
4.500	0.2980F-00	0.4330F-02	0.6683E 00	0.2056E-04	0.2923E-01	0.1147E-03	0.	0.1512
5.000	0.2791F-00	0.2825F-02	0.6952E 00	0.9177E-05	0.2276E-01	0.5667E-04	0.	0.1410
5.500	0.2622F-00	0.1835F-02	0.7184E 00	0.4100F-05	0.1759E-01	0.2767E-04	0.	0.1320
6.000	0.2470F-00	0.1186F-02	0.7385E 00	0.1829E-05	0.1356E-01	0.1340E-04	0.	0.1241

N	CPI	MI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.9350	0.	1.4016	12.0107	537.9	56.7212	9830.1	1.1289	1.2222	14.4464
0.5	6.9289	0.	1.4021	10.5829	573.1	52.8632	9781.1	1.1307	1.2160	12.6923
1.0	6.9242	0.	1.4025	9.5120	604.6	44.8323	9613.5	1.1347	1.2019	11.3275
1.5	6.9206	0.	1.4028	8.6791	633.0	37.0872	9376.9	1.1392	1.1904	10.2493
2.0	6.9177	0.	1.4030	8.0128	658.8	31.0040	9106.2	1.1453	1.1838	9.3893
2.5	6.9154	0.	1.4032	7.4676	682.4	26.4375	8821.8	1.1522	1.1813	8.6865
3.0	6.9134	0.	1.4034	7.0139	704.4	22.9743	8535.1	1.1596	1.1818	8.1022
3.5	6.9118	0.	1.4035	6.6289	724.5	20.2839	8251.5	1.1672	1.1843	7.6088
4.0	6.9103	0.	1.4036	6.2994	743.2	18.1462	7973.7	1.1756	1.1886	7.1868
4.5	6.9091	0.	1.4037	6.0199	760.7	16.4193	7702.9	1.1843	1.1942	6.8217
5.0	6.9080	0.	1.4038	5.7640	777.0	15.0078	7439.6	1.1931	1.2008	6.5027
5.5	6.9071	0.	1.4039	5.5435	792.9	13.8486	7184.7	1.2023	1.2081	6.2216
6.0	6.9062	0.	1.4040	5.3476	806.8	12.8936	6938.4	1.2116	1.2161	5.9722

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	18.820	3680.7	1544.3	2839.60	5.2794	18.8204	12.3452	1.8388	0.5438	1.2061
0.5	18.828	3664.0	1647.4	3027.00	5.2818	18.8276	12.2890	1.8375	0.5442	1.1993
1.0	18.644	3607.0	1733.2	3179.48	5.2598	18.6439	12.0978	1.8344	0.5451	1.1903
1.5	18.332	3527.3	1804.5	3303.92	5.2195	18.3322	11.8306	1.8299	0.5465	1.1809
2.0	17.945	3436.3	1866.0	3406.05	5.1698	17.9450	11.5256	1.8244	0.5481	1.1718
2.5	17.517	3341.0	1919.5	3490.44	5.1161	17.5171	11.2057	1.8184	0.5499	1.1632
3.0	17.070	3244.9	1964.9	3560.40	5.0593	17.0704	10.8836	1.8120	0.5519	1.1553
3.5	16.616	3150.1	2004.6	3618.41	4.9965	16.6164	10.5654	1.8052	0.5540	1.1478
4.0	16.162	3057.2	2038.9	3666.29	4.9330	16.1616	10.2540	1.7981	0.5561	1.1409
4.5	15.709	2966.8	2068.7	3705.51	4.8713	15.7093	9.9508	1.7908	0.5584	1.1343
5.0	15.263	2878.9	2094.7	3737.87	4.8095	15.2626	9.6558	1.7832	0.5608	1.1282
5.5	14.824	2793.6	2118.6	3761.95	4.7479	14.8242	9.3699	1.7757	0.5632	1.1223
6.0	14.395	2711.1	2138.5	3780.92	4.6866	14.3954	9.0931	1.7680	0.5656	1.1168

PI= 1.000

TI=900.0000 M= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.5919E 00	0.196RE-00	0.1637F-00	0.4R6RF-01	0.8099E-01	0.3R6RE-01	0.	0.4020
0.500	0.5166F 00	0.1052E-00	0.2399E-00	0.19R6E-01	0.9470E-01	0.2365E-01	0.	0.3426
1.000	0.4904F-00	0.7540E-01	0.3160F-00	0.R016E-02	0.9691F-01	0.1322E-01	0.	0.2975
1.500	0.4594E-00	0.5183E-01	0.3875F-00	0.3251E-02	0.9897E-01	0.6996E-02	0.	0.2624
2.000	0.4275E-00	0.3484F-01	0.4520F-00	0.1340E-02	0.R067E-01	0.3600E-02	0.	0.2343
2.500	0.3968F-00	0.2316E-01	0.50RRF 00	0.5632E-03	0.6R02E-01	0.1R2RE-02	0.	0.2115
3.000	0.3683E-00	0.1531F-01	0.5581F 00	0.2416E-03	0.5715E-01	0.9210E-03	0.	0.1925
3.500	0.3424E-00	0.1010F-01	0.6005E 00	0.1054E-03	0.4669E-01	0.4661F-03	0.	0.1766
4.000	0.3190F-00	0.6637E-02	0.6369E 00	0.4657E-04	0.3720E-01	0.2324E-03	0.	0.1630
4.500	0.2980E-00	0.4350E-02	0.66R2E 00	0.2074E-04	0.2935E-01	0.1157E-03	0.	0.1512
5.000	0.2791F-00	0.2840F-02	0.6951E 00	0.9269E-05	0.2287E-01	0.5714E-04	0.	0.1410
5.500	0.2622E-00	0.1846E-02	0.7183E 00	0.4147E-05	0.1762E-01	0.2798E-04	0.	0.1320
6.000	0.2470E-00	0.1194E-02	0.7384E 00	0.1853E-05	0.1344E-01	0.1357E-04	0.	0.1241

M	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAMP	M
0.	6.9971	12.R	1.4015	12.0107	539.5	56.7762	9838.4	1.1289	1.2223	14.4839
0.5	6.9909	12.R	1.4020	10.5829	574.R	52.9170	9789.5	1.1306	1.2161	12.6901
1.0	6.9769	12.R	1.4029	9.5120	606.4	44.8R94	9621.7	1.1342	1.2020	11.3207
1.5	6.9227	12.8	1.4026	8.6791	634.9	37.1422	9385.9	1.1392	1.1904	10.2478
2.0	6.9198	12.R	1.4029	8.0178	660.R	31.0497	9115.6	1.1455	1.1838	9.3881
2.5	6.9174	12.R	1.4031	7.4676	684.6	26.4769	8831.6	1.1521	1.1813	8.6855
3.0	6.9154	12.7	1.4032	7.0133	706.5	23.0096	8545.4	1.1593	1.1817	8.1013
3.5	6.9138	12.7	1.4034	6.6289	726.7	20.5161	8262.3	1.1671	1.1843	7.6081
4.0	6.9124	12.7	1.4035	6.2994	745.5	18.1748	7984.8	1.1753	1.1885	7.1862
4.5	6.9111	12.7	1.4036	6.0139	763.0	16.4446	7714.4	1.1839	1.1941	6.8212
5.0	6.9100	12.7	1.4037	5.7640	779.4	15.0302	7451.6	1.1929	1.2007	6.5023
5.5	6.9091	12.7	1.4037	5.5435	794.R	13.8682	7196.9	1.2021	1.2080	6.2213
6.0	6.9082	12.7	1.4038	5.3476	R09.7	12.9113	6950.9	1.2115	1.2159	5.9719

M	P	T	A	UD	ND	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	18.700	3679.R	1544.2	2839.01	5.2623	18.6997	12.2659	1.8385	0.5439	1.2059
0.5	18.707	3669.0	1647.9	3076.96	5.7647	18.7074	12.2101	1.8172	0.5443	1.1991
1.0	18.524	3606.2	1739.2	3178.RA	5.7420	18.5244	12.0205	1.8341	0.5452	1.1902
1.5	18.216	3526.6	1805.6	3303.28	5.7027	18.2160	11.7555	1.8296	0.5466	1.1807
2.0	17.832	3435.9	1866.9	3405.48	5.1532	17.8R16	11.4529	1.8242	0.5482	1.1716
2.5	17.407	3340.7	1919.5	3489.RR	5.0978	17.4070	11.1356	1.8181	0.5500	1.1631
3.0	16.964	3244.R	1964.9	3559.RR	5.0391	16.9640	10.R161	1.8117	0.5520	1.1551
3.5	16.513	3150.1	2004.5	3617.97	4.9788	16.5134	10.5004	1.8050	0.5540	1.1477
4.0	16.062	3057.4	2039.0	3665.94	4.9176	16.061R	10.1914	1.7979	0.5562	1.1408
4.5	15.613	2967.1	2069.3	3705.17	4.8561	15.6134	9.8905	1.7906	0.5585	1.1342
5.0	15.170	2879.4	2095.R	3736.78	4.7945	15.1704	9.5980	1.7830	0.5608	1.1281
5.5	14.735	2794.3	2118.R	3761.79	4.7332	14.7350	9.3143	1.7754	0.5633	1.1223
6.0	14.309	2711.9	2138.R	3780.80	4.6722	14.3094	9.0398	1.7678	0.5657	1.1168

PI= 1.000

TI=400.0000 M= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.5185F 00	0.1377E-00	0.1662E-00	0.4998E-01	0.8670E-01	0.4097E-01	0.	0.3985
0.500	0.5046E 00	0.1071F-00	0.2406F-00	0.2103E-01	0.1010E-00	0.2568E-01	0.	0.3397
1.000	0.4799E-00	0.7801E-01	0.3146E-00	0.8816F-02	0.1039E-00	0.1477E-01	0.	0.2952
1.500	0.4506F-00	0.5471E-01	0.3842F-00	0.3723E-02	0.9860E-01	0.8090E-02	0.	0.2604
2.000	0.4209F-00	0.3761F-01	0.4474F-00	0.1599E-02	0.R870E-01	0.4324E-02	0.	0.2327
2.500	0.3910E-00	0.2562E-01	0.5034E 00	0.7024E-03	0.7698E-01	0.2289E-02	0.	0.2102
3.000	0.3617E-00	0.1799E-01	0.5523F 00	0.3155E-03	0.6517F-01	0.1208E-02	0.	0.1914
3.500	0.3386F-00	0.1179E-01	0.5946E 00	0.1446E-03	0.5417E-01	0.6375E-03	0.	0.1757
4.000	0.3160F-00	0.7999E-02	0.6312E 00	0.6797E-04	0.4439E-01	0.3365E-03	0.	0.1622
4.500	0.2956E-00	0.5416E-02	0.6629E 00	0.3177E-04	0.3595E-01	0.1774E-03	0.	0.1506
5.000	0.2773F-00	0.3665E-02	0.6902E 00	0.1511E-04	0.2881E-01	0.9323E-04	0.	0.1405
5.500	0.2607E-00	0.2475E-02	0.7139E 00	0.7221E-05	0.2287E-01	0.4879E-04	0.	0.1316
6.000	0.2458E-00	0.1668E-02	0.7345E 00	0.3460F-05	0.1801E-01	0.2560E-04	0.	0.1238

M	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAMP	M
0.	7.0489	712.6	1.3926	12.0107	621.0	59.5610	10316.6	1.1276	1.2249	14.3577
0.5	7.0384	711.R	1.3934	10.5829	661.7	55.7512	10269.0	1.1292	1.2189	12.5822
1.0	7.0305	711.3	1.3940	9.5120	698.2	47.6954	10112.0	1.1324	1.2048	11.2299
1.5	7.0244	710.8	1.3945	8.6791	731.0	39.7461	9894.1	1.1370	1.1926	10.1716
2.0	7.0195	710.5	1.3949	8.0178	760.9	33.3805	9643.3	1.1429	1.1852	9.3241
2.5	7.0154	710.2	1.3952	7.4676	788.3	28.5469	9379.8	1.1487	1.1816	8.6316
3.0	7.0121	709.9	1.3955	7.0133	813.5	24.8575	9114.2	1.1553	1.1809	8.0558
3.5	7.0093	709.7	1.3957	6.6289	836.8	21.9778	8851.6	1.1622	1.1823	7.5697
4.0	7.0068	709.6	1.3959	6.2994	858.5	19.6748	8594.6	1.1696	1.1854	7.1539
4.5	7.0047	709.4	1.3960	6.0139	878.7	17.8000	8344.0	1.1774	1.1898	6.7961
5.0	7.0029	709.3	1.3962	5.7640	897.6	16.2550	8100.4	1.1855	1.1953	6.4798
5.5	7.0013	709.2	1.3963	5.5435	915.3	14.9695	7863.9	1.1939	1.2016	6.2027
6.0	6.9998	709.1	1.3964	5.3476	931.9	13.8960	7634.7	1.2025	1.2085	5.9566

M	P	T	A	UD	ND	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	13.864	5636.8	1541.0	2809.13	4.5237	13.8645	9.0921	1.8229	0.5486	1.1954
0.5	13.874	5621.9	1644.0	2994.87	4.5259	13.8742	9.0548	1.8217	0.5489	1.1889
1.0	13.752	5570.5	1730.2	3167.81	4.5076	13.7521	8.9264	1.8188	0.5498	1.1806
1.5	13.562	5498.4	1803.2	3271.99	4.4760	13.5417	8.7461	1.8146	0.5511	1.1720
2.0	13.278	5415.8	1865.5	3375.33	4.4360	13.2779	8.5396	1.8093	0.5527	1.1636
2.5	12.986	5329.0	1919.3	3461.41	4.3911	12.9857	8.3225	1.8035	0.5545	1.1559
3.0	12.688	5241.4	1966.0	3533.52	4.3437	12.6801	8.1036	1.7973	0.5564	1.1486
3.5	12.389	5154.9	2006.9	3594.83	4.2949	12.3694	7.8873	1.7908	0.5584	1.1419
4.0	12.058	5070.5	2043.0	3644.83	4.2457	12.0584	7.6757	1.7841	0.5605	1.1356
4.5	11.790	2987.9	2074.9	3687.16	4.1969	11.7497	7.4696	1.7771	0.5627	1.1297
5.0	11.444	2907.7	2103.1	3727.19	4.1470	11.4443	7.2693	1.7698	0.5650	1.1242
5.5	11.144	2829.9	2128.2	3750.72	4.0979	11.1438	7.0749	1.7624	0.5674	1.1189
6.0	10.849	2754.5	2150.2	3779.54	4.0492	10.8493	6.8863	1.7549	0.5698	1.1139

PI= 1.000

TI=500.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/RF
0.	0.5072E 00	0.1986E-00	0.1686E-00	0.5087E-01	0.9179E-01	0.4320E-01	0.	0.3956
0.500	0.4939E-00	0.1087E-00	0.2412E-00	0.2204E-01	0.1067E-00	0.2752E-01	0.	0.3371
1.000	0.4705E-00	0.8029E-01	0.3133E-00	0.9532E-02	0.1102E-00	0.1671E-01	0.	0.2930
1.500	0.4426E-00	0.5727E-01	0.3814E-00	0.4164E-02	0.1056E-00	0.9137E-02	0.	0.2587
2.000	0.4137E-00	0.4012E-01	0.4433E-00	0.1852E-02	0.9599E-01	0.5043E-02	0.	0.2313
2.500	0.3855E-00	0.2789E-01	0.4985E-00	0.8465E-03	0.8449E-01	0.2763E-02	0.	0.2089
3.000	0.3592E-00	0.1935E-01	0.5469E 00	0.3943E-03	0.7226E-01	0.1514E-02	0.	0.1904
3.500	0.3350E-00	0.1343E-01	0.5890E 00	0.1844E-03	0.6150E-01	0.8319E-03	0.	0.1748
4.000	0.3130E-00	0.9343E-02	0.6257E 00	0.9174E-04	0.5140E-01	0.4584E-03	0.	0.1615
4.500	0.2932E-00	0.6508E-02	0.6575E 00	0.4539E-04	0.4253E-01	0.2537E-03	0.	0.1500
5.000	0.2753E-00	0.4538E-02	0.6851E 00	0.2273E-04	0.3499E-01	0.1404E-03	0.	0.1400
5.500	0.2592E-00	0.3166E-02	0.7092E 00	0.1148E-04	0.2861E-01	0.7770E-04	0.	0.1312
6.000	0.2446E-00	0.2207E-02	0.7302E 00	0.5837E-05	0.2298E-01	0.4292E-04	0.	0.1234

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	7.1393	1422.0	1.3857	12.0107	892.6	61.9265	10M27.3	1.1267	1.2275	14.2457
0.5	7.1146	1410.7	1.3873	10.5829	778.2	54.1693	10778.9	1.1282	1.2217	12.4861
1.0	7.1028	1418.0	1.3885	9.5120	775.0	50.1462	10630.3	1.1312	1.2076	11.1485
1.5	7.0906	1416.7	1.3894	8.6791	415.8	46.0781	10423.9	1.1354	1.1951	10.1026
2.0	7.0809	1415.6	1.3901	8.0128	448.3	35.5066	101M8.0	1.1404	1.1868	9.2653
2.5	7.0729	1414.7	1.3907	7.4676	870.0	30.4679	9940.3	1.1460	1.1823	8.5813
3.0	7.0662	1414.0	1.3912	7.0133	884.1	26.5971	9690.0	1.1520	1.1808	8.0127
3.5	7.0606	1413.3	1.3917	6.6289	934.2	23.5647	9444.7	1.1584	1.1814	7.5327
4.0	7.0558	1412.8	1.3921	6.2994	984.5	21.1306	9204.1	1.1650	1.1834	7.1221
4.5	7.0516	1412.4	1.3924	6.0139	981.1	19.1404	8970.0	1.1720	1.1868	6.7669
5.0	7.0480	1411.9	1.3927	5.7640	1002.2	17.4883	8742.4	1.1792	1.1911	6.4565
5.5	7.0448	1411.6	1.3929	5.5435	1022.1	16.1020	8522.1	1.1868	1.1963	6.1829
6.0	7.0419	1411.3	1.3931	5.3478	1040.7	14.9334	8308.1	1.1947	1.2023	5.9400

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	10.986	3605.9	1539.9	2782.70	4.0173	10.9857	7.2117	1.1068	0.5535	1.1861
0.5	10.996	3592.3	1642.8	2966.59	4.0148	10.9961	7.1847	1.1056	0.5538	1.1798
1.0	10.907	3565.2	1720.4	3118.19	4.0027	10.9075	7.0904	1.1030	0.5546	1.1720
1.5	10.753	3478.9	1803.0	3243.36	3.9757	10.7526	6.9578	1.1003	0.5559	1.1640
2.0	10.558	3402.8	1866.1	3347.50	3.9417	10.5576	6.8056	1.1003	0.5575	1.1563
2.5	10.341	3322.7	1920.8	3434.77	3.9036	10.3404	6.6454	1.1002	0.5592	1.1491
3.0	10.114	3241.8	1968.6	3506.45	3.8634	10.1139	6.4836	1.1022	0.5611	1.1425
3.5	9.883	3161.9	2010.7	3570.88	3.8223	9.8835	6.3249	1.1059	0.5631	1.1363
4.0	9.653	3083.1	2048.0	3623.42	3.7808	9.6540	6.1677	1.1094	0.5652	1.1306
4.5	9.424	3004.0	2081.3	3668.71	3.7394	9.4244	6.0160	1.1127	0.5673	1.1252
5.0	9.199	2934.3	2111.0	3706.49	3.6983	9.1901	5.8686	1.1155	0.5694	1.1201
5.5	8.977	2862.8	2137.6	3737.99	3.6573	8.9771	5.7256	1.1187	0.5711	1.1153
6.0	8.759	2793.8	2161.9	3763.99	3.6168	8.7592	5.5869	1.1215	0.5742	1.1108

PI= 1.000

TI=600.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/RF
0.	0.496AE-00	0.1395E-00	0.1702F-00	0.5171E-01	0.9652E-01	0.4529E-01	0.	0.3925
0.500	0.4841E-00	0.1102E-00	0.2416F-00	0.2293E-01	0.1119E-00	0.2928E-01	0.	0.3347
1.000	0.4617E-00	0.8237E-01	0.3122F-00	0.1019E-01	0.1159E-00	0.1759E-01	0.	0.2910
1.500	0.4351E-00	0.5961E-01	0.3784F-00	0.4537E-02	0.1114E-00	0.1016E-01	0.	0.2570
2.000	0.4073E-00	0.4245E-01	0.4396F-00	0.2106E-02	0.1029E-00	0.5767E-02	0.	0.2299
2.500	0.3803E-00	0.3003E-01	0.4939F-00	0.9909E-03	0.9155E-01	0.3256E-02	0.	0.2078
3.000	0.3548E-00	0.2123E-01	0.5418F 00	0.4676E-03	0.8078E-01	0.1842E-02	0.	0.1894
3.500	0.3314E-00	0.1504E-01	0.5837E 00	0.2369E-03	0.6962E-01	0.1044E-02	0.	0.1740
4.000	0.3101E-00	0.1069E-01	0.6202F 00	0.1198E-03	0.5831E-01	0.6002E-03	0.	0.1608
4.500	0.2907E-00	0.7629E-02	0.6521F 00	0.6175E-04	0.4913E-01	0.3456E-03	0.	0.1494
5.000	0.2733E-00	0.5455E-02	0.6799F 00	0.3231E-04	0.4111E-01	0.1998E-03	0.	0.1395
5.500	0.2575E-00	0.3910E-02	0.7043F 00	0.1711E-04	0.3419E-01	0.1159E-03	0.	0.1308
6.000	0.2432E-00	0.2807E-02	0.7256F 00	0.9142E-05	0.2829E-01	0.6731E-04	0.	0.1230

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	7.2295	2140.4	1.3791	12.0107	756.8	64.0336	11357.9	1.1260	1.2300	14.1624
0.5	7.1980	2135.3	1.3814	10.5829	807.0	60.3301	11306.4	1.1274	1.2244	12.3975
1.0	7.1744	2131.8	1.3831	9.5120	851.7	52.3645	11163.0	1.1302	1.2104	11.0729
1.5	7.1561	2129.0	1.3845	8.6791	892.1	44.2185	10965.6	1.1341	1.1975	10.0380
2.0	7.1414	2126.6	1.3855	8.0128	928.8	37.4998	10741.1	1.1387	1.1886	9.2098
2.5	7.1293	2124.7	1.3864	7.4676	962.4	32.2919	10506.0	1.1439	1.1834	8.5336
3.0	7.1193	2123.2	1.3872	7.0133	993.4	28.2702	10269.6	1.1496	1.1811	7.9710
3.5	7.1108	2121.8	1.3878	6.6289	1022.0	25.1063	10036.8	1.1551	1.1808	7.4964
4.0	7.1036	2120.7	1.3884	6.2994	1049.6	22.5626	9809.8	1.1612	1.1821	7.0905
4.5	7.0973	2119.7	1.3889	6.0139	1073.4	20.4739	9589.6	1.1674	1.1845	6.7393
5.0	7.0918	2118.9	1.3893	5.7640	1096.6	18.7320	9376.0	1.1740	1.1879	6.4325
5.5	7.0869	2118.1	1.3897	5.5435	1118.3	17.2633	9169.1	1.1808	1.1922	6.1621
6.0	7.0826	2117.4	1.3900	5.3478	1138.7	16.0132	8968.5	1.1879	1.1972	5.9220

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	9.078	3582.3	1539.9	2756.93	3.6427	9.0778	5.9705	1.1903	0.5586	1.1775
0.5	9.088	3568.9	1643.0	2939.44	3.6431	9.0881	5.9458	1.1894	0.5589	1.1715
1.0	9.021	3526.2	1720.9	3090.43	3.6290	9.0205	5.8771	1.1867	0.5597	1.1641
1.5	8.901	3466.7	1804.0	3216.15	3.6059	8.9004	5.7745	1.1827	0.5609	1.1566
2.0	8.749	3394.0	1867.9	3320.42	3.5756	8.7494	5.6566	1.1778	0.5625	1.1494
2.5	8.581	3319.6	1923.5	3409.02	3.5422	8.5807	5.5324	1.1723	0.5642	1.1427
3.0	8.404	3244.2	1972.2	3483.92	3.5072	8.4039	5.4070	1.1665	0.5661	1.1366
3.5	8.225	3170.0	2015.3	3547.79	3.4715	8.2246	5.2833	1.1604	0.5680	1.1309
4.0	8.046	3097.5	2053.7	3602.56	3.4356	8.0455	5.1625	1.1542	0.5701	1.1256
4.5	7.869	3027.2	2088.1	3649.38	3.3999	7.8685	5.0453	1.1477	0.5722	1.1206
5.0	7.694	2959.0	2119.0	3689.37	3.3645	7.6941	4.9316	1.1411	0.5744	1.1160
5.5	7.523	2892.9	2146.9	3723.38	3.3295	7.5225	4.8215	1.1343	0.5766	1.1116
6.0	7.354	2828.9	2172.1	3752.02	3.2949	7.3543	4.7149	1.1274	0.5789	1.1074

PI= 1.000

TI=700.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4870E-00	0.1603E-00	0.1719E-00	0.5246E-01	0.1010E-00	0.4729E-01	0.	0.3898
0.500	0.4748E-00	0.1116E-00	0.2421E-00	0.2375E-01	0.1168E-00	0.3092E-01	0.	0.3324
1.000	0.4534E-00	0.8430E-01	0.3112E-00	0.1082E-01	0.1214E-00	0.1893E-01	0.	0.2891
1.500	0.4279E-00	0.6180E-01	0.3763E-00	0.4998E-02	0.1178E-00	0.1118E-01	0.	0.2554
2.000	0.4012E-00	0.4665E-01	0.4360E-00	0.2359E-02	0.1093E-00	0.6504E-02	0.	0.2285
2.500	0.3751E-00	0.3209E-01	0.4895E-00	0.1142E-02	0.9838E-01	0.3771E-02	0.	0.2066
3.000	0.3505E-00	0.2307E-01	0.5368E 00	0.5684E-03	0.8683E-01	0.2195E-02	0.	0.1885
3.500	0.3278E-00	0.1664E-01	0.5784E 00	0.2903E-03	0.7559E-01	0.1288E-02	0.	0.1731
4.000	0.3070E-00	0.1205E-01	0.6148E 00	0.1518E-03	0.6516E-01	0.7615E-03	0.	0.1601
4.500	0.2882E-00	0.8773E-02	0.6467E 00	0.8102E-04	0.5576E-01	0.4540E-03	0.	0.1488
5.000	0.2712E-00	0.6412E-02	0.6747E 00	0.4401E-04	0.4745E-01	0.2726E-03	0.	0.1390
5.500	0.2557E-00	0.4704E-02	0.6992E 00	0.2426E-04	0.4019E-01	0.1645E-03	0.	0.1303
6.000	0.2417E-00	0.3461E-02	0.7208E 00	0.1353E-04	0.3390E-01	0.9976E-04	0.	0.1227

M	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.3192	2867.9	1.3727	12.0107	815.6	65.9490	11902.4	1.1254	1.2325	14.0449
0.5	7.2788	2859.4	1.3755	10.5829	869.8	62.3006	11847.3	1.1268	1.2270	12.3137
1.0	7.2486	2852.9	1.3777	9.5120	918.1	59.4130	11705.9	1.1293	1.2131	11.0011
1.5	7.2251	2848.0	1.3794	8.6791	961.8	46.2343	11515.4	1.1329	1.2000	9.9763
2.0	7.2069	2844.0	1.3808	8.0128	1001.5	39.3970	11299.7	1.1372	1.1906	9.1564
2.5	7.1909	2840.7	1.3819	7.4676	1037.8	34.0500	11074.5	1.1421	1.1848	8.4869
3.0	7.1780	2838.0	1.3828	7.0133	1071.3	29.8991	10848.9	1.1471	1.1818	7.9303
3.5	7.1672	2835.7	1.3836	6.6289	1102.2	26.6229	10627.3	1.1524	1.1808	7.4606
4.0	7.1579	2833.7	1.3843	6.2994	1130.9	23.9818	10411.8	1.1579	1.1813	7.0589
4.5	7.1498	2832.0	1.3849	6.0139	1157.7	21.8075	10203.1	1.1635	1.1829	6.7115
5.0	7.1427	2830.5	1.3854	5.7640	1182.8	19.9891	10001.3	1.1694	1.1856	6.4079
5.5	7.1365	2829.2	1.3859	5.5435	1206.3	18.4479	9806.4	1.1755	1.1896	6.1405
6.0	7.1310	2828.0	1.3863	5.3476	1228.4	17.1303	9617.7	1.1819	1.1931	5.9029

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	7.721	3563.8	1940.0	2712.72	3.3506	7.7212	5.0911	1.7735	0.5639	1.1694
0.5	7.731	3552.2	1644.1	2914.28	3.3506	7.7312	5.0746	1.7727	0.5641	1.1636
1.0	7.678	3511.5	1731.3	3066.57	3.3378	7.6779	5.0165	1.7701	0.5649	1.1566
1.5	7.582	3454.1	1805.9	3189.75	3.3165	7.5822	4.9344	1.7662	0.5662	1.1495
2.0	7.461	3388.0	1870.5	3294.78	3.2900	7.4606	4.8400	1.7615	0.5677	1.1427
2.5	7.325	3318.2	1926.8	3383.68	3.2604	7.3246	4.7403	1.7561	0.5695	1.1365
3.0	7.182	3247.9	1976.4	3459.46	3.2294	7.1824	4.6399	1.7504	0.5713	1.1307
3.5	7.038	3178.5	2020.4	3524.59	3.1978	7.0380	4.5407	1.7445	0.5732	1.1255
4.0	6.894	3110.8	2059.8	3580.71	3.1662	6.8943	4.4440	1.7384	0.5752	1.1206
4.5	6.752	3045.3	2095.1	3629.16	3.1347	6.7524	4.3504	1.7322	0.5773	1.1160
5.0	6.613	2981.9	2127.1	3670.99	3.1037	6.6128	4.2598	1.7258	0.5794	1.1117
5.5	6.476	2920.6	2156.1	3707.05	3.0732	6.4761	4.1722	1.7193	0.5816	1.1077
6.0	6.342	2861.3	2182.5	3737.97	3.0431	6.3419	4.0875	1.7127	0.5839	1.1039

PI= 10.000

TI=200.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6069E 00	0.1335E-00	0.1461E-00	0.3954E-01	0.4915E-01	0.2481E-01	0.	0.4222
0.500	0.5852E 00	0.9464E-01	0.2355E-00	0.1252E-01	0.5901E-01	0.1312E-01	0.	0.3590
1.000	0.5461E 00	0.6050E-01	0.3252E-00	0.3900E-02	0.5827E-01	0.6030E-02	0.	0.3102
1.500	0.5021E 00	0.3685E-01	0.4060E-00	0.1246E-02	0.5120E-01	0.2605E-02	0.	0.2720
2.000	0.4594E-00	0.2198E-01	0.4752E-00	0.4121E-03	0.4193E-01	0.1097E-02	0.	0.2416
2.500	0.4203E-00	0.1299E-01	0.5333E 00	0.1407E-03	0.3283E-01	0.4570E-03	0.	0.2170
3.000	0.3855E-00	0.7639E-02	0.5817E 00	0.4930E-04	0.2494E-01	0.1893E-03	0.	0.1967
3.500	0.3548E-00	0.4482E-02	0.6221E 00	0.1761E-04	0.1853E-01	0.7808E-04	0.	0.1797
4.000	0.3280E-00	0.2625E-02	0.6558E 00	0.6348E-05	0.1353E-01	0.3208E-04	0.	0.1653
4.500	0.3044E-00	0.1535E-02	0.6843E 00	0.2339E-05	0.9756E-02	0.1314E-04	0.	0.1530
5.000	0.2837E-00	0.8979E-03	0.7084E 00	0.8659E-06	0.6984E-02	0.5366E-05	0.	0.1423
5.500	0.2654E-00	0.5253E-03	0.7291E 00	0.3233E-06	0.4934E-02	0.2190E-05	0.	0.1330
6.000	0.2492E-00	0.3077E-03	0.7470E 00	0.1218E-06	0.3477E-02	0.8948E-06	0.	0.1248

M	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.6660	-669.9	1.4247	12.0107	444.1	38.8624	10679.3	1.1426	1.2133	15.2110
0.5	6.6449	-668.8	1.4266	10.5829	473.5	35.3140	10580.1	1.1454	1.2063	13.2980
1.0	6.6290	-667.9	1.4281	9.5120	499.7	28.9817	10263.1	1.1512	1.1944	11.8035
1.5	6.6167	-667.3	1.4292	8.6791	523.3	23.8168	9844.9	1.1589	1.1885	10.6246
2.0	6.6069	-666.8	1.4302	8.0128	544.8	20.1630	9394.0	1.1677	1.1881	9.6809
2.5	6.5988	-666.3	1.4309	7.4676	564.5	17.5631	8943.0	1.1770	1.1912	8.9126
3.0	6.5921	-666.0	1.4315	7.0133	582.6	15.6566	8506.0	1.1865	1.1965	8.2769
3.5	6.5866	-665.7	1.4321	6.6289	599.4	14.2191	8089.3	1.1962	1.2032	7.7633
4.0	6.5815	-665.4	1.4325	6.2994	614.9	13.1144	7695.9	1.2057	1.2107	7.2897
4.5	6.5779	-665.2	1.4329	6.0139	629.5	12.2547	7326.4	1.2150	1.2185	6.8998
5.0	6.5736	-665.0	1.4333	5.7640	643.0	11.5786	6981.0	1.2239	1.2264	6.5615
5.5	6.5704	-664.8	1.4336	5.5435	655.8	11.0425	6659.0	1.2324	1.2341	6.2655
6.0	6.5675	-664.7	1.4339	5.3476	667.7	10.6137	6359.6	1.2402	1.2414	6.0046

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	307.147	4212.8	1622.1	2995.52	6.7446	30.7147	21.0641	1.8467	0.5415	1.2665
0.5	306.582	4176.9	1729.5	3190.31	6.7382	30.6582	20.8846	1.8446	0.5421	1.2566
1.0	301.406	4065.7	1815.8	3340.72	6.6859	30.1406	20.3287	1.8399	0.5435	1.2469
1.5	293.600	3920.6	1885.7	3457.36	6.6068	29.3600	19.6028	1.8335	0.5456	1.2342
2.0	284.515	3764.4	1943.1	3548.55	6.5135	28.4515	18.8222	1.8263	0.5476	1.2082
2.5	274.938	3608.4	1990.5	3620.14	6.4132	27.4938	18.0419	1.8187	0.5498	1.1935
3.0	265.261	3457.2	2030.0	3676.31	6.3101	26.5261	17.2861	1.8110	0.5522	1.1802
3.5	255.726	3313.0	2062.9	3719.92	6.2064	25.5726	16.5651	1.8033	0.5545	1.1681
4.0	246.469	3176.6	2090.1	3753.28	6.1034	24.6469	15.8830	1.7957	0.5569	1.1572
4.5	237.579	3048.2	2112.6	3778.14	6.0022	23.7579	15.2412	1.7884	0.5592	1.1473
5.0	229.084	2927.9	2131.0	3796.02	5.9032	22.9084	14.6393	1.7814	0.5614	1.1384
5.5	221.031	2815.3	2145.7	3808.98	5.8070	22.1031	14.0764	1.7747	0.5635	1.1302
6.0	213.432	2710.2	2157.4	3815.41	5.7139	21.3432	13.5510	1.7686	0.5654	1.1229

PI= 10.000

TI=298.1500 R= 0.

M	MU(H2O)	MU(OH)	MU(H2)	MU(O2)	MU(H)	MU(O)	MU(HE)	1/NF
0.	0.5879E 00	0.1960E-00	0.1511E-00	0.4136E-01	0.5514E-01	0.2765E-01	0.	0.4175
0.500	0.5681E 00	0.9919E-01	0.2376E-00	0.1402E-01	0.6583E-01	0.1525E-01	0.	0.3553
1.000	0.5525E 00	0.6954E-01	0.3241E-00	0.4700E-02	0.6579E-01	0.7417E-02	0.	0.3074
1.500	0.4919E-00	0.4139E-01	0.4027E-00	0.1610E-02	0.5902E-01	0.3405E-02	0.	0.2699
2.000	0.4519E-00	0.2961E-01	0.4709E-00	0.5695E-03	0.4956E-01	0.1526E-02	0.	0.2401
2.500	0.4149E-00	0.1571E-01	0.5286E 00	0.2074E-03	0.3989E-01	0.6775E-03	0.	0.2158
3.000	0.3816E-00	0.9603E-02	0.5772E 00	0.7785E-04	0.3119E-01	0.2997E-03	0.	0.1958
3.500	0.3521E-00	0.5861E-02	0.6180E 00	0.2977E-04	0.2389E-01	0.1329E-03	0.	0.1791
4.000	0.3261E-00	0.3576E-02	0.6525E 00	0.1157E-04	0.1801E-01	0.5826E-04	0.	0.1649
4.500	0.3031E-00	0.2178E-02	0.6815E 00	0.4550E-05	0.1341E-01	0.2560E-04	0.	0.1526
5.000	0.2828E-00	0.1327E-02	0.7060E 00	0.1804E-05	0.9866E-02	0.1125E-04	0.	0.1421
5.500	0.2644E-00	0.8090E-03	0.7272E 00	0.7251E-06	0.7234E-02	0.4976E-05	0.	0.1328
6.000	0.2488E-00	0.4918E-03	0.7455E 00	0.2933E-06	0.5265E-02	0.2161E-05	0.	0.1246

M	CPI	MI	GAMI	WI	AI	CP	M	GAM	GAM*	M
0.	6.9350	0.	1.4016	12.0107	537.9	41.3544	11096.0	1.1611	1.2167	15.0443
0.5	6.9289	0.	1.4021	10.5829	571.1	37.8691	11006.9	1.1635	1.2099	13.1599
1.0	6.9262	0.	1.4025	9.5120	604.6	35.3955	10727.8	1.1687	1.1973	11.6961
1.5	6.9206	0.	1.4028	8.6791	639.0	25.8838	10344.4	1.1557	1.1899	10.5427
2.0	6.9177	0.	1.4030	8.0128	658.8	21.8782	9931.6	1.1637	1.1879	9.6186
2.5	6.9154	0.	1.4032	7.4676	682.5	18.9887	9514.9	1.1722	1.1895	8.8655
3.0	6.9134	0.	1.4034	7.0133	706.9	16.8486	9108.2	1.1811	1.1936	8.2411
3.5	6.9118	0.	1.4035	6.6289	726.5	15.2158	8717.8	1.1902	1.1993	7.7164
4.0	6.9103	0.	1.4036	6.2994	743.2	13.9548	8346.5	1.1994	1.2060	7.2695
4.5	6.9091	0.	1.4037	6.0139	760.7	12.9595	7995.6	1.2074	1.2132	6.8848
5.0	6.9080	0.	1.4038	5.7640	777.0	12.1684	7666.6	1.2173	1.2207	6.5504
5.5	6.9071	0.	1.4039	5.5435	792.9	11.5349	7356.2	1.2254	1.2283	6.2574
6.0	6.9062	0.	1.4040	5.3476	808.8	11.0248	7063.7	1.2334	1.2356	5.9987

M	P	T	A	UP	MD	P/PI	T/TI	RAU/RAUI	UZ/UI	M/MI
0.	203.691	4145.9	1616.9	2964.16	5.5110	20.3691	13.9033	1.8333	0.5455	1.2526
0.5	203.269	4116.9	1724.2	3157.88	5.5107	20.3269	13.8816	1.8315	0.5460	1.2435
1.0	200.246	4018.8	1811.9	3309.53	5.4761	20.0246	13.6766	1.8271	0.5473	1.2296
1.5	195.565	3889.4	1882.8	3428.68	5.4166	19.5565	13.0450	1.8211	0.5491	1.2147
2.0	190.049	3749.2	1942.0	3525.04	5.3473	19.0049	12.5750	1.8141	0.5512	1.2004
2.5	184.160	3607.8	1991.6	3598.32	5.2722	18.4160	12.1005	1.8068	0.5535	1.1872
3.0	178.179	3469.7	2033.4	3650.10	5.1961	17.8179	11.6373	1.7991	0.5559	1.1751
3.5	172.242	3337.8	2068.7	3685.04	5.1193	17.2242	11.1943	1.7914	0.5582	1.1640
4.0	166.441	3210.6	2098.7	3705.34	5.0367	16.6441	10.7684	1.7837	0.5606	1.1540
4.5	160.831	3090.9	2123.9	3722.14	4.9588	16.0831	10.3669	1.7761	0.5630	1.1448
5.0	155.437	2977.8	2145.0	3735.77	4.8826	15.5437	9.9875	1.7686	0.5654	1.1364
5.5	150.291	2871.9	2162.6	3747.49	4.8078	15.0291	9.6304	1.7615	0.5677	1.1288
6.0	145.407	2771.9	2177.0	3757.58	4.7347	14.5402	9.2949	1.7548	0.5699	1.1218

PI= 10.000

TI=300.0000 R= 0.

M	MU(H2O)	MU(OH)	MU(H2)	MU(O2)	MU(H)	MU(O)	MU(HE)	1/NF
0.	0.5876E 00	0.1968E-00	0.1512E-00	0.4136E-01	0.5525E-01	0.2770E-01	0.	0.4176
0.500	0.5678E 00	0.9927E-01	0.2376E-00	0.1404E-01	0.6595E-01	0.1528E-01	0.	0.3552
1.000	0.5522E 00	0.6962E-01	0.3241E-00	0.4713E-02	0.6592E-01	0.7442E-02	0.	0.3074
1.500	0.4917E-00	0.4146E-01	0.4027E-00	0.1617E-02	0.5915E-01	0.3420E-02	0.	0.2699
2.000	0.4518E-00	0.2967E-01	0.4708E-00	0.5725E-03	0.4969E-01	0.1534E-02	0.	0.2401
2.500	0.4148E-00	0.1576E-01	0.5285E 00	0.2091E-03	0.4001E-01	0.6819E-03	0.	0.2158
3.000	0.3814E-00	0.9639E-02	0.5771E 00	0.7843E-04	0.3131E-01	0.3020E-03	0.	0.1958
3.500	0.3521E-00	0.5887E-02	0.6179E 00	0.3003E-04	0.2399E-01	0.1334E-03	0.	0.1791
4.000	0.3260E-00	0.3592E-02	0.6527E 00	0.1166E-04	0.1810E-01	0.5844E-04	0.	0.1648
4.500	0.3030E-00	0.2191E-02	0.6819E 00	0.4601E-05	0.1346E-01	0.2569E-04	0.	0.1526
5.000	0.2827E-00	0.1336E-02	0.7068E 00	0.1831E-05	0.9944E-02	0.1131E-04	0.	0.1420
5.500	0.2644E-00	0.8150E-03	0.7277E 00	0.7350E-06	0.7281E-02	0.4994E-05	0.	0.1328
6.000	0.2488E-00	0.4978E-03	0.7454E 00	0.2977E-06	0.5302E-02	0.2194E-05	0.	0.1246

M	CPI	MI	GAMI	WI	AI	CP	M	GAM	GAM*	M
0.	6.9371	12.8	1.4015	12.0107	539.5	41.3960	11105.0	1.1610	1.2167	15.0415
0.5	6.9309	12.8	1.4020	10.5829	574.8	37.9116	11015.8	1.1635	1.2100	13.1576
1.0	6.9263	12.8	1.4024	9.5120	606.4	35.4379	10737.0	1.1687	1.1974	11.6943
1.5	6.9227	12.8	1.4026	8.6791	634.9	25.9211	10354.2	1.1556	1.1899	10.5413
2.0	6.9198	12.8	1.4029	8.0128	660.8	21.9084	9962.1	1.1636	1.1879	9.6175
2.5	6.9174	12.8	1.4031	7.4676	684.6	19.0146	9526.0	1.1722	1.1895	8.8645
3.0	6.9154	12.7	1.4032	7.0133	706.5	16.8705	9119.9	1.1810	1.1936	8.2405
3.5	6.9138	12.7	1.4034	6.6289	726.7	15.2388	8730.0	1.1901	1.1992	7.7159
4.0	6.9124	12.7	1.4035	6.2994	745.5	13.9711	8359.0	1.1993	1.2059	7.2691
4.5	6.9111	12.7	1.4036	6.0139	763.0	12.9729	8008.2	1.2083	1.2131	6.8845
5.0	6.9100	12.7	1.4037	5.7640	779.4	12.1798	7677.7	1.2172	1.2206	6.5502
5.5	6.9091	12.7	1.4037	5.5435	794.8	11.5449	7367.4	1.2256	1.2281	6.2572
6.0	6.9082	12.7	1.4038	5.3476	809.2	11.0332	7077.2	1.2336	1.2355	5.9985

M	P	T	A	UP	MD	P/PI	T/TI	RAU/RAUI	UZ/UI	M/MI
0.	202.701	4144.9	1616.8	2963.66	5.4934	20.2701	13.8163	1.8331	0.5455	1.2523
0.5	201.979	4119.0	1724.2	3157.32	5.4925	20.1979	13.7133	1.8312	0.5461	1.2433
1.0	198.978	4017.9	1811.9	3308.95	5.4565	19.8978	13.3909	1.8268	0.5474	1.2294
1.5	194.398	3888.9	1882.8	3428.14	5.3996	19.4398	12.9631	1.8208	0.5492	1.2146
2.0	188.858	3749.1	1942.0	3522.69	5.3305	18.8858	12.4969	1.8139	0.5513	1.2003
2.5	183.020	3607.8	1991.6	3597.96	5.2556	18.3020	12.0761	1.8065	0.5535	1.1871
3.0	177.084	3469.9	2033.5	3650.82	5.1780	17.7084	11.5665	1.7989	0.5559	1.1750
3.5	171.196	3337.5	2068.8	3705.71	5.0995	17.1196	11.1249	1.7912	0.5583	1.1640
4.0	165.498	3211.1	2098.8	3749.11	5.0211	16.5498	10.7047	1.7836	0.5607	1.1539
4.5	159.866	3091.7	2124.1	3772.01	4.9437	15.9866	10.3056	1.7758	0.5631	1.1448
5.0	154.511	2978.7	2145.3	3791.75	4.8676	15.4511	9.9291	1.7684	0.5655	1.1364
5.5	149.402	2772.4	2162.9	3809.43	4.7932	14.9402	9.5746	1.7613	0.5678	1.1287
6.0	144.547	2772.4	2177.3	3820.78	4.7209	14.4547	9.2414	1.7545	0.5700	1.1217

PI= 10.000

TI=400.0000 N= 0.

N	MU(H2O)	MU(OH)	MU(H2)	MU(O2)	MU(H)	MU(O)	MU(HE)	1/RF
0.	0.5721E 00	0.1395E-00	0.1552E-00	0.4276E-01	0.6037E-01	0.3013E-01	0.	0.4136
0.500	0.5536E 00	0.1029E-00	0.2999E-00	0.1528E-01	0.7175E-01	0.1715E-01	0.	0.3521
1.000	0.5205E 00	0.6977E-01	0.3232E-00	0.5429E-02	0.7237E-01	0.8724E-02	0.	0.3049
1.500	0.4826E-00	0.4596E-01	0.3000E-00	0.1967E-02	0.6600E-01	0.4208E-02	0.	0.2680
2.000	0.4449E-00	0.2894E-01	0.4669E-00	0.7960E-03	0.5657E-01	0.1986E-02	0.	0.2386
2.500	0.4096E-00	0.1833E-01	0.5262E 00	0.2862E-03	0.4660E-01	0.9309E-03	0.	0.2167
3.000	0.3777E-00	0.1158E-01	0.5728E 00	0.1129E-03	0.3737E-01	0.4359E-03	0.	0.1950
3.500	0.3493E-00	0.7320E-02	0.6138E 00	0.4584E-04	0.2940E-01	0.2042E-03	0.	0.1784
4.000	0.3240E-00	0.4628E-02	0.6485E 00	0.1896E-04	0.2279E-01	0.9572E-04	0.	0.1644
4.500	0.3015E-00	0.2928E-02	0.6780E 00	0.7954E-05	0.1747E-01	0.4489E-04	0.	0.1523
5.000	0.2817E-00	0.1854E-02	0.7032E 00	0.3380E-05	0.1328E-01	0.2105E-04	0.	0.1418
5.500	0.2640E-00	0.1176E-02	0.7248E 00	0.1450E-05	0.1002E-01	0.9881E-05	0.	0.1326
6.000	0.2482E-00	0.7464E-03	0.7435E 00	0.6279E-06	0.7522E-02	0.4643E-05	0.	0.1245

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.0489	712.6	1.3926	12.0107	621.0	43.4115	11602.8	1.1400	1.2197	14.9030
0.5	7.0386	711.8	1.3934	10.5829	661.7	40.0008	11519.9	1.1423	1.2132	13.0417
1.0	7.0305	711.3	1.3940	9.5120	698.2	33.6823	11259.3	1.1468	1.2002	11.6019
1.5	7.0246	710.8	1.3944	8.6791	731.0	27.7387	10909.9	1.1532	1.1917	10.4686
2.0	7.0199	710.5	1.3949	8.0128	760.9	23.4679	10526.5	1.1606	1.1886	9.5605
2.5	7.0156	710.2	1.3952	7.4676	788.3	20.3495	10137.4	1.1684	1.1888	8.8197
3.0	7.0121	709.9	1.3954	7.0133	813.5	18.0196	9756.1	1.1767	1.1917	8.2056
3.5	7.0093	709.7	1.3957	6.6289	836.8	16.2317	9388.8	1.1850	1.1962	7.6886
4.0	7.0068	709.6	1.3958	6.2994	858.5	14.8317	9037.7	1.1937	1.2028	7.2477
4.5	7.0047	709.4	1.3960	6.0139	878.7	13.7176	8704.2	1.2023	1.2085	6.8679
5.0	7.0029	709.3	1.3962	5.7640	897.6	12.8232	8388.6	1.2108	1.2155	6.5376
5.5	7.0013	709.2	1.3963	5.5435	915.3	12.0982	8090.6	1.2191	1.2226	6.2474
6.0	6.9998	709.1	1.3964	5.3476	931.9	11.5096	7810.1	1.2271	1.2297	5.9911

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	150.245	4100.0	1614.8	2937.04	4.7297	15.0245	10.2499	1.0188	0.5498	1.2408
0.5	150.169	4073.5	1722.4	3120.78	4.7296	15.0163	10.1836	1.0172	0.5503	1.2323
1.0	148.167	3987.0	1810.7	3282.10	4.7011	14.8167	9.9674	1.0131	0.5515	1.2197
1.5	145.001	3870.9	1882.9	3401.12	4.6554	14.5001	9.6771	1.0073	0.5533	1.2062
2.0	141.278	3749.9	1943.8	3498.00	4.5988	14.1278	9.3982	1.0006	0.5554	1.1932
2.5	137.183	3629.6	1995.1	3578.17	4.5392	13.7183	9.0340	1.7935	0.5576	1.1811
3.0	133.052	3486.4	2038.9	3641.39	4.4763	13.3052	8.7160	1.7860	0.5599	1.1700
3.5	128.963	3383.7	2076.2	3692.39	4.4125	12.8963	8.4093	1.7784	0.5623	1.1598
4.0	124.902	3286.9	2108.4	3733.34	4.3488	12.4902	8.1158	1.7707	0.5648	1.1505
4.5	120.977	3194.6	2136.0	3765.77	4.2858	12.0977	7.8365	1.7630	0.5672	1.1420
5.0	117.187	3107.4	2159.7	3791.04	4.2247	11.7187	7.5716	1.7554	0.5697	1.1342
5.5	113.552	3024.9	2179.7	3810.22	4.1629	11.3552	7.3209	1.7480	0.5721	1.1270
6.0	110.076	2947.6	2196.8	3824.10	4.1036	11.0076	7.0840	1.7409	0.5744	1.1203

PI= 10.000

TI=500.0000 N= 0.

N	MU(H2O)	MU(OH)	MU(H2)	MU(O2)	MU(H)	MU(O)	MU(HE)	1/RF
0.	0.5586E 00	0.1417E-00	0.1585E-00	0.4387E-01	0.6697E-01	0.3291E-01	0.	0.4102
0.500	0.5411E 00	0.1060E-00	0.2407E-00	0.1694E-01	0.7694E-01	0.1886E-01	0.	0.3493
1.000	0.5100E 00	0.7996E-01	0.3226E-00	0.6077E-02	0.7815E-01	0.9948E-02	0.	0.3027
1.500	0.4742E-00	0.4883E-01	0.3976E-00	0.2308E-02	0.7222E-01	0.4991E-02	0.	0.2663
2.000	0.4386E-00	0.3195E-01	0.4636E-00	0.9047E-03	0.6294E-01	0.2459E-02	0.	0.2373
2.500	0.4047E-00	0.2078E-01	0.5201E 00	0.3663E-03	0.5288E-01	0.1206E-02	0.	0.2137
3.000	0.3738E-00	0.1351E-01	0.5685E 00	0.1477E-03	0.4327E-01	0.5919E-03	0.	0.1942
3.500	0.3466E-00	0.8788E-02	0.6097E 00	0.6529E-04	0.3481E-01	0.2918E-03	0.	0.1778
4.000	0.3218E-00	0.5710E-02	0.6447E 00	0.2949E-04	0.2764E-01	0.1441E-03	0.	0.1639
4.500	0.2999E-00	0.3744E-02	0.6745E 00	0.1266E-04	0.2173E-01	0.7145E-04	0.	0.1519
5.000	0.2804E-00	0.2451E-02	0.7001E 00	0.5686E-05	0.1695E-01	0.3551E-04	0.	0.1415
5.500	0.2631E-00	0.1608E-02	0.7222E 00	0.2589E-05	0.1314E-01	0.1769E-04	0.	0.1323
6.000	0.2475E-00	0.1058E-02	0.7413E 00	0.1191E-05	0.1014E-01	0.8832E-05	0.	0.1243

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.1393	1422.0	1.3857	12.0107	692.6	45.1292	12135.7	1.1392	1.2225	14.7813
0.5	7.1186	1419.7	1.3873	10.5829	738.2	41.7937	12055.5	1.1411	1.2162	12.9392
1.0	7.1028	1418.0	1.3885	9.5120	779.0	35.2865	11810.9	1.1456	1.2031	11.5188
1.5	7.0906	1416.7	1.3894	8.6791	815.8	29.3853	11483.1	1.1514	1.1936	10.4020
2.0	7.0809	1415.6	1.3901	8.0128	849.3	24.9176	11122.2	1.1581	1.1893	9.5071
2.5	7.0729	1414.7	1.3907	7.4676	879.9	21.6173	10755.1	1.1654	1.1886	8.7768
3.0	7.0662	1414.0	1.3912	7.0133	908.1	19.1924	10394.2	1.1730	1.1905	8.1708
3.5	7.0606	1413.3	1.3917	6.6289	934.2	17.2151	10045.8	1.1808	1.1941	7.6606
4.0	7.0558	1412.8	1.3921	6.2994	958.5	15.7023	9712.9	1.1888	1.1989	7.2254
4.5	7.0516	1412.4	1.3924	6.0139	981.1	14.6889	9396.7	1.1970	1.2047	6.8501
5.0	7.0480	1411.9	1.3927	5.7640	1002.2	13.5049	9093.1	1.2051	1.2110	6.5233
5.5	7.0448	1411.6	1.3929	5.5435	1022.1	12.6993	8807.6	1.2130	1.2175	6.2362
6.0	7.0419	1411.3	1.3931	5.3476	1040.7	12.0379	8537.4	1.2208	1.2242	5.9829

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	119.292	4068.5	1614.7	2913.22	4.2065	11.9292	8.1371	1.0062	0.5543	1.2307
0.5	119.279	4044.9	1722.4	3104.92	4.2060	11.9279	8.0898	1.0027	0.5547	1.2227
1.0	117.832	3966.2	1811.0	3257.66	4.1819	11.7832	7.9326	1.7988	0.5559	1.2110
1.5	115.509	3859.8	1884.7	3379.98	4.1432	11.5509	7.7196	1.7933	0.5576	1.1985
2.0	112.716	3742.1	1946.9	3478.76	4.0962	11.2716	7.4843	1.7868	0.5596	1.1865
2.5	109.703	3622.0	1999.7	3559.22	4.0450	10.9703	7.2661	1.7799	0.5618	1.1753
3.0	106.616	3503.8	2045.1	3625.00	3.9917	10.6616	7.0076	1.7726	0.5642	1.1650
3.5	103.537	3389.4	2084.2	3678.80	3.9378	10.3537	6.7789	1.7651	0.5666	1.1556
4.0	100.511	3279.8	2118.2	3722.71	3.8840	10.0511	6.5597	1.7575	0.5690	1.1470
4.5	97.555	3175.2	2147.8	3758.27	3.8307	9.7555	6.3504	1.7498	0.5715	1.1391
5.0	94.696	3075.7	2173.5	3786.72	3.7783	9.4696	6.1514	1.7422	0.5740	1.1317
5.5	91.944	2981.2	2195.8	3809.11	3.7269	9.1944	5.9626	1.7348	0.5764	1.1250
6.0	89.307	2891.6	2215.0	3826.27	3.6766	8.9302	5.7832	1.7274	0.5789	1.1187

PI= 10.000

TI=600.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.5464E 00	0.1638E-00	0.1613E-00	0.4485E-01	0.6925E-01	0.3436E-01	0.	0.4071
0.500	0.5297E 00	0.108RE-00	0.2420E-00	0.1729E-01	0.8175E-01	0.2048E-01	0.	0.3468
1.000	0.5009E 00	0.7659F-01	0.3217E-00	0.6684E-02	0.8951E-01	0.1112E-01	0.	0.3007
1.500	0.4664E-00	0.5203E-01	0.3952F-00	0.2644E-02	0.7804E-01	0.5781E-02	0.	0.2647
2.000	0.4321F-00	0.3480F-01	0.4601F-00	0.1040E-02	0.6899E-01	0.2955E-02	0.	0.2360
2.500	0.3998E-00	0.2316E-01	0.5162E 00	0.4557F-03	0.5887E-01	0.1507E-02	0.	0.2127
3.000	0.3701E-00	0.1542E-01	0.5644E 00	0.1983E-03	0.4908E-01	0.7714E-03	0.	0.1934
3.500	0.3434E-00	0.1030E-01	0.6056E 00	0.8864E-04	0.4026E-01	0.3970E-03	0.	0.1771
4.000	0.3195E-00	0.6897E-02	0.6407F 00	0.4053F-04	0.3264E-01	0.2056E-03	0.	0.1633
4.500	0.2981E-00	0.4636F-02	0.6709F 00	0.1888F-04	0.2623E-01	0.1070E-03	0.	0.1515
5.000	0.2791E-00	0.3126E-02	0.6968E 00	0.8938E-05	0.2094E-01	0.5595E-04	0.	0.1411
5.500	0.2620E-00	0.2114E-02	0.7192F 00	0.4289E-05	0.1662E-01	0.2938E-04	0.	0.1321
6.000	0.2467E-00	0.1435E-02	0.7387E 00	0.2083E-05	0.1314E-01	0.1549E-04	0.	0.1241

M	CPI	MI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.2295	2140.4	1.3791	12.0107	756.R	46.6597	12690.1	1.1387	1.2253	14.6699
0.5	7.1980	2139.5	1.3814	10.5829	807.0	43.3953	12609.9	1.1406	1.2191	12.8450
1.0	7.1746	2131.R	1.3831	9.5120	851.7	38.9213	12376.6	1.1446	1.2059	11.4416
1.5	7.1561	2128.9	1.3845	R.6791	892.1	30.9202	12065.4	1.1499	1.1958	10.3392
2.0	7.1414	2126.6	1.3855	R.012M	928.R	26.2966	11722.R	1.1561	1.1905	9.4558
2.5	7.1293	2124.7	1.3864	7.4676	962.4	22.8430	11373.4	1.1629	1.1889	R.7348
3.0	7.1193	2123.2	1.3872	7.0133	993.4	20.2270	11030.2	1.1699	1.1899	R.1364
3.5	7.1108	2121.R	1.3878	6.6289	1022.0	18.1942	10694.1	1.1772	1.1926	7.6323
4.0	7.1036	2120.7	1.3886	6.2994	1048.6	16.5871	10380.3	1.1846	1.1966	7.2022
4.5	7.0973	2119.7	1.3889	6.0139	1073.4	15.2867	10077.1	1.1921	1.2015	6.8311
5.0	7.0918	211R.R	1.3893	5.7640	1096.6	14.2229	9788.6	1.1997	1.2070	6.5077
5.5	7.0869	211R.1	1.3897	5.5435	1118.3	13.3451	9514.7	1.2073	1.2130	6.2236
6.0	7.0826	2117.4	1.3900	5.3476	1138.7	12.6166	9255.1	1.2147	1.2191	5.9720

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	9R.765	4045.2	1615.R	2891.06	9.R199	9.R765	6.7419	1.7R93	0.55R9	1.2214
0.5	9R.790	4023.R	1723.6	3081.78	9.R190	9.R790	6.7063	1.7RR0	0.5593	1.213R
1.0	97.6RR	3951.6	1R12.9	3234.66	9.7979	9.76RR	6.5R57	1.7R42	0.5605	1.2029
1.5	95.R97	3853.0	1RR7.6	3357.92	9.7642	9.5R97	6.4217	1.7790	0.5621	1.1913
2.0	93.726	3743.7	1950.R	3458.23	9.7234	9.3726	6.2395	1.7727	0.5641	1.1801
2.5	91.377	3631.7	2005.0	3540.47	9.67RR	9.1377	6.05ZR	1.765R	0.5663	1.1697
3.0	RR.967	3521.2	2051.7	3608.43	9.6326	R.R967	5.86R7	1.7587	0.56R6	1.1601
3.5	R6.555	3414.2	2092.5	3664.64	9.5R5R	R.6555	5.6903	1.7514	0.5710	1.1514
4.0	R4.183	3311.5	2128.0	3711.09	9.5392	R.4183	5.5191	1.7439	0.5734	1.1433
4.5	R1.R66	3213.3	2159.3	3749.38	9.4931	R.1R66	5.3555	1.7364	0.5759	1.1359
5.0	79.619	3119.7	21R6.R	3780.62	9.4477	7.9619	5.1996	1.72RR	0.57R6	1.1290
5.5	77.449	3030.7	2210.9	3805.81	9.4032	7.7449	5.0512	1.7214	0.5809	1.1227
6.0	75.362	2946.1	2232.1	3825.87	9.3597	7.5362	4.9102	1.7140	0.5834	1.116R

PI= 10.000

TI=700.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.5351E 00	0.1447E-00	0.1639E-00	0.4571E-01	0.7333E-01	0.3632E-01	0.	0.4042
0.500	0.5191F 00	0.1113E-00	0.2431F-00	0.1816F-01	0.8631E-01	0.2205E-01	0.	0.3444
1.000	0.4912E-00	0.7956E-01	0.3211E-00	0.7267E-02	0.8860E-01	0.1229E-01	0.	0.298R
1.500	0.458RE-00	0.5502E-01	0.3930E-00	0.2979E-02	0.8359E-01	0.6585E-02	0.	0.2632
2.000	0.4260F-00	0.3752F-01	0.4569F-00	0.1262F-02	0.7682E-01	0.3479E-02	0.	0.2348
2.500	0.3949F-00	0.2549E-01	0.5125F 00	0.5524E-03	0.6876F-01	0.1837E-02	0.	0.2117
3.000	0.3663F-00	0.1734F-01	0.5603F 00	0.2497E-03	0.5985E-01	0.9752E-03	0.	0.1925
3.500	0.3403F-00	0.1184F-01	0.6014F 00	0.1161E-03	0.5077E-01	0.5218E-03	0.	0.1765
4.000	0.3171E-00	0.R124E-02	0.6367F 00	0.5534E-04	0.4279E-01	0.2814E-03	0.	0.1628
4.500	0.2962E-00	0.5599E-02	0.6670E 00	0.2693E-04	0.3097E-01	0.1529E-03	0.	0.1510
5.000	0.2775F-00	0.3875F-02	0.6933F 00	0.1333F-04	0.2523E-01	0.8365E-04	0.	0.140R
5.500	0.2606F-00	0.2604F-02	0.7160F 00	0.6705E-05	0.2046E-01	0.4604E-04	0.	0.1318
6.000	0.2458F-00	0.1879F-02	0.7358F 00	0.3417E-05	0.1653E-01	0.254RE-04	0.	0.123R

M	CPI	MI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.3192	2R47.9	1.3727	12.0107	R15.6	48.051R	13259.6	1.13R2	1.2280	14.5654
0.5	7.27RR	2R59.4	1.3755	10.5829	869.R	44.R606	13177.2	1.1401	1.2220	12.7564
1.0	7.2486	2R52.9	1.3777	9.5120	918.1	38.4452	12952.0	1.1437	1.20R7	11.36R2
1.5	7.2251	2R4R.0	1.3794	R.6791	961.R	32.3782	12654.0	1.14R7	1.1980	10.27RR
2.0	7.2063	2R44.0	1.3R0R	R.012M	1001.5	27.6252	12326.1	1.1545	1.1920	9.4060
2.5	7.1909	2R40.7	1.3R19	7.4676	1037.R	24.0429	11991.R	1.1607	1.1896	R.6934
3.0	7.17R0	2R3R.0	1.3R2R	7.0133	1071.3	21.3125	11663.4	1.1672	1.1897	R.1019
3.5	7.1672	2R34.7	1.3R36	6.6289	1102.2	19.1837	11345.9	1.1739	1.1916	7.6035
4.0	7.1579	2R33.7	1.3R43	6.2994	1130.9	17.4R57	11041.9	1.1R0R	1.194R	7.17R1
4.5	7.149R	2R32.0	1.3R49	6.0139	1157.7	16.1083	10751.7	1.1R7R	1.1949	6.8110
5.0	7.1427	2R30.5	1.3R54	5.7640	1182.R	14.9742	10475.4	1.1949	1.2037	6.490
5.5	7.1365	2R29.2	1.3R59	5.5435	1206.3	14.0314	10212.R	1.2019	1.2090	6.2096
6.0	7.1310	2R2R.0	1.3R63	5.3476	1228.4	13.2413	9967.3	1.2090	1.2146	5.9604

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	R4.169	4027.2	1R17.R	2869.99	9.51RR	R.4169	5.7532	1.7742	0.5636	1.2127
0.5	R4.211	4007.7	1725.R	3059.66	9.5178	R.4211	5.7253	1.7729	0.5640	1.2054
1.0	R3.345	3940.6	1R15.6	3212.55	9.4990	R.3345	5.6295	1.7694	0.5652	1.1951
1.5	R1.914	3R49.0	1R91.1	3336.52	9.4691	R.1914	5.4986	1.7643	0.5668	1.1843
2.0	R0.171	3746.9	1955.4	3438.09	9.4330	R.0171	5.3528	1.75R2	0.56RR	1.1739
2.5	78.280	3642.0	2010.7	3521.77	9.3935	7.R280	5.2029	1.7515	0.5709	1.1641
3.0	76.434	3538.4	205R.7	3591.51	9.3526	7.6434	5.0548	1.7445	0.5732	1.1552
3.5	74.589	3437.9	2100.R	3649.72	9.3113	7.4389	4.9113	1.7373	0.5756	1.1470
4.0	72.671	3341.3	2137.R	3698.44	9.2703	7.2471	4.7733	1.7300	0.5780	1.1395
4.5	70.599	3249.0	2170.5	3739.05	9.2297	7.0599	4.6415	1.7227	0.5805	1.1325
5.0	6R.779	3161.0	2199.6	3772.74	9.1898	6.R779	4.5157	1.7152	0.5830	1.1261
5.5	67.022	3077.1	2225.4	3800.57	9.1507	6.7022	4.395R	1.7078	0.5855	1.1202
6.0	65.326	2997.2	2248.3	3823.25	9.1125	6.5326	4.2818	1.7005	0.5881	1.1146

PI= 100.000

TI=200.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6861E 00	0.1188E-00	0.1221E-00	0.3096E-01	0.2751E-01	0.1452E-01	0.	0.4407
0.500	0.6930E 00	0.7408E-01	0.2260E-00	0.6674E-02	0.9412E-01	0.6078E-02	0.	0.3733
1.000	0.5940E 00	0.4078E-01	0.3295E-00	0.1491E-02	0.3201E-01	0.2168E-02	0.	0.3200
1.500	0.5338E 00	0.2182E-01	0.4172E-00	0.4705E-03	0.2612E-01	0.7946E-03	0.	0.2785
2.000	0.4798E-00	0.1167E-01	0.4883E-00	0.1006E-03	0.1987E-01	0.2652E-03	0.	0.2460
2.500	0.4333E-00	0.6285E-02	0.5457E 00	0.2919E-04	0.1453E-01	0.9462E-04	0.	0.2199
3.000	0.3938E-00	0.3414E-02	0.5924E 00	0.8912E-05	0.1038E-01	0.3427E-04	0.	0.1986
3.500	0.3601E-00	0.1871E-02	0.6307E 00	0.2832E-05	0.7313E-02	0.1259E-04	0.	0.1810
4.000	0.3313E-00	0.1034E-02	0.6626E 00	0.9300E-06	0.5104E-02	0.4690E-05	0.	0.1662
4.500	0.3065E-00	0.5767E-03	0.6894E 00	0.3141E-06	0.3542E-02	0.1769E-05	0.	0.1535
5.000	0.2850E-00	0.3243E-03	0.7122E 00	0.1048E-06	0.2450E-02	0.6759E-06	0.	0.1427
5.500	0.2662E-00	0.1839E-03	0.7319E 00	0.3852E-07	0.1693E-02	0.2615E-06	0.	0.1332
6.000	0.2497E-00	0.1052E-03	0.7490E 00	0.1392E-07	0.1170E-02	0.1024E-06	0.	0.1249

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	6.6660	-669.9	1.4247	12.0107	444.1	28.8075	11995.5	1.1517	1.2033	15.8788
0.5	6.6449	-668.8	1.4266	10.5829	473.5	25.3725	11786.7	1.1559	1.1960	13.8255
1.0	6.6290	-667.9	1.4281	9.5120	-99.7	20.6253	11232.2	1.1643	1.1890	12.1767
1.5	6.6167	-667.3	1.4292	8.6791	523.3	17.4376	10588.3	1.1742	1.1894	10.8788
2.0	6.6069	-666.8	1.4302	8.012R	544.8	15.3491	9947.2	1.1843	1.1940	9.8544
2.5	6.5988	-666.3	1.4309	7.4676	564.5	13.9077	9348.6	1.1942	1.2006	9.0310
3.0	6.5921	-666.0	1.4315	7.0133	582.6	12.8664	8798.7	1.2036	1.2078	8.3576
3.5	6.5866	-665.7	1.4321	6.6289	599.4	12.0885	8296.9	1.2125	1.2154	7.7981
4.0	6.5815	-665.4	1.4325	6.2994	614.9	11.4921	7840.7	1.2209	1.2228	7.3267
4.5	6.5773	-665.2	1.4329	6.0139	629.5	11.0245	7425.8	1.2287	1.2300	6.9248
5.0	6.5736	-665.0	1.4333	5.7660	643.0	10.6506	7048.3	1.2359	1.2367	6.5783
5.5	6.5704	-664.8	1.4336	5.5435	655.8	10.3459	6704.2	1.2425	1.2431	6.2768
6.0	6.5675	-664.7	1.4339	5.3476	667.7	10.0930	6389.7	1.2486	1.2490	6.0122

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	3277.670	4705.5	1684.6	3102.62	6.9857	32.7767	23.5277	1.8418	0.5430	1.3221
0.5	3258.733	4630.9	1794.2	3298.81	6.9673	32.5873	23.1546	1.8386	0.5439	1.3064
1.0	3173.919	4435.6	1878.0	3440.11	6.8848	31.7392	22.1768	1.8318	0.5459	1.2799
1.5	3041.440	4208.3	1943.3	3544.33	6.7710	30.6166	21.0413	1.8239	0.5483	1.2534
2.0	2941.018	3986.1	1995.2	3622.76	6.6497	29.4102	19.9204	1.8157	0.5507	1.2298
2.5	2820.463	3773.8	2036.9	3682.18	6.5231	28.2046	18.8684	1.8077	0.5532	1.2093
3.0	2704.109	3580.2	2070.8	3727.10	6.3973	27.0411	17.9009	1.8001	0.5555	1.1917
3.5	2593.486	3409.3	2097.6	3760.82	6.2746	25.9349	17.0165	1.7929	0.5578	1.1764
4.0	2488.509	3242.1	2118.4	3785.64	6.1560	24.8851	16.2105	1.7862	0.5599	1.1631
4.5	2392.205	3095.2	2136.9	3803.37	6.0422	23.9221	15.4762	1.7799	0.5618	1.1515
5.0	2301.515	2961.3	2150.7	3815.39	5.9336	23.0151	14.8064	1.7740	0.5637	1.1413
5.5	2 17.105	2838.9	2161.6	3822.84	5.8295	22.1710	14.1944	1.7686	0.5654	1.1323
6.0	2138.498	2726.8	2169.9	3826.54	5.7305	21.3850	13.6339	1.7635	0.5671	1.1243

PI= 100.000

TI=298.1500 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6643E 00	0.1247E-00	0.1291E-00	0.3296E-01	0.9211E-01	0.1646E-01	0.	0.4359
0.500	0.6746E 00	0.8102E-01	0.2292E-00	0.8009E-02	0.3951E-01	0.7604E-02	0.	0.3696
1.000	0.5814E 00	0.4682E-01	0.3290E-00	0.1987E-02	0.3779E-01	0.2945E-02	0.	0.3176
1.500	0.5256E 00	0.2613E-01	0.4149E-00	0.5367E-03	0.3168E-01	0.1106E-02	0.	0.2770
2.000	0.4746E-00	0.1458E-01	0.4855E-00	0.1566E-03	0.2679E-01	0.4153E-03	0.	0.2449
2.500	0.4300E-00	0.8184E-02	0.5430E 00	0.4868E-04	0.1866E-01	0.1581E-03	0.	0.2192
3.000	0.3916E-00	0.4594E-02	0.5900E 00	0.1581E-04	0.1371E-01	0.6099E-04	0.	0.1982
3.500	0.3587E-00	0.2610E-02	0.6287E 00	0.5347E-05	0.9930E-02	0.2396E-04	0.	0.1807
4.000	0.3304E-00	0.1494E-02	0.6610E 00	0.1866E-05	0.7124E-02	0.9436E-05	0.	0.1659
4.500	0.3059E-00	0.8629E-03	0.6881E 00	0.6695E-06	0.5081E-02	0.3782E-05	0.	0.1534
5.000	0.2846E-00	0.5024E-03	0.7113E 00	0.2461E-06	0.3612E-02	0.1535E-05	0.	0.1426
5.500	0.2660E-00	0.2949E-03	0.7312E 00	0.9253E-07	0.2564E-02	0.6305E-06	0.	0.1331
6.000	0.2495E-00	0.1745E-03	0.7484E 00	0.3551E-07	0.1820E-02	0.2623E-06	0.	0.1249

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	6.9350	0.	1.4016	12.0107	537.9	39.6599	12657.5	1.1508	1.2072	15.7058
0.5	6.9289	0.	1.4021	10.5829	573.1	27.1190	12275.0	1.1545	1.1998	13.6917
1.0	6.9242	0.	1.4025	9.5120	604.6	22.1402	11775.0	1.1621	1.1913	12.0836
1.5	6.9206	0.	1.4028	8.6791	633.0	19.6200	11177.2	1.1712	1.1899	10.8177
2.0	6.9177	0.	1.4030	8.012R	658.8	16.2681	10576.1	1.1808	1.1931	9.8131
2.5	6.9154	0.	1.4032	7.4676	682.5	14.6312	10005.8	1.1903	1.1985	9.0029
3.0	6.9134	0.	1.4034	7.0133	704.3	13.4434	9476.3	1.1996	1.2052	8.3383
3.5	6.9118	0.	1.4035	6.6289	724.5	12.5516	8989.5	1.2084	1.2123	7.7848
4.0	6.9103	0.	1.4036	6.2994	743.2	11.8678	8544.1	1.2168	1.2195	7.3176
4.5	6.9091	0.	1.4037	6.0139	760.7	11.3317	8136.9	1.2247	1.2265	6.9184
5.0	6.9080	0.	1.4038	5.7660	777.0	10.9043	7764.6	1.2320	1.2333	6.5739
5.5	6.9071	0.	1.4039	5.5435	792.3	10.5580	7424.1	1.2387	1.2396	6.2797
6.0	6.9062	0.	1.4040	5.3476	806.8	10.2733	7111.9	1.2450	1.2457	6.0100

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	2179.136	4645.0	1682.2	3076.92	5.7206	21.7914	15.5793	1.8291	0.5467	1.3077
0.5	2169.527	4582.5	1792.4	3273.42	5.7118	21.6953	15.3697	1.8262	0.5476	1.2938
1.0	2119.349	4410.8	1878.0	3417.81	5.6512	21.1935	14.7937	1.8199	0.5495	1.2704
1.5	2050.700	4205.3	1945.7	3525.90	5.5702	20.5070	14.1047	1.8122	0.5518	1.2464
2.0	1975.584	3998.6	2000.2	3608.27	5.4767	19.7550	13.4112	1.8040	0.5543	1.2247
2.5	1899.481	3802.0	2044.4	3671.52	5.3794	18.9958	12.7519	1.7959	0.5568	1.2056
3.0	1825.479	3619.2	2080.7	3720.18	5.2820	18.2568	12.1388	1.7880	0.5593	1.1889
3.5	1756.602	3450.8	2110.4	3757.26	5.1861	17.5960	11.5739	1.7803	0.5617	1.1744
4.0	1687.529	3296.2	2134.8	3785.29	5.0931	16.8753	11.0556	1.7731	0.5640	1.1616
4.5	1624.486	3154.6	2154.8	3805.94	5.0033	16.2449	10.5806	1.7663	0.5662	1.1504
5.0	1565.455	3024.8	2171.0	3820.65	4.9170	15.6546	10.1457	1.7599	0.5682	1.1405
5.5	1510.320	2905.7	2184.1	3830.54	4.8344	15.1032	9.7458	1.7538	0.5702	1.1317
6.0	1458.829	2796.3	2194.6	3836.54	4.7555	14.5883	9.3788	1.7481	0.5720	1.1239

PI= 100.000

TI=300.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6639E 00	0.1248E-00	0.1292E-00	0.3299E-01	0.3219E-01	0.1690E-01	0.	0.4358
0.500	0.6343E 00	0.8114E-01	0.2293E-00	0.8052E-02	0.3961E-01	0.7631E-02	0.	0.3696
1.000	0.5812E 00	0.4692E-01	0.3290E-00	0.1996E-02	0.3178E-01	0.2960E-02	0.	0.3175
1.500	0.5255E 00	0.2625E-01	0.4149E-00	0.5399E-03	0.2488E-01	0.1111E-02	0.	0.2770
2.000	0.4745E-00	0.1463E-01	0.4854E-00	0.1578E-03	0.1873E-01	0.4184E-03	0.	0.2449
2.500	0.4299E-00	0.8189E-02	0.5429E 00	0.4901E-04	0.1378E-01	0.1594E-03	0.	0.2192
3.000	0.3916E-00	0.4617E-02	0.5899F 00	0.1597E-04	0.9981E-02	0.6158E-04	0.	0.1981
3.500	0.3587E-00	0.2624E-02	0.6287E 00	0.5604E-05	0.7166E-02	0.2409E-04	0.	0.1807
4.000	0.3304E-00	0.1504E-02	0.6610E 00	0.1888E-05	0.5112E-02	0.9547E-05	0.	0.1659
4.500	0.3059E-00	0.8689E-03	0.6881E 00	0.6782E-06	0.3636E-02	0.3831E-05	0.	0.1534
5.000	0.2846E-00	0.5062E-03	0.7112F 00	0.2496E-06	0.2578E-02	0.1556E-05	0.	0.1426
5.500	0.2660E-00	0.2973E-03	0.7311E 00	0.9393E-07	0.1834E-02	0.6400E-06	0.	0.1331
6.000	0.2496F-00	0.1761E-03	0.7484E 00	0.3608E-07	0.1834E-02	0.2665E-06	0.	0.1249

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	6.9371	12.8	1.4015	12.0107	539.5	30.4870	12466.9	1.1509	1.2073	15.7029
0.5	6.9309	12.8	1.4020	10.5829	574.8	27.1440	11722.9	1.1545	1.1999	13.6895
1.0	6.9261	12.8	1.4023	9.5120	606.4	22.1677	11178.3	1.1620	1.1913	12.0820
1.5	6.9227	12.8	1.4026	8.6791	634.9	18.6414	11118.6	1.1712	1.1900	10.8167
2.0	6.9198	12.8	1.4029	8.0128	650.8	16.2464	10548.3	1.1807	1.1931	9.8124
2.5	6.9174	12.8	1.4031	7.4676	684.6	14.6644	10018.4	1.1903	1.1985	9.0024
3.0	6.9156	12.7	1.4032	7.0133	706.5	13.4539	9469.3	1.1995	1.2051	8.3379
3.5	6.9138	12.7	1.4034	6.6289	726.7	12.5606	9007.7	1.2084	1.2123	7.7846
4.0	6.9124	12.7	1.4035	6.2994	745.8	11.8750	8557.5	1.2167	1.2194	7.3174
4.5	6.9111	12.7	1.4036	6.0139	763.0	11.3377	8150.5	1.2246	1.2264	6.9183
5.0	6.9100	12.7	1.4037	5.7640	779.4	10.9093	7778.4	1.2319	1.2332	6.5738
5.5	6.9091	12.7	1.4037	5.5435	794.8	10.5626	7437.8	1.2387	1.2396	6.2736
6.0	6.9082	12.7	1.4038	5.3476	809.2	10.2767	7125.8	1.2449	1.2456	6.0100

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	2165.351	4644.1	1682.3	3076.52	5.7026	21.6535	15.4803	1.4288	0.5468	1.3074
0.5	2155.889	4581.8	1702.4	3272.98	5.6937	21.5589	15.2726	1.4260	0.5476	1.2936
1.0	2106.160	4410.4	1878.0	3417.40	5.6354	21.0616	14.7014	1.4197	0.5496	1.2702
1.5	2037.989	4205.7	1945.8	3525.62	5.5529	20.3796	14.0178	1.4119	0.5519	1.2463
2.0	1963.188	3998.9	2000.3	3608.01	5.4597	19.6339	13.3496	1.4038	0.5544	1.2246
2.5	1888.003	3802.5	2044.6	3671.33	5.3628	18.8800	12.6751	1.3957	0.5569	1.2055
3.0	1814.454	3619.9	2080.9	3720.03	5.2658	18.1445	12.0664	1.3877	0.5594	1.1889
3.5	1744.040	3451.7	2110.7	3757.21	5.1704	17.4004	11.5055	1.3801	0.5618	1.1743
4.0	1677.466	3297.2	2135.1	3785.26	5.0776	16.7747	10.9904	1.3729	0.5641	1.1616
4.5	1614.860	3155.7	2155.	3805.96	4.9882	16.1496	10.5191	1.3660	0.5662	1.1504
5.0	1556.209	3026.0	2171.6	3820.76	4.9023	15.5621	10.0867	1.3596	0.5683	1.1405
5.5	1501.417	2907.0	2184.6	3830.69	4.8200	15.0142	9.6899	1.3535	0.5703	1.1317
6.0	1450.307	2797.6	2195.1	3836.70	4.7413	14.5031	9.3254	1.3479	0.5721	1.1239

PI= 100.000

TI=400.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6461E 00	0.1295E-00	0.1347E-00	0.3655E-01	0.3622E-01	0.1894E-01	0.	0.4318
0.500	0.6189E 00	0.8673E-01	0.2319E-00	0.9175E-02	0.4429E-01	0.9029E-02	0.	0.3665
1.000	0.5701E 00	0.5204E-01	0.3286E-00	0.2475E-02	0.4301E-01	0.3735E-02	0.	0.3154
1.500	0.5178E 00	0.3027E-01	0.4128E-00	0.7175E-03	0.3688E-01	0.1491E-02	0.	0.2755
2.000	0.4694E-00	0.1744E-01	0.4828E-00	0.2233E-03	0.2958E-01	0.5955E-03	0.	0.2439
2.500	0.4265E-00	0.1010F-01	0.5402E 00	0.7361E-04	0.2284E-01	0.2405E-03	0.	0.2185
3.000	0.3893E-00	0.5887E-02	0.5875F 00	0.2542E-04	0.1723E-01	0.9836E-04	0.	0.1977
3.500	0.3571E-00	0.3460E-02	0.6265E 00	0.9118E-05	0.1281E-01	0.4077E-04	0.	0.1803
4.000	0.3293E-00	0.2050E-02	0.6592F 00	0.3375E-05	0.9439E-02	0.1711E-04	0.	0.1657
4.500	0.3052E-00	0.1225E-02	0.6866E 00	0.1284E-05	0.6914E-02	0.7276E-05	0.	0.1532
5.000	0.2841E-00	0.7376E-03	0.7101F 00	0.5008E-06	0.5048E-02	0.3133E-05	0.	0.1424
5.500	0.2657E-00	0.4480F-03	0.7302F 00	0.1997E-06	0.3681E-02	0.1366E-05	0.	0.1331
6.000	0.2494E-00	0.2744F-03	0.7477E 00	0.8110E-07	0.2684E-02	0.6030E-06	0.	0.1248

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	7.0489	712.6	1.3926	12.0107	621.0	31.8377	13008.5	1.1503	1.2166	15.5592
0.5	7.0384	711.8	1.3934	10.5829	661.7	28.5949	12443.5	1.1536	1.2034	13.5757
1.0	7.0305	711.3	1.3940	9.5120	694.2	23.4956	12384.5	1.1605	1.1938	12.0009
1.5	7.0244	710.8	1.3945	8.6791	721.0	19.7261	11824.6	1.1689	1.1909	10.7598
2.0	7.0195	710.5	1.3949	8.0128	760.9	17.1593	11254.9	1.1780	1.1927	9.7723
2.5	7.0154	710.2	1.3952	7.4676	788.3	15.3563	10709.1	1.1870	1.1972	8.9739
3.0	7.0121	709.9	1.3955	7.0133	813.5	14.0389	10198.9	1.1959	1.2030	8.3177
3.5	7.0093	709.7	1.3957	6.6289	836.8	13.0457	9727.1	1.2046	1.2095	7.7700
4.0	7.0068	709.6	1.3959	6.2994	858.5	12.2792	9292.8	1.2128	1.2163	7.3070
4.5	7.0047	709.4	1.3960	6.0139	878.7	11.6770	8894.1	1.2206	1.2231	6.9108
5.0	7.0029	709.3	1.3962	5.7640	897.6	11.1957	8528.2	1.2279	1.2297	6.5683
5.5	7.0013	709.2	1.3963	5.5435	915.3	10.8066	8192.1	1.2348	1.2361	6.2697
6.0	6.9998	709.1	1.3964	5.3476	931.9	10.4871	7883.4	1.2411	1.2420	6.0071

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	1611.596	4605.6	1682.6	3054.65	4.9191	16.1360	11.5140	1.8155	0.5508	1.2954
0.5	1608.182	4551.6	1701.3	3251.13	4.9130	16.0818	11.3791	1.8129	0.5516	1.2828
1.0	1574.677	4397.8	1880.4	3397.89	4.8670	15.7468	10.9946	1.8070	0.5534	1.2617
1.5	1527.697	4209.9	1950.1	3509.08	4.8003	15.2786	10.5247	1.7995	0.5557	1.2397
2.0	1475.415	4017.9	2006.7	3594.83	4.7244	14.7561	10.0448	1.7914	0.5582	1.2196
2.5	1422.118	3833.5	2053.3	3661.53	4.6430	14.2212	9.5838	1.7832	0.5608	1.2017
3.0	1369.800	3660.7	2092.0	3713.52	4.5650	13.6980	9.1517	1.7751	0.5633	1.1860
3.5	1319.423	3500.5	2124.2	3753.96	4.4861	13.1942	8.7511	1.7673	0.5658	1.1721
4.0	1271.507	3352.6	2151.0	3785.06	4.4091	12.7151	8.3814	1.7597	0.5683	1.1599
4.5	1226.267	3216.4	2173.3	3808.88	4.3346	12.2627	8.0410	1.7525	0.5706	1.1491
5.0	1183.720	3091.0	2191.0	3826.29	4.2630	11.8372	7.7275	1.7456	0.5729	1.1395
5.5	1143.845	2975.6	2207.4	3838.74	4.1941	11.4385	7.4389	1.7391	0.5750	1.1310
6.0	1106.593	2869.1	2220.1	3847.23	4.1282	11.0653	7.1729	1.7329	0.5771	1.1233

PI= 100.000

TI=500.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6306E 00	0.1935E-00	0.1193E-00	0.3584E-01	0.9988E-01	0.2081E-01	0.	0.4283
0.500	0.6059E 00	0.9150E-01	0.2941F-00	0.1019E-01	0.4854E-01	0.1035E-01	0.	0.3638
1.000	0.5599E 00	0.5666E-01	0.3283E-00	0.2939E-02	0.4770E-01	0.4512E-02	0.	0.3135
1.500	0.5106E 00	0.3391E-01	0.4110E-00	0.9044E-03	0.4166E-01	0.1898E-02	0.	0.2741
2.000	0.4643E-00	0.2017E-01	0.4803E-00	0.2973E-03	0.3412E-01	0.7980E-03	0.	0.2429
2.500	0.4230E-00	0.1204E-01	0.5376F 00	0.1034E-03	0.2694E-01	0.3391E-03	0.	0.2178
3.000	0.3869E-00	0.7293E-02	0.5849E 00	0.3763E-04	0.2080E-01	0.1461E-03	0.	0.1972
3.500	0.3555E-00	0.4382E-02	0.6243E 00	0.1423E-04	0.1583E-01	0.6379E-04	0.	0.1800
4.000	0.3282E-00	0.2677E-02	0.6572E 00	0.5552E-05	0.1194E-01	0.2823E-04	0.	0.1654
4.500	0.3044F-00	0.1649E-02	0.6850E 00	0.2228E-05	0.8959E-02	0.1266E-04	0.	0.1530
5.000	0.2836E-00	0.1024E-02	0.7087E 00	0.9162E-06	0.6701E-02	0.5749E-05	0.	0.1423
5.500	0.2653E-00	0.6417E-03	0.7291E 00	0.3856E-06	0.5006E-02	0.2645E-05	0.	0.1330
6.000	0.2491E-00	0.4054F-03	0.7468F 00	0.1656E-06	0.3741E-02	0.1233E-05	0.	0.1247

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	7.1393	1422.0	1.3857	12.0107	692.6	32.9915	13583.8	1.1499	1.2137	15.4332
0.5	7.1184	1419.7	1.3873	10.5829	738.2	29.8499	13429.4	1.1530	1.2067	13.4743
1.0	7.1028	1418.0	1.3885	9.5120	779.0	24.6921	12999.6	1.1593	1.1963	11.9264
1.5	7.0906	1416.7	1.3894	8.6791	815.8	20.7403	12470.1	1.1671	1. 21	10.7059
2.0	7.0809	1415.6	1.3901	8.0128	849.3	17.9995	11925.8	1.1757	1.1928	9.7331
2.5	7.0729	1414.7	1.3907	7.4676	879.9	16.0565	11401.3	1.1842	1.1963	8.94
3.0	7.0662	1414.0	1.3912	7.0133	908.1	14.6284	10908.2	1.1927	1.2013	8.2965
3.5	7.0606	14 .3	1.3917	6.6289	934.2	13.5462	10450.2	1.2010	1.2072	7.7544
4.0	7.0558	1412.8	1.3921	6.2994	958.5	12.7058	10026.7	1.2090	1.2135	7.2954
4.5	7.0516	1412.4	1.3924	6.0139	981.1	12.0423	9636.4	1.2168	1.2200	6.9022
5.0	7.0480	1411.9	1.3927	5.7640	1002.2	11.5098	9277.1	1.2240	1.2264	6.5619
5.5	7.0448	1411.6	1.3929	5.5435	1022.1	11.0786	8945.9	1.2308	1.2326	6.2649
6.0	7.0419	1411.3	1.3931	5.3476	1040.7	10.7237	8641.0	1.2371	1.2384	6.0035

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	1284.380	4579.5	1684.3	3035.09	4.9824	12.8498	9.1589	1.8019	0.5550	1.2850
0.5	1281.045	4571.7	1795.6	3231.41	4.9773	12.8105	9.0634	1.7996	0.5557	1.2732
1.0	1256.736	4391.7	1884.0	3379.81	4.9387	12.5674	8.7834	1.7940	0.5574	1.2538
1.5	1221.850	4217.8	1955.3	3493.49	4.8823	12.2185	8.4357	1.7867	0.5597	1.2335
2.0	1182.633	4038.2	2013.9	3582.02	4.8178	11.8263	8.0765	1.7787	0.5622	1.2147
2.5	1142.976	3864.4	2062.4	3651.61	4.7500	11.4238	7.7288	1.7705	0.5648	1.1979
3.0	1102.605	3700.5	2103.1	3706.59	4.6816	11.0260	7.4010	1.7624	0.5674	1.1830
3.5	1064.143	3547.7	2137.5	3749.95	4.6139	10.6414	7.0955	1.7544	0.5700	1.1698
4.0	1027.403	3406.1	2166.5	3783.90	4.5478	10.2760	6.8123	1.7466	0.5725	1.1581
4.5	992.541	3275.2	2191.0	3810.32	4.4838	9.9254	6.5504	1.7390	0.5750	1.1477
5.0	959.689	3154.2	2211.4	3830.53	4.4220	9.5969	6.3085	1.7319	0.5774	1.1384
5.5	928.786	3042.5	2229.3	3845.56	4.3626	9.2879	6.0849	1.7250	0.5797	1.1301
6.0	899.806	2939.1	2244.0	3856.41	4.3056	8.9981	5.8783	1.7185	0.5819	1.1227

PI= 100.000

TI=600.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6167E 00	0.1371E-00	0.1434F-00	0.3695E-01	0.4333E-01	0.2257E-01	0.	0.4251
0.500	0.5929E 00	0.9575E-01	0.2761E-00	0.1112E-01	0.5252E-01	0.1162F-01	0.	0.3613
1.000	0.5503F 00	0.6085E-01	0.3281E-00	0.3396F-02	0.5212E-01	0.5300E-02	0.	0.3116
1.500	0.5036F 00	0.3743E-01	0.4093F-00	0.1101E-02	0.4625E-01	0.2334E-02	0.	0.2728
2.000	0.4593F-00	0.2287E-01	0.4779E-00	0.3804E-03	0.3859E-01	0.1027E-02	0.	0.2420
2.500	0.4196E-00	0.1402E-01	0.5349F 00	0.1387E-03	0.3107E-01	0.4570E-03	0.	0.2171
3.000	0.3843E-00	0.8657E-02	0.5823F 00	0.5296E-04	0.2448E-01	0.2062E-03	0.	0.1966
3.500	0.3536E-00	0.5991F-02	0.6218E 00	0.2100E-04	0.1904E-01	0.9443E-04	0.	0.1796
4.000	0.3269E-00	0.3986E-02	0.6550F 00	0.8600E-05	0.1468E-01	0.4345E-04	0.	0.1652
4.500	0.3034E-00	0.2146E-02	0.6831E 00	0.3623E-05	0.1126F-01	0.2065E-04	0.	0.1528
5.000	0.2829E-00	0.1371E-02	0.7071F 00	0.1565F-05	0.8608E-02	0.9852F-05	0.	0.1421
5.500	0.2648F-00	0.8840E-03	0.7279E 00	0.6918E-06	0.6576E-02	0.4764E-05	0.	0.1328
6.000	0.2487F-00	0.5747E-03	0.7457F 00	0.3123E-06	0.5025E-02	0.2334E-05	0.	0.1246

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	7.2295	2140.4	1.3791	12.0107	756.8	34.0276	14180.0	1.1497	1.2167	15.3181
0.5	7.1980	2135.5	1.3814	10.5829	807.0	30.9728	14032.0	1.1525	1.2098	13.3808
1.0	7.1744	2131.8	1.3831	9.5120	851.7	25.7998	13625.1	1.1583	1.1988	11.8560
1.5	7.1561	2128.9	1.3845	8.6791	892.1	21.7059	13120.0	1.1656	1.1935	10.6596
2.0	7.1414	2126.6	1.3855	8.0128	928.8	18.8201	12597.6	1.1736	1.1932	9.6941
2.5	7.1293	2124.7	1.3864	7.4676	962.4	16.7548	12091.5	1.1817	1.1957	8.9159
3.0	7.1193	2123.2	1.3872	7.0133	993.4	15.2280	11613.6	1.1898	1.2000	8.2744
3.5	7.1108	2121.8	1.3878	6.6289	1022.0	14.0640	11168.6	1.1978	1.2052	7.7376
4.0	7.1036	2120.7	1.3884	6.2994	1048.6	13.1559	10755.7	1.2056	1.2111	7.2826
4.5	7.0973	2119.7	1.3889	6.0139	1073.4	12.4338	10373.9	1.2130	1.2171	6.8924
5.0	7.0918	2118.8	1.3893	5.7640	1096.6	11.8523	10021.3	1.2201	1.2232	6.5545
5.5	7.0869	2118.1	1.3897	5.5435	1118.3	11.3786	9695.5	1.2269	1.2292	6.2592
6.0	7.0826	2117.4	1.3900	5.3476	1138.7	10.9886	9394.5	1.2332	1.2349	5.9991

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	1065.851	4561.1	1687.1	3016.86	3.9861	10.6585	7.6018	1.7882	0.5592	1.2754
0.5	1063.772	4518.9	1798.8	3212.89	3.9815	10.6377	7.5304	1.7861	0.5599	1.2644
1.0	1045.212	4389.6	1888.3	3362.60	3.9481	10.4521	7.3160	1.7807	0.5616	1.2464
1.5	1018.190	4227.7	1961.1	3478.32	3.8992	10.1819	7.0462	1.7737	0.5638	1.2275
2.0	987.383	4059.0	2021.3	3569.20	3.8429	9.8738	6.7650	1.7658	0.5663	1.2098
2.5	955.599	3896.6	2071.7	3641.40	3.7837	9.5560	6.4911	1.7577	0.5689	1.1939
3.0	924.043	3738.9	2114.3	3699.96	3.7237	9.2404	6.2345	1.7495	0.5716	1.1794
3.5	893.458	3593.2	2150.5	3745.00	3.6644	8.9346	5.9886	1.7415	0.5742	1.1672
4.0	864.093	3457.6	2181.5	3781.69	3.6065	8.6409	5.7627	1.7335	0.5769	1.1561
4.5	836.192	3331.8	2208.1	3810.67	3.5502	8.3619	5.5531	1.7258	0.5794	1.1461
5.0	809.792	3215.9	2230.8	3833.35	3.4958	8.0979	5.3588	1.7184	0.5819	1.1371
5.5	784.870	3107.2	2250.9	3850.84	3.4435	7.8487	5.1787	1.7112	0.5844	1.1291
6.0	761.440	3007.1	2267.1	3863.98	3.3932	7.6144	5.0118	1.7044	0.5867	1.1218

PI= 100.000

TI=700.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6037E 00	0.1404E-00	0.1470E-00	0.3795E-01	0.4666E-01	0.2428E-01	0.	0.4221
0.500	0.5815E 00	0.9963E-01	0.2379E-00	0.1198E-01	0.5634E-01	0.1287E-01	0.	0.3589
1.000	0.5411E 00	0.6477E-01	0.3278E-00	0.3849E-02	0.5637E-01	0.6105E-02	0.	0.3098
1.500	0.4967E-00	0.4081E-01	0.4077E-00	0.1308E-02	0.5072E-01	0.2801E-02	0.	0.2715
2.000	0.4542E-00	0.2555E-01	0.4755E-00	0.4724E-03	0.4302E-01	0.1246E-02	0.	0.2410
2.500	0.4157E-00	0.1605F-01	0.5322F 00	0.1799E-03	0.3526E-01	0.5957E-03	0.	0.2163
3.000	0.3816E-00	0.1016E-01	0.5796E 00	0.7173E-04	0.2830E-01	0.2806E-03	0.	0.1961
3.500	0.3516E-00	0.6648E-02	0.6193E 00	0.2972E-04	0.2243E-01	0.1341E-03	0.	0.1792
4.000	0.3254E-00	0.4181E-02	0.6527E 00	0.1273E-04	0.1764E-01	0.6507E-04	0.	0.1648
4.500	0.3024E-00	0.2719E-02	0.6811E 00	0.5607E-05	0.1381E-01	0.3204E-04	0.	0.1526
5.000	0.2821E-00	0.1784F-02	0.7053E 00	0.2535E-05	0.1078E-01	0.1600E-04	0.	0.1420
5.500	0.2642E-00	0.1181F-02	0.7262F 00	0.1172E-05	0.8404E-02	0.8098E-05	0.	0.1327
6.000	0.2483E-00	0.7881E-03	0.7444F 00	0.5541E-06	0.6556E-02	0.4154E-05	0.	0.1245

M	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.3192	2867.9	1.3727	12.0107	815.6	34.9658	14791.8	1.1495	1.2196	15.2102
0.5	7.2788	2859.4	1.3755	10.5829	869.8	32.0018	14646.3	1.1522	1.2128	13.2924
1.0	7.2486	2852.9	1.3777	9.5120	918.1	26.8434	14257.2	1.1575	1.2014	11.7882
1.5	7.2251	2848.0	1.3796	8.6791	961.8	22.6411	13772.7	1.1643	1.1951	10.6023
2.0	7.2063	2844.0	1.3808	8.0128	1001.5	19.6288	13269.1	1.1718	1.1938	9.6550
2.5	7.1909	2840.7	1.3819	7.4476	1037.8	17.4560	12779.6	1.1795	1.1955	8.8859
3.0	7.1780	2838.0	1.3828	7.0133	1071.9	15.8390	12315.9	1.1872	1.1990	8.2512
3.5	7.1672	2835.7	1.3836	6.6289	1102.2	14.5992	11882.7	1.1948	1.2036	7.7196
4.0	7.1579	2833.7	1.3843	6.2994	1130.9	13.6274	11480.1	1.2022	1.2089	7.2696
4.5	7.1498	2832.0	1.3849	6.0139	1157.7	12.8516	11106.9	1.2094	1.2145	6.8815
5.0	7.1427	2830.5	1.3854	5.7640	1182.8	12.2226	10761.3	1.2163	1.2202	6.5459
5.5	7.1365	2829.2	1.3859	5.5435	1206.3	11.7070	10441.2	1.2229	1.2258	6.2525
6.0	7.1310	2828.0	1.3863	5.3476	1228.4	11.2817	10144.7	1.2291	1.2314	5.9939

M	P	T	A	UO	MO	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	910.348	4548.1	1690.8	2999.63	3.6779	9.1035	6.4973	1.7744	0.5636	1.2664
0.5	909.027	4509.2	1802.7	3195.21	3.6736	9.0903	6.4418	1.7724	0.5642	1.2560
1.0	894.383	4390.2	1893.2	3365.96	3.6443	8.9438	6.2717	1.7673	0.5658	1.2393
1.5	872.652	4238.8	1967.3	3463.37	3.6010	8.7265	6.0556	1.7604	0.5680	1.2216
2.0	847.775	4079.8	2029.1	3556.32	3.5511	8.4778	5.8283	1.7527	0.5705	1.2050
2.5	821.916	3924.0	2081.1	3630.78	3.4984	8.2192	5.6058	1.7447	0.5732	1.1899
3.0	796.166	3778.8	2125.4	3690.73	3.4452	7.9617	5.3941	1.7365	0.5759	1.1765
3.5	771.109	3636.8	2163.3	3739.17	3.3925	7.7111	5.1956	1.7284	0.5786	1.1645
4.0	746.309	3507.0	2196.1	3778.29	3.3409	7.4701	5.0100	1.7204	0.5813	1.1538
4.5	724.037	3396.3	2224.5	3809.76	3.2907	7.2404	4.8375	1.7126	0.5839	1.1443
5.0	702.238	3274.1	2249.1	3834.86	3.2423	7.0224	4.6772	1.7051	0.5865	1.1357
5.5	681.634	3169.8	2270.4	3854.62	3.1955	6.8163	4.5283	1.6978	0.5890	1.1279
6.0	662.184	3073.0	2289.0	3870.05	3.1506	6.6218	4.3899	1.6907	0.5915	1.1209

PI= 1000.000

TI=200.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.7771E 00	0.9183F-01	0.9018E-01	0.2145E-01	0.1232E-01	0.6732E-02	0.	0.4597
0.500	0.7204F 00	0.6573E-01	0.2141E-00	0.2332E-02	0.1614E-01	0.1835E-02	0.	0.3861
1.000	0.6327F 00	0.2064F-01	0.3317F-00	0.3454E-03	0.1413E-01	0.4771E-03	0.	0.3273
1.500	0.5454F 00	0.9772E-02	0.4239F-00	0.6772E-04	0.1073E-01	0.1357E-03	0.	0.2827
2.000	0.4920E-00	0.4798E-02	0.4955E-00	0.1580E-04	0.7697E-02	0.4135E-04	0.	0.2484
2.500	0.4403F-00	0.2423F-02	0.5519F 00	0.4101F-05	0.5372E-02	0.1327F-04	0.	0.2214
3.000	0.3977E-00	0.1254E-02	0.5973E 00	0.1152F-05	0.3699E-02	0.4431E-05	0.	0.1995
3.500	0.3624F-00	0.6623E-03	0.6344F 00	0.3436E-06	0.2531E-02	0.1529E-05	0.	0.1815
4.000	0.3326E-00	0.3560E-03	0.6653F 00	0.1075E-06	0.1727E-02	0.5429E-06	0.	0.1665
4.500	0.3073E-00	0.1943E-03	0.6913E 00	0.3503E-07	0.1177E-02	0.1975E-06	0.	0.1537
5.000	0.2855E-00	0.1075E-03	0.7136E 00	0.1180F-07	0.8049E-03	0.7337E-07	0.	0.1428
5.500	0.2665E-00	0.6002E-04	0.7329E 00	0.4092F-08	0.5508E-03	0.2740E-07	0.	0.1333
6.000	0.2499E-00	0.3413E-04	0.7497E 00	0.1456F-08	0.3778E-03	0.1072E-07	0.	0.1250

M	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.6660	-669.9	1.4247	12.0107	444.1	22.4280	13217.3	1.1560	1.1896	16.5629
0.5	6.6449	-668.8	1.4266	10.5829	473.5	19.0750	12779.7	1.1626	1.1836	14.2996
1.0	6.6290	-667.9	1.4281	9.5120	499.7	16.0133	11902.3	1.1736	1.1846	12.4517
1.5	6.6167	-667.3	1.4292	8.6791	523.3	14.2443	11030.0	1.1846	1.1909	11.0422
2.0	6.6069	-666.8	1.4302	8.0128	544.8	13.1001	10241.6	1.1948	1.1986	9.9529
2.5	6.5988	-666.3	1.4309	7.4676	564.5	12.2973	9543.5	1.2042	1.2065	9.0914
3.0	6.5921	-666.0	1.4315	7.0133	582.6	11.7021	8927.0	1.2127	1.2142	8.3951
3.5	6.5864	-665.7	1.4321	6.6289	599.4	11.2423	8381.1	1.2206	1.2216	7.8217
4.0	6.5815	-665.4	1.4325	6.2994	614.9	10.8754	7895.9	1.2278	1.2284	7.3417
4.5	6.5773	-665.2	1.4329	6.0139	629.5	10.5741	7461.9	1.2344	1.2348	6.9343
5.0	6.5736	-665.0	1.4333	5.7640	643.0	10.3216	7071.7	1.2406	1.2409	6.5844
5.5	6.5704	-664.8	1.4336	5.5435	655.8	10.1050	6719.3	1.2463	1.2465	6.2807
6.0	6.5675	-664.7	1.4339	5.3476	667.7	9.9169	6399.5	1.2517	1.2518	6.0148

M	P	T	A	UO	MO	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	34432.943	5161.4	1730.6	3184.30	7.1696	34.4329	25.8068	1.8400	0.5435	1.3790
0.5	33984.050	5005.2	1839.4	3375.07	7.1284	33.9840	25.0260	1.8349	0.5450	1.3512
1.0	32736.329	4693.5	1917.8	3502.09	7.0089	32.7363	23.4677	1.8261	0.5476	1.3091
1.5	31307.141	4383.8	1977.4	3593.43	6.8669	31.3071	21.9190	1.8172	0.5503	1.2723
2.0	29881.701	4103.7	2029.9	3661.07	6.7201	29.8817	20.5185	1.8089	0.5528	1.2421
2.5	28522.450	3855.4	2080.5	3711.71	6.5754	28.5224	19.2769	1.8013	0.5551	1.2176
3.0	27251.167	3635.9	2089.7	3749.69	6.4361	27.2512	18.1793	1.7944	0.5573	1.1970
3.5	26071.302	3441.3	2113.1	3777.86	6.3030	26.0713	17.2063	1.7878	0.5593	1.1799
4.0	24982.632	3268.0	2131.7	3798.42	6.1768	24.9826	16.3400	1.7819	0.5612	1.1655
4.5	23977.817	3112.9	2146.5	3812.89	6.0574	23.9778	15.5645	1.7763	0.5630	1.1531
5.0	23049.334	2973.3	2158.2	3822.85	5.9443	23.0493	14.8666	1.7711	0.5646	1.1423
5.5	22191.894	2847.1	2167.4	3828.02	5.8374	22.1918	14.2356	1.7662	0.5662	1.1330
6.0	21397.428	2732.4	2174.3	3830.35	5.7362	21.3974	13.6621	1.7616	0.5677	1.1248

PI= 1000.000

TI=298.1500 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.7552E 00	0.9952E-01	0.9R10E-01	0.23R4E-01	0.1509E-01	0.R217E-02	0.	0.4553
0.500	0.7058E 00	0.5258E-01	0.2170E-00	0.3124E-02	0.1951E-01	0.2545E-02	0.	0.3833
1.000	0.6246E 00	0.2531E-01	0.3315E-00	0.51R1E-03	0.1750E-01	0.7246E-03	0.	0.3258
1.500	0.5509E 00	0.1247E-01	0.4227E-00	0.1096E-03	0.1363E-01	0.2202E-03	0.	0.2819
2.000	0.4894E-00	0.6329E-02	0.4941E-00	0.2706E-04	0.1002E-01	0.7109E-04	0.	0.2479
2.500	0.4388E-00	0.3289E-02	0.5507E 00	0.7416E-05	0.7161E-02	0.2406E-04	0.	0.2211
3.000	0.3969E-00	0.1730E-02	0.5963E 00	0.2104E-05	0.5047E-02	0.R461E-05	0.	0.1993
3.500	0.3619E-00	0.9567E-03	0.6336E 00	0.6R86E-06	0.3534E-02	0.3074E-05	0.	0.1814
4.000	0.3321E-00	0.5296E-03	0.6647E 00	0.226RE-06	0.246RE-02	0.114RE-05	0.	0.1664
4.500	0.3071E-00	0.2978E-03	0.6909E 00	0.7776E-07	0.1723E-02	0.439RE-06	0.	0.1537
5.000	0.2853E-00	0.1689E-03	0.7133E 00	0.2760E-07	0.1205E-02	0.1723E-06	0.	0.1428
5.500	0.2664E-00	0.9R14E-04	0.7326E 00	0.1010E-07	0.R447E-03	0.6RRRE-07	0.	0.1333
6.000	0.2499E-00	0.573RE-04	0.7495E 00	0.3795E-08	0.5939E-03	0.2R06E-07	0.	0.1250

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM0	M
0.	6.9350	0.	1.4016	12.0107	537.0	23.4227	13762.R	1.1559	1.1936	16.4061
0.5	6.92R9	0.	1.4021	10.5R29	573.1	20.1266	13377.5	1.1617	1.1R69	14.1980
1.0	6.9242	0.	1.4025	9.5120	604.6	16.7762	12557.5	1.1720	1.1858	12.3954
1.5	6.9206	0.	1.402R	R.6791	633.0	14.7HR7	1171R.0	1.1826	1.1907	11.0095
2.0	6.9177	0.	1.4030	R.012R	65RR.R	13.5076	1094R.1	1.1926	1.1976	9.9331
2.5	6.9154	0.	1.4032	7.4676	6R2.5	12.6046	10260.6	1.2019	1.2051	9.0791
3.0	6.9134	0.	1.4034	7.0133	704.3	11.9436	9650.1	1.2104	1.2125	R.3879
3.5	6.911R	0.	1.4035	6.62R9	726.7	11.4361	9107.5	1.2183	1.2197	7.R166
4.0	6.9103	0.	1.4036	6.2994	743.2	11.0352	R623.R	1.2255	1.2265	7.3383
4.5	6.9091	0.	1.4037	6.0139	760.7	10.7091	R190.R	1.2321	1.2328	6.9521
5.0	6.90R0	0.	1.403R	5.7640	777.0	10.43R1	7R01.0	1.2382	1.2387	6.5R29
5.5	6.9071	0.	1.4039	5.5435	792.3	10.2083	744R.5	1.2440	1.2443	6.2797
6.0	6.9062	0.	1.4040	5.3476	R06.R	10.0117	712R.3	1.2494	1.2496	6.0140

M	P	T	A	UO	MO	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	229R2.653	5121.R	1732.2	3165.41	5.RR54	22.9R25	17.17R6	1.R275	0.5472	1.3660
0.5	22736.091	49RR.9	1R42.3	3358.37	5.R600	22.7361	16.732R	1.R229	0.54R6	1.3416
1.0	21971.02R	4706.9	1923.2	3489.28	5.7717	21.9710	15.7R02	1.R144	0.5512	1.3031
1.5	21067.660	4413.3	19R5.4	35R6.49	5.662R	21.0677	14.R022	1.R055	0.5539	1.26R5
2.0	20153.239	4145.3	2014.3	3695.34	5.54R1	20.1532	13.9065	1.7969	0.5565	1.2397
2.5	19273.437	3905.5	2073.3	3708.92	5.4342	19.2734	13.0991	1.7HR9	0.5590	1.215R
3.0	18445.54R	3692.1	2104.R	3749.48	5.3236	18.4455	12.3R33	1.7R14	0.5614	1.1959
3.5	17675.061	3502.0	2130.3	37R0.02	5.2178	17.6741	11.7659	1.7744	0.5636	1.1792
4.0	16961.322	3332.3	2151.1	3R02.79	5.1167	16.9613	11.1764	1.7679	0.5657	1.1649
4.5	16301.632	3179.9	2167.R	3R19.34	5.0209	16.3016	10.6655	1.761R	0.5676	1.1527
5.0	15691.723	3042.6	21R1.4	3R30.R2	4.9301	15.6917	10.2049	1.7561	0.5694	1.1421
5.5	15127.030	2918.2	2192.4	3R38.24	4.R441	15.1270	9.7R7R	1.7507	0.5712	1.132R
6.0	14603.06R	2805.1	2201.7	3R42.3R	4.762R	14.6031	9.40R3	1.7456	0.5729	1.1246

PI= 1000.000

TI=300.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.7549E 00	0.9964E-01	0.9R24F-01	0.23R7E-01	0.1514E-01	0.R243E-02	0.	0.4552
0.500	0.7050E 00	0.5271E-01	0.2170F-00	0.3133E-02	0.1957E-01	0.2553E-02	0.	0.3833
1.000	0.6243F 00	0.2540F-01	0.3315F-00	0.5214E-03	0.1756E-01	0.7295E-03	0.	0.3258
1.500	0.550RE 00	0.1252E-01	0.4227E-00	0.1104E-03	0.1369E-01	0.2220E-03	0.	0.2819
2.000	0.4R94E-00	0.635RE-02	0.4941E-00	0.2730E-04	0.1006E-01	0.7173E-04	0.	0.2479
2.500	0.43R7E-00	0.3316E-02	0.5507E 00	0.7490E-05	0.7195E-02	0.2430E-04	0.	0.2210
3.000	0.396RE-00	0.1769E-02	0.5963E 00	0.221RE-05	0.5073E-02	0.R553E-05	0.	0.1993
3.500	0.361RE-00	0.9627E-03	0.6336E 00	0.6967E-06	0.3553E-02	0.3110E-05	0.	0.1814
4.000	0.3323E-00	0.5332E-03	0.6647E 00	0.2297E-06	0.2483E-02	0.1163E-05	0.	0.1664
4.500	0.3071E-00	0.3000E-03	0.6909E 00	0.7883E-07	0.1734E-02	0.4459E-06	0.	0.1537
5.000	0.2853F-00	0.1712E-03	0.7133F 00	0.2801F-07	0.1213F-02	0.174RE-06	0.	0.1428
5.500	0.2664E-00	0.9R97E-04	0.7326F 00	0.1026E-07	0.R509E-03	0.6996E-07	0.	0.1333
6.000	0.2499E-00	0.5790E-04	0.7495E 00	0.3859E-08	0.59R5E-03	0.2R53E-07	0.	0.1250

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM0	M
0.	6.9371	12.R	1.4015	12.0107	539.5	23.43RR	13773.5	1.1560	1.1937	16.4035
0.5	6.9309	12.R	1.4020	10.5R29	574.R	20.1442	13349.3	1.1617	1.1R69	14.1962
1.0	6.9269	12.R	1.4023	9.5120	606.4	16.7R96	12570.4	1.1720	1.1R5R	12.3944
1.5	6.9227	12.R	1.4026	R.6791	634.9	14.7977	11731.1	1.1R26	1.1907	11.0089
2.0	6.9198	12.R	1.4029	R.012R	660.R	13.5105	10961.7	1.1926	1.1976	9.9328
2.5	6.9174	12.R	1.4031	7.4676	6R4.6	12.6105	10274.4	1.2018	1.2051	9.07R9
3.0	6.9154	12.7	1.4032	7.0133	706.5	11.94R0	9663.R	1.2104	1.2125	R.3R71
3.5	6.913R	12.7	1.4034	6.62R9	726.7	11.4401	9121.5	1.2182	1.2196	7.R165
4.0	6.9124	12.7	1.4035	6.2994	745.5	11.0375	R63R.0	1.2254	1.2263	7.33R2
4.5	6.9111	12.7	1.4036	6.0139	763.0	10.7117	R204.6	1.2321	1.2328	6.9320
5.0	6.9100	12.7	1.4037	5.7640	779.4	10.4410	7R15.0	1.2382	1.2386	6.5R29
5.5	6.9091	12.7	1.4037	5.5435	794.R	10.2109	7462.5	1.2439	1.2442	6.2797
6.0	6.90R2	12.7	1.403R	5.3476	R09.2	10.0131	7142.4	1.2493	1.2495	6.0140

M	P	T	A	UO	MO	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	22R3R.HO6	5121.3	1732.3	3165.16	5.HR69	22.HRHH	17.070H	1.HR72	0.5473	1.3657
0.5	22595.116	49RR.7	1R42.4	3358.10	5.HR1R	22.5951	16.6290	1.HR27	0.5486	1.3414
1.0	21R36.139	4705.1	1923.3	3489.28	5.7939	21.HR61	15.6HRH	1.HR42	0.5512	1.3030
1.5	20939.054	4413.9	19R5.5	35R6.30	5.6653	20.9391	14.7129	1.HR52	0.5539	1.2684
2.0	20030.RR3	4146.1	2034.5	3655.26	5.5312	20.0309	13.HR05	1.7967	0.5566	1.2396
2.5	19157.307	3906.5	2073.6	3708.R7	5.4177	19.1573	13.0216	1.7RR6	0.5591	1.215R
3.0	1R336.696	3693.2	2105.2	3749.45	5.3074	1H.3347	12.3105	1.7R11	0.5615	1.1959
3.5	17569.R03	3503.2	2130.7	37R0.0R	5.201R	17.569H	11.6774	1.7741	0.5637	1.1791
4.0	16R61.071	3333.5	2151.4	3R02.R7	5.1013	16.HR11	11.1117	1.7676	0.5657	1.1649
4.5	16205.095	3181.2	216R.3	3R19.44	5.005R	16.2051	10.6039	1.7615	0.5677	1.1527
5.0	15599.309	3043.9	21R1.9	3R31.01	4.9156	15.5993	10.1463	1.7559	0.5695	1.1421
5.5	15038.144	2919.6	2192.9	3R3R.45	4.R297	15.0381	9.7319	1.7504	0.5713	1.132R
6.0	1451R.057	2R06.5	2201.6	3H42.61	4.74H6	14.5181	9.3549	1.7453	0.5730	1.1246

PI= 1000.000

TI=400.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.7168E 00	0.1059E-00	0.1066E-00	0.2566E-01	0.1765E-01	0.9594E-02	0.	0.4516
0.500	0.6916E 00	0.5896E-01	0.2196E-00	0.3887E-02	0.2261E-01	0.326RE-02	0.	0.3808
1.000	0.6166E 00	0.2972E-01	0.3313F-00	0.7105E-03	0.2069E-01	0.1006E-02	0.	0.3244
1.500	0.5463E 00	0.1518F-01	0.4216F-00	0.1608E-03	0.1651E-01	0.3252E-03	0.	0.2810
2.000	0.4867E-00	0.7957E-02	0.4928E-00	0.4203E-04	0.1262E-01	0.1109E-03	0.	0.2474
2.500	0.4371E-00	0.4275E-02	0.5495E 00	0.1215E-04	0.9084E-02	0.3952E-04	0.	0.2207
3.000	0.3958E-00	0.2348E-02	0.5952E 00	0.3782F-05	0.6550E-02	0.1462E-04	0.	0.1991
3.500	0.3612F-00	0.1315E-02	0.6328E 00	0.1249E-05	0.4691F-02	0.55RAE-05	0.	0.1813
4.000	0.3319E-00	0.7493E-03	0.6640E 00	0.4325E-06	0.3352E-02	0.2197E-05	0.	0.1663
4.500	0.3068E-00	0.4340E-03	0.6903E 00	0.1561E-06	0.2395E-02	0.RA57E-06	0.	0.1536
5.000	0.2852F-00	0.2550F-03	0.7129E 00	0.5835F-07	0.1715F-02	0.3655E-06	0.	0.1427
5.500	0.2663F-00	0.1519E-03	0.7323E 00	0.2250E-07	0.1231E-02	0.1541E-06	0.	0.1332
6.000	0.249RE-00	0.9162E-04	0.7492E 00	0.8926E-08	0.8866F-03	0.667RE-07	0.	0.1249

M	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.04A9	712.6	1.3926	12.0107	621.0	24.2603	14390.0	1.1559	1.1970	16.2715
0.5	7.0394	711.M	1.3934	10.5829	661.7	21.0477	14041.4	1.1612	1.1900	14.1057
1.0	7.0305	711.3	1.3940	9.5120	698.2	17.4961	13268.1	1.170M	1.1872	12.3612
1.5	7.0244	710.M	1.3945	A.6191	731.0	15.3206	12457.0	1.1809	1.190M	10.9766
2.0	7.0195	710.5	1.3949	A.0124	760.9	13.9097	11704.1	1.1906	1.1969	9.9124
2.5	7.0154	710.2	1.3952	7.4574	788.3	12.9251	11027.0	1.1997	1.2038	9.0657
3.0	7.0121	709.9	1.3955	7.0134	813.5	12.2007	10422.9	1.2081	1.2109	8.3786
3.5	7.0093	709.7	1.3957	6.6289	836.R	11.6473	9884.2	1.2159	1.217M	7.RA06
4.0	7.0068	709.6	1.3959	6.2994	858.5	11.2121	9402.5	1.2232	1.2244	7.3342
4.5	7.0047	709.4	1.3960	6.0139	R78.7	10.8609	8970.5	1.2298	1.2306	6.9293
5.0	7.0029	709.3	1.3962	5.7640	897.6	10.5707	8581.3	1.2359	1.2365	6.5809
5.5	7.0013	709.2	1.3963	5.5435	915.3	10.3274	8229.1	1.2416	1.2420	6.2783
6.0	6.9998	709.1	1.3964	5.3476	931.9	10.1190	7909.1	1.2468	1.2471	6.0191

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	17074.096	5099.3	1735.5	3148.98	5.0710	17.0741	12.74M6	1.M144	0.5511	1.354M
0.5	16920.742	4983.3	1846.9	3343.37	5.0524	16.9207	12.4583	1.8103	0.5524	1.3329
1.0	16397.096	4722.2	1930.0	3477.90	4.9816	16.3971	11.8055	1.8020	0.5569	1.2974
1.5	15761.882	4446.9	1994.6	3576.17	4.8921	15.7619	11.1172	1.7931	0.5577	1.2647
2.0	15109.980	4190.3	2045.7	3650.18	4.7972	15.1100	10.475R	1.7843	0.5604	1.2371
2.5	14478.383	3958.8	2087.1	3706.60	4.7022	14.4783	9.R970	1.7760	0.5631	1.2140
3.0	13880.987	3751.6	2120.8	3749.82	4.6096	13.8810	9.3790	1.76M1	0.5656	1.1946
3.5	13322.682	3566.3	2148.5	3782.86	4.5206	13.3227	8.9157	1.7607	0.5680	1.1783
4.0	12803.891	3400.2	2171.4	3807.93	4.4357	12.R039	R.5004	1.7537	0.5702	1.1643
4.5	12323.424	3250.R	2190.2	3826.62	4.3550	12.3234	R.1269	1.7472	0.5724	1.1522
5.0	11878.428	3115.9	2205.7	3840.24	4.2786	11.R784	7.7R97	1.7410	0.5744	1.141?
5.5	11466.072	2993.5	2218.A	3849.68	4.2060	11.4661	7.4R38	1.7352	0.5763	1.1325
6.0	11083.809	2882.2	2229.1	3855.69	4.1373	11.0838	7.2054	1.7297	0.5781	1.1244

PI= 1000.000

TI=500.0000 N= 0.

M	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.7209E 00	0.1113E-00	0.1101E-00	0.2881E-01	0.2001E-01	0.1086E-01	0.	0.4483
0.500	0.6795E 00	0.6650E-01	0.2220E-00	0.4601E-02	0.2565E-01	0.3981E-02	0.	0.3786
1.000	0.6091E 00	0.3380E-01	0.3312E-00	0.9131E-03	0.2368E-01	0.1309E-02	0.	0.3230
1.500	0.5417E 00	0.1783E-01	0.4205E-00	0.2194E-03	0.1929E-01	0.446RE-03	0.	0.2802
2.000	0.4839E-00	0.9618E-02	0.4915E-00	0.6041E-04	0.14R2E-01	0.1600E-03	0.	0.2469
2.500	0.4354F-00	0.5312F-02	0.5482E 00	0.1832E-04	0.1107E-01	0.5980E-04	0.	0.2204
3.000	0.3947F-00	0.2997F-02	0.5941E 00	0.5979E-05	0.R147E-02	0.2319E-04	0.	0.1989
3.500	0.3605F-00	0.1726F-02	0.6318E 00	0.206AE-05	0.595RE-02	0.92R1E-05	0.	0.1811
4.000	0.3314F-00	0.1010E-02	0.6612E 00	0.7505E-06	0.434RE-02	0.3823E-05	0.	0.1662
4.500	0.3065F-00	0.6007E-03	0.6837E 00	0.283AE-06	0.3173E-02	0.1616E-05	0.	0.1536
5.000	0.2850E-00	0.3628E-03	0.7123F 00	0.1112E-06	0.2321E-02	0.6993E-06	0.	0.1427
5.500	0.2662E-00	0.2221E-03	0.7319E 00	0.4501E-07	0.1702E-02	0.3094E-06	0.	0.1332
6.000	0.2497E-00	0.1378E-03	0.7489E 00	0.1874E-07	0.1253E-02	0.1397E-06	0.	0.1249

M	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.1393	1422.0	1.3857	12.0107	692.6	24.9709	15034.4	1.1561	1.2002	16.1546
0.5	7.1184	1419.7	1.3873	10.5829	738.2	21.8687	14711.4	1.160M	1.1929	14.0225
1.0	7.1028	1418.0	1.3885	9.5120	779.0	18.153R	13975.2	1.169M	1.18M7	12.2899
1.5	7.0906	1416.7	1.3894	8.6791	815.8	15.8285	13187.5	1.1795	1.1911	10.9443
2.0	7.0809	1415.6	1.3901	8.0128	849.3	14.3078	12450.3	1.18MM	1.1964	9.MM14
2.5	7.0729	1414.7	1.3907	7.4678	879.9	13.2653	11782.3	1.197R	1.202M	9.0517
3.0	7.0662	1414.0	1.3912	7.0133	908.1	12.4635	11184.4	1.2060	1.2095	R.36R9
3.5	7.0606	1413.3	1.3917	6.6289	934.2	11.R670	10649.5	1.2137	1.2161	7.MM40
4.0	7.0558	1412.R	1.3921	6.2996	958.5	11.39M4	10170.1	1.220M	1.2225	7.3296
4.5	7.0516	1412.4	1.3924	6.0139	981.1	11.021M	9739.3	1.2274	1.2286	6.9260
5.0	7.0480	1411.9	1.3927	5.7640	1002.2	10.711R	9350.M	1.2335	1.2343	6.5786
5.5	7.0448	1411.6	1.3929	5.5435	1022.1	10.4534	8998.M	1.2391	1.2397	6.2766
6.0	7.0419	1411.3	1.3931	5.3476	1040.7	10.233R	8678.6	1.2444	1.244M	6.0118

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	13627.729	5087.3	1739.9	3134.38	4.5258	13.6277	10.1746	1.M015	0.5551	1.3450
0.5	13524.238	4986.0	1852.2	3329.76	4.5105	13.5242	9.96R0	1.797M	0.5562	1.3250
1.0	13136.654	4761.7	1937.2	3467.12	4.4507	13.1367	9.4M33	1.7M9M	0.55R7	1.2920
1.5	12655.168	4480.5	2003.7	3568.29	4.3740	12.6552	R.9610	1.7M09	0.5615	1.2610
2.0	12156.146	4234.3	2057.0	3645.32	4.2920	12.1561	R.4696	1.7720	0.5643	1.2345
2.5	11668.462	4010.5	2100.6	3704.04	4.2096	11.66R5	R.0210	1.7633	0.5671	1.2121
3.0	11205.724	3809.2	2136.A	3749.78	4.1291	11.2057	7.61M4	1.7552	0.5697	1.1933
3.5	10771.693	3628.R	2166.1	3785.18	4.0517	10.7717	7.2470	1.7474	0.5723	1.1773
4.0	10367.286	3466.1	2190.9	3812.62	3.9776	10.3673	6.9322	1.7401	0.5747	1.1635
4.5	9991.635	3319.6	2211.7	3833.26	3.9072	9.9916	6.6393	1.7332	0.5770	1.1517
5.0	9643.505	3187.2	2229.1	3848.84	3.8403	9.6635	6.3744	1.7267	0.5792	1.1413
5.5	9320.512	3066.9	2243.7	3860.15	3.7768	9.3705	6.1339	1.7205	0.5812	1.1322
6.0	9020.269	2957.3	2256.0	3868.00	3.7167	9.0203	5.9146	1.7145	0.5832	1.1242

PI= 1000.000

TI=600.0000 N= 0.

M	MU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.7065E 00	0.1161E-00	0.1150E-00	0.2900E-01	0.222ME-01	0.1209E-01	0.	0.4454
0.500	0.668IE	0.6957E-01	0.2242E-00	0.5292E-02	0.2816E-01	0.4704E-02	0.	0.3765
1.000	0.601ME 00	0.3772E-01	0.3312E-00	0.1130E-02	0.2660E-01	0.1640E-02	0.	0.3217
1.500	0.5371E 00	0.2049E-01	0.4194E-00	0.2869E-03	0.2207E-01	0.5881E-03	0.	0.2794
2.000	0.4809E-00	0.1195E-01	0.4901F-00	0.8287E-04	0.172ME-01	0.2205E-03	0.	0.2463
2.500	0.4335E-00	0.6435E-02	0.5468F 00	0.2630E-04	0.1316E-01	0.8612E-04	0.	0.2200
3.000	0.3935E-00	0.3724E-02	0.5929F 00	0.8967E-05	0.9876E-32	0.3488E-04	0.	0.1986
3.500	0.3597E-00	0.2197E-02	0.6307E 00	0.3240E-05	0.7366E-02	0.1458E-04	0.	0.1809
4.000	0.3309E-00	0.1319E-02	0.6623F 00	0.1228E-05	0.5481E-02	0.6273E-05	0.	0.1661
4.500	0.3061E-00	0.8048E-03	0.6890F 00	0.4852E-06	0.4080F-02	0.2770E-05	0.	0.1535
5.000	0.2847E-00	0.4985E-03	0.7117E 00	0.1947E-06	0.3044E-02	0.1253E-05	0.	0.1426
5.500	0.2660E-00	0.3132E-03	0.7314E 00	0.8404E-07	0.2278E-02	0.579ME-06	0.	0.1332
6.000	0.2496E-00	0.1993E-03	0.7485E 00	0.3660E-07	0.1711E-02	0.2739E-06	0.	0.1249

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	7.2295	2140.4	1.3791	12.0107	756.8	25.6055	15697.6	1.1562	1.2031	16.0472
0.5	7.1980	2135.5	1.3814	10.5829	807.0	22.5777	15392.8	1.1606	1.1957	13.9439
1.0	7.1744	2131.8	1.3831	9.5120	851.7	20.3851	14686.8	1.1690	1.1904	12.2397
1.5	7.1561	2128.9	1.3845	8.6791	892.1	18.3277	13920.6	1.1782	1.1917	10.9117
2.0	7.1414	2126.6	1.3855	8.0128	928.8	16.7088	13196.5	1.1873	1.1961	9.8696
2.5	7.1293	2124.7	1.3864	7.4676	962.4	13.5730	12537.7	1.1959	1.2019	9.0367
3.0	7.1193	2123.2	1.3872	7.0133	993.4	12.7369	11945.5	1.2040	1.2081	8.3584
3.5	7.1108	2121.8	1.3878	6.6289	1022.0	12.0984	11414.4	1.2115	1.2144	7.7966
4.0	7.1036	2120.7	1.3884	6.2994	1048.6	11.5978	10937.2	1.2186	1.2207	7.3243
4.5	7.0973	2119.7	1.3889	6.0139	1073.4	11.1952	10507.8	1.2251	1.2266	6.9221
5.0	7.0918	2118.8	1.3893	5.7640	1096.6	10.8652	10119.8	1.2311	1.2322	6.5758
5.5	7.0869	2118.1	1.3897	5.5435	1118.3	10.5908	9768.0	1.2367	1.2375	6.2745
6.0	7.0826	2117.4	1.3900	5.3476	1138.7	10.3580	9447.9	1.2418	1.2424	6.0103

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	11337.786	5081.6	1744.8	3120.73	4.1234	11.337M	M.4693	1.7886	0.5591	1.3361
0.5	11264.430	4988.4	1858.0	3316.86	4.1103	11.2644	M.3141	1.7652	0.5602	1.3176
1.0	10963.926	4762.4	1944.7	3456.56	4.0584	10.9639	7.9373	1.7774	0.5626	1.2868
1.5	10583.263	4514.1	2013.1	3560.31	4.0911	10.5833	7.5234	1.7686	0.5654	1.2572
2.0	10184.538	4297.6	2068.5	3639.60	4.0187	10.1845	7.1291	1.7596	0.5683	1.2317
2.5	9793.004	4061.2	2113.9	3701.10	4.0457	9.7930	6.7687	1.7508	0.5712	1.2101
3.0	9419.475	3865.7	2151.7	3749.17	4.0742	9.4195	6.4428	1.7424	0.5739	1.1918
3.5	9068.126	3689.6	2183.3	3786.78	4.0753	9.0681	6.1493	1.7344	0.5766	1.1761
4.0	8739.650	3530.9	2210.0	3816.20	4.0394	8.7397	5.8848	1.7268	0.5791	1.1627
4.5	8434.174	3387.5	2232.6	3839.05	4.0768	8.4342	5.6458	1.7195	0.5816	1.1510
5.0	8150.923	3257.5	2251.8	3856.53	4.0169	8.1503	5.4292	1.7126	0.5839	1.1408
5.5	7886.602	3139.3	2268.2	3869.73	4.0604	7.8866	5.2322	1.7061	0.5861	1.1319
6.0	7641.760	3031.5	2282.1	3879.93	4.0067	7.6418	5.0525	1.6999	0.5883	1.1239

PI= 1000.000

TI=700.0000 N= 0.

M	MU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6931E 00	0.1206E-00	0.1195E-00	0.2907E-01	0.2451E-01	0.1329E-01	0.	0.4425
0.500	0.6471E 00	0.7430E-01	0.2263E-00	0.5968E-02	0.1081E-01	0.5444E-02	0.	0.3744
1.000	0.5945E 00	0.4155E-01	0.3311E-00	0.1361E-02	0.2947E-01	0.2001E-02	0.	0.3204
1.500	0.5324E 00	0.2318E-01	0.4184E-00	0.3637E-03	0.2487E-01	0.7508E-03	0.	0.2785
2.000	0.4779E-00	0.1317E-01	0.4887E-00	0.1099E-03	0.1982E-01	0.2937E-03	0.	0.2458
2.500	0.4314E-00	0.7644E-02	0.5454E 00	0.3638E-04	0.1537E-01	0.1196E-03	0.	0.2196
3.000	0.3921E-00	0.4532E-02	0.5915E 00	0.1293E-04	0.1175E-01	0.5043E-04	0.	0.1984
3.500	0.3587E-00	0.2747E-02	0.6296E 00	0.4866E-05	0.8922E-02	0.2196E-04	0.	0.1808
4.000	0.3302E-00	0.1683E-02	0.6613E 00	0.1922E-05	0.6762E-02	0.9842E-05	0.	0.1660
4.500	0.3057E-00	0.1051E-02	0.6881F 00	0.7907E-06	0.5127E-02	0.4528E-05	0.	0.1534
5.000	0.2844E-00	0.6667E-03	0.7110E 00	0.3374E-06	0.3896E-02	0.2135E-05	0.	0.1425
5.500	0.2659E-00	0.4289E-03	0.7308E 00	0.1487E-06	0.2971E-02	0.1029E-05	0.	0.1331
6.000	0.2494E-00	0.2796E-03	0.7480F 00	0.6747E-07	0.2274E-02	0.5069E-06	0.	0.1248

M	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	7.3192	2867.9	1.3727	12.0107	815.6	26.1873	16374.7	1.1564	1.2059	15.9459
0.5	7.2788	2859.4	1.3755	10.5829	869.8	23.2545	16082.7	1.1604	1.1985	13.8682
1.0	7.2486	2852.9	1.3777	9.5120	918.1	19.3953	15402.9	1.1683	1.1921	12.1897
1.5	7.2251	2848.0	1.3794	8.6791	961.8	16.8239	14654.7	1.1771	1.1924	10.8783
2.0	7.2063	2844.0	1.3808	8.0128	1001.5	15.1146	13943.2	1.1858	1.1960	9.8467
2.5	7.1909	2840.7	1.3819	7.4676	1037.8	13.9111	13292.6	1.1942	1.2013	9.0207
3.0	7.1780	2838.0	1.3828	7.0133	1071.3	13.0230	12706.1	1.2020	1.2070	8.3470
3.5	7.1672	2835.7	1.3836	6.6289	1102.2	12.3442	12178.6	1.2094	1.2130	7.7883
4.0	7.1579	2833.7	1.3843	6.2994	1130.9	11.8164	11704.0	1.2163	1.2189	7.3182
4.5	7.1498	2832.0	1.3849	6.0139	1157.7	11.3818	11276.0	1.2227	1.2246	6.9176
5.0	7.1427	2830.5	1.3854	5.7640	1182.8	11.0315	10888.9	1.2287	1.2301	6.5724
5.5	7.1365	2829.2	1.3859	5.5435	1206.3	10.7397	10537.5	1.2342	1.2353	6.2720
6.0	7.1310	2828.0	1.3863	5.3476	1228.4	10.4938	10217.1	1.2394	1.2402	6.0083

M	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	9706.437	5080.3	1750.3	3107.82	3.8105	9.7064	7.2575	1.7756	0.5632	1.3276
0.5	9652.700	4995.6	1864.3	3304.40	3.7992	9.6527	7.1365	1.7725	0.5642	1.3104
1.0	9412.578	4789.9	1952.5	3446.17	3.7534	9.4126	6.8341	1.7650	0.5666	1.2815
1.5	9102.386	4547.4	2022.7	3552.25	3.6934	9.1024	6.4963	1.7562	0.5694	1.2534
2.0	8774.733	4320.1	2079.8	3633.91	3.6286	8.7747	6.1716	1.7472	0.5723	1.2289
2.5	8450.884	4110.9	2127.2	3697.69	3.5630	8.4509	5.8726	1.7383	0.5753	1.2080
3.0	8141.060	3921.0	2166.8	3747.95	3.4987	8.1411	5.6015	1.7297	0.5781	1.1902
3.5	7848.323	3749.5	2200.3	3787.75	3.4366	7.8483	5.3564	1.7215	0.5809	1.1748
4.0	7574.449	3594.5	2228.7	3819.18	3.3770	7.5744	5.1350	1.7136	0.5836	1.1617
4.5	7318.896	3454.2	2253.1	3844.01	3.3203	7.3189	4.9345	1.7061	0.5861	1.1503
5.0	7081.178	3326.8	2274.0	3863.41	3.2664	7.0812	4.7525	1.6990	0.5886	1.1402
5.5	6860.134	3210.8	2292.0	3878.36	3.2152	6.8601	4.5868	1.6922	0.5910	1.1314
6.0	6654.024	3104.8	2307.6	3889.70	3.1666	6.6540	4.4354	1.6856	0.5933	1.1236

PI= 0.010

TABLE 2

TI=200.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4799E-00	0.1183E-00	0.1689E-00	0.5968E-01	0.1246E-00	0.5271E-01	0.	0.3831
0.500	0.4040E-00	0.9669E-01	0.1999E-00	0.4987E-01	0.1013E-00	0.4249E-01	0.1617E-00	0.3234
1.000	0.3583E-00	0.8104E-01	0.1187E-00	0.4264E-01	0.8628E-01	0.3504E-01	0.2799E-00	0.2799
1.500	0.3205E-00	0.6924E-01	0.1026E-00	0.3709E-01	0.7124E-01	0.2939E-01	0.3700E-00	0.2467
2.000	0.2907E-00	0.5996E-01	0.8980E-01	0.3267E-01	0.6096E-01	0.2495E-01	0.4410E-00	0.2205
2.500	0.2666E-00	0.5250E-01	0.7946E-01	0.2908E-01	0.5266E-01	0.2139E-01	0.4989E-00	0.1995
3.000	0.2467E-00	0.4636E-01	0.7092E-01	0.2609E-01	0.4584E-01	0.1848E-01	0.5456E 00	0.1819
3.500	0.2300E-00	0.4123E-01	0.6373E-01	0.2356E-01	0.4013E-01	0.1606E-01	0.5853E 00	0.1672
4.000	0.2158E-00	0.3686E-01	0.5749E-01	0.2138E-01	0.3530E-01	0.1403E-01	0.6190E 00	0.1548
4.500	0.2036E-00	0.3315E-01	0.5228E-01	0.1950E-01	0.3116E-01	0.1229E-01	0.6480E 00	0.1440
5.000	0.1929E-00	0.2990E-01	0.4765E-01	0.1784E-01	0.2759E-01	0.1080E-01	0.6733E 00	0.1347
5.500	0.1836E-00	0.2706E-01	0.4356E-01	0.1638E-01	0.2448E-01	0.9517E-02	0.6954E 00	0.1264
6.000	0.1755E-00	0.2455E-01	0.3993E-01	0.1507E-01	0.2176E-01	0.8396E-02	0.7150E 00	0.1192

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAMO	M
0.	6.6660	-669.9	1.4247	12.0107	444.1	96.5071	7374.7	1.1071	1.2252	13.8039
0.5	6.6234	-643.8	1.4479	10.8667	470.7	80.6486	7310.2	1.1112	1.2067	12.3018
1.0	6.2415	-624.3	1.4671	10.0087	493.7	69.1895	7243.8	1.1150	1.1944	11.2049
1.5	6.1000	-609.1	1.4832	9.3414	513.8	60.5018	7177.0	1.1188	1.1862	10.3685
2.0	5.9868	-597.0	1.4968	8.8076	531.6	53.6627	7110.9	1.1225	1.1805	9.7094
2.5	5.8942	-587.0	1.5086	8.3708	547.4	48.1271	7045.5	1.1263	1.1769	9.1767
3.0	5.8170	-578.7	1.5189	8.0068	561.6	43.5465	6980.8	1.1302	1.1746	8.7371
3.5	5.7517	-571.7	1.5279	7.6988	574.5	39.6869	6917.0	1.1342	1.1735	8.3680
4.0	5.6958	-565.7	1.5358	7.4349	586.1	36.3860	6853.7	1.1382	1.1733	8.0538
4.5	5.6472	-560.5	1.5429	7.2061	596.7	33.5279	6790.9	1.1425	1.1738	7.7830
5.0	5.6048	-555.9	1.5493	7.0059	606.4	31.0246	6728.5	1.1468	1.1750	7.5472
5.5	5.5679	-551.9	1.5551	6.8292	615.4	28.8144	6666.4	1.1514	1.1768	7.3399
6.0	5.5361	-548.4	1.5603	6.6722	623.6	26.8475	6604.4	1.1561	1.1791	7.1563

N	P	T	A	UD	ND	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.242	2985.9	1410.4	2631.88	5.9258	24.2183	14.9165	1.8660	0.5359	1.1491
0.5	0.243	2967.7	1407.9	2771.66	5.8881	24.2524	14.7344	1.8628	0.5368	1.1321
1.0	0.242	2915.6	1553.2	2888.69	5.8508	24.2182	14.5781	1.8598	0.5377	1.1195
1.5	0.241	2886.2	1609.2	2987.91	5.8149	24.1619	14.4311	1.8568	0.5386	1.1099
2.0	0.240	2858.8	1657.8	3073.09	5.7807	24.0371	14.2942	1.8538	0.5394	1.1024
2.5	0.239	2833.1	1700.4	3146.90	5.7489	23.9138	14.1655	1.8507	0.5403	1.0963
3.0	0.238	2808.6	1738.1	3211.22	5.7175	23.7773	14.0431	1.8476	0.5412	1.0912
3.5	0.236	2785.2	1771.6	3267.69	5.6881	23.6310	13.9260	1.8444	0.5422	1.0869
4.0	0.235	2762.6	1801.8	3317.30	5.6599	23.4772	13.8131	1.8411	0.5431	1.0833
4.5	0.233	2740.7	1829.0	3361.19	5.6329	23.3170	13.7036	1.8378	0.5441	1.0801
5.0	0.232	2719.4	1853.6	3400.04	5.6067	23.1521	13.5969	1.8343	0.5452	1.0773
5.5	0.230	2698.5	1876.1	3434.59	5.5815	22.9825	13.4926	1.8307	0.5462	1.0748
6.0	0.228	2678.0	1896.6	3465.22	5.5569	22.8093	13.3900	1.8270	0.5473	1.0726

PI= 0.010

TI=298.1500 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4658E-00	0.1169E-00	0.1696E-00	0.6094E-01	0.1316E-00	0.5510E-01	0.	0.3799
0.500	0.3993E-00	0.9594E-01	0.1410E-00	0.5106E-01	0.1076E-00	0.4467E-01	0.1605E-00	0.3210
1.000	0.3506E-00	0.8071E-01	0.1200E-00	0.4377E-01	0.8999E-01	0.3706E-01	0.2779E-00	0.2779
1.500	0.3134E-00	0.6915E-01	0.1039E-00	0.3817E-01	0.7669E-01	0.3126E-01	0.3676E-00	0.2451
2.000	0.2841E-00	0.6009E-01	0.9126E-01	0.3371E-01	0.6583E-01	0.2671E-01	0.4383E-00	0.2192
2.500	0.2604E-00	0.5280E-01	0.8100E-01	0.3008E-01	0.5722E-01	0.2305E-01	0.4955E-00	0.1982
3.000	0.2408E-00	0.4680E-01	0.7251E-01	0.2706E-01	0.5011E-01	0.2004E-01	0.5427E 00	0.1809
3.500	0.2244E-00	0.4179E-01	0.6538E-01	0.2451E-01	0.4417E-01	0.1756E-01	0.5823E 00	0.1664
4.000	0.2104E-00	0.3753E-01	0.5928E-01	0.2232E-01	0.3912E-01	0.1543E-01	0.6159E 00	0.1540
4.500	0.1983E-00	0.3388E-01	0.5407E-01	0.2042E-01	0.3479E-01	0.1363E-01	0.6450E 00	0.1435
5.000	0.1878E-00	0.3071E-01	0.4949E-01	0.1876E-01	0.3104E-01	0.1208E-01	0.6702E 00	0.1343
5.500	0.1785E-00	0.2793E-01	0.4558E-01	0.1728E-01	0.2777E-01	0.1073E-01	0.6924E 00	0.1259
6.000	0.1704E-00	0.2547E-01	0.4178E-01	0.1597E-01	0.2490E-01	0.9558E-02	0.7120E 00	0.1187

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAMO	M
0.	6.9350	0.	1.4016	12.0107	537.9	102.1698	7781.4	1.1054	1.2277	13.6870
0.5	6.6540	0.	1.4258	10.8667	570.3	85.5058	7686.1	1.1092	1.2084	12.2087
1.0	6.4439	0.	1.4459	10.0087	598.4	73.4788	7598.6	1.1129	1.1956	11.1274
1.5	6.2794	0.	1.4630	9.3414	623.1	64.3462	7517.5	1.1166	1.1868	10.3020
2.0	6.1483	0.	1.4776	8.8076	644.9	57.1642	7441.1	1.1199	1.1808	9.6512
2.5	6.0410	0.	1.4902	8.3708	664.3	51.3536	7368.7	1.1234	1.1767	9.1247
3.0	5.9516	0.	1.5013	8.0068	681.8	46.5487	7299.3	1.1270	1.1740	8.6900
3.5	5.8759	0.	1.5110	7.6988	697.5	42.4971	7232.4	1.1306	1.1724	8.3250
4.0	5.8111	0.	1.5197	7.4349	711.8	39.0373	7167.6	1.1343	1.1718	8.0141
4.5	5.7549	0.	1.5274	7.2061	724.9	36.0418	7104.4	1.1382	1.1718	7.7461
5.0	5.7057	0.	1.5344	7.0059	736.8	33.4191	7042.8	1.1421	1.1725	7.5126
5.5	5.6623	0.	1.5407	6.8292	747.8	31.1038	6982.2	1.1462	1.1738	7.3074
6.0	5.6237	0.	1.5464	6.6722	758.0	29.0427	6922.5	1.1504	1.1755	7.1256

N	P	T	A	UD	ND	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.160	2913.7	1403.6	2593.76	4.8224	15.9565	9.8398	1.8480	0.5411	1.1346
0.5	0.160	2900.5	1480.2	2791.18	4.7886	15.9767	9.7282	1.8451	0.5420	1.1235
1.0	0.160	2870.4	1545.0	2866.90	4.7562	15.9544	9.6281	1.8423	0.5428	1.1118
1.5	0.159	2843.4	1600.6	2946.18	4.7251	15.9066	9.5367	1.8394	0.5436	1.1028
2.0	0.158	2818.1	1648.9	3028.36	4.6960	15.8418	9.4519	1.8366	0.5445	1.0958
2.5	0.158	2794.4	1691.3	3101.39	4.6685	15.7661	9.3724	1.8337	0.5453	1.0901
3.0	0.157	2771.9	1728.9	3165.12	4.6425	15.6826	9.2971	1.8308	0.5462	1.0853
3.5	0.156	2750.5	1762.3	3221.13	4.6180	15.5935	9.2253	1.8278	0.5471	1.0813
4.0	0.155	2730.0	1792.4	3270.65	4.5947	15.5000	9.1563	1.8247	0.5480	1.0779
4.5	0.154	2710.1	1819.6	3316.58	4.5725	15.4032	9.0898	1.8215	0.5490	1.0749
5.0	0.153	2690.8	1844.3	3358.93	4.5512	15.3040	9.0255	1.8184	0.5499	1.0723
5.5	0.152	2672.1	1866.8	3398.32	4.5308	15.2024	8.9621	1.8151	0.5509	1.0700
6.0	0.151	2653.7	1887.4	3434.96	4.5110	15.0988	8.9005	1.8117	0.5520	1.0680

PI= 0.010

TI=300.0000 M= 0.

N	MU(H2O)	MU(OH)	MU(H2)	MU(O2)	MU(H)	MU(O)	MU(HE)	1/NF
0.	0.4657E-00	0.1169E-00	0.1697E-00	0.6096E-01	0.1917E-00	0.5514E-01	0.	0.3798
0.500	0.3991E-00	0.9593E-01	0.1410E-00	0.5108E-01	0.1077E-00	0.4671E-01	0.1605E-00	0.3210
1.000	0.3504E-00	0.8071E-01	0.1200E-00	0.4373E-01	0.9008E-01	0.3709E-01	0.2779E-00	0.2779
1.500	0.3193E-00	0.6915E-01	0.1039E-00	0.3818E-01	0.7658E-01	0.3129E-01	0.3676E-00	0.2450
2.000	0.2840E-00	0.6010E-01	0.912AE-01	0.3373E-01	0.6592E-01	0.2676E-01	0.4383E-00	0.2191
2.500	0.2603E-00	0.5280E-01	0.8102E-01	0.3010E-01	0.5730E-01	0.2307E-01	0.4994E-00	0.1982
3.000	0.2407E-00	0.4681E-01	0.7254E-01	0.2708E-01	0.5019E-01	0.2007E-01	0.5426E 00	0.1809
3.500	0.2243E-00	0.4180E-01	0.6540E-01	0.2453E-01	0.4424E-01	0.1757E-01	0.5822E 00	0.1663
4.000	0.2103E-00	0.3754E-01	0.5931E-01	0.2234E-01	0.3919E-01	0.1546E-01	0.6159E 00	0.1540
4.500	0.1982E-00	0.3389E-01	0.5405E-01	0.2044E-01	0.3485E-01	0.1366E-01	0.6449E 00	0.1433
5.000	0.1877E-00	0.3072E-01	0.4946E-01	0.1877E-01	0.3110E-01	0.1210E-01	0.6702E 00	0.1340
5.500	0.1785E-00	0.2794E-01	0.4541E-01	0.1730E-01	0.2783E-01	0.1076E-01	0.6923E 00	0.1259
6.000	0.1703E-00	0.2549E-01	0.4181E-01	0.1598E-01	0.2495E-01	0.9579E-02	0.7119E 00	0.1187

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.9371	12.8	1.4015	12.0107	539.5	102.2620	7789.7	1.1054	1.2277	13.6850
0.5	6.6558	12.3	1.4256	10.8667	572.1	85.5860	7693.7	1.1092	1.2084	12.2071
1.0	6.4448	11.9	1.4459	10.0087	600.3	73.5501	7606.0	1.1178	1.1956	11.1261
1.5	6.2808	11.6	1.4628	9.3414	625.0	64.4115	7534.4	1.1164	1.1869	10.3009
2.0	6.1495	11.4	1.4774	8.8076	646.9	57.2248	7447.9	1.1198	1.1808	9.6501
2.5	6.0421	11.2	1.4901	8.3708	666.9	51.4094	7375.1	1.1234	1.1767	9.1238
3.0	5.9526	11.0	1.5011	8.0068	683.8	46.5967	7305.7	1.1269	1.1740	8.6892
3.5	5.8769	10.9	1.5109	7.6988	699.7	42.5470	7238.8	1.1305	1.1724	8.3242
4.0	5.8120	10.7	1.5196	7.4349	714.0	39.0820	7173.9	1.1343	1.1718	8.0134
4.5	5.7557	10.6	1.5273	7.2051	727.1	36.0834	7110.8	1.1381	1.1718	7.7454
5.0	5.7065	10.5	1.5343	7.0059	739.1	33.4612	7049.1	1.1420	1.1725	7.5120
5.5	5.6630	10.5	1.5406	6.8292	750.1	31.1432	6988.4	1.1461	1.1737	7.3069
6.0	5.6244	10.4	1.5463	6.6722	760.3	29.0817	6928.8	1.1503	1.1756	7.1251

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.159	2933.0	1403.5	2593.09	4.8065	15.8536	9.7767	1.8476	0.5412	1.1394
0.5	0.159	2899.8	1480.1	2730.47	4.7731	15.8733	9.6659	1.8447	0.5421	1.1233
1.0	0.159	2870.0	1544.9	2845.58	4.7405	15.8514	9.5665	1.8419	0.5429	1.1116
1.5	0.158	2842.7	1600.5	2943.46	4.7096	15.8037	9.4757	1.8391	0.5437	1.1027
2.0	0.157	2817.5	1648.8	3027.58	4.6805	15.7397	9.3916	1.8363	0.5446	1.0957
2.5	0.157	2793.8	1691.2	3100.53	4.6530	15.6644	9.3127	1.8333	0.5455	1.0900
3.0	0.156	2771.4	1728.7	3164.31	4.6272	15.5815	9.2380	1.8304	0.5463	1.0852
3.5	0.155	2750.0	1762.2	3220.32	4.6027	15.4933	9.1667	1.8274	0.5472	1.0812
4.0	0.154	2729.5	1792.9	3269.85	4.5796	15.4003	9.0989	1.8244	0.5481	1.0778
4.5	0.153	2709.7	1819.5	3313.71	4.5574	15.3045	9.0322	1.8212	0.5491	1.0748
5.0	0.152	2690.4	1844.1	3352.76	4.5362	15.2059	8.9681	1.8180	0.5500	1.0722
5.5	0.151	2671.7	1866.6	3387.69	4.5158	15.1051	8.9056	1.8147	0.5510	1.0699
6.0	0.150	2653.3	1887.3	3418.54	4.4962	15.0023	8.8445	1.8114	0.5521	1.0679

PI= 0.010

TI=400.0000 M= 0.

N	MU(H2O)	MU(OH)	MU(H2)	MU(O2)	MU(H)	MU(O)	MU(HE)	1/NF
0.	0.4567E-00	0.1161E-00	0.1701E-00	0.6194E-01	0.1977E-00	0.5725E-01	0.	0.3770
0.500	0.3913E-00	0.9556E-01	0.1419E-00	0.5202E-01	0.1131E-00	0.4665E-01	0.1594E-00	0.3188
1.000	0.3435E-00	0.8062E-01	0.1211E-00	0.4469E-01	0.9506E-01	0.3890E-01	0.2762E-00	0.2762
1.500	0.3069E-00	0.6928E-01	0.1051E-00	0.3905E-01	0.8121E-01	0.3299E-01	0.3655E-00	0.2436
2.000	0.2780E-00	0.6038E-01	0.9254E-01	0.3457E-01	0.7025E-01	0.2834E-01	0.4359E-00	0.2179
2.500	0.2547E-00	0.5321E-01	0.8235E-01	0.3092E-01	0.6138E-01	0.2459E-01	0.4929E-00	0.1972
3.000	0.2356E-00	0.4732E-01	0.7392E-01	0.2789E-01	0.5405E-01	0.2151E-01	0.5399E 00	0.1800
3.500	0.2191E-00	0.4239E-01	0.6683E-01	0.2532E-01	0.4791E-01	0.1894E-01	0.5795E 00	0.1656
4.000	0.2053E-00	0.3821E-01	0.6078E-01	0.2312E-01	0.4269E-01	0.1677E-01	0.6131E 00	0.1533
4.500	0.1934E-00	0.3462E-01	0.5555E-01	0.2122E-01	0.3820E-01	0.1491E-01	0.6421E 00	0.1427
5.000	0.1830E-00	0.3150E-01	0.5099E-01	0.1954E-01	0.3431E-01	0.1331E-01	0.6673E 00	0.1335
5.500	0.1739E-00	0.2877E-01	0.4697E-01	0.1806E-01	0.3090E-01	0.1191E-01	0.6895E 00	0.1254
6.000	0.1658E-00	0.2635E-01	0.4341E-01	0.1675E-01	0.2791E-01	0.1069E-01	0.7091E 00	0.1182

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.0489	712.6	1.3926	12.0107	621.0	106.8037	8258.9	1.1042	1.2300	13.5826
0.5	6.7516	683.1	1.4171	10.8667	658.6	89.5977	8128.2	1.1079	1.2103	12.1248
1.0	6.5287	660.9	1.4376	10.0087	691.2	77.0579	8016.1	1.1113	1.1971	11.0573
1.5	6.3553	643.7	1.4549	9.3414	719.7	67.5937	7917.1	1.1147	1.1879	10.2415
2.0	6.2186	630.0	1.4698	8.8076	745.0	60.1493	7827.6	1.1180	1.1815	9.5978
2.5	6.1031	618.7	1.4828	8.3708	767.6	54.1230	7745.4	1.1213	1.1771	9.0769
3.0	6.0085	609.3	1.4942	8.0068	787.8	49.1422	7669.0	1.1246	1.1740	8.6466
3.5	5.9285	601.4	1.5042	7.6988	806.1	44.9499	7596.9	1.1283	1.1721	8.2851
4.0	5.8599	594.5	1.5131	7.4349	822.7	41.3671	7528.5	1.1314	1.1711	7.9771
4.5	5.8004	588.6	1.5211	7.2061	837.9	38.2636	7463.1	1.1349	1.1708	7.7116
5.0	5.7484	583.5	1.5283	7.0059	851.8	35.5503	7400.1	1.1386	1.1711	7.4802
5.5	5.7025	578.9	1.5349	6.8292	864.6	33.1551	7339.0	1.1423	1.1719	7.2769
6.0	5.6617	574.9	1.5408	6.6722	876.4	31.0238	7279.7	1.1461	1.1732	7.0967

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.117	2899.5	1400.0	2559.64	4.1219	11.7196	7.2488	1.8284	0.5469	1.1309
0.5	0.117	2868.0	1476.1	2696.94	4.0921	11.7522	7.1701	1.8257	0.5477	1.1158
1.0	0.117	2839.9	1540.5	2808.43	4.0634	11.7156	7.0998	1.8230	0.5485	1.1048
1.5	0.117	2814.3	1595.9	2904.99	4.0363	11.6818	7.0357	1.8203	0.5494	1.0964
2.0	0.116	2790.6	1644.0	2988.16	4.0109	11.6365	6.9766	1.8176	0.5502	1.0897
2.5	0.116	2768.5	1686.3	3060.57	3.9872	11.5899	6.9213	1.8148	0.5510	1.0843
3.0	0.115	2747.6	1723.8	3123.55	3.9649	11.5264	6.8691	1.8121	0.5519	1.0799
3.5	0.115	2727.8	1757.2	3179.22	3.9439	11.4650	6.8195	1.8092	0.5527	1.0761
4.0	0.114	2708.8	1787.3	3228.67	3.9241	11.4010	6.7721	1.8063	0.5536	1.0729
4.5	0.113	2690.6	1814.5	3272.25	3.9054	11.3351	6.7265	1.8034	0.5545	1.0701
5.0	0.113	2672.9	1839.2	3311.27	3.8875	11.2676	6.6823	1.8004	0.5554	1.0677
5.5	0.112	2655.8	1861.8	3346.14	3.8703	11.1988	6.6394	1.7973	0.5564	1.0655
6.0	0.111	2639.1	1882.5	3377.42	3.8539	11.1290	6.5976	1.7941	0.5574	1.0636

PI= 0.010

TI=500.0000 M= 0.

R	RU(H2O)	RU(OH)	RU(H2)	RU(O2)	RU(H)	RU(O)	RU(HE)	1/NF
0.	0.4485E-00	0.1156E-00	0.1710E-00	0.6274E-01	0.1431E-00	0.5919E-01	0.	0.3744
0.500	0.3942E-00	0.9599E-01	0.1427E-00	0.5200E-01	0.1180E-00	0.4845E-01	0.1584E-00	0.3168
1.000	0.3171E-00	0.8068E-01	0.1220E-00	0.4545E-01	0.9961E-01	0.4058E-01	0.2746E-00	0.2746
1.500	0.3010E-00	0.6950E-01	0.1062E-00	0.3979E-01	0.8545E-01	0.3457E-01	0.3635E-00	0.2423
2.000	0.2725E-00	0.6073E-01	0.9367E-01	0.3530E-01	0.7425E-01	0.2983E-01	0.4337E-00	0.2168
2.500	0.2495E-00	0.5366E-01	0.8359E-01	0.3163E-01	0.6517E-01	0.2602E-01	0.4905E-00	0.1962
3.000	0.2306E-00	0.4785E-01	0.7515E-01	0.2859E-01	0.5766E-01	0.2287E-01	0.5375E 00	0.1792
3.500	0.2144E-00	0.4299E-01	0.6810E-01	0.2602E-01	0.5135E-01	0.2025E-01	0.5769E 00	0.1648
4.000	0.2007E-00	0.3886E-01	0.6208E-01	0.2381E-01	0.4599E-01	0.1802E-01	0.6105E 00	0.1526
4.500	0.1890E-00	0.3532E-01	0.5689E-01	0.2190E-01	0.4137E-01	0.1612E-01	0.6394E 00	0.1421
5.000	0.1787E-00	0.3224E-01	0.5236E-01	0.2022E-01	0.3736E-01	0.1447E-01	0.6646E 00	0.1329
5.500	0.1697E-00	0.2954E-01	0.4836E-01	0.1874E-01	0.3384E-01	0.1303E-01	0.6868E 00	0.1249
6.000	0.1617E-00	0.2716E-01	0.4482E-01	0.1742E-01	0.3074E-01	0.1177E-01	0.7064E 00	0.1177

R	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	7.1393	1622.0	1.3857	12.0107	692.6	110.6705	8753.0	1.1033	1.2323	13.4893
0.5	6.8291	1967.1	1.4104	10.8667	734.6	92.9217	8585.9	1.1069	1.2122	12.0496
1.0	6.5965	1917.2	1.4311	10.0087	771.0	80.0970	8468.5	1.1102	1.1986	10.9960
1.5	6.4156	1282.3	1.4487	9.3414	803.0	70.3670	8330.4	1.1134	1.1892	10.1868
2.0	6.2700	1254.3	1.4639	8.8076	831.3	62.7129	8227.1	1.1165	1.1825	9.5694
2.5	6.1524	1231.5	1.4771	8.3708	856.5	56.5239	8134.3	1.1197	1.1777	9.0333
3.0	6.0537	1212.4	1.4887	8.0068	879.2	51.4823	8049.7	1.1228	1.1746	8.6069
3.5	5.9702	1196.3	1.4989	7.6988	899.7	47.0933	7971.5	1.1260	1.1723	8.2485
4.0	5.8986	1182.5	1.5080	7.4349	918.3	43.4123	7898.4	1.1292	1.1709	7.9431
4.5	5.8366	1170.5	1.5162	7.2061	935.3	40.2310	7829.6	1.1325	1.1704	7.6798
5.0	5.7823	1160.0	1.5236	7.0059	950.9	37.4439	7764.1	1.1359	1.1703	7.4503
5.5	5.7344	1150.8	1.5303	6.8292	965.2	34.9879	7701.6	1.1393	1.1708	7.2486
6.0	5.6918	1142.5	1.5364	6.6722	978.4	32.8004	7641.4	1.1428	1.1717	7.0698

R	P	T	A	UD	ND	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.093	2876.9	1398.5	2528.71	9.6513	9.2586	5.7499	1.0004	0.5530	1.1231
0.5	0.093	2844.9	1474.1	2662.87	9.6240	9.2667	5.6897	1.0059	0.5537	1.1049
1.0	0.093	2818.1	1538.2	2774.83	9.5980	9.2595	5.6362	1.0034	0.5545	1.0904
1.5	0.092	2795.8	1593.4	2869.39	9.5735	9.2272	5.5876	1.0008	0.5553	1.0905
2.0	0.092	2771.4	1641.4	2951.59	9.5508	9.1928	5.5428	1.7982	0.5561	1.0842
2.5	0.092	2750.6	1683.7	3023.09	9.5296	9.1530	5.5011	1.7955	0.5569	1.0791
3.0	0.091	2731.0	1721.1	3085.73	9.5098	9.1097	5.4619	1.7929	0.5578	1.0749
3.5	0.091	2712.4	1754.6	3140.95	9.4912	9.0638	5.4248	1.7901	0.5586	1.0714
4.0	0.090	2694.7	1784.7	3189.88	9.4737	9.0162	5.3893	1.7873	0.5595	1.0684
4.5	0.090	2677.7	1812.0	3233.49	9.4571	8.9672	5.3554	1.7845	0.5604	1.0657
5.0	0.089	2661.3	1836.7	3272.41	9.4416	8.9174	5.3226	1.7817	0.5613	1.0634
5.5	0.089	2645.5	1859.4	3307.35	9.4267	8.8667	5.2909	1.7788	0.5622	1.0614
6.0	0.088	2630.0	1880.1	3338.70	9.4124	8.8154	5.2601	1.7758	0.5631	1.0596

PI= 0.010

TI=600.0000 M= 0.

R	RU(H2O)	RU(OH)	RU(H2)	RU(O2)	RU(H)	RU(O)	RU(HE)	1/NF
0.	0.4407E-00	0.1153E-00	0.1715E-00	0.6344E-01	0.1480E-00	0.6102E-01	0.	0.3719
0.500	0.3774E-00	0.9539E-01	0.1435E-00	0.5348E-01	0.1226E-00	0.5016E-01	0.1575E-00	0.3147
1.000	0.3310E-00	0.8002E-01	0.1229E-00	0.4612E-01	0.1039E-00	0.4218E-01	0.2731E-00	0.2731
1.500	0.2994E-00	0.6978E-01	0.1071E-00	0.4045E-01	0.8947E-01	0.3609E-01	0.3616E-00	0.2411
2.000	0.2679E-00	0.6111E-01	0.9469E-01	0.3594E-01	0.7805E-01	0.3128E-01	0.4316E-00	0.2158
2.500	0.2446E-00	0.5413E-01	0.8468E-01	0.3227E-01	0.6878E-01	0.2739E-01	0.4885E-00	0.1959
3.000	0.2257E-00	0.4838E-01	0.7626E-01	0.2922E-01	0.6111E-01	0.2420E-01	0.5351E 00	0.1784
3.500	0.2099E-00	0.4357E-01	0.6925E-01	0.2664E-01	0.5466E-01	0.2152E-01	0.5745E 00	0.1641
4.000	0.1964E-00	0.3949E-01	0.6326E-01	0.2443E-01	0.4917E-01	0.1925E-01	0.6080E 00	0.1520
4.500	0.1848E-00	0.3599E-01	0.5810E-01	0.2251E-01	0.4444E-01	0.1730E-01	0.6369E 00	0.1415
5.000	0.1746E-00	0.3295E-01	0.5359E-01	0.2083E-01	0.4032E-01	0.1561E-01	0.6621E 00	0.1324
5.500	0.1657E-00	0.3028E-01	0.4962E-01	0.1935E-01	0.3671E-01	0.1414E-01	0.6842E 00	0.1244
6.000	0.1578E-00	0.2792E-01	0.4610E-01	0.1804E-01	0.3352E-01	0.1286E-01	0.7038E 00	0.1173

R	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	7.2295	2140.4	1.3791	12.0107	756.8	114.0982	9262.2	1.1027	1.2346	13.4017
0.5	6.9865	2048.9	1.4060	10.8667	802.8	95.9488	9057.8	1.1061	1.2141	11.9786
1.0	6.8042	1988.2	1.4269	10.0087	842.7	82.8183	8893.5	1.1093	1.2002	10.9342
1.5	6.6757	1926.8	1.4427	9.3414	877.8	72.8783	8756.2	1.1123	1.1905	10.1349
2.0	6.5250	1884.1	1.4581	8.8076	908.8	65.0459	8637.8	1.1154	1.1836	9.5034
2.5	6.2016	1849.1	1.4715	8.3708	936.5	58.7087	8533.6	1.1184	1.1786	8.9919
3.0	6.0908	1820.0	1.4839	8.0068	961.4	53.4806	8440.1	1.1213	1.1750	8.5690
3.5	6.0118	1795.4	1.4950	7.6988	983.8	49.0712	8355.8	1.1244	1.1726	8.2136
4.0	5.9375	1774.2	1.5031	7.4349	1004.3	45.3069	8278.5	1.1276	1.1711	7.9106
4.5	5.8727	1755.9	1.5114	7.2061	1022.9	42.0548	8203.5	1.1305	1.1702	7.6493
5.0	5.8161	1739.9	1.5190	7.0059	1040.0	39.2093	8135.0	1.1336	1.1699	7.4216
5.5	5.7663	1725.8	1.5258	6.8292	1055.8	36.6977	8070.1	1.1368	1.1701	7.2214
6.0	5.7219	1713.2	1.5321	6.6722	1070.5	34.4659	8008.4	1.1401	1.1707	7.0439

R	P	T	A	UD	ND	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.076	2855.8	1997.8	2699.17	9.5021	7.6269	4.7597	1.7880	0.5593	1.1158
0.5	0.076	2827.8	1673.5	2830.64	9.2767	7.6322	4.7116	1.7856	0.5600	1.1023
1.0	0.076	2801.9	1937.2	2741.16	9.2526	7.6209	4.6689	1.7832	0.5608	1.0925
1.5	0.076	2778.1	1992.2	2839.97	9.2301	7.5996	4.6302	1.7807	0.5616	1.0849
2.0	0.076	2756.9	1640.2	2916.52	9.2092	7.5720	4.5948	1.7781	0.5624	1.0790
2.5	0.075	2737.1	1682.4	2987.24	9.1899	7.5405	4.5618	1.7756	0.5632	1.0742
3.0	0.075	2718.6	1719.9	3049.27	9.1719	7.5062	4.5309	1.7730	0.5640	1.0702
3.5	0.075	2701.1	1753.4	3104.06	9.1551	7.4701	4.5018	1.7703	0.5649	1.0669
4.0	0.074	2684.4	1783.5	3152.68	9.1393	7.4328	4.4740	1.7676	0.5657	1.0640
4.5	0.074	2668.5	1810.8	3196.04	9.1244	7.3947	4.4475	1.7649	0.5666	1.0615
5.0	0.074	2653.2	1835.7	3234.84	9.1104	7.3559	4.4220	1.7622	0.5675	1.0593
5.5	0.073	2638.4	1858.4	3269.68	9.0970	7.3167	4.3974	1.7594	0.5684	1.0574
6.0	0.073	2624.2	1879.2	3301.01	9.0842	7.2773	4.3736	1.7566	0.5693	1.0557

PI= 0.010

TI=700.0000 M= 0.

M	MU(N2O)	MU(OH)	MU(H2)	MU(O2)	MU(N)	MU(O)	MU(HE)	1/MF
0.	0.4339E-00	0.1151E-00	0.1720E-00	0.6404E-01	0.1520E-00	0.6208E-01	0.	0.3696
0.500	0.3710E-00	0.9590E-01	0.1442E-00	0.5460E-01	0.1270E-00	0.5182E-01	0.1564E-00	0.3152
1.000	0.3252E-00	0.8182E-01	0.1253E-00	0.4671E-01	0.1088E-00	0.4375E-01	0.2717E-00	0.2717
1.500	0.2901E-00	0.7010E-01	0.1088E-00	0.4104E-01	0.9934E-01	0.3757E-01	0.3999E-00	0.2399
2.000	0.2629E-00	0.6151E-01	0.9563E-01	0.3652E-01	0.8172E-01	0.3269E-01	0.4796E-00	0.2148
2.500	0.2398E-00	0.5468E-01	0.8559E-01	0.3284E-01	0.7229E-01	0.2875E-01	0.4861E-00	0.1944
3.000	0.2212E-00	0.4891E-01	0.7729E-01	0.2979E-01	0.6447E-01	0.2549E-01	0.5520E 00	0.1776
3.500	0.2056E-00	0.4415E-01	0.7038E-01	0.2728E-01	0.5789E-01	0.2277E-01	0.5721E 00	0.1635
4.000	0.1922E-00	0.4010E-01	0.6455E-01	0.2499E-01	0.5228E-01	0.2045E-01	0.6056E 00	0.1514
4.500	0.1807E-00	0.3663E-01	0.5921E-01	0.2308E-01	0.4744E-01	0.1846E-01	0.6344E 00	0.1410
5.000	0.1707E-00	0.3362E-01	0.5472E-01	0.2140E-01	0.4329E-01	0.1674E-01	0.6596E 00	0.1319
5.500	0.1619E-00	0.3098E-01	0.5074E-01	0.1991E-01	0.3954E-01	0.1523E-01	0.6817E 00	0.1239
6.000	0.1540E-00	0.2864E-01	0.4720E-01	0.1859E-01	0.3627E-01	0.1390E-01	0.7013E 00	0.1169

M	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAMP	M
0.	7.9192	2867.9	1.3727	12.8107	815.6	117.2270	9781.5	1.1021	1.2368	13.9178
0.5	6.9859	2749.4	1.3977	10.8667	865.2	98.7290	9539.0	1.1055	1.2160	11.9105
1.0	6.7914	2650.8	1.4189	10.0087	900.3	85.9589	9347.4	1.1085	1.2019	10.8766
1.5	6.5355	2577.4	1.4369	9.3414	946.2	75.1977	9189.6	1.1115	1.1919	10.0849
2.0	6.3787	2519.3	1.4525	8.8076	979.7	67.2123	9055.7	1.1149	1.1848	9.4590
2.5	6.2505	2471.8	1.4661	8.3708	1009.6	60.7590	8939.4	1.1179	1.1796	8.9518
3.0	6.1436	2432.2	1.4781	8.0068	1036.6	55.4182	8836.4	1.1202	1.1758	8.5324
3.5	6.0532	2398.7	1.4887	7.6988	1060.9	50.9588	8745.8	1.1230	1.1732	8.1798
4.0	5.9757	2370.0	1.4987	7.4349	1083.0	47.0930	8659.4	1.1259	1.1714	7.8791
4.5	5.9085	2345.1	1.5068	7.2061	1103.2	43.7781	8581.5	1.1288	1.1703	7.6198
5.0	5.8497	2323.3	1.5145	7.0059	1121.7	40.8806	8509.3	1.1318	1.1698	7.3937
5.5	5.7979	2304.1	1.5215	6.8292	1138.7	38.3248	8441.6	1.1348	1.1698	7.1949
6.0	5.7518	2287.0	1.5279	6.6722	1154.5	36.0520	8377.7	1.1378	1.1701	7.0187

M	P	T	A	UD	ND	P/PI	T/TI	RAM/RAMI	U2/U1	M/MI
0.	0.065	2840.4	1998.0	2478.91	9.0289	6.4664	4.0577	1.7678	0.5659	1.1088
0.5	0.065	2812.6	1479.5	2599.99	9.0049	6.4694	4.0180	1.7668	0.5666	1.0961
1.0	0.065	2788.0	1537.1	2700.98	2.9829	6.4593	3.9828	1.7624	0.5676	1.0867
1.5	0.064	2765.8	1592.0	2801.95	2.9613	6.4413	3.9511	1.7600	0.5682	1.0796
2.0	0.064	2745.4	1640.0	2882.25	2.9419	6.4182	3.9220	1.7575	0.5690	1.0740
2.5	0.064	2726.6	1682.1	2952.13	2.9239	6.3924	3.8951	1.7550	0.5698	1.0694
3.0	0.064	2709.0	1719.6	3013.56	2.9073	6.3642	3.8700	1.7525	0.5706	1.0656
3.5	0.063	2692.4	1753.1	3067.89	2.8918	6.3350	3.8463	1.7499	0.5715	1.0625
4.0	0.063	2674.7	1783.3	3116.84	2.8773	6.3048	3.8239	1.7473	0.5723	1.0598
4.5	0.063	2661.8	1810.7	3159.86	2.8636	6.2740	3.8025	1.7447	0.5732	1.0574
5.0	0.062	2647.4	1835.6	3197.70	2.8508	6.2428	3.7820	1.7421	0.5740	1.0554
5.5	0.062	2633.6	1858.4	3232.42	2.8386	6.2114	3.7623	1.7394	0.5749	1.0535
6.0	0.062	2620.3	1879.3	3263.72	2.8271	6.1799	3.7432	1.7367	0.5758	1.0519

PI= 0.100

TI=200.0000 M= 0.

M	MU(N2O)	MU(OH)	MU(H2)	MU(O2)	MU(N)	MU(O)	MU(HE)	1/MF
0.	0.5047E 00	0.1294E-00	0.1673E-00	0.5972E-01	0.9908E-01	0.4587E-01	0.	0.3933
0.500	0.4316E-00	0.1069E-00	0.1374E-00	0.4665E-01	0.8012E-01	0.3587E-01	0.1654E-00	0.3308
1.000	0.3786E-00	0.8729E-01	0.1157E-00	0.3989E-01	0.6579E-01	0.2921E-01	0.2855E-00	0.2855
1.500	0.3384E-00	0.7396E-01	0.9923E-01	0.3476E-01	0.5491E-01	0.2418E-01	0.3766E-00	0.2510
2.000	0.3068E-00	0.6355E-01	0.8626E-01	0.2870E-01	0.4638E-01	0.2026E-01	0.4480E-00	0.2240
2.500	0.2814E-00	0.5520E-01	0.7575E-01	0.2539E-01	0.3955E-01	0.1714E-01	0.5056E 00	0.2022
3.000	0.2604E-00	0.4835E-01	0.6708E-01	0.2266E-01	0.3394E-01	0.1468E-01	0.5530E 00	0.1843
3.500	0.2429E-00	0.4263E-01	0.5980E-01	0.2031E-01	0.2929E-01	0.1258E-01	0.5926E 00	0.1693
4.000	0.2279E-00	0.3779E-01	0.5360E-01	0.1832E-01	0.2538E-01	0.1075E-01	0.6262E 00	0.1566
4.500	0.2151E-00	0.3364E-01	0.4825E-01	0.1659E-01	0.2206E-01	0.9274E-02	0.6551E 00	0.1456
5.000	0.2039E-00	0.3005E-01	0.4358E-01	0.1507E-01	0.1922E-01	0.8015E-02	0.6802E 00	0.1360
5.500	0.1940E-00	0.2691E-01	0.3947E-01	0.1373E-01	0.1678E-01	0.6936E-02	0.7022E 00	0.1277
6.000	0.1853E-00	0.2419E-01	0.3582E-01	0.1259E-01	0.1469E-01	0.6006E-02	0.7216E 00	0.1203

M	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAMP	M
0.	6.6660	-469.9	1.4247	12.0107	444.1	72.5966	8322.3	1.1185	1.2229	14.1719
0.5	6.4234	-643.8	1.4479	10.8667	478.7	60.5722	8225.3	1.1239	1.2078	12.5818
1.0	6.2415	-624.3	1.4671	10.0087	493.7	52.8405	8127.7	1.1291	1.1983	11.4281
1.5	6.1000	-609.1	1.4832	9.3414	513.8	45.5675	8031.2	1.1340	1.1923	10.5526
2.0	5.9868	-597.0	1.4968	8.8076	531.6	40.4676	7936.2	1.1390	1.1889	9.8653
2.5	5.8942	-587.0	1.5086	8.3708	547.4	36.3380	7842.7	1.1440	1.1871	9.3113
3.0	5.8170	-578.7	1.5189	8.0068	561.6	32.9177	7750.5	1.1492	1.1867	8.8551
3.5	5.7517	-571.7	1.5279	7.6988	574.5	30.0351	7659.6	1.1544	1.1874	8.4729
4.0	5.6958	-565.7	1.5358	7.4349	586.1	27.5690	7569.7	1.1598	1.1890	8.1478
4.5	5.6472	-560.5	1.5429	7.2061	596.7	25.4307	7480.7	1.1654	1.1913	7.8681
5.0	5.6048	-555.9	1.5493	7.0059	606.4	23.5567	7392.5	1.1712	1.1942	7.6246
5.5	5.5675	-551.9	1.5551	6.8292	615.4	21.9032	7304.2	1.1773	1.1979	7.4109
6.0	5.5341	-548.4	1.5603	6.6722	623.6	20.4295	7216.5	1.1836	1.2020	7.2216

M	P	T	A	UD	ND	P/PI	T/TI	RAM/RAMI	U2/U1	M/MI
0.	2.628	3333.6	1479.0	2791.09	6.1942	26.2756	16.6680	1.0681	0.5376	1.1799
0.5	2.634	3286.1	1567.3	2899.53	6.1598	26.3372	16.4304	1.0560	0.5388	1.1578
1.0	2.630	3243.1	1632.2	3022.84	6.1227	26.3009	16.2153	1.0520	0.5408	1.1418
1.5	2.620	3203.4	1691.8	3126.75	6.0851	26.2040	16.0169	1.0481	0.5411	1.1297
2.0	2.607	3166.3	1743.4	3219.38	6.0484	26.0668	15.8334	1.0443	0.5422	1.1201
2.5	2.590	3131.2	1788.5	3291.51	6.0125	25.9024	15.6560	1.0404	0.5434	1.1124
3.0	2.572	3097.7	1828.2	3357.95	5.9777	25.7181	15.4886	1.0364	0.5446	1.1059
3.5	2.552	3065.5	1863.5	3414.55	5.9438	25.5192	15.3277	1.0323	0.5458	1.1005
4.0	2.531	3034.4	1895.1	3464.49	5.9111	25.3091	15.1719	1.0281	0.5470	1.0959
4.5	2.509	3004.1	1923.5	3508.10	5.8791	25.0900	15.0203	1.0239	0.5483	1.0919
5.0	2.486	2974.4	1949.1	3546.92	5.8480	24.8632	14.8721	1.0195	0.5496	1.0885
5.5	2.463	2945.3	1972.4	3579.77	5.8174	24.6291	14.7264	1.0149	0.5510	1.0852
6.0	2.439	2916.6	1993.6	3608.94	5.7876	24.3903	14.5829	1.0102	0.5524	1.0823

PI= 0.100

TI=298.1500 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4924E-00	0.1289E-00	0.1690E-00	0.5511E-01	0.1068E-00	0.4777E-01	0.	0.3896
0.500	0.4711E-00	0.1050E-00	0.1394E-00	0.4589E-01	0.8628E-01	0.3828E-01	0.1640E-00	0.3281
1.000	0.3694E-00	0.8766E-01	0.1178E-00	0.3912E-01	0.7132E-01	0.3139E-01	0.2833E-00	0.2833
1.500	0.3300E-00	0.7459E-01	0.1014E-00	0.3393E-01	0.5993E-01	0.2617E-01	0.3740E-00	0.2493
2.000	0.2991E-00	0.6437E-01	0.8863E-01	0.2982E-01	0.5098E-01	0.2210E-01	0.4452E-00	0.2226
2.500	0.2742E-00	0.5615E-01	0.7797E-01	0.2667E-01	0.4379E-01	0.1884E-01	0.5026E 00	0.2010
3.000	0.2536E-00	0.4942E-01	0.6933E-01	0.2369E-01	0.3788E-01	0.1618E-01	0.5499E 00	0.1833
3.500	0.2364E-00	0.4379E-01	0.6207E-01	0.2134E-01	0.3296E-01	0.1399E-01	0.5895E 00	0.1684
4.000	0.2217E-00	0.3903E-01	0.5589E-01	0.1932E-01	0.2882E-01	0.1214E-01	0.6231E 00	0.1558
4.500	0.2091E-00	0.3494E-01	0.5055E-01	0.1757E-01	0.2528E-01	0.1057E-01	0.6520E 00	0.1449
5.000	0.1981E-00	0.3140E-01	0.4589E-01	0.1604E-01	0.2224E-01	0.9231E-02	0.6771E 00	0.1354
5.500	0.1885E-00	0.2830E-01	0.4179E-01	0.1468E-01	0.1960E-01	0.8077E-02	0.6991E 00	0.1271
6.000	0.1799E-00	0.2557E-01	0.3815E-01	0.1347E-01	0.1730E-01	0.7077E-02	0.7185E 00	0.1198

N	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	6.9350	0.	1.4016	12.0107	537.9	76.9122	8723.5	1.1166	1.2255	14.0397
0.5	6.6540	0.	1.4258	10.8667	570.3	64.4476	8595.5	1.1217	1.2095	12.4782
1.0	6.4433	0.	1.4459	10.0087	598.4	55.4475	8478.1	1.1265	1.1993	11.3432
1.5	6.2794	0.	1.4630	9.3414	623.1	48.6186	8368.3	1.1312	1.1927	10.4807
2.0	6.1483	0.	1.4776	8.8076	644.9	43.2386	8264.8	1.1358	1.1887	9.8029
2.5	6.0410	0.	1.4902	8.3708	664.3	38.8965	8166.2	1.1404	1.1864	9.2562
3.0	5.9516	0.	1.5013	8.0068	681.8	35.2805	8071.6	1.1452	1.1854	8.8057
3.5	5.8759	0.	1.5110	7.6988	697.5	32.2416	7980.0	1.1500	1.1855	8.4281
4.0	5.8111	0.	1.5197	7.4349	711.8	29.6411	7891.0	1.1549	1.1865	8.1069
4.5	5.7549	0.	1.5274	7.2061	724.9	27.3886	7804.0	1.1600	1.1882	7.8303
5.0	5.7057	0.	1.5344	7.0059	736.8	25.4177	7718.8	1.1652	1.1904	7.5897
5.5	5.6623	0.	1.5407	6.8292	747.8	23.6747	7635.0	1.1706	1.1933	7.3783
6.0	5.6237	0.	1.5464	6.6722	758.0	22.1221	7552.0	1.1763	1.1967	7.1911

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	1.733	3276.2	1471.9	2714.02	5.0459	17.3331	10.9883	1.8439	0.5423	1.1689
0.5	1.737	3232.0	1554.1	2860.10	5.0149	17.3716	10.8402	1.8402	0.5434	1.1483
1.0	1.735	3192.2	1629.6	2991.68	4.9824	17.3496	10.7065	1.8365	0.5445	1.1333
1.5	1.729	3155.6	1698.4	3084.40	4.9502	17.2902	10.5838	1.8329	0.5456	1.1220
2.0	1.721	3121.5	1736.1	3172.10	4.9189	17.2067	10.4694	1.8292	0.5467	1.1130
2.5	1.711	3089.3	1779.0	3247.72	4.8888	17.1068	10.3617	1.8256	0.5478	1.1058
3.0	1.700	3058.8	1818.6	3313.32	4.8599	16.9952	10.2592	1.8219	0.5489	1.0998
3.5	1.688	3029.5	1853.9	3370.48	4.8321	16.8751	10.1611	1.8181	0.5500	1.0947
4.0	1.675	3001.3	1885.5	3420.58	4.8053	16.7483	10.0664	1.8142	0.5512	1.0904
4.5	1.662	2973.9	1913.9	3464.56	4.7795	16.6165	9.9746	1.8102	0.5524	1.0866
5.0	1.648	2947.3	1939.6	3503.26	4.7544	16.4808	9.8852	1.8061	0.5537	1.0833
5.5	1.634	2921.2	1963.0	3537.38	4.7301	16.3416	9.7978	1.8020	0.5549	1.0804
6.0	1.620	2895.6	1984.5	3567.42	4.7064	16.1988	9.7118	1.7977	0.5563	1.0778

PI= 0.100

TI=300.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4922E-00	0.1289E-00	0.1691F-00	0.5513E-01	0.1069E-00	0.4782E-01	0.	0.3896
0.500	0.4210F-00	0.1050F-00	0.1394E-00	0.4591E-01	0.8639E-01	0.3832E-01	0.1640E-00	0.3280
1.000	0.3692E-00	0.8767E-01	0.1178E-00	0.3914E-01	0.7141E-01	0.3143E-01	0.2833E-00	0.2833
1.500	0.3299F-00	0.7460E-01	0.1014F-00	0.3395E-01	0.6002F-01	0.2621F-01	0.3739E-00	0.2493
2.000	0.2990F-00	0.6438E-01	0.8847E-01	0.2984E-01	0.5106F-01	0.2213F-01	0.4452F-00	0.2226
2.500	0.2740F-00	0.5617E-01	0.7800F-01	0.2649E-01	0.4386E-01	0.1887F-01	0.5026E 00	0.2010
3.000	0.2535F-00	0.4944F-01	0.6937F-01	0.2371E-01	0.3795E-01	0.1621F-01	0.5498E 00	0.1833
3.500	0.2363E-00	0.4381E-01	0.6211F-01	0.2136E-01	0.3303E-01	0.1401E-01	0.5894E 00	0.1684
4.000	0.2216F-00	0.3905E-01	0.5593F-01	0.1934E-01	0.2884E-01	0.1216E-01	0.6230F 00	0.1558
4.500	0.2090F-00	0.3496F-01	0.5059F-01	0.1759F-01	0.2534E-01	0.1059F-01	0.6519E 00	0.1449
5.000	0.1980F-00	0.3142F-01	0.4593F-01	0.1606E-01	0.2229E-01	0.9252F-02	0.6770E 00	0.1354
5.500	0.1884F-00	0.2833F-01	0.4183E-01	0.1470F-01	0.1965E-01	0.8098E-02	0.6990E 00	0.1271
6.000	0.1798F-00	0.2560F-01	0.3819F-01	0.1349F-01	0.1735E-01	0.7097E-02	0.7185E 00	0.1197

N	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	6.9371	12.8	1.4015	12.0107	539.5	76.9857	8731.5	1.1166	1.2255	14.0375
0.5	6.6558	12.9	1.4256	10.8667	572.1	64.5114	8603.1	1.1217	1.2095	12.4764
1.0	6.4448	11.9	1.4458	10.0087	600.3	55.5009	8485.2	1.1265	1.1993	11.3417
1.5	6.2808	11.6	1.4628	9.3414	625.0	48.6622	8375.3	1.1312	1.1928	10.4795
2.0	6.1495	11.4	1.4774	8.8076	646.9	43.2854	8271.6	1.1358	1.1887	9.8018
2.5	6.0421	11.2	1.4901	8.3708	666.3	38.9281	8172.8	1.1404	1.1864	9.2552
3.0	5.9526	11.0	1.5011	8.0068	683.8	35.3199	8078.0	1.1451	1.1854	8.8048
3.5	5.8769	10.9	1.5109	7.6988	699.7	32.2788	7986.4	1.1499	1.1855	8.4273
4.0	5.8120	10.7	1.5196	7.4349	714.0	29.6755	7897.5	1.1548	1.1881	8.1062
4.5	5.7557	10.6	1.5273	7.2061	727.1	27.4226	7810.7	1.1599	1.1881	7.8297
5.0	5.7065	10.5	1.5343	7.0059	739.1	25.4484	7725.4	1.1651	1.1904	7.5890
5.5	5.6630	10.5	1.5406	6.8292	750.1	23.7051	7641.5	1.1705	1.1932	7.3777
6.0	5.6244	10.4	1.5463	6.6722	760.3	22.1502	7558.6	1.1762	1.1966	7.1906

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	1.722	3275.3	1471.8	2713.98	5.0295	17.2216	10.9177	1.8436	0.5424	1.1688
0.5	1.726	3231.2	1554.2	2859.61	4.9985	17.2598	10.7706	1.8398	0.5435	1.1481
1.0	1.724	3191.4	1623.4	2980.97	4.9661	17.2378	10.6380	1.8362	0.5446	1.1332
1.5	1.718	3154.8	1682.7	3083.68	4.9340	17.1789	10.5162	1.8326	0.5457	1.1218
2.0	1.710	3120.8	1734.0	3171.40	4.9028	17.0961	10.4027	1.8290	0.5468	1.1129
2.5	1.700	3088.7	1778.9	3246.96	4.8728	16.9970	10.2957	1.8253	0.5479	1.1057
3.0	1.689	3058.2	1818.5	3312.57	4.8440	16.8860	10.1940	1.8216	0.5490	1.0997
3.5	1.677	3029.0	1853.8	3369.76	4.8163	16.7669	10.0967	1.8178	0.5501	1.0946
4.0	1.664	3000.8	1885.3	3419.84	4.7896	16.6415	10.0028	1.8139	0.5513	1.0903
4.5	1.651	2973.5	1913.8	3463.84	4.7639	16.5109	9.9117	1.8100	0.5525	1.0865
5.0	1.638	2946.9	1939.5	3502.51	4.7389	16.3762	9.8230	1.8059	0.5537	1.0832
5.5	1.624	2920.9	1962.9	3536.63	4.7146	16.2378	9.7362	1.8017	0.5550	1.0803
6.0	1.610	2895.3	1984.4	3566.67	4.6910	16.0963	9.6510	1.7974	0.5564	1.0777

PI= 0.100

TI=400.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4816E-00	0.1287E-00	0.1705E-00	0.5620E-01	0.1128E-00	0.5016E-01	0.	0.3864
0.500	0.4119E-00	0.1052E-00	0.1410E-00	0.4693E-01	0.9169E-01	0.4043E-01	0.1628E-00	0.3257
1.000	0.3611E-00	0.8816E-01	0.1196E-00	0.4012E-01	0.7823E-01	0.3336E-01	0.2814E-00	0.2814
1.500	0.3225E-00	0.7528E-01	0.1032E-00	0.3489E-01	0.6844E-01	0.2799E-01	0.3717E-00	0.2478
2.000	0.2922E-00	0.6520E-01	0.9030E-01	0.3075E-01	0.5915E-01	0.2379E-01	0.4426E-00	0.2213
2.500	0.2677E-00	0.5710E-01	0.7988E-01	0.2737E-01	0.4767E-01	0.2042E-01	0.4999E-00	0.2000
3.000	0.2475E-00	0.5045E-01	0.7127E-01	0.2457E-01	0.4152E-01	0.1766E-01	0.5471E 00	0.1824
3.500	0.2305F-00	0.4489F-01	0.6404F-01	0.2220E-01	0.3638E-01	0.1537E-01	0.5866E 00	0.1676
4.000	0.2161E-00	0.4019E-01	0.5787E-01	0.2018E-01	0.3204E-01	0.1345E-01	0.6202E 00	0.1550
4.500	0.2037E-00	0.3615E-01	0.5255E-01	0.1842E-01	0.2833E-01	0.1181E-01	0.6491E 00	0.1442
5.000	0.1929E-00	0.3265E-01	0.4791E-01	0.1687E-01	0.2512E-01	0.1040E-01	0.6742E 00	0.1348
5.500	0.1834F-00	0.2959E-01	0.4383E-01	0.1551E-01	0.2234F-01	0.9189E-02	0.6962E 00	0.1266
6.000	0.1749E-00	0.2688E-01	0.4021E-01	0.1429E-01	0.1990E-01	0.8131E-02	0.7156E 00	0.1193

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM0	M
0.	7.0489	712.6	1.3926	12.0107	621.0	80.6248	9202.5	1.1153	1.2280	13.9241
0.5	6.7516	683.1	1.4171	10.8667	658.6	67.6599	9038.7	1.1202	1.2113	12.3867
1.0	6.5287	660.9	1.4376	10.0087	691.2	58.2971	8896.6	1.1247	1.2006	11.2676
1.5	6.3553	643.7	1.4549	9.3414	719.7	51.1929	8770.0	1.1291	1.1936	10.4162
2.0	6.2166	630.0	1.4698	8.8076	745.0	45.5984	8654.5	1.1335	1.1891	9.7466
2.5	6.1031	618.7	1.4828	8.3708	767.4	41.0731	8547.4	1.1379	1.1864	9.2061
3.0	6.0085	609.3	1.4942	8.0068	787.8	37.3250	8447.2	1.1422	1.1849	8.7606
3.5	5.9285	601.4	1.5042	7.6984	806.1	34.1677	8352.1	1.1467	1.1845	8.3870
4.0	5.8599	594.5	1.5131	7.4349	822.7	31.4668	8261.2	1.1512	1.1850	8.0691
4.5	5.8004	588.6	1.5211	7.2061	837.9	29.1786	8173.7	1.1559	1.1862	7.7953
5.0	5.7484	583.5	1.5283	7.0059	851.8	27.0804	8089.1	1.1607	1.1880	7.5570
5.5	5.7029	578.9	1.5349	6.8292	864.6	25.2698	8006.7	1.1656	1.1903	7.3477
6.0	5.6617	574.9	1.5408	6.6722	876.4	23.6584	7926.9	1.1707	1.1931	7.1624

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	1.275	3236.8	1468.2	2681.37	4.3180	12.7475	8.0920	1.8263	0.5476	1.1593
0.5	1.277	3195.2	1550.0	2825.39	4.2902	12.7739	7.9879	1.8228	0.5486	1.1399
1.0	1.276	3157.7	1618.9	2945.42	4.2616	12.7584	7.8944	1.8194	0.5496	1.1258
1.5	1.272	3123.5	1677.9	3047.02	4.2336	12.7175	7.8088	1.8160	0.5507	1.1151
2.0	1.266	3091.7	1729.0	3133.96	4.2068	12.6598	7.7293	1.8125	0.5517	1.1066
2.5	1.259	3061.9	1773.9	3208.98	4.1808	12.5910	7.6546	1.8090	0.5528	1.0998
3.0	1.251	3033.6	1813.5	3274.27	4.1562	12.5148	7.5839	1.8055	0.5539	1.0941
3.5	1.243	3006.6	1848.7	3331.29	4.1326	12.4329	7.5164	1.8019	0.5550	1.0894
4.0	1.235	2980.6	1880.4	3381.42	4.1100	12.3467	7.4516	1.7983	0.5561	1.0853
4.5	1.226	2955.6	1908.9	3425.62	4.0884	12.2573	7.3889	1.7945	0.5572	1.0818
5.0	1.217	2931.2	1934.8	3464.62	4.0675	12.1656	7.3280	1.7907	0.5584	1.0787
5.5	1.207	2907.5	1958.3	3499.20	4.0473	12.0715	7.2687	1.7868	0.5596	1.0759
6.0	1.198	2884.3	1979.8	3529.82	4.0278	11.9760	7.2107	1.7829	0.5609	1.0735

PI= 0.100

TI=500.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4720E-00	0.1287E-00	0.1717E-00	0.5708E-01	0.1181E-00	0.5228E-01	0.	0.3836
0.500	0.4037E-00	0.1055E-00	0.1424E-00	0.4778E-01	0.9648E-01	0.4236E-01	0.1618E-00	0.3235
1.000	0.3538E-00	0.8870E-01	0.1211E-00	0.4094E-01	0.8061E-01	0.3513E-01	0.2798E-00	0.2798
1.500	0.3159E-00	0.7597E-01	0.1048E-00	0.3569E-01	0.6849E-01	0.2964E-01	0.3698E-00	0.2464
2.000	0.2860E-00	0.6600E-01	0.9190E-01	0.3152E-01	0.5893E-01	0.2533E-01	0.4403E-00	0.2202
2.500	0.2618E-00	0.5798E-01	0.8152E-01	0.2813E-01	0.5121E-01	0.2187E-01	0.4974E-00	0.1990
3.000	0.2419E-00	0.5140E-01	0.7294E-01	0.2532E-01	0.4486E-01	0.1903E-01	0.5445F 00	0.1815
3.500	0.2252E-00	0.4590E-01	0.6573E-01	0.2294F-01	0.3954F-01	0.1667E-01	0.5840E 00	0.1668
4.000	0.2110E-00	0.4124E-01	0.5959E-01	0.2090E-01	0.3503E-01	0.1466E-01	0.6175E 00	0.1544
4.500	0.1988E-00	0.3724E-01	0.5429E-01	0.1914E-01	0.3117E-01	0.1299E-01	0.6464E 00	0.1436
5.000	0.1881E-00	0.3377E-01	0.4966E-01	0.1759E-01	0.2784E-01	0.1152E-01	0.6715E 00	0.1343
5.500	0.1788E-00	0.3074E-01	0.4560F-01	0.1622E-01	0.2493E-01	0.1025E-01	0.6935E 00	0.1261
6.000	0.1705E-00	0.2806E-01	0.4199F-01	0.1500E-01	0.2237E-01	0.9145E-02	0.7130E 00	0.1188

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM0	M
0.	7.1393	1427.0	1.3857	12.0107	692.6	83.7141	9702.2	1.1144	1.2304	13.8422
0.5	6.8291	1362.1	1.4104	10.8667	734.6	70.3589	9501.1	1.1191	1.2133	12.3055
1.0	6.5965	1317.2	1.4311	10.0087	771.0	60.7141	9333.4	1.1234	1.2021	11.2001
1.5	6.4196	1282.3	1.4487	9.341	803.0	53.3938	9188.4	1.1276	1.1967	10.3584
2.0	6.2708	1254.3	1.4639	8.8076	831.3	47.6294	9059.6	1.1318	1.1898	9.6959
2.5	6.1524	1231.5	1.4771	8.3708	856.5	42.9654	8942.9	1.1359	1.1867	9.1609
3.0	6.0537	1212.4	1.4887	8.0068	879.2	39.1083	8835.4	1.1400	1.1849	8.7197
3.5	5.9702	1196.3	1.4989	7.6984	899.7	35.9953	8735.3	1.1442	1.1842	8.3495
4.0	5.8986	1182.5	1.5080	7.4349	918.3	33.4762	8641.2	1.1484	1.1843	8.0346
4.5	5.8366	1170.5	1.5162	7.2061	935.3	30.6699	8551.6	1.1528	1.1851	7.7632
5.0	5.7823	1160.0	1.5236	7.0059	950.9	28.5604	8466.1	1.1572	1.1864	7.5270
5.5	5.7344	1150.8	1.5303	6.8292	965.2	26.7004	8383.7	1.1618	1.1883	7.3195
6.0	5.6918	1142.5	1.5364	6.6722	978.4	25.0422	8304.0	1.1664	1.1906	7.1357

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	1.008	3208.7	1466.6	2652.17	3.8295	10.0843	6.4175	1.8084	0.5530	1.1508
0.5	1.010	3169.1	1548.0	2794.35	3.8041	10.1035	6.3382	1.8051	0.5540	1.1324
1.0	1.009	3133.6	1616.6	2912.99	3.7782	10.0917	6.2672	1.8019	0.5550	1.1190
1.5	1.006	3101.2	1675.4	3013.50	3.7530	10.0609	6.2024	1.7987	0.5560	1.1089
2.0	1.002	3071.2	1726.5	3099.67	3.7289	10.0176	6.1425	1.7954	0.5570	1.1009
2.5	0.997	3043.2	1771.3	3174.18	3.7060	9.9663	6.0864	1.7920	0.5580	1.0944
3.0	0.991	3016.7	1810.9	3239.07	3.6842	9.9093	6.0334	1.7887	0.5591	1.0890
3.5	0.985	2991.5	1846.2	3295.99	3.6635	9.8485	5.9830	1.7852	0.5602	1.0845
4.0	0.978	2967.3	1877.9	3346.01	3.6438	9.7848	5.9347	1.7818	0.5612	1.0807
4.5	0.972	2944.1	1906.6	3390.76	3.6249	9.7189	5.8882	1.7782	0.5624	1.0773
5.0	0.965	2921.6	1932.5	3429.49	3.6068	9.6514	5.8432	1.7746	0.5635	1.0744
5.5	0.958	2899.7	1956.2	3464.34	3.5893	9.5825	5.7994	1.7709	0.5647	1.0718
6.0	0.951	2878.4	1977.9	3495.37	3.5725	9.5125	5.7568	1.7672	0.5659	1.0695

PI= 0.100

TI=600.0000 M= 0.

N	MU(H2O)	MU(OH)	MU(H2)	MU(O2)	MU(H)	MU(O)	MU(HE)	1/NF
0.	0.4632E-00	0.1288E-00	0.1728E-00	0.5786E-01	0.1230E-00	0.5427E-01	0.	0.3810
0.500	0.3960E-00	0.1059E-00	0.1437E-00	0.4851E-01	0.1018E-00	0.4419E-01	0.1608E-00	0.3215
1.000	0.3470E-00	0.8926E-01	0.1224E-00	0.4165E-01	0.8673E-01	0.3682E-01	0.2782E-00	0.2782
1.500	0.3096E-00	0.7665E-01	0.1062E-00	0.3638E-01	0.7232E-01	0.3122E-01	0.3677E-00	0.2451
2.000	0.2802E-00	0.6670E-01	0.9335E-01	0.3220E-01	0.6252E-01	0.7681E-01	0.4382E-00	0.2191
2.500	0.2566F-00	0.5881E-01	0.8299E-01	0.2888E-01	0.5459E-01	0.2327E-01	0.4951E-00	0.1980
3.000	0.2368E-00	0.5291E-01	0.7444E-01	0.2598E-01	0.4806E-01	0.2036E-01	0.5421E 00	0.1807
3.500	0.2203E-00	0.4686E-01	0.6726E-01	0.2360E-01	0.4258E-01	0.1793E-01	0.5815E 00	0.1660
4.000	0.2063E-00	0.4224E-01	0.6114E-01	0.2155E-01	0.3794E-01	0.1588E-01	0.6150E 00	0.1537
4.500	0.1942E-00	0.3827E-01	0.5585E-01	0.1978E-01	0.3395E-01	0.1413E-01	0.6438E 00	0.1431
5.000	0.1837F-00	0.3489E-01	0.5125E-01	0.1823E-01	0.3049E-01	0.1262F-01	0.6689E 00	0.1338
5.500	0.1744E-00	0.3182F-01	0.4720F-01	0.1686E-01	0.2747E-01	0.1130E-01	0.6909E 00	0.1256
6.000	0.1662F-00	0.2916E-01	0.4360F-01	0.1564F-01	0.2482E-01	0.1015E-01	0.7104E 00	0.1184

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAMO	M
0.	7.2295	2140.4	1.3791	12.0107	756.8	86.4531	10219.4	1.1137	1.2328	13.7273
0.5	6.9065	2048.9	1.4040	10.8667	802.8	72.7714	9979.9	1.1182	1.2152	12.2297
1.0	6.6642	1980.2	1.4249	10.0087	842.7	62.8867	9785.2	1.1226	1.2017	11.1368
1.5	6.4757	1926.8	1.4427	9.3414	877.8	55.3833	9620.8	1.1264	1.1959	10.3039
2.0	6.3250	1884.1	1.4581	8.8076	908.8	49.4751	9477.6	1.1304	1.1907	9.6480
2.5	6.2016	1849.1	1.4715	8.3708	936.5	44.6985	9350.1	1.1343	1.1873	9.1180
3.0	6.0988	1820.0	1.4833	8.0068	961.4	40.7441	9234.5	1.1382	1.1852	8.6808
3.5	6.0118	1795.4	1.4938	7.6988	983.8	37.4124	9128.5	1.1422	1.1842	8.3139
4.0	5.9373	1774.2	1.5031	7.4349	1004.3	34.5659	9029.9	1.1462	1.1840	8.0016
4.5	5.8727	1755.9	1.5114	7.2061	1022.9	32.1011	8937.4	1.1502	1.1844	7.7325
5.0	5.8161	1739.9	1.5190	7.0059	1040.0	29.9650	8849.8	1.1544	1.1854	7.4982
5.5	5.7663	1725.8	1.5258	6.8292	1055.8	28.0396	8766.4	1.1586	1.1869	7.2924
6.0	5.7219	1713.2	1.5321	6.6722	1070.3	26.3424	8686.4	1.1629	1.1888	7.1100

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.832	3187.1	1466.7	2624.57	3.4678	8.3193	5.3118	1.7900	0.5587	1.1629
0.5	0.833	3149.2	1547.3	2764.97	3.4440	8.3340	5.2486	1.7870	0.5596	1.1254
1.0	0.832	3115.9	1615.7	2882.27	3.4201	8.3241	5.1921	1.7839	0.5606	1.1127
1.5	0.830	3084.4	1674.6	2981.78	3.3970	8.2995	5.1407	1.7808	0.5615	1.1030
2.0	0.827	3056.0	1725.4	3067.15	3.3750	8.2659	5.0934	1.7776	0.5625	1.0954
2.5	0.823	3029.5	1770.2	3141.85	3.3541	8.2251	5.0492	1.7744	0.5636	1.0893
3.0	0.818	3004.5	1809.9	3205.52	3.3344	8.1805	5.0075	1.7711	0.5646	1.0842
3.5	0.813	2980.8	1845.2	3262.16	3.3157	8.1332	4.9680	1.7679	0.5657	1.0799
4.0	0.808	2958.2	1877.1	3312.12	3.2980	8.0835	4.9303	1.7645	0.5667	1.0762
4.5	0.803	2936.5	1905.8	3356.95	3.2811	8.0325	4.8941	1.7612	0.5678	1.0731
5.0	0.798	2915.5	1931.9	3395.67	3.2650	7.9801	4.8592	1.7577	0.5689	1.0703
5.5	0.793	2895.2	1955.7	3430.78	3.2495	7.9273	4.8254	1.7542	0.5700	1.0678
6.0	0.787	2875.5	1977.5	3461.99	3.2346	7.8735	4.7925	1.7507	0.5712	1.0656

PI= 0.100

TI=700.0000 M= 0.

N	MU(H2O)	MU(OH)	MU(H2)	MU(O2)	MU(H)	MU(O)	MU(HE)	1/NF
0.	0.4567F-00	0.1290F-00	0.1738E-00	0.5850E-01	0.1277F-00	0.5619E-01	0.	0.3785
0.500	0.3887E-00	0.1063E-00	0.1448E-00	0.4917F-01	0.1052E-00	0.4595E-01	0.1598E-00	0.3196
1.000	0.3405F-00	0.8883F-01	0.1236E-00	0.4229E-01	0.8869E-01	0.3846E-01	0.2767E-00	0.2767
1.500	0.3036F-00	0.7733E-01	0.1074E-00	0.3701E-01	0.7601E-01	0.3275E-01	0.3658E-00	0.2439
2.000	0.2746E-00	0.6753E-01	0.9467E-01	0.3282E-01	0.6599E-01	0.2826E-01	0.4361E-00	0.2180
2.500	0.2512F-00	0.5965E-01	0.8435E-01	0.2942E-01	0.5788E-01	0.2464E-01	0.4929E-00	0.1972
3.000	0.2318F-00	0.5314F-01	0.7583E-01	0.2659F-01	0.5118E-01	0.2166E-01	0.5397E 00	0.1799
3.500	0.2156F-00	0.4777F-01	0.6866E-01	0.2420E-01	0.4556F-01	0.1917E-01	0.5791E 00	0.1654
4.000	0.2017F-00	0.4318F-01	0.6256F-01	0.2215F-01	0.4079E-01	0.1707E-01	0.6125E 00	0.1531
4.500	0.1898F-00	0.3924F-01	0.5730F-01	0.2038F-01	0.3668F-01	0.1527E-01	0.6414E 00	0.1425
5.000	0.1794E-00	0.3582F-01	0.5271E-01	0.1882F-01	0.3312E-01	0.1371E-01	0.6664E 00	0.1333
5.500	0.1703F-00	0.3283F-01	0.4867F-01	0.1745E-01	0.3001F-01	0.1236E-01	0.6884E 00	0.1252
6.000	0.1622F-00	0.3019E-01	0.4509E-01	0.1623E-01	0.2726F-01	0.1117E-01	0.7079E 00	0.1180

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAMO	M
0.	7.3192	2867.9	1.3727	12.0107	815.6	98.9512	10748.7	1.1131	1.2351	13.6371
0.5	6.9833	2749.4	1.3977	10.8667	865.2	74.9765	10469.9	1.1175	1.2171	12.1573
1.0	6.7314	2650.0	1.4189	10.0087	908.3	64.8833	10247.4	1.1215	1.2053	11.0762
1.5	6.5355	2577.4	1.4369	9.3414	946.2	57.2221	10067.5	1.1254	1.1972	10.2517
2.0	6.3787	2519.3	1.4525	8.8076	979.7	51.1939	9903.9	1.1293	1.1918	9.6020
2.5	6.2505	2471.8	1.4661	8.3708	1009.6	46.3153	9765.0	1.1330	1.1881	9.0768
3.0	6.1436	2432.2	1.4781	8.0068	1036.6	42.2786	9640.6	1.1367	1.1857	8.6433
3.5	6.0537	2398.7	1.4887	7.6988	1060.9	38.8774	9527.7	1.1405	1.1844	8.2794
4.0	5.9757	2370.0	1.4982	7.4349	1083.0	35.9725	9423.9	1.1443	1.1839	7.9697
4.5	5.9085	2345.1	1.5068	7.2061	1103.2	33.4562	9327.5	1.1481	1.1841	7.7027
5.0	5.8497	2323.3	1.5145	7.0059	1121.7	31.2566	9237.2	1.1520	1.1848	7.4702
5.5	5.7979	2304.1	1.5215	6.8292	1138.7	29.3130	9151.9	1.1559	1.1860	7.2659
6.0	5.7518	2287.0	1.5279	6.6722	1154.5	27.5842	9071.0	1.1599	1.1875	7.0850

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	0.706	3169.8	1466.7	2597.87	3.1853	7.0641	4.5283	1.7712	0.5646	1.1354
0.5	0.708	3133.3	1547.5	2736.56	3.1628	7.0755	4.4762	1.7684	0.5655	1.1188
1.0	0.707	3100.9	1615.8	2852.56	3.1404	7.0669	4.4298	1.7655	0.5664	1.1067
1.5	0.705	3071.4	1674.6	2950.98	3.1188	7.0465	4.3877	1.7624	0.5674	1.0974
2.0	0.702	3044.3	1725.4	3035.55	3.0984	7.0185	4.3490	1.7594	0.5684	1.0902
2.5	0.699	3019.1	1770.1	3108.48	3.0792	6.9858	4.3130	1.7563	0.5694	1.0843
3.0	0.695	2995.5	1809.9	3172.93	3.0610	6.9497	4.2793	1.7531	0.5704	1.0795
3.5	0.691	2973.1	1845.3	3229.21	3.0439	6.9113	4.2473	1.7499	0.5714	1.0754
4.0	0.687	2951.8	1877.2	3278.95	3.0277	6.8715	4.2169	1.7467	0.5725	1.0719
4.5	0.683	2931.4	1906.0	3323.13	3.0125	6.8305	4.1877	1.7435	0.5736	1.0689
5.0	0.679	2911.8	1932.2	3362.65	2.9977	6.7888	4.1597	1.7402	0.5746	1.0663
5.5	0.675	2892.8	1956.1	3397.57	2.9837	6.7465	4.1326	1.7369	0.5757	1.0639
6.0	0.670	2874.5	1978.1	3429.06	2.9705	6.7038	4.1064	1.7335	0.5769	1.0619

PI= 1.000

TI=200.0000 M= 0.

N	MU(H2O)	MU(OH)	MU(H2)	MU(O2)	MU(H)	MU(O)	MU(HE)	1/NF
0.	0.5469E 00	0.1358E-00	0.1605E-00	0.4708E-01	0.7416E-01	0.3553E-01	0.	0.4062
0.500	0.4658E-00	0.1089E-00	0.1304E-00	0.3870E-01	0.5852E-01	0.2779E-01	0.1700E-00	0.3399
1.000	0.4075E-00	0.0955E-01	0.1086E-00	0.3268E-01	0.4724E-01	0.2224E-01	0.2923E-00	0.2923
1.500	0.3636E-00	0.7505E-07	0.9214E-01	0.2795E-01	0.3875E-01	0.1810E-01	0.3845E-00	0.2563
2.000	0.3292E-00	0.6378E-01	0.7924E-01	0.2427E-01	0.3216E-01	0.1498E-01	0.4564E-00	0.2282
2.500	0.3016E-00	0.5477E-01	0.6846E-01	0.2129E-01	0.2692E-01	0.1237E-01	0.5142E 00	0.2057
3.000	0.2790F-00	0.4761E-01	0.6032E-01	0.1881E-01	0.2268E-01	0.1033E-01	0.5615E 00	0.1872
3.500	0.2600E-00	0.4190E-01	0.5317E-01	0.1672E-01	0.1919E-01	0.8673E-02	0.6010E 00	0.1717
4.000	0.2439E-00	0.3614E-01	0.4718E-01	0.1494E-01	0.1629E-01	0.7302E-02	0.6344E 00	0.1586
4.500	0.2300E-00	0.3174E-01	0.4188E-01	0.1339E-01	0.1386E-01	0.6168E-02	0.6630E 00	0.1473
5.000	0.2179E-00	0.2796E-01	0.3735E-01	0.1205E-01	0.1180E-01	0.5201E-02	0.6878E 00	0.1376
5.500	0.2072F-00	0.2467E-01	0.3337E-01	0.1084E-01	0.1006E-01	0.4392E-02	0.7094E 00	0.1290
6.000	0.1978E-00	0.2179F-01	0.2986E-01	0.9772E-02	0.8564E-02	0.3706E-02	0.7285E 00	0.1214

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.6660	-669.9	1.4247	12.0107	444.1	53.2588	9428.9	1.1508	1.2194	14.6964
0.5	6.6254	-645.8	1.4479	10.8667	470.7	44.6630	9283.2	1.1382	1.2087	12.9287
1.0	6.2615	-624.3	1.4671	10.0087	495.7	38.4758	9138.9	1.1452	1.2028	11.7004
1.5	6.1000	-609.1	1.4832	9.3414	515.8	33.7796	8997.4	1.1520	1.2001	10.7740
2.0	5.9868	-597.0	1.4968	8.8076	531.6	30.0808	8859.2	1.1586	1.1993	10.0502
2.5	5.8942	-587.0	1.5086	8.3788	547.4	27.0859	8729.8	1.1654	1.2002	9.4688
3.0	5.8170	-578.7	1.5189	8.0068	561.6	24.6843	8598.8	1.1722	1.2023	8.9915
3.5	5.7517	-571.7	1.5279	7.6988	574.5	22.5129	8468.1	1.1792	1.2054	8.5924
4.0	5.6958	-565.7	1.5358	7.4349	586.1	20.7221	8331.1	1.1864	1.2092	8.2537
4.5	5.6472	-560.5	1.5429	7.2061	596.7	19.1691	8203.5	1.1938	1.2138	7.9626
5.0	5.6048	-555.9	1.5493	7.0059	606.4	17.8185	8077.1	1.2015	1.2191	7.7095
5.5	5.5673	-551.9	1.5551	6.8292	615.4	16.6107	7951.5	1.2096	1.2251	7.4876
6.0	5.5341	-548.4	1.5603	6.6727	623.6	15.5446	7826.5	1.2178	1.2315	7.2912

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	28.480	3745.3	1591.1	2876.64	6.4724	28.4799	18.7265	1.8533	0.5396	1.2186
0.5	28.579	3680.2	1641.3	2892.88	6.4431	28.5793	18.4012	1.8478	0.5412	1.1898
1.0	28.537	3621.8	1716.6	3169.06	6.4067	28.5375	18.1049	1.8426	0.5427	1.1690
1.5	28.407	3566.8	1780.5	3271.72	6.3675	28.4071	17.8302	1.8375	0.5442	1.1534
2.0	28.220	3514.4	1835.4	3369.41	6.3268	28.2200	17.5722	1.8325	0.5457	1.1411
2.5	27.993	3465.4	1883.1	3461.35	6.2862	27.9928	17.3271	1.8275	0.5472	1.1312
3.0	27.737	3418.5	1925.0	3547.97	6.2458	27.7379	17.0925	1.8224	0.5487	1.1230
3.5	27.461	3373.7	1961.9	3629.17	6.2060	27.4611	16.8661	1.8172	0.5503	1.1161
4.0	27.169	3329.9	1994.7	3674.10	6.1665	27.1690	16.6464	1.8119	0.5519	1.1101
4.5	26.864	3286.4	2024.1	3696.99	6.1276	26.8637	16.4320	1.8065	0.5536	1.1050
5.0	26.548	3244.4	2050.4	3692.62	6.0892	26.5481	16.2220	1.8009	0.5553	1.1004
5.5	26.223	3203.1	2074.2	3729.61	6.0512	26.2231	16.0153	1.7952	0.5570	1.0964
6.0	25.891	3162.9	2095.6	3749.99	6.0135	25.8911	15.8119	1.7894	0.5588	1.0928

PI= 1.000

TI=299.1500 M= 0.

N	MU(H2O)	MU(OH)	MU(H2)	MU(O2)	MU(H)	MU(O)	MU(HE)	1/NF
0.	0.5116E 00	0.1368E-00	0.1637E-00	0.4865E-01	0.8088E-01	0.3844E-01	0.	0.4020
0.500	0.4350E-00	0.1102E-00	0.1336E-00	0.4016E-01	0.6433E-01	0.3031E-01	0.1685E-00	0.3369
1.000	0.3964E-00	0.9112E-01	0.1110E-00	0.3396E-01	0.5235E-01	0.2467E-01	0.2899E-00	0.2899
1.500	0.3536E-00	0.7678E-01	0.9528E-01	0.2927E-01	0.4331E-01	0.2008E-01	0.3817E-00	0.2545
2.000	0.3202E-00	0.6560E-01	0.8234E-01	0.2549E-01	0.3627E-01	0.1669E-01	0.4534E-00	0.2267
2.500	0.2933E-00	0.5666E-01	0.7191E-01	0.2246E-01	0.3064E-01	0.1399E-01	0.5111E 00	0.2044
3.000	0.2712E-00	0.4954E-01	0.6339E-01	0.1996E-01	0.2607E-01	0.1181E-01	0.5583E 00	0.1861
3.500	0.2527E-00	0.4326E-01	0.5614E-01	0.1782F-01	0.2229E-01	0.1002E-01	0.5978E 00	0.1708
4.000	0.2370E-00	0.3812E-01	0.5003F-01	0.1600E-01	0.1913F-01	0.8598E-02	0.6312E 00	0.1578
4.500	0.2234E-00	0.3373E-01	0.4477E-01	0.1442E-01	0.1647E-01	0.7393E-02	0.6599E 00	0.1466
5.000	0.2116F-00	0.2994E-01	0.4020E-01	0.1304E-01	0.1420E-01	0.6240E-02	0.6847E 00	0.1369
5.500	0.2013E-00	0.2664E-01	0.3618F-01	0.1182E-01	0.1226E-01	0.5345E-02	0.7065E 00	0.1285
6.000	0.1921E-00	0.2375E-01	0.3263F-01	0.1074E-01	0.1059E-01	0.4579E-02	0.7256E 00	0.1209

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.9350	0.	1.4016	12.0107	137.9	56.7199	9830.1	1.1289	1.2222	14.4864
0.5	6.6540	0.	1.4258	10.8667	170.1	47.6189	9694.0	1.1359	1.2105	12.8138
1.0	6.4439	0.	1.4459	10.0087	198.4	41.0881	9491.5	1.1426	1.2037	11.6079
1.5	6.2796	0.	1.4630	9.3414	221.1	36.0903	9339.5	1.1487	1.2001	10.6970
2.0	6.1485	0.	1.4776	8.8076	244.9	32.1774	9195.3	1.1549	1.1987	9.9844
2.5	6.0410	0.	1.4907	8.3788	664.3	29.0017	9057.7	1.1611	1.1988	9.4115
3.0	5.9516	0.	1.5015	8.0068	681.8	26.3764	8925.3	1.1674	1.2001	8.9408
3.5	5.8759	0.	1.5110	7.6988	697.5	24.1602	8797.1	1.1738	1.2024	8.5471
4.0	5.8111	0.	1.5197	7.4349	711.8	22.2650	8672.2	1.1803	1.2055	8.2128
4.5	5.7569	0.	1.5274	7.2061	724.9	20.6204	8550.1	1.1871	1.2093	7.9294
5.0	5.7057	0.	1.5344	7.0059	736.8	19.1820	8430.2	1.1941	1.2138	7.6756
5.5	5.6623	0.	1.5407	6.8292	747.8	17.9092	8312.1	1.2013	1.2188	7.4564
6.0	5.6237	0.	1.5464	6.6727	758.0	16.7796	8195.5	1.2088	1.2243	7.2624

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	18.820	3680.7	1544.1	2899.62	5.2795	18.8202	12.3452	1.8388	0.5438	1.2061
0.5	18.884	3620.5	1633.5	2995.51	5.2523	18.8841	12.1402	1.8337	0.5453	1.1792
1.0	18.860	3565.8	1704.2	3124.16	5.2205	18.8604	11.9599	1.8289	0.5468	1.1584
1.5	18.783	3515.3	1771.6	3231.86	5.1868	18.7831	11.7905	1.8242	0.5482	1.1431
2.0	18.670	3468.1	1826.3	3322.98	5.1528	18.6709	11.6320	1.8195	0.5496	1.1336
2.5	18.533	3423.6	1873.9	3400.74	5.1191	18.5334	11.4820	1.8148	0.5510	1.1243
3.0	18.379	3380.6	1915.7	3467.55	5.0861	18.3794	11.3387	1.8100	0.5525	1.1167
3.5	18.219	3339.6	1952.8	3525.11	5.0537	18.2131	11.2010	1.8052	0.5540	1.1102
4.0	18.057	3299.9	1985.7	3574.83	5.0220	18.0574	11.0678	1.8002	0.5555	1.1046
4.5	17.894	3261.7	2015.3	3617.99	4.9910	17.8942	10.9382	1.7952	0.5570	1.0998
5.0	17.665	3223.5	2041.9	3655.21	4.9606	17.6649	10.8117	1.7901	0.5586	1.0956
5.5	17.471	3186.5	2066.0	3687.47	4.9307	17.4708	10.6875	1.7848	0.5603	1.0918
6.0	17.272	3150.1	2087.9	3715.19	4.9013	17.2722	10.5653	1.7794	0.5620	1.0884

PI= 1.000

TI=900.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.5113E 00	0.1368E-00	0.1637E-00	0.4868E-01	0.8099E-01	0.3848E-01	0.	0.4020
0.500	0.4528E-00	0.1102E-00	0.1336E-00	0.4018E-01	0.6643E-01	0.3035E-01	0.1684E-00	0.3369
1.000	0.3962E-00	0.9115E-01	0.1118E-00	0.3398E-01	0.5244E-01	0.2451E-01	0.2899E-00	0.2899
1.500	0.3534E-00	0.7680E-01	0.9533E-01	0.2925E-01	0.4339E-01	0.2012E-01	0.3817E-00	0.2544
2.000	0.3200E-00	0.6565E-01	0.8239E-01	0.2551F-01	0.3634E-01	0.1672E-01	0.4534E-00	0.2267
2.500	0.2951E-00	0.5669E-01	0.7196E-01	0.2274E-01	0.3071E-01	0.1402E-01	0.5110E 00	0.2044
3.000	0.2710E-00	0.4938E-01	0.6331E-01	0.1996E-01	0.2863E-01	0.6588E-02	0.5888E 00	0.1889
3.500	0.2526E-00	0.4329E-01	0.5619E-01	0.1784E-01	0.2234E-01	0.1005E-01	0.5977E 00	0.1708
4.000	0.2368E-00	0.3816E-01	0.5008E-01	0.1602E-01	0.1918F-01	0.8561E-02	0.6312E 00	0.1578
4.500	0.2239E-00	0.3377E-01	0.4482E-01	0.1444E-01	0.1652E-01	0.7313E-02	0.6598E 00	0.1466
5.000	0.2115E-00	0.2998E-01	0.4024E-01	0.1306E-01	0.1425E-01	0.6259E-02	0.6847E 00	0.1369
5.500	0.2012E-00	0.2668E-01	0.3623E-01	0.1184E-01	0.1230E-01	0.5362E-02	0.7064E 00	0.1284
6.000	0.1920E-00	0.2378E-01	0.3268E-01	0.1075E-01				

N	CPI	MI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.9371	12.8	1.4015	12.0107	539.5	56.7725	9838.4	1.1289	1.2223	14.4839
0.5	6.6558	12.3	1.4256	10.8667	572.1	47.6682	9661.7	1.1359	1.2105	12.8118
1.0	6.4448	11.9	1.4458	10.0087	600.3	41.1062	9498.8	1.1423	1.2037	11.6063
1.5	6.2808	11.6	1.4628	9.3414	625.0	36.1261	9346.3	1.1486	1.2001	10.6957
2.0	6.1495	11.4	1.4774	8.8076	646.9	32.2093	9202.2	1.1548	1.1987	9.9833
2.5	6.0421	11.2	1.4901	8.3708	666.3	29.0362	9064.5	1.1610	1.1988	9.4105
3.0	5.9526	11.0	1.5011	8.0068	683.8	26.4061	8932.0	1.1673	1.2001	8.9400
3.5	5.8769	10.9	1.5109	7.6988	699.7	24.1887	8803.8	1.1737	1.2024	8.5483
4.0	5.8120	10.7	1.5196	7.4349	714.0	22.2902	8679.2	1.1802	1.2054	8.2121
4.5	5.7557	10.6	1.5273	7.2061	727.1	20.6441	8557.1	1.1870	1.2093	7.9248
5.0	5.7065	10.5	1.5343	7.0059	739.1	19.2054	8437.2	1.1940	1.2137	7.6750
5.5	5.6630	10.5	1.5406	6.8292	750.1	17.9332	8319.1	1.2012	1.2187	7.4558
6.0	5.6244	10.4	1.5463	6.6722	760.9	16.7994	8202.7	1.2086	1.2242	7.2619

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	18.700	9679.8	1544.2	2839.02	5.2624	18.6996	12.2659	1.8385	0.5439	1.2059
0.5	18.769	9619.6	1633.5	2994.92	5.2354	18.7629	12.0653	1.8335	0.5454	1.1790
1.0	18.740	9565.0	1708.1	3129.50	5.2035	18.7397	11.8834	1.8287	0.5468	1.1596
1.5	18.663	9514.6	1771.5	3251.14	5.1699	18.6628	11.7154	1.8239	0.5483	1.1450
2.0	18.551	9467.4	1826.2	3322.30	5.1361	18.5509	11.5580	1.8193	0.5497	1.1335
2.5	18.415	9422.7	1873.8	3400.08	5.1026	18.4149	11.4091	1.8145	0.5511	1.1242
3.0	18.263	9380.1	1914.6	3466.81	5.0696	18.2625	11.2670	1.8098	0.5526	1.1165
3.5	18.098	9339.1	1952.6	3524.38	5.0373	18.0976	11.1306	1.8049	0.5540	1.1101
4.0	17.923	9299.5	1985.6	3574.19	5.0058	17.9235	10.9982	1.8000	0.5555	1.1045
4.5	17.741	9260.9	2015.2	3617.29	4.9749	17.7415	10.8697	1.7950	0.5571	1.0997
5.0	17.553	9223.2	2041.9	3654.59	4.9446	17.5534	10.7441	1.7898	0.5587	1.0955
5.5	17.361	9186.3	2066.0	3686.80	4.9148	17.3609	10.6210	1.7846	0.5604	1.0917
6.0	17.164	9149.9	2087.8	3714.61	4.8856	17.1643	10.4998	1.7792	0.5621	1.0884

PI= 1.000

TI=400.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.5185F 00	0.1977E-00	0.1662F-00	0.4988E-01	0.8670E-01	0.4097E-01	0.	0.3985
0.500	0.4619E-00	0.1714E-00	0.1462E-00	0.4131E-01	0.6943E-01	0.3254E-01	0.1671E-00	0.3343
1.000	0.3967F-00	0.9255E-01	0.1144E-00	0.3906E-01	0.5690E-01	0.2646F-01	0.2879E-00	0.2879
1.500	0.3449E-00	0.7892E-01	0.9790E-01	0.302ME-01	0.4742F-01	0.2189E-01	0.3793E-00	0.2528
2.000	0.3122E-00	0.6723E-01	0.8494E-01	0.2650E-01	0.4000E-01	0.1833E-01	0.4508E-00	0.2254
2.500	0.2859E-00	0.5835E-01	0.7450F-01	0.2343E-01	0.3407E-01	0.1550E-01	0.5083E 00	0.2033
3.000	0.2649E-00	0.5107E-01	0.6590F-01	0.2089E-01	0.2922E-01	0.1320E-01	0.5555E 00	0.1852
3.500	0.2461E-00	0.4502E-01	0.5869F-01	0.1874E-01	0.2521F-01	0.1130F-01	0.5949E 00	0.1700
4.000	0.2307E-00	0.3990E-01	0.5256E-01	0.1690E-01	0.2184E-01	0.9724E-02	0.6283E 00	0.1571
4.500	0.2175E-00	0.3552E-01	0.4728F-01	0.1531E-01	0.1898E-01	0.8391E-02	0.6570E 00	0.1460
5.000	0.2059E-00	0.3174F-01	0.4269E-01	0.1391E-01	0.1654E-01	0.7261E-02	0.6819E 00	0.1364
5.500	0.1954E-00	0.2844E-01	0.3865F-01	0.1268E-01	0.1444E-01	0.6291E-02	0.7037E 00	0.1279
6.000	0.1868E-00	0.2554E-01	0.3508E-01	0.1158F-01	0.1263E-01	0.5460F-02	0.7229E 00	0.1205

N	CPI	MI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.0489	712.6	1.3926	12.0107	621.0	59.5588	10316.7	1.1276	1.2269	14.3577
0.5	6.7516	689.1	1.4171	10.8667	659.6	50.0775	10104.0	1.1342	1.2124	12.7139
1.0	6.5287	668.9	1.4376	10.0087	691.2	43.2390	9917.4	1.1404	1.2049	11.5268
1.5	6.3553	651.7	1.4549	9.3414	719.7	38.0482	9749.7	1.1463	1.2007	10.6288
2.0	6.2166	636.0	1.4698	8.8076	745.0	33.9639	9595.5	1.1521	1.1987	9.9257
2.5	6.1031	621.7	1.4828	8.3708	767.6	30.6546	9451.5	1.1580	1.1982	9.3600
3.0	6.0085	609.3	1.4942	8.0068	787.8	27.9162	9315.7	1.1638	1.1990	8.8950
3.5	5.9285	598.1	1.5042	7.6988	806.1	25.6060	9186.2	1.1698	1.2007	8.5058
4.0	5.8599	588.5	1.5131	7.4349	822.7	23.6289	9061.8	1.1759	1.2032	8.1753
4.5	5.8004	580.6	1.5211	7.2061	837.9	21.9158	8941.9	1.1820	1.2063	7.8910
5.0	5.7484	573.5	1.5283	7.0059	851.8	20.4162	8825.2	1.1884	1.2101	7.6439
5.5	5.7025	578.9	1.5349	6.8292	864.6	19.0908	8711.4	1.1950	1.2144	7.4270
6.0	5.6617	576.9	1.5408	6.6722	876.4	17.9101	8599.8	1.2018	1.2191	7.2351

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	19.864	9636.8	1541.0	2809.17	4.5237	19.8645	9.0921	1.8229	0.5486	1.1954
0.5	19.910	9580.2	1629.6	2963.13	4.4996	19.9101	8.9506	1.8183	0.5500	1.1700
1.0	19.899	9528.1	1703.8	3090.35	4.4713	19.8949	8.8227	1.8138	0.5513	1.1517
1.5	19.843	9482.0	1767.0	3197.15	4.4422	19.8826	8.7050	1.8093	0.5527	1.1378
2.0	19.766	9438.0	1821.6	3287.78	4.4131	19.7659	8.5951	1.8049	0.5540	1.1269
2.5	19.673	9396.6	1869.2	3365.33	4.3845	19.6726	8.4915	1.8004	0.5554	1.1182
3.0	19.568	9357.7	1911.1	3432.16	4.3566	19.5679	8.3929	1.7959	0.5568	1.1109
3.5	19.455	9319.6	1948.7	3489.93	4.3296	19.4548	8.2984	1.7913	0.5582	1.1048
4.0	19.336	9282.9	1981.4	3540.12	4.3029	19.3356	8.2072	1.7867	0.5597	1.0996
4.5	19.212	9247.6	2011.1	3583.81	4.2772	19.2120	8.1189	1.7820	0.5612	1.0951
5.0	19.084	9213.2	2038.0	3621.92	4.2522	19.0841	8.0329	1.7772	0.5627	1.0911
5.5	18.953	9179.5	2062.4	3655.08	4.2276	18.9533	7.9488	1.7722	0.5643	1.0875
6.0	18.820	9146.4	2084.6	3683.99	4.2036	18.8199	7.8663	1.7672	0.5659	1.0844

PI= 1.000

TI=500.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.5072E 00	0.1986E-00	0.1684E-00	0.50R7E-01	0.9179E-01	0.6321E-01	0.	0.3956
0.500	0.4523E-00	0.1126E-00	0.1384E-00	0.4225E-01	0.7394E-01	0.3453E-01	0.1660E-00	0.3520
1.000	0.3782F-00	0.9984E-01	0.1166E-00	0.3596F-01	0.6096E-01	0.2826E-01	0.2861F-00	0.2861
1.500	0.3173E-00	0.7971E-01	0.1001F-00	0.3115E-01	0.5111E-01	0.2352E-01	0.4771E-00	0.2514
2.000	0.3052E-00	0.6R69F-01	0.R715E-01	0.2734F-01	0.4340F-01	0.1983E-01	0.6484E-00	0.2242
2.500	0.2794F-00	0.5985F-01	0.7670F-01	0.2425E-01	0.3720E-01	0.1689E-01	0.5057E 00	0.2023
3.000	0.2581E-00	0.5261E-01	0.6R10F-01	0.2169E-01	0.3214E-01	0.1449E-01	0.5529E 00	0.1843
3.500	0.2403E-00	0.4658E-01	0.60R8E-01	0.1952E-01	0.2793E-01	0.1251E-01	0.5923E 00	0.1692
4.000	0.2252E-00	0.414RE-01	0.5474E-01	0.1767E-01	0.243BE-01	0.10R5E-01	0.6257E 00	0.1564
4.500	0.2127F-00	0.3712E-01	0.4945F-01	0.1607F-01	0.2137F-01	0.9443E-02	0.6544E 00	0.1454
5.000	0.200AE-00	0.3334F-01	0.4485F-01	0.1466E-01	0.1878E-01	0.8244E-02	0.6793F 00	0.1359
5.500	0.1908E-00	0.3004E-01	0.4081F-01	0.1342E-01	0.1655F-01	0.7215E-02	0.7011F 00	0.1275
6.000	0.1A20E-00	0.2714E-01	0.3723F-01	0.1232E-01	0.1460E-01	0.6324E-02	0.7204E 00	0.1201

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.1393	1422.0	1.3857	12.0107	692.6	61.9319	10827.1	1.1267	1.2275	14.2657
0.5	6.R291	1362.1	1.4104	10.8667	734.6	52.1615	10576.3	1.1330	1.2143	12.6264
1.0	6.5965	1317.2	1.4311	10.00R7	771.0	45.0782	10364.5	1.1389	1.2063	11.4551
1.5	6.4156	1282.3	1.44R7	9.3614	R03.0	39.7195	10178.R	1.1446	1.2016	10.5682
2.0	6.270R	1254.3	1.4639	R.R076	831.3	35.5039	10012.4	1.1501	1.1991	9.8732
2.5	6.1524	1231.5	1.4771	R.370R	R56.5	32.0913	9860.3	1.1556	1.1982	9.3137
3.0	6.0537	1212.4	1.4887	R.006R	879.2	29.2616	9718.9	1.1611	1.1985	R.8535
3.5	5.9702	1196.3	1.4989	7.69RR	R99.7	26.8775	9586.3	1.1667	1.1997	R.4683
4.0	5.R9R6	1182.5	1.5080	7.4349	918.3	24.8372	9460.5	1.1724	1.2017	R.1410
4.5	5.R366	1170.5	1.5162	7.2061	935.9	23.0684	9340.3	1.1781	1.2043	7.8594
5.0	5.7823	1160.0	1.5236	7.0059	950.9	21.5217	9224.7	1.1841	1.2075	7.6146
5.5	5.7344	1150.R	1.5303	6.8292	965.2	20.1537	9113.0	1.1901	1.2112	7.3998
6.0	5.6918	1142.5	1.5364	6.6722	978.4	18.9361	9004.4	1.1963	1.2154	7.2096

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	10.9R6	3605.9	1539.9	27R2.16	4.0172	10.9857	7.2117	1.8068	0.5535	1.1861
0.5	11.021	3552.1	162R.0	2936.46	3.99RR	11.0208	7.1043	1.8025	0.5548	1.1619
1.0	11.010	3509.7	1701.9	3060.47	3.9695	11.0101	7.0074	1.7983	0.5561	1.1445
1.5	10.971	3459.3	1765.0	3166.45	3.9435	10.9713	6.91R6	1.7940	0.5574	1.1313
2.0	10.915	3418.0	1819.5	3256.50	3.9176	10.9146	6.R359	1.7898	0.5587	1.1210
2.5	10.846	3379.1	1867.1	3333.79	3.R924	10.8457	6.7582	1.7856	0.5600	1.1126
3.0	10.768	3342.2	1909.1	3400.51	3.8679	10.7681	6.6845	1.7812	0.5614	1.1057
3.5	10.685	3307.0	1946.4	3458.68	3.8442	10.6846	6.6140	1.7769	0.5628	1.0999
4.0	10.597	3273.2	1979.7	3508.97	3.8212	10.5968	6.5463	1.7725	0.5642	1.0950
4.5	10.506	3240.4	2009.7	3553.07	3.7990	10.5057	6.4809	1.7680	0.5656	1.0907
5.0	10.412	3208.6	2036.R	3591.75	3.7774	10.4118	6.4173	1.7634	0.5671	1.0869
5.5	10.316	3177.7	2061.4	3625.61	3.7564	10.3161	6.3554	1.7588	0.5686	1.0835
6.0	10.219	3147.4	2083.8	3655.26	3.7359	10.2185	6.2948	1.7541	0.5701	1.0805

PI= 1.000

TI=600.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.496RF-00	0.1995F-00	0.1702E-00	0.5171E-01	0.9652E-01	0.4529E-01	0.	0.3925
0.500	0.4235F-00	0.1137F-00	0.1401F-00	0.4307E-01	0.7817F-01	0.3640E-01	0.1649E-00	0.3298
1.000	0.3704E-00	0.9505E-01	0.1186E-00	0.3674F-01	0.6479E-01	0.2996E-01	0.2845E-00	0.2845
1.500	0.3302F-00	0.8101F-01	0.1021F-00	0.3191E-01	0.5462E-01	0.2508E-01	0.3751E-00	0.2501
2.000	0.2987E-00	0.7006E-01	0.R914E-01	0.2808E-01	0.4664E-01	0.212RE-01	0.4462E-00	0.2231
2.500	0.2733F-00	0.6174E-01	0.7869E-01	0.2497E-01	0.4022E-01	0.1823E-01	0.5036E 00	0.2013
3.000	0.2526F-00	0.5496E-01	0.7008E-01	0.2240E-01	0.3496E-01	0.1574E-01	0.5504E 00	0.1835
3.500	0.2349F-00	0.4R03E-01	0.6286F-01	0.2022F-01	0.3057E-01	0.1368E-01	0.5898E 00	0.1685
4.000	0.2200F-00	0.4295F-01	0.5672E-01	0.1836E-01	0.2687E-01	0.1195E-01	0.6232E 00	0.1558
4.500	0.2071E-00	0.3859E-01	0.5143E-01	0.1675E-01	0.2372E-01	0.1048E-01	0.6519E 00	0.1449
5.000	0.1960E-00	0.3482F-01	0.4682E-01	0.1534E-01	0.2100E-01	0.9226E-02	0.6768E 00	0.1354
5.500	0.1R62F-00	0.3154F-01	0.4277E-01	0.1410E-01	0.1865F-01	0.8141E-02	0.6986E 00	0.1270
6.000	0.1775F-00	0.2R63E-01	0.3919E-01	0.1299E-01	0.1659E-01	0.719RE-02	0.7179E 00	0.1197

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.2295	2140.4	1.3791	12.0107	756.R	64.0358	11358.0	1.1259	1.2300	14.1424
0.5	6.9065	2048.9	1.4040	10.8667	802.R	53.9862	11067.1	1.1321	1.2163	12.5452
1.0	6.6642	1980.2	1.4249	10.0087	842.7	46.7373	10828.0	1.1378	1.2078	11.3883
1.5	6.4757	1926.R	1.4427	9.3414	877.R	41.2379	10623.5	1.1432	1.2027	10.5115
2.0	6.3250	1884.1	1.4581	R.8076	90R.R	36.9076	10449.5	1.1485	1.1998	9.8238
2.5	6.2016	1849.1	1.4715	R.370R	936.5	33.4011	10281.5	1.1537	1.1985	9.2700
3.0	6.09RR	1820.0	1.4839	R.006R	961.4	30.4987	10133.5	1.1589	1.1983	R.R162
3.5	6.011R	1795.4	1.4959	7.69RR	983.R	28.0526	9996.5	1.1642	1.1991	R.4326
4.0	5.9373	1774.2	1.5031	7.4349	1004.9	25.9599	9867.5	1.1695	1.2007	R.1082
4.5	5.R727	1755.9	1.5114	7.2061	1022.9	24.1440	9746.0	1.1749	1.2029	7.8292
5.0	5.R161	1739.9	1.5190	7.0059	1040.0	22.5584	9630.2	1.1804	1.2057	7.5865
5.5	5.7663	1725.R	1.525R	6.8292	1055.R	21.1555	9519.1	1.1861	1.2089	7.3795
6.0	5.7219	1713.2	1.5921	6.6722	1070.9	19.9069	9412.1	1.1918	1.2125	7.1R50

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	9.07R	3582.9	1539.9	2756.99	3.6427	9.0778	5.9705	1.7909	0.5586	1.1775
0.5	9.106	3531.0	1627.7	2907.56	3.6216	9.1058	5.8850	1.7869	0.5598	1.1545
1.0	9.098	3484.9	1701.4	3032.45	3.59M3	9.0977	5.80M1	1.7829	0.5611	1.1378
1.5	9.068	3442.7	1766.4	3137.60	3.5745	9.0676	5.7378	1.7789	0.5623	1.1251
2.0	9.029	3403.6	1R1R.9	3227.15	3.5510	9.0232	5.6726	1.7742	0.5636	1.115.
2.5	R.970	3366.9	1866.6	3304.06	3.52M2	R.9695	5.6115	1.7701	0.5649	1.10 .
3.0	R.909	3332.2	190R.7	3370.70	3.5062	R.9095	5.5537	1.7660	0.5662	1.1008
3.5	R.R45	3299.2	1946.0	3428.69	3.4R50	R.8449	5.4986	1.7618	0.5676	1.0953
4.0	R.777	3267.5	1979.6	3479.32	3.4645	R.7767	5.4458	1.7576	0.5690	1.0906
4.5	R.706	3237.0	2009.7	3523.75	3.4448	R.7063	5.3949	1.7535	0.5703	1.0865
5.0	R.634	3207.4	2037.0	3562.83	3.1257	R.6342	5.3457	1.7490	0.5717	1.0829
5.5	R.560	3178.7	2061.9	3597.19	3.4072	R.5605	5.2978	1.7446	0.5732	1.0797
6.0	R.4R6	3150.7	2084.5	3627.69	3.3892	R.4R5R	5.2511	1.7402	0.5746	1.0769

PI= 1.000

TI=700.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.4870E-00	0.1403E-00	0.1719E-00	0.5246E-01	0.1010E-00	0.4729E-01	0.	0.3898
0.500	0.4152E-00	0.1147E-00	0.1420E-00	0.4379E-01	0.8220E-01	0.3820E-01	0.1639E-00	0.3278
1.000	0.3690E-00	0.9670F-01	0.1204E-00	0.3765E-01	0.6847E-01	0.3160E-01	0.2829E-00	0.2829
1.500	0.3295F-00	0.8223E-01	0.1019E-00	0.3259E-01	0.5801E-01	0.2660E-01	0.3732E-00	0.2488
2.000	0.2925F-00	0.7132E-01	0.9095E-01	0.2875E-01	0.4979E-01	0.2269E-01	0.4440E-00	0.2220
2.500	0.2675E-00	0.6256E-01	0.8051F-01	0.2563E-01	0.4317E-01	0.1955E-01	0.5011E 00	0.2004
3.000	0.2469F-00	0.5531RE-01	0.7190F-01	0.2305E-01	0.3772E-01	0.1698E-01	0.5481E 00	0.1827
3.500	0.2297E-00	0.4919F-01	0.6468F-01	0.2086E-01	0.3318E-01	0.1485E-01	0.5874E 00	0.1678
4.000	0.2150E-00	0.4412F-01	0.5854F-01	0.1900E-01	0.2934F-01	0.1305E-01	0.6207F 00	0.1552
4.500	0.2024E-00	0.199RE-01	0.5325E-01	0.1738E-01	0.2606E-01	0.1159E-01	0.6494E 00	0.1443
5.000	0.1916F-00	0.1622E-01	0.4864E-01	0.1597F-01	0.2323E-01	0.1021E-01	0.6744E 00	0.1349
5.500	0.1817F-00	0.3293F-01	0.4459F-01	0.1472E-01	0.2076E-01	0.9078E-02	0.6962E 00	0.1266
6.000	0.1732E-00	0.3004E-01	0.4101F-01	0.1360E-01	0.1861E-01	0.8089E-02	0.7155E 00	0.1192

N	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	7.3192	2867.9	1.3727	12.0107	815.6	69.9490	11902.4	1.1254	1.2325	14.0449
0.5	6.9833	2763.4	1.3977	10.8667	865.2	55.6790	11570.8	1.1313	1.2183	12.4682
1.0	6.7314	2650.0	1.4189	10.0087	908.9	48.2681	11303.9	1.1368	1.2094	11.3247
1.5	6.5355	2577.4	1.4369	9.3414	946.2	42.6415	11078.6	1.1421	1.2039	10.4573
2.0	6.3787	2519.3	1.4525	8.8076	979.7	38.2143	10883.8	1.1472	1.2006	9.7765
2.5	6.2505	2471.8	1.4661	8.3708	1009.6	34.6287	10711.3	1.1521	1.1990	9.2279
3.0	6.1436	2432.2	1.4781	8.006R	1036.6	31.6605	10555.2	1.1571	1.1985	R.7763
3.5	6.0532	2398.7	1.4887	7.69RR	1060.9	29.15RR	10412.9	1.1621	1.1990	R.39R1
4.0	5.9757	2370.0	1.4982	7.4349	1089.0	27.019R	10279.R	1.1672	1.2002	R.0765
4.5	5.9085	2345.1	1.5068	7.2061	1103.2	25.1837	10155.7	1.1723	1.2020	7.799R
5.0	5.8497	2323.3	1.5145	7.0059	1121.7	23.5452	10038.6	1.1774	1.2043	7.5591
5.5	5.7979	2304.1	1.5215	6.8292	1138.7	22.1111	9927.2	1.1826	1.2071	7.347R
6.0	5.751R	2287.0	1.5279	6.6722	1154.5	20.8354	9820.7	1.18R0	1.2105	7.1609

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	7.721	3563.R	1540.9	2752.72	3.3506	7.7212	5.0911	1.7735	0.5639	1.1694
0.5	7.744	3514.5	162R.4	28R1.82	3.3307	7.7443	5.0207	1.769R	0.5650	1.1474
1.0	7.738	3470.4	1701.9	3005.53	3.30RR	7.7377	4.9577	1.7659	0.5663	1.1315
1.5	7.719	3430.2	1764.9	3109.86	3.2R67	7.7139	4.9002	1.7621	0.5675	1.1195
2.0	7.677	3393.0	1819.4	3198.83	3.2651	7.6774	4.8471	1.7582	0.56RR	1.1100
2.5	7.634	3358.2	1867.1	3275.43	3.2441	7.6343	4.7974	1.7543	0.5700	1.1024
3.0	7.586	3325.4	1909.3	3341.83	3.2240	7.585R	4.7506	1.7503	0.5713	1.0961
3.5	7.534	3294.2	1946.9	3399.79	3.2047	7.5338	4.7061	1.7463	0.5726	1.0908
4.0	7.479	3264.5	1980.5	3450.54	3.1861	7.4794	4.6635	1.7422	0.5740	1.0863
4.5	7.423	3235.8	2010.9	3495.17	3.1683	7.4231	4.6226	1.7381	0.5753	1.0824
5.0	7.366	3208.2	2038.3	3534.94	3.1511	7.3656	4.5831	1.7340	0.5767	1.0790
5.5	7.307	3181.4	2063.3	3569.29	3.1345	7.3071	4.5449	1.7299	0.57R1	1.0759
6.0	7.248	3155.4	2086.2	3600.10	3.1184	7.2478	4.5077	1.7256	0.5795	1.0732

PI= 10.000

TI=200.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6069F 00	0.1935E-00	0.1461F-00	0.3954E-01	0.4915E-01	0.2481E-01	0.	0.4222
0.500	0.5194E 00	0.1654E-00	0.1248F-00	0.3206E-01	0.3792E-01	0.1897E-01	0.1755E-00	0.3509
1.000	0.4470E-00	0.8597E-01	0.9589E-01	0.2667E-01	0.2996E-01	0.1484E-01	0.3003E-00	0.3003
1.500	0.3973F-00	0.7049E-01	0.8020F-01	0.2258E-01	0.2401E-01	0.1180E-01	0.3936E-00	0.2624
2.000	0.3587E-00	0.5899E-01	0.6799E-01	0.1937E-01	0.1947E-01	0.9486E-02	0.4660E-00	0.2330
2.500	0.327RE-00	0.49R7E-01	0.5R23E-01	0.167RE-01	0.1591E-01	0.7844E-02	0.5237E 00	0.2095
3.000	0.3025E-00	0.424RE-01	0.5025F-01	0.1465E-01	0.1308E-01	0.6257E-02	0.570RE 00	0.1903
3.500	0.2813E-00	0.3639E-01	0.4362F-01	0.1285E-01	0.1078E-01	0.5119E-02	0.6099E 00	0.1743
4.000	0.2633E-00	0.3129E-01	0.3802F-01	0.1132E-01	0.8911E-02	0.4186E-02	0.6429E 00	0.1607
4.500	0.2478E-00	0.2699E-01	0.3325E-01	0.1001E-01	0.7370E-02	0.3429E-02	0.6711E 00	0.1491
5.000	0.2343E-00	0.2332E-01	0.2914F-01	0.8860E-02	0.6089E-02	0.2809E-0.	0.6954E 00	0.1391
5.500	0.2224E-00	0.2017F-01	0.2557E-01	0.7856F-02	0.5037E-02	0.229RE-02	0.7166E 00	0.1303
6.000	0.2118E-00	0.1745F-01	0.2246E-01	0.6970F-02	0.4156F-02	0.1876F-02	0.7353E 00	0.1225

N	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM*	M
0.	6.6660	-669.9	1.4247	12.0107	644.1	38.8616	10679.4	1.1426	1.2133	15.2110
0.5	6.4234	-643.R	1.4479	10.8667	670.7	32.721R	10461.R	1.1530	1.2046	13.3472
1.0	6.2415	-624.3	1.4671	10.0087	691.7	28.3111	10249.0	1.1626	1.2075	12.0216
1.5	6.1000	-609.1	1.4832	9.3414	519.R	24.9742	10042.1	1.1717	1.2088	11.0300
2.0	5.9868	-597.0	1.496R	R.R076	531.6	22.3529	9841.0	1.1807	1.2117	10.2598
2.5	5.8942	-587.0	1.5086	R.370R	547.4	20.2321	9645.0	1.1897	1.2159	9.6441
3.0	5.8170	-578.7	1.5189	R.006R	561.6	18.4745	9453.9	1.19RR	1.2211	9.1405
3.5	5.7517	-571.7	1.5279	7.69RR	574.5	16.9935	9266.7	1.2080	1.2271	R.7206
4.0	5.695R	-565.7	1.5358	7.4349	586.1	15.7295	9082.9	1.2174	1.2339	R.3651
4.5	5.6472	-560.5	1.5429	7.2061	596.7	14.6347	R902.3	1.2270	1.2413	R.0601
5.0	5.604R	-555.9	1.5493	7.0059	606.4	13.6780	8724.6	1.2369	1.2492	7.7955
5.5	5.5671	-551.9	1.5551	6.R292	615.4	12.8359	8548.R	1.2471	1.2578	7.5637
6.0	5.5341	-548.4	1.5603	6.6722	623.6	12.0R93	8375.1	1.2576	1.266R	7.35RR

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	307.147	4212.R	1622.1	2995.55	6.7446	30.7147	21.0641	1.8467	0.5415	1.2665
0.5	308.646	4122.4	1720.7	3164.77	6.7233	30.8646	20.6121	1.8392	0.5437	1.2283
1.0	308.111	4039.6	1802.2	3302.19	6.6885	30.8111	20.1978	1.8323	0.5458	1.2011
1.5	306.317	3962.4	1870.R	3415.42	6.6467	30.6317	19.8122	1.8256	0.5478	1.1808
2.0	303.705	3889.7	1929.2	3509.38	6.6014	30.3705	19.4486	1.8191	0.5497	1.1649
2.5	300.529	3820.5	1979.6	3588.13	6.5543	30.0529	19.1026	1.8126	0.5517	1.1521
3.0	296.971	3754.1	2023.3	3654.31	6.5064	29.6971	18.7707	1.8061	0.5537	1.1416
3.5	293.129	3690.1	2061.5	3709.97	6.4580	29.3129	18.4504	1.7996	0.5557	1.1327
4.0	289.068	3627.9	2095.2	3756.76	6.4097	28.9068	18.1394	1.7930	0.5577	1.1251
4.5	284.859	3567.1	2124.9	3796.91	6.3614	28.4859	17.8364	1.7864	0.559R	1.1185
5.0	280.527	3508.0	2151.3	3828.49	6.3133	28.0527	17.5399	1.7796	0.5619	1.1127
5.5	276.097	3449.R	2174.7	3855.38	6.2653	27.6097	17.2489	1.7728	0.5641	1.1075
6.0	271.594	3392.5	2195.6	3877.16	6.2175	27.1594	16.9625	1.7659	0.5663	1.1029

PI= 10.000

TI=298.1500 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.5879E 00	0.136AE-00	0.1511E-00	0.4133E-01	0.5514E-01	0.2765E-01	0.	0.4175
0.500	0.4980E-00	0.1046E-00	0.1216E-00	0.3369E-01	0.4296E-01	0.2135E-01	0.1738E-00	0.3477
1.000	0.4399F-00	0.885AE-01	0.1004F-00	0.2817E-01	0.3625E-01	0.1688E-01	0.2978E-00	0.2978
1.500	0.3859E-00	0.7362E-01	0.8465E-01	0.2399E-01	0.2776E-01	0.1357E-01	0.3908E-00	0.2605
2.000	0.3485F-00	0.6204E-01	0.7204E-01	0.2068E-01	0.2276E-01	0.1103E-01	0.4629E-00	0.2315
2.500	0.3186E-00	0.528AF-01	0.6210E-01	0.1802E-01	0.1881E-01	0.9044E-02	0.5206E 00	0.2082
3.000	0.2940E-00	0.4536F-01	0.5396F-01	0.1582F-01	0.1565E-01	0.7460E-02	0.5677E 00	0.1892
3.500	0.2735F-00	0.3917E-01	0.4717F-01	0.1397E-01	0.1307E-01	0.6179E-02	0.6069E 00	0.1734
4.000	0.2561E-00	0.3399E-01	0.4144F-01	0.1240I-01	0.1095E-01	0.5133E-02	0.6400E 00	0.1600
4.500	0.2411E-00	0.2959E-01	0.3654E-01	0.1103I-01	0.9192E-02	0.4271E-02	0.66H3E 00	0.1485
5.000	0.22R0E-00	0.25R2E-01	0.3230E-01	0.9849E-02	0.7722E-02	0.3556E-02	0.69.7E 00	0.1385
5.500	0.2165E-00	0.2258E-01	0.2862I-01	0.8807E-02	0.6488E-02	0.2961E-02	0.71*0E 00	0.1298
6.000	0.2063E-00	0.1976F-01	0.2539E-01	0.7884F-02	0.5448E-02	0.2463E-02	0.732HE 00	0.1221

N	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM0	M
0.	6.9350	0.	1.4016	12.0107	537.9	41.3518	11096.1	1.1411	1.2166	15.0443
0.5	6.6540	0.	1.4258	10.8667	570.3	34.8412	10848.8	1.1507	1.2105	13.2231
1.0	6.4433	0.	1.4459	10.0087	598.4	30.1637	10619.8	1.1597	1.2044	11.9242
1.5	6.2794	0.	1.4630	9.3414	623.1	26.6241	10405.1	1.1682	1.2086	10.9507
2.0	6.1483	0.	1.4776	8.8076	644.9	23.8391	10201.8	1.1766	1.2106	10.1935
2.5	6.0410	0.	1.4902	8.3708	664.3	21.5872	10007.2	1.1850	1.2139	9.5876
3.0	5.9516	0.	1.5013	8.0068	681.8	19.7205	9820.2	1.1933	1.2181	9.0914
3.5	5.8759	0.	1.5110	7.6988	697.5	18.1470	9639.3	1.2018	1.2232	8.6776
4.0	5.8111	0.	1.5197	7.4349	711.8	16.8023	9463.3	1.2105	1.2291	8.3271
4.5	5.7549	0.	1.5276	7.2061	724.9	15.6371	9291.5	1.2194	1.2356	8.0262
5.0	5.7057	0.	1.5346	7.0059	736.8	14.6185	9123.6	1.2283	1.2425	7.7651
5.5	5.6623	0.	1.5407	6.8292	747.8	13.7206	8958.4	1.2377	1.2501	7.5363
6.0	5.6237	0.	1.5464	6.6722	758.0	12.9232	8796.0	1.2473	1.2581	7.3340

N	P	T	A	UO	MO	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	203.494	4145.3	1616.8	2964.17	5.5110	20.3494	13.9033	1.8333	0.5455	1.2526
0.5	204.482	4061.7	1714.3	3191.21	5.4903	20.4482	13.6228	1.8265	0.5475	1.2168
1.0	204.197	3985.9	1795.2	3267.36	5.4597	20.4197	13.3666	1.8200	0.5494	1.1914
1.5	203.142	3916.4	1863.4	3379.86	5.4244	20.3142	13.1289	1.8138	0.5513	1.1723
2.0	201.578	3847.8	1921.6	3473.85	5.3868	20.1578	12.9054	1.8077	0.5532	1.1574
2.5	199.664	3778.5	1972.1	3552.96	5.3483	19.9664	12.6933	1.8016	0.5551	1.1454
3.0	197.515	3709.0	2016.0	3619.86	5.3095	19.7515	12.4903	1.7956	0.5569	1.1355
3.5	195.193	3665.7	2054.6	3676.54	5.2708	19.5193	12.2948	1.7894	0.5588	1.1271
4.0	192.749	3609.3	2088.6	3724.67	5.2324	19.2743	12.1056	1.7832	0.5608	1.1200
4.5	190.194	3554.4	2118.9	3765.26	5.1943	19.0194	11.9214	1.7770	0.5628	1.1138
5.0	187.542	3500.8	2145.8	3799.58	5.1565	18.7582	11.7416	1.7707	0.5647	1.1084
5.5	184.900	3448.2	2170.0	3828.33	5.1191	18.4900	11.5654	1.7642	0.5668	1.1035
6.0	182.178	3396.6	2191.6	3852.18	5.0820	18.2178	11.3923	1.7577	0.5689	1.0992

PI= 10.000

TI=300.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.5876E 00	0.136AF-00	0.1512E-00	0.4136E-01	0.5525E-01	0.2770E-01	0.	0.4174
0.500	0.4977F-00	0.1047E-00	0.1216F-00	0.3372E-01	0.4305E-01	0.2139E-01	0.1738F-00	0.3476
1.000	0.4437E-00	0.8863E-01	0.1005F-00	0.2819E-01	0.3633E-01	0.1692E-01	0.2978E-00	0.2978
1.500	0.3857F-00	0.7367E-01	0.8452E-01	0.2400F-01	0.2782E-01	0.1360E-01	0.3907E-00	0.2605
2.000	0.3483E-00	0.6209E-01	0.7211E-01	0.2071F-01	0.2281E-01	0.1106E-01	0.4629E-00	0.2314
2.500	0.3184E-00	0.5289F-01	0.6216E-01	0.1804E-01	0.1886F-01	0.9068E-02	0.5206E 00	0.2082
3.000	0.2939E-00	0.4540E-01	0.5402E-01	0.1584F-01	0.1569E-01	0.7481E-02	0.5677E 00	0.1892
3.500	0.2734E-00	0.3922E-01	0.4723E-01	0.1399E-01	0.1311E-01	0.6199E-02	0.6069E 00	0.1734
4.000	0.2560E-00	0.3403E-01	0.4150F-01	0.1241E-01	0.1099E-01	0.5150E-02	0.6400E 00	0.1600
4.500	0.2410E-00	0.2963E-01	0.3660F-01	0.1105E-01	0.9226E-02	0.4287E-02	0.6682E 00	0.1485
5.000	0.2279E-00	0.25R7E-01	0.3236F-01	0.9866E-02	0.7752E-02	0.3570E-02	0.6927E 00	0.1385
5.500	0.2164E-00	0.2262F-01	0.2867F-01	0.8823E-02	0.6515E-02	0.2973E-02	0.7140E 00	0.1298
6.000	0.2062E-00	0.1980E-01	0.2544F-01	0.7900E-02	0.5472E-02	0.2474E-02	0.7327E 00	0.1221

N	CPI	HI	GAMI	MI	AI	CP	H	GAM	GAM0	M
0.	6.9371	12.8	1.4015	12.0107	539.5	41.3981	11104.9	1.1410	1.2167	15.0415
0.5	6.6558	12.3	1.4256	10.8667	572.1	34.8777	10856.7	1.1507	1.2106	13.2210
1.0	6.4448	11.9	1.4458	10.0087	600.3	30.1935	10627.5	1.1597	1.2083	11.9226
1.5	6.2808	11.6	1.4628	9.3414	625.0	26.6525	10412.5	1.1682	1.2086	10.9494
2.0	6.1495	11.4	1.4774	8.8076	646.9	23.8645	10209.1	1.1766	1.2106	10.1924
2.5	6.0421	11.2	1.4901	8.3708	666.3	21.6081	10014.5	1.1849	1.2139	9.5866
3.0	5.9526	11.0	1.5011	8.0068	683.8	19.7419	9827.5	1.1933	1.2181	9.0906
3.5	5.8769	10.9	1.5109	7.6988	699.5	18.1678	9646.7	1.2017	1.2232	8.6769
4.0	5.8120	10.7	1.5196	7.4349	714.0	16.8201	9470.7	1.2104	1.2290	8.3264
4.5	5.7557	10.6	1.5279	7.2061	727.1	15.6545	9299.3	1.2192	1.2354	8.0256
5.0	5.7065	10.5	1.5349	7.0059	739.1	14.6354	9131.2	1.2283	1.2425	7.7645
5.5	5.6630	10.5	1.5406	6.8292	750.1	13.7361	8966.5	1.2375	1.2499	7.5358
6.0	5.6244	10.4	1.5469	6.6722	760.3	12.9383	8804.2	1.2471	1.2580	7.3335

N	P	T	A	UO	MO	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	202.200	4144.9	1616.8	2963.65	5.4934	20.2200	13.8163	1.8331	0.5455	1.2523
0.5	203.178	4060.8	1714.3	3190.65	5.4726	20.3178	13.5358	1.8262	0.5476	1.2166
1.0	202.902	3984.5	1795.1	3266.77	5.4422	20.2902	13.2816	1.8198	0.5495	1.1912
1.5	201.849	3913.7	1863.3	3379.26	5.4069	20.1849	13.0456	1.8136	0.5514	1.1721
2.0	200.299	3847.2	1921.6	3473.29	5.3695	20.0299	12.8238	1.8075	0.5532	1.1572
2.5	198.402	3778.0	1972.0	3552.37	5.3311	19.8402	12.6139	1.8014	0.5551	1.1452
3.0	196.270	3729.6	2015.9	3619.26	5.2925	19.6270	12.4119	1.7953	0.5570	1.1354
3.5	193.969	3665.4	2054.5	3675.94	5.2539	19.3969	12.2180	1.7892	0.5589	1.1270
4.0	191.533	3609.0	2088.6	3724.06	5.2157	19.1533	12.0301	1.7830	0.5608	1.1199
4.5	189.015	3554.3	2118.8	3764.73	5.1777	18.9015	11.8475	1.7768	0.5628	1.1137
5.0	186.410	3500.7	2145.8	3799.10	5.1402	18.6410	11.6691	1.7705	0.5648	1.1083
5.5	183.759	3448.3	2169.9	3827.90	5.1029	18.3759	11.4943	1.7641	0.5669	1.1035
6.0	181.056	3396.8	2191.5	3851.80	5.0660	18.1056	11.3225	1.7576	0.5690	1.0991

PI= 10.000

TI=400.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.5721E 00	0.1395E-00	0.1552E-00	0.4274E-01	0.6037E-01	0.3013E-01	0.	0.4136
0.500	0.4849E-00	0.1113E-00	0.1256E-00	0.3699E-01	0.4762E-01	0.2347E-01	0.1724E-00	0.3449
1.000	0.4227E-00	0.9129E-01	0.1041E-00	0.2938E-01	0.3813E-01	0.1872E-01	0.2957E-00	0.2957
1.500	0.3760E-00	0.7650E-01	0.8798E-01	0.2512E-01	0.3117E-01	0.1518E-01	0.3883E-00	0.2588
2.000	0.3396E-00	0.6468E-01	0.7544E-01	0.2177E-01	0.2579E-01	0.1246E-01	0.4603E-00	0.2301
2.500	0.3104E-00	0.5542E-01	0.6538E-01	0.1906E-01	0.2153E-01	0.1032E-01	0.5179E 00	0.2071
3.000	0.2865E-00	0.4788E-01	0.5713E-01	0.1681E-01	0.1809E-01	0.8610E-02	0.5650E 00	0.1883
3.500	0.2665E-00	0.4164E-01	0.5025E-01	0.1493E-01	0.1528E-01	0.7215E-02	0.6042E 00	0.1726
4.000	0.2495E-00	0.3639E-01	0.4443E-01	0.1332E-01	0.1295E-01	0.6067E-02	0.6373E 00	0.1593
4.500	0.2349E-00	0.3193E-01	0.3944E-01	0.1193E-01	0.1101E-01	0.5114E-02	0.6656E 00	0.1479
5.000	0.2222E-00	0.2810E-01	0.3512E-01	0.1072E-01	0.9367E-02	0.4317E-02	0.6902E 00	0.1380
5.500	0.2110E-00	0.2479E-01	0.3135E-01	0.9650E-02	0.7980E-02	0.3648E-02	0.7116E 00	0.1294
6.000	0.2011E-00	0.2190E-01	0.2804E-01	0.8704E-02	0.6800E-02	0.3082E-02	0.7304E 00	0.1217

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.0489	712.6	1.3926	12.0107	621.0	43.4111	11602.8	1.1400	1.2197	14.9030
0.5	6.7516	683.1	1.4171	10.8667	658.6	36.6131	11918.2	1.1492	1.2126	13.1164
1.0	6.5287	660.9	1.4376	10.0087	691.2	31.7294	11066.3	1.1576	1.2095	11.8396
1.5	6.3553	643.7	1.4549	9.3414	719.7	28.0262	10837.8	1.1657	1.2089	10.8810
2.0	6.2166	630.0	1.4698	8.8076	745.0	25.1176	10626.4	1.1736	1.2102	10.1346
2.5	6.1031	618.7	1.4828	8.3708	767.6	22.7627	10428.1	1.1814	1.2128	9.5368
3.0	6.0085	609.3	1.4942	8.0068	787.8	20.8128	10240.4	1.1893	1.2163	9.0470
3.5	5.9285	601.4	1.5042	7.6988	806.1	19.1675	10061.2	1.1972	1.2207	8.6382
4.0	5.8599	594.5	1.5131	7.4349	822.7	17.7599	9888.6	1.2052	1.2258	8.2918
4.5	5.8004	588.6	1.5211	7.2061	837.9	16.5427	9721.8	1.2134	1.2314	7.9965
5.0	5.7486	583.5	1.5283	7.0059	851.8	15.4764	9559.7	1.2218	1.2377	7.7363
5.5	5.7025	578.9	1.5349	6.8292	864.6	14.5360	9401.7	1.2303	1.2443	7.5101
6.0	5.6617	574.9	1.5408	6.6722	876.4	13.6994	9247.0	1.2391	1.2515	7.3101

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	150.243	4100.0	1614.8	2937.07	4.7297	15.0243	10.2499	1.8188	0.5498	1.2408
0.5	150.971	4021.5	1711.6	3102.91	4.7107	15.0971	10.0537	1.8125	0.5517	1.2070
1.0	150.411	3950.0	1792.0	3237.35	4.6840	15.0411	9.8751	1.8065	0.5535	1.1829
1.5	150.106	3883.9	1860.0	3349.35	4.6537	15.0106	9.7098	1.8007	0.5553	1.1648
2.0	149.046	3822.0	1918.9	3443.22	4.6217	14.9046	9.5549	1.7949	0.5571	1.1507
2.5	147.749	3763.9	1968.8	3522.51	4.5893	14.7749	9.4083	1.7891	0.5589	1.1393
3.0	146.287	3707.4	2013.0	3589.92	4.5569	14.6287	9.2684	1.7834	0.5607	1.1299
3.5	144.709	3653.6	2051.9	3647.36	4.5247	14.4709	9.1341	1.7776	0.5626	1.1220
4.0	143.044	3601.7	2086.3	3696.38	4.4929	14.3044	9.0043	1.7717	0.5644	1.1153
4.5	141.315	3551.9	2117.0	3738.22	4.4615	14.1315	8.8783	1.7658	0.5663	1.1094
5.0	139.535	3502.2	2144.5	3773.90	4.4306	13.9535	8.7556	1.7598	0.5682	1.1043
5.5	137.723	3454.3	2169.1	3804.15	4.4001	13.7723	8.6356	1.7538	0.5702	1.0997
6.0	135.876	3407.2	2191.3	3829.71	4.3700	13.5874	8.5179	1.7477	0.5722	1.0956

PI= 10.000

TI=500.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.5986E 00	0.1417E-00	0.1585E-00	0.4387E-01	0.6457E-01	0.3231E-01	0.	0.4102
0.500	0.4737E-00	0.1137E-00	0.1286E-00	0.3805E-01	0.5139E-01	0.2536E-01	0.1712E-00	0.3424
1.000	0.4130E-00	0.9362E-01	0.1071E-00	0.3038E-01	0.4162E-01	0.2038E-01	0.2939E-00	0.2939
1.500	0.3674E-00	0.7861E-01	0.9096E-01	0.2607E-01	0.3428E-01	0.1668E-01	0.3861E-00	0.2574
2.000	0.3314E-00	0.6696E-01	0.7832E-01	0.2267E-01	0.2859E-01	0.1379E-01	0.4579E-00	0.2289
2.500	0.3033E-00	0.5767E-01	0.6818E-01	0.1993E-01	0.2406E-01	0.1152E-01	0.5154E 00	0.2062
3.000	0.2799E-00	0.5010E-01	0.5986E-01	0.1766E-01	0.2040E-01	0.9696E-02	0.5624E 00	0.1875
3.500	0.2603E-00	0.4381E-01	0.5291E-01	0.1575E-01	0.1738E-01	0.8204E-02	0.6017E 00	0.1719
4.000	0.2437E-00	0.3852E-01	0.4703E-01	0.1412E-01	0.1488E-01	0.6969E-02	0.6348E 00	0.1587
4.500	0.2294E-00	0.3402E-01	0.4198E-01	0.1271E-01	0.1277E-01	0.5938E-02	0.6632E 00	0.1474
5.000	0.2169E-00	0.3015E-01	0.3760E-01	0.1146E-01	0.1099E-01	0.5071E-02	0.6878E 00	0.1376
5.500	0.2060E-00	0.2679E-01	0.3378E-01	0.1039E-01	0.9466E-02	0.4337E-02	0.7092E 00	0.1290
6.000	0.1963E-00	0.2385E-01	0.3041E-01	0.9430E-02	0.8165E-02	0.3712E-02	0.7281E 00	0.1214

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.1393	1422.0	1.3857	12.0107	692.6	45.1324	12135.6	1.1392	1.2226	14.7813
0.5	6.8291	1362.1	1.4104	10.8667	734.6	38.1065	11811.2	1.1481	1.2146	13.0237
1.0	6.5965	1317.2	1.4311	10.0087	771.0	33.0592	11534.0	1.1562	1.2108	11.7652
1.5	6.4156	1282.3	1.4487	9.3414	803.0	29.2321	11288.8	1.1639	1.2097	10.8193
2.0	6.2708	1254.3	1.4639	8.8076	831.9	26.2227	11066.8	1.1714	1.2104	10.0821
2.5	6.1524	1231.5	1.4771	8.3708	856.5	23.7880	10862.5	1.1787	1.2123	9.4911
3.0	6.0537	1212.6	1.4887	8.0068	879.2	21.7719	10671.4	1.1862	1.2153	9.0067
3.5	5.9702	1196.3	1.4989	7.6988	899.7	20.0695	10491.0	1.1936	1.2190	8.6023
4.0	5.8986	1182.5	1.5080	7.4349	918.9	18.6153	10319.3	1.2011	1.2235	8.2595
4.5	5.8366	1170.5	1.5162	7.2061	935.9	17.3940	10154.6	1.2088	1.2286	7.9651
5.0	5.7823	1160.0	1.5236	7.0059	950.9	16.2511	9996.2	1.2165	1.2340	7.7096
5.5	5.7344	1150.8	1.5303	6.8292	965.2	15.2773	9842.5	1.2245	1.2400	7.4855
6.0	5.6918	1142.5	1.5364	6.6722	978.4	14.4114	9693.0	1.2326	1.2464	7.2875

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	119.291	4068.5	1614.7	2919.21	4.2064	11.9291	8.1371	1.8042	0.5543	1.2307
0.5	119.863	3994.1	1711.0	3076.95	4.1888	11.9863	7.9882	1.7983	0.5561	1.1985
1.0	119.764	3926.5	1791.2	3211.04	4.1648	11.9764	7.8530	1.7927	0.5578	1.1755
1.5	119.253	3864.2	1859.1	3322.48	4.1378	11.9253	7.7284	1.7871	0.5596	1.1582
2.0	118.472	3805.9	1917.5	3416.24	4.1097	11.8472	7.6119	1.7816	0.5613	1.1447
2.5	117.519	3751.0	1968.1	3495.64	4.0819	11.7519	7.5019	1.7762	0.5630	1.1338
3.0	116.439	3698.6	2012.5	3563.42	4.0531	11.6439	7.3973	1.7707	0.5648	1.1249
3.5	115.274	3648.5	2051.6	3621.37	4.0252	11.5274	7.2970	1.7651	0.5665	1.1174
4.0	114.044	3600.2	2086.4	3671.15	3.9978	11.4044	7.2004	1.7595	0.5683	1.1109
4.5	112.767	3553.4	2117.5	3713.93	3.9709	11.2767	7.1068	1.7539	0.5702	1.1053
5.0	111.462	3508.0	2145.3	3750.60	3.9445	11.1462	7.0159	1.7483	0.5720	1.1004
5.5	110.125	3463.6	2170.5	3782.08	3.9185	11.0125	6.9272	1.7425	0.5739	1.0961
6.0	108.769	3420.2	2193.2	3808.87	3.8929	10.8769	6.8405	1.7367	0.5758	1.0922

PI= 10.000

TI=600.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.5464E 00	0.1438E-00	0.1619E-00	0.4485E-01	0.6929E-01	0.3436E-01	0.	0.4071
0.500	0.4635E-00	0.1158E-00	0.1314E-00	0.3697E-01	0.5513E-01	0.2714E-01	0.1701E-00	0.3402
1.000	0.4041E-00	0.9574E-01	0.1099E-00	0.3125E-01	0.4636E-01	0.2196E-01	0.2921E-00	0.2921
1.500	0.3594E-00	0.8072E-01	0.9362E-01	0.2690E-01	0.3726E-01	0.1808E-01	0.3840E-00	0.2560
2.000	0.3246E-00	0.6906E-01	0.8091E-01	0.2368E-01	0.3129E-01	0.1507E-01	0.4556E-00	0.2278
2.500	0.2966E-00	0.5974E-01	0.7071E-01	0.2071E-01	0.2652E-01	0.1269E-01	0.5150E 00	0.2052
3.000	0.2736E-00	0.5214E-01	0.6236E-01	0.1841E-01	0.2265F-01	0.1077E-01	0.5601E 00	0.1867
3.500	0.2545E-00	0.4582E-01	0.5534E-01	0.1648E-01	0.1946E-01	0.9187E-02	0.5993E 00	0.1712
4.000	0.2382E-00	0.4051E-01	0.4960E-01	0.1484E-01	0.1679E-01	0.7874E-02	0.6324E 00	0.1581
4.500	0.2241E-00	0.3597E-01	0.4481E-01	0.1341E-01	0.1454E-01	0.6779E-02	0.6608E 00	0.1469
5.000	0.2119E-00	0.3206E-01	0.3989E-01	0.1217E-01	0.1263E-01	0.5841E-02	0.6855E 00	0.1371
5.500	0.2012E-00	0.2866E-01	0.3603E-01	0.1107E-01	0.1099E-01	0.5048E-02	0.7070E 00	0.1285
6.000	0.1917E-00	0.2569E-01	0.3262E-01	0.1010E-01	0.9578E-02	0.4368E-02	0.7259E 00	0.1210

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.2295	2140.4	1.3791	12.0107	756.8	46.6589	12690.1	1.1387	1.2253	14.6899
0.5	6.9065	2048.9	1.4040	10.8667	802.8	39.4472	12324.1	1.1472	1.2186	12.9381
1.0	6.6642	1980.2	1.4249	10.0087	842.7	34.2600	12019.5	1.1550	1.2123	11.6962
1.5	6.4757	1926.8	1.4427	9.3414	877.8	30.3238	11756.0	1.1624	1.2106	10.7617
2.0	6.3250	1884.1	1.4581	8.8076	908.8	27.2325	11521.5	1.1695	1.2107	10.0327
2.5	6.2016	1849.1	1.4715	8.3708	936.5	24.7273	11308.7	1.1766	1.2122	9.4480
3.0	6.0988	1820.0	1.4833	8.0068	961.4	22.6547	11112.6	1.1836	1.2147	8.9685
3.5	6.0118	1795.4	1.4938	7.6988	983.8	20.9077	10929.4	1.1907	1.2180	8.5681
4.0	5.9373	1774.2	1.5031	7.4349	1004.1	19.4111	10756.8	1.1978	1.2219	8.2285
4.5	5.8727	1755.9	1.5114	7.2061	1022.9	18.1162	10593.0	1.2049	1.2263	7.9369
5.0	5.8161	1739.9	1.5190	7.0059	1040.0	16.9820	10435.8	1.2122	1.2313	7.6836
5.5	5.7669	1725.8	1.5258	6.8292	1055.8	15.9813	10285.1	1.2196	1.2367	7.4616
6.0	5.7219	1713.2	1.5321	6.6722	1070.3	15.0893	10139.1	1.2272	1.2425	7.2653

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	98.766	4045.2	1615.7	2891.07	3.8199	9.8766	6.7419	1.7893	0.5589	1.2214
0.5	99.237	3974.1	1711.7	3055.38	3.8033	9.9237	6.6235	1.7839	0.5606	1.1906
1.0	99.174	3909.8	1791.7	3186.52	3.7811	9.9174	6.5163	1.7785	0.5623	1.1686
1.5	98.783	3850.7	1859.6	3297.49	3.7567	9.8783	6.4178	1.7732	0.5639	1.1520
2.0	98.183	3795.5	1918.0	3390.98	3.7313	9.8183	6.3259	1.7680	0.5656	1.1391
2.5	97.443	3743.7	1968.8	3470.44	3.7059	9.7443	6.2394	1.7627	0.5673	1.1287
3.0	96.606	3694.4	2013.4	3538.44	3.6807	9.6606	6.1573	1.7574	0.5690	1.1201
3.5	95.703	3647.9	2052.9	3596.85	3.6559	9.5703	6.0789	1.7521	0.5707	1.1129
4.0	94.759	3602.1	2088.0	3647.21	3.6317	9.4753	6.0035	1.7468	0.5725	1.1067
4.5	93.770	3558.4	2119.3	3690.67	3.6080	9.3770	5.9307	1.7414	0.5742	1.1014
5.0	92.757	3516.0	2147.6	3728.21	3.5847	9.2757	5.8600	1.7360	0.5760	1.0967
5.5	91.728	3474.8	2173.1	3760.63	3.5620	9.1728	5.7913	1.7305	0.5779	1.0926
6.0	90.682	3434.5	2196.3	3788.57	3.5398	9.0682	5.7242	1.7250	0.5797	1.0889

PI= 10.000

TI=700.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.5951E 00	0.1457E-00	0.1639E-00	0.4571E-01	0.7333E-01	0.3632E-01	0.	0.4042
0.500	0.4539E-00	0.1177E-00	0.1339E-00	0.3779E-01	0.5871E-01	0.2886E-01	0.1690E-00	0.3381
1.000	0.3957E-00	0.9772E-01	0.1124E-00	0.3203E-01	0.4814E-01	0.2350E-01	0.2905E-00	0.2905
1.500	0.3519E-00	0.8269E-01	0.9604E-01	0.2766F-01	0.4016E-01	0.1947E-01	0.3821E-00	0.2547
2.000	0.3177E-00	0.7101E-01	0.8329F-01	0.2421F-01	0.3393E-01	0.1634E-01	0.4535E-00	0.2267
2.500	0.2909F-00	0.6167E-01	0.7304F-01	0.2141E-01	0.2896F-01	0.1385E-01	0.5108E 00	0.2043
3.000	0.2677E-00	0.5405E-01	0.6462E-01	0.1910E-01	0.2490E-01	0.1184E-01	0.5578E 00	0.1859
3.500	0.2489E-00	0.4771E-01	0.5758F-01	0.1716E-01	0.2154E-01	0.1017E-01	0.5969E 00	0.1706
4.000	0.2329E-00	0.4297E-01	0.5161E-01	0.1550E-01	0.1873E-01	0.8790E-02	0.6301E 00	0.1575
4.500	0.2191F-00	0.3781F-01	0.4664E-01	0.1407E-01	0.1635E-01	0.7623E-02	0.6585E 00	0.1463
5.000	0.2071E-00	0.3387E-01	0.4203F-01	0.1281E-01	0.1431E-01	0.6632E-02	0.6832E 00	0.1366
5.500	0.1966F-00	0.3045E-01	0.3814E-01	0.1171F-01	0.1256E-01	0.5784E-02	0.7047E 00	0.1281
6.000	0.1873F-00	0.2744E-01	0.3470F-01	0.1072E-01	0.1105E-01	0.5059E-02	0.7237E 00	0.1206

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.9192	2867.9	1.3727	12.0107	819.6	48.0510	13259.6	1.1382	1.2280	14.5654
0.5	6.9839	2743.4	1.3977	10.8667	865.2	40.6728	12850.7	1.1465	1.2187	12.8573
1.0	6.7314	2650.0	1.4189	10.0087	908.3	35.3631	12517.1	1.1540	1.2138	11.6307
1.5	6.5355	2577.4	1.4369	9.3414	946.2	31.3387	12233.7	1.1612	1.2117	10.7067
2.0	6.3787	2519.3	1.4525	8.8076	979.7	28.1741	11985.6	1.1680	1.2113	9.9854
2.5	6.2505	2471.8	1.4661	8.3708	1009.6	25.6098	11763.1	1.1748	1.2124	9.4066
3.0	6.1436	2432.2	1.4781	8.0068	1036.6	23.4884	11560.4	1.1815	1.2145	8.9316
3.5	6.0532	2398.7	1.4887	7.6988	1060.9	21.6994	11373.3	1.1882	1.2172	8.5348
4.0	5.9757	2370.0	1.4982	7.4349	1083.0	20.1685	11198.4	1.1949	1.2207	8.1983
4.5	5.9085	2345.1	1.5068	7.2061	1103.2	18.8445	11033.6	1.2017	1.2247	7.9092
5.0	5.8497	2323.3	1.5145	7.0059	1121.7	17.6832	10877.2	1.2085	1.2292	7.6581
5.5	5.7979	2304.1	1.5215	6.8292	1138.7	16.6572	10727.8	1.2154	1.2340	7.4380
6.0	5.7518	2287.0	1.5279	6.6722	1154.5	15.7447	10584.2	1.2225	1.2392	7.2434

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	84.168	4027.2	1617.6	2869.95	3.5189	8.4168	5.7532	1.7742	0.5636	1.2127
0.5	84.565	3959.1	1713.3	3030.92	3.5030	8.4565	5.6559	1.7691	0.5653	1.1832
1.0	84.524	3897.7	1793.2	3163.20	3.4824	8.4524	5.5681	1.7640	0.5669	1.1621
1.5	84.215	3841.9	1861.1	3273.62	3.4598	8.4215	5.4875	1.7589	0.5685	1.1462
2.0	83.796	3788.9	1919.6	3366.86	3.4366	8.3796	5.4127	1.7539	0.5702	1.1337
2.5	83.143	3739.7	1970.6	3446.30	3.4134	8.3143	5.3424	1.7488	0.5718	1.1237
3.0	82.473	3693.1	2015.4	3514.44	3.3905	8.2473	5.2759	1.7438	0.5735	1.1155
3.5	81.751	3648.7	2055.1	3573.16	3.3681	8.1751	5.2125	1.7387	0.5751	1.1086
4.0	80.990	3606.1	2090.5	3623.98	3.3463	8.0990	5.1516	1.7336	0.5768	1.1027
4.5	80.203	3565.1	2122.2	3668.01	3.3250	8.0203	5.0930	1.7284	0.5786	1.0976
5.0	79.396	3525.4	2150.8	3706.30	3.3042	7.9396	5.0365	1.7233	0.5803	1.0931
5.5	78.576	3486.9	2176.6	3739.51	3.2840	7.8576	4.9813	1.7180	0.5821	1.0891
6.0	77.744	3449.4	2200.1	3768.34	3.2642	7.7744	4.9277	1.7128	0.5838	1.0856

PI= 100.000

TI=200.0000 H= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6861E 00	0.1188E-00	0.1221E-00	0.3096E-01	0.2751E-01	0.1452E-01	0.	0.4407
0.500	0.5746E 00	0.9186E-01	0.9572E-01	0.2466E-01	0.2067E-01	0.1080E-01	0.1817E-00	0.3633
1.000	0.4965E-00	0.7903E-01	0.7719E-01	0.2010E-01	0.1589E-01	0.8222E-02	0.3090E-00	0.3090
1.500	0.4386E-00	0.5916E-01	0.6337E-01	0.1682E-01	0.1241E-01	0.6356E-02	0.4033E-00	0.2689
2.000	0.3939E-00	0.4858E-01	0.5276E-01	0.1420E-01	0.9783E-02	0.4964E-02	0.4758E-00	0.2379
2.500	0.3585E-00	0.4027E-01	0.4437E-01	0.1211E-01	0.7768E-02	0.3903E-02	0.5333E 00	0.2133
3.000	0.3292E-00	0.3362E-01	0.3750E-01	0.1039E-01	0.6195E-02	0.3081E-02	0.5800E 00	0.1935
3.500	0.3049E-00	0.2821E-01	0.3200E-01	0.8969E-02	0.4934E-02	0.2439E-02	0.6186E 00	0.1767
4.000	0.2845E-00	0.2375E-01	0.2736E-01	0.7768E-02	0.3966E-02	0.1932E-02	0.6510E 00	0.1627
4.500	0.2665E-00	0.2004E-01	0.2345E-01	0.6745E-02	0.3175E-02	0.1530E-02	0.6785E 00	0.1508
5.000	0.2510E-00	0.1693E-01	0.2014E-01	0.5867E-02	0.2539E-02	0.1210E-02	0.7023E 00	0.1405
5.500	0.2374E-00	0.1431E-01	0.1731E-01	0.5108E-02	0.2028E-02	0.9548E-03	0.7229E 00	0.1314
6.000	0.2252E-00	0.1209E-01	0.1489E-01	0.4449E-02	0.1616E-02	0.7516E-03	0.7410E 00	0.1235

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM0	M
0.	6.6660	-669.9	1.4247	12.0107	444.1	28.8100	11995./	1.1517	1.2033	15.8788
0.5	6.6294	-649.8	1.4479	10.8667	470.7	24.3888	11680.1	1.1659	1.2060	13.8179
1.0	6.2419	-624.5	1.4671	10.0087	499.7	21.2416	11374.0	1.1790	1.2110	12.3727
1.5	6.1000	-609.1	1.4832	9.3414	513.8	18.8768	11078.8	1.1913	1.2173	11.3023
2.0	5.9868	-597.0	1.4968	8.8076	531.6	17.0226	10794.1	1.2032	1.2247	10.4773
2.5	5.8942	-587.0	1.5086	8.3708	547.4	15.5283	10519.0	1.2149	1.2328	9.8215
3.0	5.8170	-578.7	1.5189	8.0068	561.6	14.2959	10252.8	1.2266	1.2416	9.2875
3.5	5.7517	-571.7	1.5279	7.6988	574.5	13.2601	9994.4	1.2382	1.2509	8.8460
4.0	5.6958	-565.7	1.5358	7.4349	586.1	12.3782	9743.5	1.2499	1.2606	8.4697
4.5	5.6472	-560.5	1.5429	7.2061	596.7	11.6171	9498.9	1.2617	1.2708	8.1494
5.0	5.6048	-555.9	1.5493	7.0059	606.4	10.9559	9260.7	1.2736	1.2815	7.8721
5.5	5.5673	-551.9	1.5551	6.8292	615.4	10.3761	9028.3	1.2855	1.2921	7.6297
6.0	5.5341	-548.4	1.5603	6.6722	623.6	9.8655	8801.3	1.2976	1.3032	7.4198

N	P	T	A	UD	ND	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	3277.756	4705.9	1684.5	3102.61	6.9857	32.7776	23.5277	1.8418	0.5429	1.3221
0.5	3299.578	4581.2	1792.8	3281.85	6.9762	32.9958	22.9061	1.8317	0.5459	1.2716
1.0	3292.458	4466.7	1881.2	3428.39	6.9641	32.9246	22.3335	1.8224	0.5487	1.2362
1.5	3267.848	4359.8	1954.7	3545.30	6.8997	32.6785	21.7991	1.8137	0.5513	1.2099
2.0	3231.867	4259.0	2016.6	3640.79	6.8486	32.3187	21.2949	1.8054	0.5539	1.1896
2.5	3188.527	4163.1	2069.3	3719.03	6.7934	31.8853	20.8155	1.7973	0.5564	1.1733
3.0	3140.185	4071.3	2114.4	3781.36	6.7362	31.4018	20.3566	1.7893	0.5589	1.1599
3.5	3088.420	3983.0	2152.5	3836.01	6.6775	30.8842	19.9152	1.7814	0.5613	1.1487
4.0	3034.430	3897.8	2184.9	3878.90	6.6182	30.3443	19.4889	1.7737	0.5638	1.1392
4.5	2978.755	3815.1	2216.1	3913.56	6.5586	29.7875	19.0755	1.7660	0.5663	1.1309
5.0	2922.133	3734.8	2241.4	3941.11	6.4990	29.2213	18.6738	1.7583	0.5687	1.1236
5.5	2865.016	3656.5	2263.3	3962.48	6.4394	28.6504	18.2826	1.7508	0.5712	1.1172
6.0	2807.644	3580.2	2282.3	3978.46	6.3799	28.0764	17.9010	1.7432	0.5737	1.1114

PI= 100.000

TI=298.1500 H= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6649E 00	0.1247E-00	0.1291E-00	0.3296E-01	0.3211E-01	0.1686E-01	0.	0.4359
0.500	0.5574E 00	0.9710E-01	0.1019E-00	0.2642E-01	0.2444E-01	0.1269E-01	0.1800E-00	0.3600
1.000	0.4822E-00	0.7785E-01	0.8272F-01	0.2175E-01	0.1897E-01	0.9775E-02	0.3067E-00	0.3067
1.500	0.4265E-00	0.6358F-01	0.6844F-01	0.1826E-01	0.1499E-01	0.7655E-02	0.4006E-00	0.2671
2.000	0.3834E-00	0.5264E-01	0.5741E-01	0.1551E-01	0.1197E-01	0.6037E-02	0.4731E-00	0.2365
2.500	0.3490E-00	0.4402E-01	0.4865F-01	0.1331F-01	0.9634E-02	0.4830E-02	0.5306E 00	0.2122
3.000	0.3209E-00	0.3709E-01	0.4155F-01	0.1152E-01	0.7795E-02	0.3871E-02	0.5773E 00	0.1924
3.500	0.2974E-00	0.3143E-01	0.3569E-01	0.1002E-01	0.6328E-02	0.3113E-02	0.6160E 00	0.1760
4.000	0.2775E-00	0.2674E-01	0.3080E-01	0.8746E-02	0.5147E-02	0.2500E-02	0.6485E 00	0.1621
4.500	0.2604E-00	0.2281F-01	0.2666E-01	0.7662E-02	0.4191E-02	0.2022E-02	0.6763E 00	0.1503
5.000	0.2455E-00	0.1950F-01	0.2312E-01	0.6796F-02	0.3419E-02	0.1629E-02	0.7001E 00	0.1400
5.500	0.2323E-00	0.1669E-01	0.2009F-01	0.5913E-02	0.2777E-02	0.1312E-02	0.7209E 00	0.1311
6.000	0.2206E-00	0.1429E-01	0.1748F-01	0.5203E-02	0.2257E-02	0.1055E-02	0.7391E 00	0.1232

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM0	M
0.	6.9350	0.	1.4016	12.0107	537.9	30.4584	12497.5	1.1508	1.2072	15.7058
0.5	6.6540	0.	1.4258	10.8667	570.3	25.7934	12111.2	1.1643	1.2083	13.6936
1.0	6.4439	0.	1.4459	10.0087	598.4	22.4649	11790.4	1.1765	1.2119	12.2782
1.5	6.2794	0.	1.4630	9.3414	623.1	19.9605	11489.6	1.1881	1.2170	11.2276
2.0	6.1489	0.	1.4776	8.8076	644.9	17.9979	11204.9	1.1993	1.2235	10.4164
2.5	6.0410	0.	1.4902	8.3708	664.5	16.4132	10934.2	1.2103	1.2305	9.7709
3.0	5.9516	0.	1.5013	8.0068	681.8	15.1038	10674.7	1.2211	1.2382	9.2447
3.5	5.8759	0.	1.5110	7.6988	697.5	14.0827	10426.9	1.2320	1.2465	8.8074
4.0	5.8111	0.	1.5197	7.4349	711.8	13.2040	10183.4	1.2430	1.2554	8.4381
4.5	5.7549	0.	1.5276	7.2061	724.9	12.2534	9949.5	1.2540	1.2646	8.1219
5.0	5.7057	0.	1.5346	7.0059	736.8	11.5471	9722.5	1.2651	1.2742	7.8481
5.5	5.6623	0.	1.5407	6.8292	747.8	10.9278	9501.3	1.2763	1.2842	7.6086
6.0	5.6237	0.	1.5464	6.6722	758.0	10.3792	9285.8	1.2876	1.2944	7.3972

N	P	T	A	UD	ND	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	2179.132	4645.0	1682.3	3076.94	5.7207	21.7913	15.5795	1.8291	0.5467	1.3077
0.5	2193.766	4529.3	1789.6	3256.28	5.7096	21.9374	15.1914	1.8198	0.5495	1.2601
1.0	2190.269	4429.1	1877.2	3399.97	5.6813	21.9027	14.8552	1.8112	0.5521	1.2267
1.5	2175.697	4324.2	1950.5	3516.81	5.6442	21.7570	14.5034	1.8030	0.5546	1.2019
2.0	2154.010	4241.1	2012.6	3612.75	5.6022	21.5401	14.1911	1.7951	0.5571	1.1827
2.5	2127.647	4162.6	2065.5	3692.84	5.5576	21.2769	13.8945	1.7875	0.5595	1.1673
3.0	2098.253	4088.2	2111.1	3757.39	5.5116	20.9825	13.6111	1.7799	0.5618	1.1546
3.5	2066.605	3976.9	2150.7	3811.88	5.4649	20.6661	13.3387	1.7724	0.5642	1.1440
4.0	2033.418	3898.5	2185.1	3856.65	5.4179	20.3342	13.0757	1.7649	0.5666	1.1349
4.5	1999.270	3822.6	2215.2	3893.99	5.3710	19.9927	12.8209	1.7576	0.5690	1.1271
5.0	1964.582	3748.8	2241.5	3925.14	5.3242	19.6458	12.5735	1.7502	0.5714	1.1202
5.5	1929.247	3676.9	2264.6	3946.92	5.2777	19.2925	12.3324	1.7429	0.5738	1.1141
6.0	1893.830	3606.8	2284.8	3965.47	5.2315	18.9383	12.0971	1.7356	0.5762	1.1087

PI= 100.000

TI=900.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6699E 00	0.1248E-00	0.1297E-00	0.3299E-01	0.3219E-01	0.1690E-01	0.	0.4358
0.500	0.5571E 00	0.9727E-01	0.1020E-00	0.2665E-01	0.2646E-01	0.1272E-01	0.1802E-00	0.3600
1.000	0.4820E-00	0.7793E-01	0.8281E-01	0.2178E-01	0.2183E-01	0.9802E-02	0.3066E-00	0.3046
1.500	0.4263E-00	0.6365E-01	0.6852E-01	0.1827E-01	0.1803E-01	0.7675E-02	0.4006E-00	0.2671
2.000	0.3832E-00	0.5271E-01	0.5749E-01	0.1559E-01	0.1201E-01	0.6076E-02	0.4730E-00	0.2365
2.500	0.3488E-00	0.4409F-01	0.4872F-01	0.1339E-01	0.9668E-02	0.4846E-02	0.5305E 00	0.2122
3.000	0.3207E-00	0.3715F-01	0.4162E-01	0.1159E-01	0.7824E-02	0.3886E-02	0.5773E 00	0.1924
3.500	0.2975E-00	0.3149F-01	0.3576E-01	0.1009E-01	0.6353E-02	0.3125E-02	0.6160E 00	0.1760
4.000	0.2774F-00	0.2679E-01	0.3086E-01	0.8763E-02	0.5169E-02	0.2518E-02	0.6485E 00	0.1621
4.500	0.2603E-00	0.2286E-01	0.2671E-01	0.7677E-02	0.4210E-02	0.2051E-02	0.6762E 00	0.1503
5.000	0.2454E-00	0.1954E-01	0.2318E-01	0.6741E-02	0.3429E-02	0.1637E-02	0.7001E 00	0.1400
5.500	0.2322E-00	0.1673E-01	0.2014E-01	0.5927E-02	0.2791E-02	0.1319E-02	0.7209E 00	0.1311
6.000	0.2205E-00	0.1433E-01	0.1752E-01	0.5216E-02	0.2269E-02	0.1061E-02	0.7391E 00	0.1232

N	CPI	MI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.9371	12.8	1.4015	12.0107	539.5	30.4896	12466.8	1.1508	1.2072	15.7029
0.5	6.6558	12.3	1.4256	10.8667	572.1	25.8174	12120.2	1.1642	1.2083	13.6915
1.0	6.4448	11.9	1.4458	10.0087	600.9	22.4859	11798.7	1.1765	1.2119	12.2766
1.5	6.2808	11.6	1.4628	9.3414	625.0	19.9801	11497.8	1.1880	1.2171	11.2263
2.0	6.1495	11.4	1.4774	8.8076	646.9	18.0143	11213.4	1.1992	1.2233	10.4154
2.5	6.0421	11.2	1.4901	8.3709	666.9	16.4287	10942.3	1.2102	1.2304	9.7700
3.0	5.9526	11.0	.5011	8.0068	685.8	15.1164	10682.9	1.2210	1.2382	9.2440
3.5	5.8769	10.9	.5109	7.6988	699.7	14.0157	10433.3	1.2319	1.2465	8.8068
4.0	5.8120	10.7	1.5196	7.4349	714.0	13.0761	10191.9	1.2429	1.2553	8.4375
4.5	5.7557	10.6	1.5273	7.2061	727.1	12.2640	9958.3	1.2538	1.2645	8.1214
5.0	5.7065	10.5	1.5343	7.0059	739.1	11.5571	9731.1	1.2650	1.2742	7.8477
5.5	5.6630	10.5	1.5406	6.8292	750.1	10.9372	9510.3	1.2762	1.2841	7.6082
6.0	5.6244	10.4	1.5469	6.6722	760.9	10.3884	9294.8	1.2875	1.2943	7.3968

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAU1	U2/U1	M/MI
0.	2165.374	4644.1	1682.9	3076.47	5.7025	21.6597	15.4803	1.8288	0.5468	1.5074
0.5	2179.941	4528.6	1789.4	3255.80	5.6914	21.7994	15.0953	1.8195	0.5496	1.2600
1.0	2176.475	4422.5	1877.2	3399.46	5.6832	21.7648	14.7417	1.8109	0.5522	1.2266
1.5	2167.001	4323.7	1950.5	3516.96	5.6769	21.6200	14.4124	1.8028	0.5547	1.2018
2.0	2140.556	4230.7	2012.5	3617.32	5.5845	21.4056	14.1024	1.7950	0.5571	1.1825
2.5	2114.398	4142.4	2065.5	3701.59	5.5400	21.1440	13.8080	1.7872	0.5595	1.1672
3.0	2085.172	4058.0	2111.1	3757.15	5.4941	20.8517	13.5267	1.7797	0.5619	1.1545
3.5	2053.779	3976.9	2150.7	3811.46	5.4478	20.5378	13.2564	1.7722	0.5643	1.1439
4.0	2020.860	3899.6	2185.2	3856.28	5.4009	20.2086	12.9954	1.7648	0.5666	1.1349
4.5	1987.012	3824.8	2215.2	3893.04	5.3542	19.8701	12.7427	1.7574	0.5690	1.1270
5.0	1952.422	3749.1	2241.6	3922.83	5.3076	19.5242	12.4970	1.7500	0.5714	1.1202
5.5	1917.473	3677.3	2264.7	3946.68	5.2613	19.1747	12.2577	1.7427	0.5738	1.1141
6.0	1882.298	3607.3	2284.9	3965.22	5.2152	18.8230	12.0243	1.7354	0.5762	1.1086

PI= 100.000

TI=800.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6461E 00	0.1295E-00	0.1347F-00	0.3455E-01	0.3622E-01	0.1894E-01	0.	0.4318
0.500	0.5424E 00	0.1016F-00	0.1070E-00	0.2784F-01	0.2778E-01	0.1440E-01	0.1786E-00	0.3572
1.000	0.4700F-00	0.8192E-01	0.8715E-01	0.2304E-01	0.2181E-01	0.1121E-01	0.3046E-00	0.3046
1.500	0.4160E-00	0.6735F-01	0.7270E-01	0.1949E-01	0.1741F-01	0.8879F-02	0.3983E-00	0.2655
2.000	0.3741E-00	0.5615E-01	0.6137E-01	0.1661F-01	0.1406E-01	0.7104E-02	0.4706E-00	0.2353
2.500	0.3407E-00	0.4732E-01	0.5246E-01	0.1434E-01	0.1145E-01	0.5734E-02	0.5281E 00	0.2112
3.000	0.3134F-00	0.4019F-01	0.4503E-01	0.1248E-01	0.9376E-02	0.4656E-02	0.5748E 00	0.1916
3.500	0.2906E-00	0.3434F-01	0.3897E-01	0.1093E-01	0.7711E-02	0.3795E-02	0.6136E 00	0.1753
4.000	0.2713E-00	0.2947E-01	0.3388E-01	0.9612E-02	0.6359E-02	0.3102E-02	0.6462E 00	0.1616
4.500	0.2547E-00	0.2538F-01	0.2957E-01	0.8482E-02	0.5259E-02	0.2540E-02	0.6741E 00	0.1498
5.000	0.2402E-00	0.2191E-01	0.2588E-01	0.7509E-02	0.4344E-02	0.2080E-02	0.6981E 00	0.1396
5.500	0.2275E-00	0.1895F-01	0.2269E-01	0.6653E-02	0.3592E-02	0.1704E-02	0.7189E 00	0.1307
6.000	0.2161F-00	0.1641E-01	0.1993F-01	0.5906E-02	0.2970E-02	0.1395E-02	0.7373E 00	0.1229

N	CPI	MI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.0489	712.6	1.3926	12.0107	621.0	31.8356	13008.4	1.1503	1.2106	15.5592
0.5	6.7516	689.1	1.4171	10.8667	658.6	26.9788	12622.7	1.1631	1.2105	13.5867
1.0	6.5287	668.9	1.4376	10.0087	691.7	23.5067	12279.0	1.1748	1.2131	12.1958
1.5	6.3559	649.7	1.4549	9.3414	719.7	20.8965	11965.7	1.1857	1.2179	11.1615
2.0	6.2166	630.0	1.4698	8.8076	745.0	18.8450	11675.5	1.1963	1.2227	10.3619
2.5	6.1031	612.7	1.4828	8.3708	767.6	17.1876	11402.9	1.2067	1.2290	9.7254
3.0	6.0085	609.3	1.4942	8.0068	787.8	15.8195	11144.9	1.2169	1.2359	9.2054
3.5	5.9285	601.4	1.5042	7.6988	806.1	14.6677	10898.6	1.2272	1.2435	8.7734
4.0	5.8599	594.5	1.5131	7.4349	822.7	13.6859	10667.6	1.2375	1.2515	8.4083
4.5	5.8004	588.6	1.5211	7.2061	837.9	12.8360	10435.6	1.2478	1.2599	8.0957
5.0	5.7484	583.5	1.5283	7.0059	851.8	12.0960	10215.6	1.2582	1.2688	7.8248
5.5	5.7025	578.9	1.5349	6.8292	864.6	11.4437	10002.5	1.2688	1.2779	7.5879
6.0	5.6617	574.9	1.5408	6.6722	876.4	10.8671	9795.6	1.2794	1.2874	7.3787

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAU1	U2/U1	M/MI
0.	1619.585	4605.6	1682.6	3054.66	4.9191	16.1958	11.5140	1.8155	0.5508	1.2934
0.5	1624.572	4496.7	1789.0	3232.50	4.9084	16.2457	11.2417	1.8069	0.5534	1.2503
1.0	1622.691	4394.9	1876.6	3375.54	4.8999	16.2269	10.9923	1.7988	0.5559	1.2185
1.5	1615.059	4298.3	1949.8	3492.99	4.8929	16.1505	10.7607	1.7911	0.5583	1.1948
2.0	1598.428	4217.2	2012.0	3588.70	4.8170	15.9843	10.5431	1.7836	0.5606	1.1765
2.5	1580.464	4134.7	2065.1	3668.70	4.7797	15.8046	10.3368	1.7763	0.5630	1.1618
3.0	1560.292	4056.0	2111.5	3735.36	4.7615	15.6029	10.1401	1.7691	0.5653	1.1497
3.5	1538.571	3980.5	2151.6	3790.94	4.7028	15.3857	9.9513	1.7619	0.5676	1.1396
4.0	1515.891	3907.7	2186.7	3837.29	4.6641	15.1583	9.7693	1.7548	0.5699	1.1309
4.5	1492.367	3837.1	2217.6	3875.64	4.6255	14.9237	9.5932	1.7477	0.5722	1.1235
5.0	1468.601	3768.9	2244.8	3907.50	4.5872	14.6840	9.4222	1.7406	0.5745	1.1169
5.5	1444.192	3702.3	2268.8	3933.08	4.5492	14.4413	9.2557	1.7336	0.5768	1.1111
6.0	1419.714	3637.4	2290.0	3953.77	4.5115	14.1971	9.0935	1.7266	0.5792	1.1059

PI= 100.000

TI=500.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6306E 00	0.1335E-00	0.1199E-00	0.9584E-01	0.5988E-01	0.2081E-01	0.	0.4283
0.500	0.5303E 00	0.1059E-00	0.1112E-00	0.2901E-01	0.3084E-01	0.1596E-01	0.1774E-00	0.3548
1.000	0.4595E-00	0.8598E-01	0.9126E-01	0.2412E-01	0.2443E-01	0.1259E-01	0.3028E-00	0.3028
1.500	0.4068E-00	0.7060E-01	0.7639E-01	0.2043E-01	0.1967E-01	0.1001E-01	0.3962E-00	0.2641
2.000	0.3660E-00	0.5922E-01	0.6478E-01	0.1754E-01	0.1609E-01	0.8094E-02	0.4684E-00	0.2342
2.500	0.3334E-00	0.5021E-01	0.5557E-01	0.1521E-01	0.1318E-01	0.6602E-02	0.5258E 00	0.2103
3.000	0.3067E-00	0.4293E-01	0.4807E-01	0.1332E-01	0.1091E-01	0.5419E-02	0.5726E 00	0.1909
3.500	0.2845E-00	0.3694E-01	0.4185E-01	0.1173E-01	0.9070E-02	0.4469E-02	0.6114E 00	0.1747
4.000	0.2657E-00	0.3194E-01	0.3663E-01	0.1037E-01	0.7567E-02	0.3698E-02	0.6441E 00	0.1610
4.500	0.2495E-00	0.2773E-01	0.3219E-01	0.9211E-02	0.6328E-02	0.3067E-02	0.6720E 00	0.1493
5.000	0.2353E-00	0.2416E-01	0.2837E-01	0.8203E-02	0.5300E-02	0.2547E-02	0.6961E 00	0.1392
5.500	0.2229E-00	0.2106F-01	0.2507E-01	0.7323E-02	0.4444E-02	0.2116E-02	0.7171E 00	0.1304
6.000	0.2119E-00	0.1841E-01	0.2220E-01	0.6548E-02	0.3726E-02	0.1759E-02	0.7355E 00	0.1226

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.1993	1422.0	1.3857	12.0107	692.6	32.9931	13583.6	1.1499	1.2137	15.4332
0.5	6.8291	1362.1	1.4104	10.8667	734.6	27.9819	13155.5	1.1622	1.2126	13.4937
1.0	6.5965	1317.2	1.4311	10.0087	771.0	24.4005	12786.2	1.1734	1.2143	12.1232
1.5	6.4156	1282.3	1.4487	9.3614	803.0	21.6990	12456.9	1.1839	1.2179	11.1028
2.0	6.2708	1254.3	1.4639	8.8076	831.9	19.5803	12157.3	1.1940	1.2225	10.3130
2.5	6.1524	1231.5	1.4771	8.3708	858.5	17.8684	11879.7	1.2040	1.2282	9.6834
3.0	6.0537	1212.6	1.4887	8.0068	879.2	16.4537	11620.6	1.2137	1.2344	9.1695
3.5	5.9702	1196.3	1.4989	7.6988	899.7	15.2825	11375.1	1.2234	1.2413	8.7420
4.0	5.8986	1182.5	1.5080	7.4349	918.1	14.2444	11141.6	1.2331	1.2487	8.3806
4.5	5.8366	1170.5	1.5162	7.2061	935.3	13.3647	10918.2	1.2429	1.2564	8.0710
5.0	5.7823	1160.0	1.5236	7.0059	950.9	12.5968	10703.5	1.2527	1.2646	7.8028
5.5	5.7346	1150.8	1.5303	6.8292	965.2	11.9209	10496.3	1.2626	1.2730	7.5680
6.0	5.6918	1142.5	1.5364	6.6722	978.4	11.3209	10295.6	1.2726	1.2817	7.3608

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	1284.977	4579.5	1684.3	3095.05	4.3824	12.8438	9.1589	1.4019	0.5550	1.2850
0.5	1293.213	4475.9	1790.4	3211.67	4.3722	12.9321	8.9518	1.7939	0.5575	1.2417
1.0	1292.244	4381.3	1877.7	3304.19	4.3504	12.9224	8.7626	1.7863	0.5598	1.2113
1.5	1285.276	4293.7	1951.1	3470.88	4.3226	12.8528	8.5873	1.7789	0.5621	1.1885
2.0	1274.545	4211.5	2013.4	3567.49	4.2917	12.7455	8.4230	1.7718	0.5644	1.1709
2.5	1261.219	4133.8	2067.2	3644.08	4.2593	12.6124	8.2676	1.7647	0.5667	1.1568
3.0	1246.316	4059.8	2113.7	3715.60	4.2262	12.4632	8.1196	1.7578	0.5689	1.1452
3.5	1230.193	3988.9	2154.4	3772.27	4.1930	12.3019	7.9778	1.7510	0.5711	1.1355
4.0	1213.283	3920.7	2190.1	3819.81	4.1597	12.1328	7.8414	1.7441	0.5734	1.1272
4.5	1195.830	3854.8	2221.6	3859.60	4.1267	11.9584	7.7095	1.7373	0.5756	1.1200
5.0	1178.013	3790.9	2249.5	3892.81	4.0940	11.7801	7.5817	1.7305	0.5779	1.1137
5.5	1159.971	3728.7	2274.9	3920.78	4.0617	11.5997	7.4574	1.7237	0.5801	1.1082
6.0	1141.774	3668.2	2296.9	3942.71	4.0297	11.4177	7.3363	1.7170	0.5824	1.1032

PI= 100.000

TI=600.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6167E 00	0.1371E-00	0.1434E-00	0.3695E-01	0.4333E-01	0.2257E-01	0.	0.4251
0.500	0.5189E 00	0.1086E-00	0.1149E-00	0.9003E-01	0.3375E-01	0.1744E-01	0.1763E-00	0.3525
1.000	0.4498E-00	0.8852E-01	0.9477E-01	0.2506E-01	0.2694E-01	0.1381E-01	0.3011E-00	0.3011
1.500	0.3983E-00	0.7356E-01	0.7960E-01	0.2132E-01	0.2187E-01	0.1112E-01	0.3942E-00	0.2628
2.000	0.3584E-00	0.6203E-01	0.6787E-01	0.1838E-01	0.1797E-01	0.9073E-02	0.4663E-00	0.2331
2.500	0.3265E-00	0.5289E-01	0.5850E-01	0.1602E-01	0.1491E-01	0.7468E-02	0.5237E 00	0.2095
3.000	0.3005E-00	0.4564E-01	0.5067E-01	0.1408E-01	0.1245E-01	0.6190E-02	0.5705E 00	0.1902
3.500	0.2787E-00	0.3978E-01	0.4453E-01	0.1246E-01	0.1045F-01	0.5157E-02	0.6093E 00	0.1741
4.000	0.2607E-00	0.3427E-01	0.3919E-01	0.1107E-01	0.8808E-02	0.4313E-02	0.6420E 00	0.1605
4.500	0.2444E-00	0.2995E-01	0.3464E-01	0.9886E-02	0.7446E-02	0.3618E-02	0.6700E 00	0.1489
5.000	0.2306E-00	0.2627E-01	0.3073E-01	0.8859E-02	0.6307E-02	0.3040E-02	0.6942E 00	0.1388
5.500	0.2185E-00	0.2310E-01	0.2731E-01	0.7952E-02	0.5351E-02	0.2559E-02	0.7152E 00	0.1300
6.000	0.2077E-00	0.2039E-01	0.2437E-01	0.7156E-02	0.4543E-02	0.2155E-02	0.7337E 00	0.1223

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.2295	2140.6	1.3791	12.0107	756.8	34.0276	14180.0	1.1497	1.2167	15.3181
0.5	6.9065	2068.9	1.4040	10.8667	802.8	28.8829	13707.3	1.1616	1.2148	13.4080
1.0	6.6642	1980.2	1.4249	10.0087	842.7	25.2094	13309.8	1.1724	1.2157	12.0558
1.5	6.4757	1926.8	1.4427	9.3614	877.8	22.4331	12962.4	1.1825	1.2186	11.0477
2.0	6.3250	1884.1	1.4581	8.8076	908.8	20.2359	12651.2	1.1922	1.2227	10.2668
2.5	6.2016	1849.1	1.4715	8.3708	936.5	18.4956	12367.0	1.2017	1.2278	9.6439
3.0	6.0988	1820.0	1.4835	8.0068	961.4	17.0425	12103.9	1.2110	1.2334	9.1351
3.5	6.0118	1795.4	1.4998	7.6988	983.8	15.8181	11857.5	1.2202	1.2397	8.7117
4.0	5.9373	1774.2	1.5031	7.4349	1004.3	14.7709	11624.7	1.2295	1.2465	8.3547
4.5	5.8727	1755.3	1.5114	7.2061	1022.3	13.8697	11403.1	1.2387	1.2536	8.0469
5.0	5.8161	1738.9	1.5190	7.0059	1040.0	13.0744	11192.0	1.2480	1.2611	7.7811
5.5	5.7663	1725.8	1.5258	6.8292	1055.8	12.3774	10988.9	1.2573	1.2689	7.5484
6.0	5.7219	1713.2	1.5321	6.6722	1070.9	11.7587	10792.9	1.2668	1.2770	7.3429

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	1065.851	4561.1	1687.1	3016.86	3.9981	10.6585	7.6018	1.7882	0.5592	1.2754
0.5	1073.248	4462.1	1792.8	3192.43	3.9765	10.7325	7.4368	1.7807	0.5616	1.2339
1.0	1072.814	4371.9	1880.1	3334.35	3.9565	10.7281	7.2865	1.7735	0.5639	1.2045
1.5	1067.568	4288.5	1953.6	3450.96	3.9315	10.6757	7.1475	1.7664	0.5661	1.1827
2.0	1059.293	4210.5	2016.3	3547.81	3.9039	10.5929	7.0175	1.7596	0.5683	1.1657
2.5	1049.011	4136.9	2070.3	3628.88	3.8751	10.4901	6.8949	1.7528	0.5705	1.1521
3.0	1037.431	4067.0	2117.2	3697.05	3.8457	10.3743	6.7783	1.7462	0.5727	1.1409
3.5	1024.912	4000.1	2158.3	3754.58	3.8163	10.2491	6.6668	1.7396	0.5749	1.1316
4.0	1011.743	3935.8	2194.6	3803.19	3.7870	10.1174	6.5597	1.7330	0.5770	1.1236
4.5	998.168	3873.8	2226.7	3844.19	3.7581	9.9817	6.4566	1.7264	0.5792	1.1167
5.0	984.305	3813.8	2255.2	3878.71	3.7294	9.8430	6.3564	1.7199	0.5814	1.1106
5.5	970.271	3755.6	2280.6	3907.57	3.7012	9.7027	6.2593	1.7134	0.5836	1.1053
6.0	956.102	3698.8	2303.4	3931.53	3.6733	9.5610	6.1647	1.7068	0.5859	1.1005

PI= 100.000

TI=700.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6037E 00	0.1404E-00	0.1470E-00	0.3795E-01	0.4666E-01	0.2428E-01	0.	0.4221
0.500	0.5083E 00	0.1117E-00	0.1184E-00	0.3095E-01	0.3659E-01	0.1889E-01	0.1752E-00	0.3504
1.000	0.4407E-00	0.9143E-01	0.9792E-01	0.2592E-01	0.2941E-01	0.1507E-01	0.2995E-00	0.2995
1.500	0.3903E-00	0.7633E-01	0.8262E-01	0.2212E-01	0.2405E-01	0.1223E-01	0.3923E-00	0.2616
2.000	0.3512E-00	0.6466E-01	0.7073E-01	0.1915E-01	0.1991E-01	0.1009E-01	0.4643E-00	0.2321
2.500	0.3200E-00	0.5541E-01	0.6124E-01	0.1676E-01	0.1664E-01	0.8463E-02	0.5216E 00	0.2086
3.000	0.2965E-00	0.4790E-01	0.5369E-01	0.1479E-01	0.1401E-01	0.6975E-02	0.5684E 00	0.1899
3.500	0.2732E-00	0.4169E-01	0.4704E-01	0.1313E-01	0.1187E-01	0.5866E-02	0.6072E 00	0.1735
4.000	0.2551E-00	0.3650E-01	0.4161E-01	0.1173E-01	0.1009E-01	0.4952E-02	0.6400E 00	0.1600
4.500	0.2396E-00	0.3209E-01	0.3698F-01	0.1052E-01	0.8613E-02	0.4196E-02	0.6680E 00	0.1485
5.000	0.2261E-00	0.2833E-01	0.3294E-01	0.9471E-02	0.7369E-02	0.3564E-02	0.6922E 00	0.1384
5.500	0.2142E-00	0.2507E-01	0.2951E-01	0.8550E-02	0.6317E-02	0.3033E-02	0.7133E 00	0.1297
6.000	0.2037E-00	0.2225E-01	0.2647F-01	0.7737E-02	0.5423E-02	0.2584E-02	0.7319E 00	0.1220

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	7.3192	2867.9	1.3727	12.0107	819.6	34.9656	14791.7	1.1496	1.2196	15.2102
0.5	6.9833	2749.4	1.3977	10.8667	865.2	29.7138	14272.6	1.1612	1.2169	13.3270
1.0	6.7316	2650.0	1.4189	10.0087	908.3	25.9532	13865.0	1.1716	1.2173	11.9917
1.5	6.5355	2577.4	1.4369	9.3614	946.2	23.1166	13478.0	1.1813	1.2195	10.9991
2.0	6.3787	2519.3	1.4525	R.R076	979.7	20.8886	13155.5	1.1907	1.2232	10.2224
2.5	6.2505	2471.R	1.4661	R.370R	1009.6	19.0865	12860.R	1.1998	1.2276	9.6056
3.0	6.1436	2432.2	1.4781	R.0068	1036.6	17.5987	12592.4	1.2087	1.2329	9.1017
3.5	6.0532	2398.7	1.4887	7.698R	1060.9	16.3446	12345.4	1.2175	1.2386	8.6821
4.0	5.9757	2370.0	1.4982	7.4949	1083.0	15.2725	12119.9	1.2263	1.2448	8.3272
4.5	5.9085	2345.1	1.506R	7.2061	1103.2	14.3695	11889.3	1.2351	1.2514	8.0231
5.0	5.4497	2323.1	1.5145	7.0059	1121.7	13.5348	11679.9	1.2439	1.2583	7.7594
5.5	5.7979	2304.1	1.5215	6.8292	1138.7	12.8205	11479.6	1.2528	1.2656	7.5287
6.0	5.7518	2287.0	1.5279	6.6722	1154.4	12.1850	11287.2	1.2617	1.2731	7.3249

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	910.317	4548.1	1690.6	2999.66	3.6779	9.1032	6.4972	1.7743	0.4636	1.2664
0.5	916.690	4453.6	1796.1	3174.17	3.6686	9.1669	6.3614	1.7673	0.5654	1.2264
1.0	916.571	4366.7	1883.4	3315.57	3.6501	9.1657	6.2381	1.7604	0.5681	1.1981
1.5	912.513	4287.0	1957.0	3437.05	3.6272	9.1251	6.1243	1.7537	0.5702	1.1770
2.0	905.928	4212.7	2019.9	3529.00	3.6021	9.0593	6.0182	1.7471	0.5724	1.1606
2.5	897.725	4142.7	2074.2	3610.49	3.5759	8.9773	5.9182	1.7406	0.5745	1.1475
3.0	888.408	4076.6	2121.6	3679.23	3.5495	8.8841	5.8234	1.7342	0.5766	1.1367
3.5	878.353	4013.0	2163.1	3737.54	3.5231	8.7835	5.7329	1.7278	0.5788	1.1277
4.0	867.795	3952.2	2199.9	3787.01	3.4968	8.6780	5.6461	1.7215	0.5809	1.1200
4.5	856.890	3893.7	2232.5	3829.03	3.4709	8.5689	5.5625	1.7151	0.5830	1.1134
5.0	845.777	3837.2	2261.4	3866.68	3.4454	8.4578	5.4817	1.7089	0.5852	1.1076
5.5	834.487	3782.5	2287.6	3899.78	3.4203	8.3449	5.4033	1.7026	0.5873	1.1024
6.0	823.123	3729.0	2311.0	3920.11	3.3956	8.2312	5.3272	1.6963	0.5895	1.0978

PI= 1000.000

TI=700.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.7771E 00	0.9183E-01	0.9018E-01	0.2185E-01	0.1232E-01	0.6732E-02	0.	0.4597
0.500	0.6425E 00	0.6952F-01	0.6925E-01	0.1706E-01	0.9014E-02	0.4870E-02	0.1078E-00	0.3755
1.000	0.5497E 00	0.5615E-01	0.5672E-01	0.1371E-01	0.6765E-02	0.3605E-02	0.3176E-00	0.3176
1.500	0.4816F-00	0.4729RE-01	0.4804E-01	0.1122E-01	0.5120F-02	0.2707E-02	0.4123E-00	0.2749
2.000	0.4294F-00	0.4145RF-01	0.4260F-01	0.9312E-02	0.3924E-02	0.2052E-02	0.4847E-00	0.2423
2.500	0.3881E-00	0.3780RE-01	0.3969E-01	0.7802E-02	0.3026E-02	0.1565E-02	0.5417E 00	0.2167
3.000	0.3545E-00	0.3495E-01	0.3667E-01	0.6582E-02	0.2342E-02	0.1197E-02	0.5877E 00	0.1959
3.500	0.3266E-00	0.3285F-01	0.3060E-01	0.5581E-02	0.1816E-02	0.9177E-03	0.6297E 00	0.1788
4.000	0.3030F-00	0.3155E-01	0.1727E-01	0.4750E-02	0.1409E-02	0.7057E-03	0.6574E 00	0.1643
4.500	0.2827E-00	0.1298E-01	0.1451E-01	0.4059E-02	0.1094E-02	0.5399E-03	0.6843E 00	0.1521
5.000	0.2650E-00	0.1061E-01	0.1222E-01	0.3464F-02	0.8477E-03	0.4128E-03	0.7074E 00	0.1415
5.500	0.2495E-00	0.8776E-02	0.1030E-01	0.2964E-02	0.6562E-03	0.3154E-03	0.7275E 00	0.1323
6.000	0.2358E-00	0.7262E-02	0.8694E-02	0.2538E-02	0.5070E-03	0.2404E-03	0.7450E 00	0.1242

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.6660	-669.9	1.4247	12.0107	444.1	22.4282	13217.3	1.1560	1.1896	16.5629
0.5	6.4234	-645.8	1.4479	10.8667	470.7	19.1013	12788.2	1.1748	1.2006	14.2824
1.0	6.2415	-624.9	1.4671	10.0087	493.7	16.7648	12375.0	1.1918	1.2121	12.7077
1.5	6.1000	-609.1	1.4832	9.3614	513.8	15.0253	11978.8	1.2076	1.2240	11.5543
2.0	5.9868	-597.0	1.4968	R.R076	531.6	13.6743	11600.4	1.2227	1.2360	10.6724
2.5	5.8942	-587.0	1.5086	R.370R	547.4	12.5916	11238.6	1.2372	1.2481	9.9761
3.0	5.8170	-578.7	1.5189	R.0068	561.6	11.7049	10891.8	1.2513	1.2604	9.4119
3.5	5.7517	-571.7	1.5279	7.698R	574.5	10.9639	10559.4	1.2652	1.2727	8.9655
4.0	5.6958	-565.7	1.5358	7.4949	586.1	10.3365	10240.3	1.2787	1.2850	8.5532
4.5	5.6472	-560.5	1.5429	7.2061	596.7	9.7988	9933.6	1.2920	1.2973	8.2186
5.0	5.6048	-555.9	1.5493	7.0059	606.4	9.3335	9638.6	1.3052	1.3095	7.9298
5.5	5.5673	-551.9	1.5551	6.8292	615.4	8.9284	9355.1	1.3180	1.3217	7.6779
6.0	5.5341	-548.4	1.5603	6.6722	623.6	8.5735	9081.7	1.3307	1.3338	7.4562

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	34432.724	5161.4	1730.6	3184.30	7.1696	34.4327	25.8068	1.8399	0.5435	1.3790
0.5	34795.424	4998.5	1849.0	3377.65	7.1751	34.7954	24.9925	1.8267	0.5474	1.3143
1.0	34668.664	4847.9	1944.3	3528.67	7.1672	34.6687	24.2397	1.8149	0.5510	1.2697
1.5	34327.045	4707.3	2027.6	3648.56	7.1006	34.3270	23.5364	1.8039	0.5543	1.2369
2.0	33860.077	4574.8	2097.6	3744.65	7.0436	33.8601	22.8741	1.7937	0.5575	1.2117
2.5	33302.583	4449.4	2161.9	3821.28	6.9802	33.3026	22.2469	1.7840	0.5605	1.1918
3.0	32685.718	4330.0	2187.8	3882.74	6.9131	32.6857	21.6498	1.7747	0.5635	1.1755
3.5	32033.893	4215.9	2226.6	3931.57	6.8438	32.0339	21.0795	1.7657	0.5663	1.1619
4.0	31361.282	4106.6	2259.4	3969.94	6.7735	31.3613	20.5331	1.7571	0.5691	1.1504
4.5	30678.857	4001.7	2287.1	3999.68	6.7026	30.6789	20.0085	1.7487	0.5718	1.1405
5.0	29993.614	3900.8	2310.4	4021.66	6.6318	29.9936	19.5038	1.7406	0.5745	1.1319
5.5	29312.561	3803.6	2329.9	4037.48	6.5613	29.3126	19.0178	1.7329	0.5771	1.1243
6.0	28636.686	3709.8	2346.3	4047.86	6.4912	28.6367	18.5490	1.7252	0.5796	1.1175

PI= 1000.000

TI=290.1500 M= 0.

N	MU(H2O)	FV(OH)	MU(H2)	MU(O2)	MU(H)	MU(O)	MU(HE)	1/NF
0.	0.7952E 00	0.9952E-01	0.9810E-01	0.2984E-01	0.1509E-01	0.8217E-02	0.	0.4553
0.500	0.6259F 00	0.7595E-01	0.7509F-01	0.1874E-01	0.1116E-01	0.6017E-02	0.1863E-00	0.3727
1.000	0.5364E 00	0.5964E-01	0.6043E-01	0.1516E-01	0.8856E-02	0.4510E-02	0.3154E-00	0.3154
1.500	0.4706E-00	0.4776E-01	0.4906E-01	0.1298E-01	0.6502E-02	0.3433E-02	0.4101E-00	0.2734
2.000	0.4202E-00	0.3877E-01	0.4008E-01	0.1045E-01	0.5031E-02	0.2644E-02	0.4825E-00	0.2413
2.500	0.3802F-00	0.3178F-01	0.3368F-01	0.8821E-02	0.3951E-02	0.2064E-02	0.5396E 00	0.2158
3.000	0.3477E-00	0.2624F-01	0.2816F-01	0.7582E-02	0.3185E-02	0.1599E-02	0.5857E 00	0.1952
3.500	0.3206E-00	0.2178E-01	0.2374E-01	0.6415E-02	0.2644E-02	0.1239E-02	0.6238E 00	0.1782
4.000	0.2977E-00	0.1815E-01	0.2009E-01	0.5508E-02	0.1931E-02	0.9669E-03	0.6557E 00	0.1639
4.500	0.2780E-00	0.1516E-01	0.1706E-01	0.4745E-02	0.1525E-02	0.7550E-03	0.6827E 00	0.1517
5.000	0.2609E-00	0.1269E-01	0.1452F-01	0.4091E-02	0.1208F-02	0.5892E-03	0.7060E 00	0.1412
5.500	0.2459F-00	0.1069F-01	0.1238F-01	0.3530E-02	0.9580E-03	0.4594E-03	0.7262E 00	0.1320
6.000	0.2325F-00	0.8916E-02	0.1056F-01	0.3061E-02	0.7680E-03	0.3576E-03	0.7438E 00	0.1240

N	CPI	MI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.9350	0.	1.4016	17.0187	537.9	23.4219	13762.7	1.1559	1.1936	16.4061
0.5	6.6540	0.	1.4258	10.8667	578.3	19.9494	13297.7	1.1739	1.2029	16.1761
1.0	6.4439	0.	1.4459	10.0887	598.4	17.5047	12866.5	1.1901	1.2131	12.6281
1.5	6.2794	0.	1.4638	9.5414	623.1	15.6780	12463.9	1.2051	1.2237	11.4932
2.0	6.1485	0.	1.4776	9.0076	644.9	14.2583	12084.8	1.2194	1.2347	10.6242
2.5	6.0410	0.	1.4902	8.5708	664.9	13.1191	11726.0	1.2333	1.2459	9.9371
3.0	5.9516	0.	1.5015	8.0868	681.8	12.1839	11385.0	1.2468	1.2573	9.3799
3.5	5.8759	0.	1.5110	7.6988	697.5	11.4019	11060.0	1.2599	1.2687	8.9188
4.0	5.8111	0.	1.5197	7.4349	711.8	10.7377	10749.2	1.2728	1.2802	8.5307
4.5	5.7549	0.	1.5276	7.2061	724.9	10.1676	10450.9	1.2856	1.2919	8.1996
5.0	5.7057	0.	1.5344	7.0059	736.8	9.6740	10164.5	1.2982	1.3035	7.9136
5.5	5.6623	0.	1.5407	6.8292	747.8	9.2427	9889.4	1.3106	1.3151	7.6640
6.0	5.6247	0.	1.5464	6.6722	758.0	8.8634	9624.5	1.3228	1.3266	7.4443

N	P	T	A	UD	ND	P/P1	T/T1	RAU/RAU1	U2/U1	M/M1
0.	22982.452	5121.8	1792.2	5165.49	5.8853	22.9825	17.1706	1.0275	0.5472	1.3660
0.5	23189.481	4968.4	1849.7	5357.48	5.8869	23.1895	16.6640	1.0151	0.5509	1.3044
1.0	23147.122	4826.8	1904.8	5508.35	5.8624	23.1471	16.1893	1.0040	0.5543	1.2617
1.5	22955.801	4694.8	2023.1	5628.88	5.8299	22.9558	15.7464	1.7937	0.5575	1.2303
2.0	22670.652	4570.6	2088.5	5725.69	5.7775	22.6707	15.3299	1.7839	0.5606	1.2063
2.5	22326.229	4453.0	2143.6	5809.99	5.7261	22.3262	14.9355	1.7745	0.5635	1.1871
3.0	21941.534	4341.1	2190.4	5867.15	5.6721	21.9.35	14.5602	1.7655	0.5664	1.1715
3.5	21538.035	4234.9	2230.1	5917.97	5.6178	21.5380	14.2018	1.7569	0.5692	1.1585
4.0	21118.119	4131.8	2264.8	5958.54	5.5611	21.1181	13.8583	1.7485	0.5719	1.1474
4.5	20689.619	4033.4	2293.8	5990.44	5.5050	20.6896	13.5280	1.7403	0.5744	1.1379
5.0	20258.799	3938.6	2317.8	6015.82	5.4489	20.2588	13.2101	1.7323	0.5773	1.1296
5.5	19828.948	3847.2	2338.8	6039.36	5.3931	19.8289	12.9035	1.7245	0.5799	1.1222
6.0	19402.069	3758.9	2356.6	6046.31	5.3381	19.4021	12.6075	1.7170	0.5824	1.1157

PI= 1000.000

TI=300.0000 M= 0.

N	MU(H2O)	MU(OH)	MU(H2)	MU(O2)	MU(H)	MU(O)	MU(HE)	1/NF
0.	0.7549E 00	0.9964E-01	0.9824E-01	0.2987E-01	0.1514E-01	0.8243E-02	0.	0.4552
0.500	0.6256F 00	0.7605F-01	0.7601F-01	0.1877F-01	0.1120E-01	0.6037E-02	0.1863E-00	0.3726
1.000	0.5362F 00	0.5974F-01	0.6052F-01	0.1518E-01	0.8886F-02	0.4527E-02	0.3154E-00	0.3154
1.500	0.4704E-00	0.4784F-01	0.4915E-01	0.1252E-01	0.6527E-02	0.3446E-02	0.4101E-00	0.2734
2.000	0.4200E-00	0.3884E-01	0.4047E-01	0.1047E-01	0.5072E-02	0.2651E-02	0.4825E-00	0.2412
2.500	0.3801E-00	0.3185E-01	0.3367F-01	0.8898E-02	0.3968E-02	0.2059E-02	0.5395E 00	0.2158
3.000	0.3475F-00	0.2630E-01	0.2822F-01	0.7598E-02	0.3119E-02	0.1596E-02	0.5857E 00	0.1952
3.500	0.3205E-00	0.2183E-01	0.2379F-01	0.6642E-02	0.2458E-02	0.1245E-02	0.6238E 00	0.1782
4.000	0.2976F-00	0.1820E-01	0.2016F-01	0.5921E-02	0.1941E-02	0.9719E-03	0.6556E 00	0.1639
4.500	0.2779E-00	0.1521E-01	0.1711E-01	0.4755E-02	0.1593E-02	0.7592E-03	0.6827E 00	0.1517
5.000	0.2609E-00	0.1273E-01	0.1456E-01	0.4104E-02	0.1211E-02	0.5927E-03	0.7060E 00	0.1412
5.500	0.2458E-00	0.1067E-01	0.1241E-01	0.3548E-02	0.9559E-03	0.4623E-03	0.7261E 00	0.1320
6.000	0.2325F-00	0.8947E-02	0.1060F-01	0.3070E-02	0.7516E-03	0.3600E-03	0.7438E 00	0.1240

N	CPI	MI	GAMI	MI	AI	CP	M	GAM	GAM*	M
0.	6.9371	12.8	1.4015	12.8107	539.5	23.4385	13773.8	1.1559	1.1936	16.4035
0.5	6.6558	12.9	1.4256	10.8667	572.1	19.9637	13307.8	1.1739	1.2030	16.1722
1.0	6.4448	11.9	1.4458	10.0887	600.9	17.5149	12876.5	1.1901	1.2131	12.6267
1.5	6.2808	11.6	1.4628	9.5414	625.8	15.6888	12473.4	1.2051	1.2238	11.4922
2.0	6.1495	11.4	1.4774	9.0076	644.9	14.2688	12094.2	1.2194	1.2347	10.6233
2.5	6.0421	11.2	1.4901	8.5708	666.3	13.1285	11735.6	1.2332	1.2459	9.9364
3.0	5.9526	11.0	1.5011	8.0868	683.8	12.1927	11394.7	1.2466	1.2572	9.3793
3.5	5.8769	10.9	1.5109	7.6988	699.7	11.4097	11069.7	1.2598	1.2687	8.9185
4.0	5.8120	10.7	1.5196	7.4349	714.0	10.7449	10758.8	1.2727	1.2802	8.5303
4.5	5.7557	10.6	1.5275	7.2061	727.1	10.1744	10460.8	1.2854	1.2918	8.1993
5.0	5.7065	10.5	1.5343	7.0059	739.1	9.6799	10174.4	1.2981	1.3035	7.9133
5.5	5.6630	10.5	1.5406	6.8292	750.1	9.2483	9899.5	1.3104	1.3150	7.6638
6.0	5.6244	10.4	1.5463	6.6722	760.9	8.8688	9634.9	1.3227	1.3265	7.4441

N	P	T	A	UD	ND	P/P1	T/T1	RAU/RAU1	U2/U1	M/M1
0.	22839.146	5121.9	1792.2	5165.28	5.8670	22.8391	17.0789	1.0272	0.5473	1.3657
0.5	23044.584	4968.8	1849.7	5357.88	5.8685	23.0446	16.5688	1.0149	0.5510	1.3042
1.0	23003.251	4826.6	1904.8	5508.89	5.8441	23.0033	16.0887	1.0038	0.5544	1.2616
1.5	22813.032	4694.7	2023.2	5628.45	5.8056	22.8130	15.6490	1.7934	0.5576	1.2302
2.0	22530.334	4570.6	2088.6	5725.34	5.7592	22.5303	15.2355	1.7837	0.5606	1.2062
2.5	22180.743	4453.2	2143.7	5809.65	5.7082	22.1807	14.8440	1.7744	0.5636	1.1870
3.0	21809.300	4341.4	2190.4	5866.87	5.6546	21.8093	14.4715	1.7656	0.5665	1.1714
3.5	21406.217	4234.7	2230.2	5917.77	5.5996	21.4062	14.1156	1.7567	0.5692	1.1584
4.0	20988.943	4132.9	2264.2	5958.99	5.5439	20.9889	13.7745	1.7483	0.5720	1.1473
4.5	20564.524	4034.8	2293.1	5990.91	5.4888	20.5645	13.4468	1.7401	0.5747	1.1378
5.0	20136.160	3939.9	2318.8	6016.92	5.4322	20.1362	13.1311	1.7321	0.5773	1.1295
5.5	19709.719	3848.8	2339.8	6033.29	5.3767	19.7097	12.8268	1.7244	0.5799	1.1222
6.0	19285.076	3759.9	2356.8	6046.34	5.3219	19.2850	12.5329	1.7168	0.5825	1.1157

PI= 1000.000

TI=400.0000 M= 0.

R	MU(H2O)	MU(OH)	MU(H2)	MU(O2)	MU(H)	MU(O)	MU(HE)	1/NF
0.	0.7960E 00	0.1059E-00	0.1046E-00	0.2546E-01	0.1765E-01	0.9596E-02	0.	0.4516
0.500	0.6116E 00	0.8139E-01	0.8148E-01	0.2014E-01	0.1328E-01	0.7101E-02	0.1851E-00	0.3702
1.000	0.5248E 00	0.6498E-01	0.6538E-01	0.1639E-01	0.1010E-01	0.5584E-02	0.3137E-00	0.3137
1.500	0.4609E-00	0.5194F-01	0.5258E-01	0.1399E-01	0.7857E-02	0.4167E-02	0.4082E-00	0.2721
2.000	0.4119F-00	0.4250F-01	0.4426F-01	0.1149F-01	0.6177E-02	0.3238E-02	0.4805E-00	0.2402
2.500	0.3750E-00	0.3515E-01	0.3789E-01	0.9718E-02	0.4894E-02	0.2536E-02	0.5376E 00	0.2151
3.000	0.3413E-00	0.2927E-01	0.3139E-01	0.8122E-02	0.3897E-02	0.1998E-02	0.5839E 00	0.1946
3.500	0.3150E-00	0.2452E-01	0.2662E-01	0.7169E-02	0.3115E-02	0.1581E-02	0.6220E 00	0.1777
4.000	0.2927E-00	0.2063E-01	0.2273E-01	0.6203E-02	0.2496E-02	0.1254E-02	0.6540E 00	0.1635
4.500	0.2736F-00	0.1741F-01	0.1947E-01	0.5589E-02	0.2002E-02	0.9955E-03	0.6812E 00	0.1514
5.000	0.2569E-00	0.1475E-01	0.1679E-01	0.4687E-02	0.1607E-02	0.7986E-03	0.7045E 00	0.1409
5.500	0.2423F-00	0.1249E-01	0.1448E-01	0.4088E-02	0.1290E-02	0.6277E-03	0.7248E 00	0.1318
6.000	0.2293E-00	0.1059E-01	0.1242E-01	0.3570E-02	0.1035E-02	0.4981E-03	0.7426E 00	0.1238

R	CPI	HI	GAPI	MI	AI	CP	M	GAM	GAMA	M
0.	7.0449	712.6	1.9926	12.0187	621.0	24.2688	14389.8	1.1560	1.1970	16.2715
0.5	6.7516	683.1	1.4171	10.8667	650.6	20.6718	13679.6	1.1733	1.2051	14.0795
1.0	6.5287	660.9	1.4376	10.0007	691.2	18.1389	13423.1	1.1888	1.2143	12.5575
1.5	6.3553	643.7	1.4549	9.3414	719.7	16.2458	13006.6	1.2032	1.2239	11.4382
2.0	6.2166	630.0	1.4698	8.8076	745.0	14.7716	12670.8	1.2169	1.2340	10.5801
2.5	6.1031	618.7	1.4828	8.3708	767.6	13.5890	12268.2	1.2301	1.2444	9.9009
3.0	6.0085	609.3	1.4942	8.0060	787.8	12.6154	11928.0	1.2431	1.2551	9.3497
3.5	5.9285	601.4	1.5042	7.6988	806.1	11.8006	11598.2	1.2556	1.2658	8.8933
4.0	5.8599	594.5	1.5131	7.4349	822.7	11.1084	11292.0	1.2680	1.2766	8.5098
4.5	5.8004	588.6	1.5211	7.2061	837.9	10.5122	10999.4	1.2802	1.2875	8.1809
5.0	5.7484	583.5	1.5283	7.0059	851.8	9.9958	10719.1	1.2922	1.2985	7.8976
5.5	5.7025	578.9	1.5349	6.8292	864.6	9.5432	10450.1	1.3042	1.3096	7.6500
6.0	5.6617	574.9	1.5408	6.6722	876.4	9.1439	10192.0	1.3159	1.3205	7.4321

R	P	T	A	UD	ND	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	17079.772	5099.3	1735.5	9140.97	9.0710	17.0798	12.7483	1.8144	0.5511	1.3548
0.5	17231.687	4953.5	1852.6	9340.00	9.0716	17.2317	12.5838	1.8029	0.5547	1.2957
1.0	17211.907	4819.5	1947.7	9490.83	9.0507	17.2115	12.0489	1.7923	0.5579	1.2547
1.5	17089.836	4694.3	2026.3	9611.77	9.0189	17.0858	11.[illegible]	1.7825	0.5610	1.2245
2.0	16889.216	4576.9	2092.2	9709.56	8.9742	16.8862	11.[illegible]	1.7731	0.5640	1.2012
2.5	16651.926	4465.9	2147.9	9789.89	8.9366	16.6519	11.1647	1.7641	0.5669	1.1828
3.0	16386.292	4360.2	2195.5	9855.81	8.8961	16.3863	10.9086	1.7554	0.5697	1.1677
3.5	16104.039	4259.4	2236.1	9908.44	8.8461	16.1048	10.6486	1.7470	0.5724	1.1551
4.0	15811.224	4162.8	2271.1	9948.90	8.7990	15.8112	10.4070	1.7388	0.5751	1.1445
4.5	15512.201	4070.0	2301.2	9982.85	8.7534	15.5122	10.1750	1.7308	0.5778	1.1353
5.0	15210.362	3980.6	2327.1	4009.58	4.7079	15.2104	9.9514	1.7230	0.5804	1.1273
5.5	14907.926	3894.3	2349.5	4010.17	4.6619	14.9079	9.7357	1.7153	0.5830	1.1202
6.0	14608.261	3811.0	2368.6	4045.40	4.6161	14.6083	9.5274	1.7079	0.5855	1.1139

PI= 1000.000

TI=500.0000 M= 0.

R	MU(H2O)	MU(OH)	MU(H2)	MU(O2)	MU(H)	MU(O)	MU(HE)	1/NF
0.	0.7209E 00	0.1115E-00	0.1101F-00	0.2681E-01	0.2001E-01	0.1086E-01	0.	0.4483
0.500	0.5992E 00	0.8605E-01	0.8622F-01	0.2131E-01	0.1509E-01	0.8116E-02	0.1840E-00	0.3680
1.000	0.5146E 00	0.6858E-01	0.6949E-01	0.1745E-01	0.1166E-01	0.6216E-02	0.5121E-00	0.3121
1.500	0.4529E-00	0.5562E-01	0.5715E-01	0.1453E-01	0.9140E-02	0.4837E-02	0.6064E-00	0.2709
2.000	0.4045E-00	0.4582E-01	0.4766E-01	0.1229E-01	0.7298E-02	0.3808E-02	0.6787E-00	0.2395
2.500	0.3665E-00	0.3815E-01	0.4019E-01	0.1051E-01	0.5838E-02	0.3025E-02	0.5358E 00	0.2143
3.000	0.3355E-00	0.3202E-01	0.3418E-01	0.9051E-02	0.4697E-02	0.2419E-02	0.5821E 00	0.1940
3.500	0.3098E-00	0.2704E-01	0.2929E-01	0.7866E-02	0.3808E-02	0.1934E-02	0.6203E 00	0.1772
4.000	0.2880E-00	0.2295E-01	0.2519F-01	0.6898E-02	0.3094E-02	0.1555E-02	0.6524E 00	0.1631
4.500	0.2699E-00	0.1954E-01	0.2172E-01	0.5978E-02	0.2542E-02	0.1252E-02	0.6797E 00	0.1510
5.000	0.2531E-00	0.1669E-01	0.1881E-01	0.5238E-02	0.2042E-02	0.1010E-02	0.7031E 00	0.1406
5.500	0.2380E-00	0.1428E-01	0.1633E-01	0.4605E-02	0.1663E-02	0.8142E-03	0.7235E 00	0.1315
6.000	0.2761F-00	0.1224F-01	0.1420F-01	0.4052E-02	0.1355E-02	0.6568E-03	0.7414E 00	0.1236

R	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAMA	M
0.	7.1393	1422.0	1.3857	12.0187	692.6	24.9699	15034.5	1.1561	1.2001	16.1946
0.5	6.8291	1362.1	1.4184	10.8667	734.6	21.2078	14476.5	1.1728	1.2072	13.9963
1.0	6.5965	1317.2	1.4511	10.0007	771.0	18.6063	13991.1	1.1879	1.2155	12.4946
1.5	6.4156	1282.3	1.4687	9.3414	803.0	16.7398	13557.4	1.2018	1.2244	11.3886
2.0	6.2708	1254.3	1.4699	8.8076	831.3	15.2258	13162.3	1.2149	1.2337	10.5400
2.5	6.1524	1231.5	1.4771	8.3708	856.5	14.0032	12796.3	1.2277	1.2434	9.8676
3.0	6.0537	1212.4	1.4837	8.0060	879.2	12.9999	12454.9	1.2401	1.2534	9.3216
3.5	5.9702	1196.3	1.4899	7.6988	899.7	12.1398	12133.5	1.2522	1.2635	8.8693
4.0	5.8986	1182.5	1.5000	7.4349	918.3	11.4435	11829.4	1.2641	1.2738	8.4883
4.5	5.8366	1170.5	1.5162	7.2061	935.3	10.8201	11540.3	1.2757	1.2840	8.1629
5.0	5.7823	1160.8	1.5236	7.0059	950.9	10.2926	11264.4	1.2873	1.2944	7.8817
5.5	5.7344	1152.0	1.5303	6.8292	965.2	9.8295	11000.1	1.2987	1.3049	7.6362
6.0	5.6918	1142.5	1.5364	6.6722	978.4	9.4098	10747.0	1.3100	1.3154	7.4199

R	P	T	A	UD	ND	P/PI	T/TI	RAU/RAUI	U2/U1	M/MI
0.	19627.923	5887.3	1799.8	9194.37	4.5258	19.6279	10.1746	1.8015	0.5551	1.1450
0.5	19757.659	5947.7	1856.7	3329.68	4.5261	19.7575	9.8955	1.7907	0.5584	1.2080
1.0	19748.462	4819.5	1951.9	9475.47	4.5077	19.7485	9.6398	1.7806	0.5616	1.2484
1.5	19656.748	4700.3	2030.8	9596.82	4.4795	19.6567	9.4086	1.7711	0.5646	1.2192
2.0	19519.759	4588.5	2097.1	9695.42	4.4456	19.5198	9.1771	1.7622	0.5675	1.1967
2.5	19356.374	4482.9	2155.5	9776.81	4.4087	19.3564	8.9658	1.7534	0.5703	1.1788
3.0	19150.060	4382.6	2201.7	9842.87	4.3701	19.1501	8.7652	1.7450	0.5731	1.1642
3.5	18925.997	4286.9	2244.2	9896.10	4.3304	12.9260	8.5737	1.7368	0.5758	1.1520
4.0	18705.262	4195.2	2279.2	9940.29	4.2909	12.7053	8.3904	1.7291	0.5784	1.1417
4.5	18480.190	4107.1	2310.2	9975.92	4.2511	12.4802	8.2143	1.7211	0.5810	1.1328
5.0	12252.372	4022.4	2337.1	4004.58	4.2116	12.2524	8.0447	1.7134	0.5836	1.1250
5.5	12029.911	3940.6	2360.6	4027.03	4.1723	12.0239	7.8811	1.7059	0.5862	1.1182
6.0	11796.874	3861.5	2380.9	4044.29	4.1335	11.7969	7.7231	1.6986	0.5887	1.1121

PI= 1000.000

TI=600.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.7065E 00	0.1161E-00	0.1150E-00	0.2800E-01	0.2228E-01	0.1209E-01	0.	0.4454
0.500	0.5878E 00	0.9029E-01	0.9050E-01	0.2234E-01	0.1694E-01	0.9108E-02	0.1830E-00	0.3660
1.000	0.5052E 00	0.7227E-01	0.7330E-01	0.1836E-01	0.1320E-01	0.7037E-02	0.3106E-00	0.3106
1.500	0.4449E-00	0.5909E-01	0.6059F-01	0.1539F-01	0.1047E-01	0.5529E-02	0.4047E-00	0.2698
2.000	0.3975E-00	0.4893F-01	0.5081F-01	0.1308E-01	0.8393E-02	0.4396E-02	0.4769E-00	0.2385
2.500	0.3603E-00	0.4100E-01	0.4310E-01	0.1123E-01	0.6790E-02	0.3526E-02	C.5341E 00	0.2136
3.000	0.3300E-00	0.3465E-01	0.3686E-01	0.9729E-02	0.5528E-02	0.2846E-02	0.5804E 00	0.1935
3.500	0.3048E-00	0.2947E-01	0.3174E-01	0.8481E-02	0.4522E-02	0.2308E-02	0.6187E 00	0.1768
4.000	0.2835E-00	0.2519F-01	0.2748E-01	0.7430E-02	C.3712E-02	0.1878E-02	0.6508E 00	0.1627
4.500	0.2652E-00	0.2162E-01	0.2389E-01	0.6596E-02	0.3059E-02	0.1532E-02	0.6782E 00	0.1507
5.000	0.2493E-00	0.1862E-01	0.2083F-01	0.5768E-02	0.2519E-02	0.1252E-02	0.7017E 00	0.1403
5.500	0.2351E-00	0.1607E-01	0.1822F-01	0.5103E-02	0.2079E-02	0.1024E-02	0.7222E 00	0.1313
6.000	0.2229E-00	0.1389E-01	0.1597E-01	0.4524E-02	0.1718E-02	0.8378E-03	0.7401E 00	0.1234

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM0	M
0.	7.2295	2140.4	1.3791	12.0107	756.8	25.6047	15697.5	1.1563	1.2031	16.0472
0.5	6.9065	2048.9	1.4040	10.8667	R02.8	21.8438	15089.1	1.1725	1.2092	13.9190
1.0	6.6642	1980.2	1.4249	10.00R7	R42.7	19.1840	14572.9	1.1872	1.216R	12.4357
1.5	6.4787	1926.R	1.4427	9.3414	R77.R	17.1913	14119.7	1.2007	1.2250	11.3419
2.0	6.3250	1884.1	1.4581	R.R076	908.R	15.6391	13712.5	1.2133	1.2337	10.5016
2.5	6.2016	1849.1	1.4715	R.3708	936.5	14.3896	13339.8	1.2256	1.2428	9.8355
3.0	6.0988	1820.0	1.4833	8.0068	961.4	13.3608	12994.5	1.2376	1.2522	9.2944
3.5	6.0118	1795.4	1.493R	7.698R	983.R	12.4979	12672.1	1.2492	1.2617	R.845R
4.0	5.9373	1774.2	1.5031	7.4349	1004.3	11.7631	12368.R	1.2606	1.2714	8.4679
4.5	5.8727	1755.9	1.5114	7.2061	1022.9	11.1308	12081.3	1.2719	1.2812	8.1450
5.0	5.8161	1739.9	1.5190	7.0059	1040.0	10.5790	11808.1	1.2830	1.2911	7.8659
5.5	5.7663	1725.8	1.525R	6.8292	1055.8	10.0956	11547.8	1.2939	1.3010	7.6222
6.0	5.7219	1713.2	1.5321	6.6722	1070.3	9.66R5	11298.5	1.3048	1.3110	7.4074

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	11337.55R	5081.6	1744.R	3120.76	4.1234	11.3376	R.4693	1.7886	0.5591	1.3361
0.5	11448.170	4987.4	1861.5	3310.4R	4.1235	11.4482	R.2457	1.7784	0.5623	1.2809
1.0	11446.4R0	4826.4	1956.9	3461.22	4.1071	11.4465	8.0407	1.7688	0.5654	1.2425
1.5	11377.689	4710.3	2036.2	35R2.94	4.0A19	11.3777	7.8504	1.7597	0.56R3	1.2141
2.0	11267.315	4603.4	2107.9	36R2.25	4.0518	11.2673	7.6723	1.7510	0.5711	1.1923
2.5	11129.412	4502.6	2159.9	3769.R3	4.0192	11.1294	7.5043	1.7426	0.5739	1.1750
3.0	10974.026	4406.9	220R.R	3R30.97	3.9R50	10.9740	7.3448	1.7344	0.5766	1.1608
3.5	10807.83R	4315.7	2251.1	3RR6.35	3.9502	10.807R	7.192R	1.7264	0.5792	1.1490
4.0	10634.475	4228.4	2287.R	3991.99	3.9152	10.6345	7.0479	1.7187	0.581R	1.13R9
4.5	10456.760	4144.6	2319.R	3969.20	3.RR03	10.456R	6.9077	1.7110	C.5844	1.1303
5.0	10277.203	4064.0	2347.7	3999.42	3.RR55	10.2772	6.7733	1.7036	0.5870	1.122R
5.5	10097.470	3986.3	2372.0	4023.67	3.R112	10.0975	6.6438	1.6963	0.5895	1.1161
6.0	9917.815	3911.1	2393.4	4042.75	3.7772	9.917R	6.51R6	1.6891	0.5920	1.1102

PI= 1000.000

TI=700.0000 M= 0.

N	NU(H2O)	NU(OH)	NU(H2)	NU(O2)	NU(H)	NU(O)	NU(HE)	1/NF
0.	0.6991F 00	0.1206F-00	0.1195F-00	0.2907E-01	0.2451E-01	0.1329E-01	0.	0.4625
0.500	0.5771E 00	0.9423E-01	0.9444E-01	0.2331E-01	0.1878E-01	0.1010E-01	0.1820E-00	0.3640
1.000	0.4963F-00	0.7582E-01	0.7685E-01	0.1923E-01	0.1475E-01	0.7863E-02	0.3092E-00	0.3092
1.500	0.4366E-00	0.6225F-01	0.6312E-01	0.1618E-01	0.1179E-01	0.6232E-02	0.4031E-00	0.2687
2.000	0.3907E-00	0.5188E-01	0.5379E-01	0.1381E-01	0.9535E-02	0.5000E-02	0.4752E-00	0.2376
2.500	0.3543F-00	0.4373E-01	0.4585E-01	0.1192E-01	0.7783E-02	0.4040E-02	0.5324E 00	0.2130
3.000	0.3246F-00	0.3718F-01	0.3943F-01	0.1037F-01	0.6396E-02	0.3301E-02	0.5787E 00	0.1929
3.500	0.2999F-00	0.3183F-01	0.3414F-01	0.9085F-02	0.5285F-02	0.2705E-02	0.6171E 00	0.1763
4.000	0.2790E-00	0.2739E-01	0.2973E-01	0.8001E-02	0.4383E-02	0.2225E-02	0.6493E 00	0.1623
4.500	0.2611E-00	0.2367E-01	0.2600E-01	0.7077E-02	0.3647E-02	0.1836E-02	0.6767E 00	0.1504
5.000	0.2455E-00	0.2053F-01	0.2283E-01	0.6282F-02	0.3041E-02	0.1514E-02	0.7003E 00	0.1401
5.500	0.2318F-00	0.1786F-01	0.2010F-01	0.5591F-02	0.2540E-02	0.1257E-02	0.720HE 00	0.1311
6.000	0.2197E-00	0.1557E-01	0.1774F-01	0.4988E-02	0.2124E-02	0.1049F-02	0.73R8E 00	0.1231

N	CPI	HI	GAMI	MI	AI	CP	M	GAM	GAM0	M
0.	7.3192	2867.9	1.3727	12.0107	815.6	26.1886	16376.6	1.1565	1.2060	15.9459
0.5	6.9833	2743.4	1.3977	10.8667	865.2	22.3611	15713.6	1.1724	1.2114	13.8456
1.0	6.7314	2650.0	1.4189	10.00R7	90A.5	19.6485	15164.R	1.1866	1.2181	12.3792
1.5	6.5355	2577.4	1.4369	9.3614	946.2	17.6167	14690.6	1.1997	1.2258	11.2967
2.0	6.3787	2519.3	1.4525	R.R076	979.7	16.0300	14269.6	1.2120	1.2340	10.4643
2.5	6.2505	2471.R	1.4661	R.370R	1009.6	14.7539	13887.R	1.2239	1.2426	9.8062
3.0	6.1446	2432.2	1.4781	R.006R	1036.6	13.7031	13537.6	1.2355	1.2514	9.2675
3.5	6.0532	2398.7	1.4887	7.698R	1060.9	12.R211	13212.6	1.2466	1.2604	R.8225
4.0	5.9757	2370.0	1.4982	7.4349	1083.0	12.0699	1290R.4	1.2576	1.2695	R.4475
4.5	5.9085	2345.1	1.5068	7.2061	1103.2	11.4223	12621.9	1.2685	1.27AR	R.1270
5.0	5.8497	2323.3	1.5145	7.0059	1121.7	10.8578	12350.7	1.2791	1.2881	7.8499
5.5	5.7979	2304.1	1.5215	6.8292	1138.7	10.3621	12092.6	1.2897	1.2976	7.6078
6.0	5.751R	2287.0	1.5279	6.6722	1154.5	9.9224	11R46.4	1.3001	1.3071	7.1946

N	P	T	A	UD	MD	P/PI	T/TI	RAU/RAUI	U2/UI	M/MI
0.	9706.291	5080.3	1750.3	3107.R2	3.R105	9.7063	7.2575	1.7756	0.5632	1.3376
0.5	9802.723	4950.9	1867.0	3297.09	3.R106	9.8027	7.0727	1.7659	0.5663	1.2741
1.0	9806.020	4892.5	1962.5	3447.76	3.7957	9.8060	6.9036	1.756R	0.5692	1.2368
1.5	9752.954	4722.9	2042.1	3569.81	3.772R	9.7530	6.7470	1.7481	0.5721	1.2093
2.0	9664.978	4620.4	2109.4	3669.77	3.765R	9.6650	6.6006	1.7397	0.574R	1.1881
2.5	9554.177	4529.9	2167.0	3752.14	3.7169	9.5542	6.4626	1.7315	0.5775	1.1712
3.0	9428.A12	4442.1	2216.5	3820.92	3.6856	9.428R	6.3319	1.7236	0.5802	1.1575
3.5	9294.513	4345.2	2259.4	3876.87	3.6544	9.2945	6.2075	1.7159	0.582R	1.1460
4.0	9154.022	4261.9	2296.9	3923.70	3.6230	9.1540	6.0885	1.70H3	0.5854	1.1362
4.5	9010.030	4182.0	2329.6	3962.41	3.591R	9.0100	5.9744	1.7009	0.5879	1.1278
5.0	AR64.479	4105.2	235R.4	3994.11	3.560R	R.8645	5.8646	1.6936	0.5905	1.1205
5.5	A719.042	4031.2	2383.7	4019.92	3.5302	R.7181	5.75RR	1.6864	0.5930	1.1140
6.0	R571.975	3959.7	2405.9	4040.59	3.5000	R.5720	5.6567	1.6794	0.5954	1.1083

2. Helium dilution (m=0)

p_i(atm)	m	$-\alpha$	β	T_i(°K)	200	300	400	500	600	700
0.01	2	1.053	3.805	$(p/p_i)ex$ $(p/p_i)ap$	24.04 24.12	15.74 15.74	11.64 11.63	9.19 9.19	7.57 7.59	6.42 6.45
0.01	4	1.048	3.784	"	23.48 23.55	15.40 15.40	11.40 11.39	9.02 9.02	7.43 7.45	6.31 6.34
0.01	6	1.041	3.755	"	22.81 22.88	15.00 15.00	11.13 11.12	8.82 8.82	7.28 7.29	6.18 6.21
1.0	2	1.038	3.840	"	28.22 28.26	18.55 18.55	13.77 13.76	10.92 10.91	9.02 9.03	7.69 7.70
1.0	4	1.029	3.802	"	27.17 27.20	17.92 17.92	13.34 13.33	10.60 10.60	8.78 8.78	7.48 7.50
1.0	6	1.015	3.750	"	25.89 25.91	17.16 17.16	12.82 12.82	10.22 10.22	8.49 8.49	7.25 7.26
1000	2	1.001	3.831	"	33.86 33.80	22.53 22.53	16.89 16.89	13.51 13.51	11.27 11.26	9.67 9.65
1000	4	0.983	3.756	"	31.36 31.26	20.99 20.99	15.81 15.82	12.71 12.71	10.64 10.62	9.15 9.13
1000	6	0.962	3.669	"	28.64 28.49	19.29 19.29	14.61 14.62	11.80 11.80	9.92 9.90	8.57 8.53

3. Hydrogen dilution (n=0)

p_i(atm)	m	$-\alpha$	β	$T_i(^oK)$	200	300	400	500	600	700
0.01	2	1.046	3.779	(p_i/p_i)ex	23.51	15.43	11.43	9.04	7.46	6.33
				(p_i/p_i)ap	25.58	15.43	11.42	9.04	7.47	6.36
0.01	4	1.031	3.713	"	21.88	14.44	10.74	8.53	7.06	6.00
				"	21.93	14.44	10.74	8.53	7.07	6.03
0.01	6	1.009	3.626	"	20.18	13.42	10.05	8.02	6.66	5.69
				"	20.21	13.42	10.04	8.02	6.66	5.71
1.0	2	1.026	3.793	"	27.01	17.83	13.28	10.56	8.75	7.46
				"	27.03	17.83	13.27	10.56	8.76	7.48
1.0	4	0.997	3.675	"	24.07	16.06	12.06	9.65	8.05	6.89
				"	24.06	16.06	12.06	9.65	8.05	6.90
1.0	6	0.961	3.536	"	21.21	14.31	10.85	8.76	7.35	6.34
				"	21.13	14.31	10.85	8.76	7.35	6.34
1000	2	0.978	3.724	"	29.88	20.03	15.11	12.16	10.19	8.78
					29.78	20.03	15.12	12.16	10.17	8.75
1000	4	0.952	3.585	"	24.98	16.87	12.80	10.37	8.74	7.57
				"	24.81	16.86	12.82	10.37	8.72	7.53
1000	6	0.932	3.470	"	21.40	14.52	11.08	9.02	7.64	6.65
					21.18	14.52	11.10	9.02	7.61	6.59

TABLE 3

COMPARISON OF DETONATION WAVE PROPERTIES FOR STOICHIOMETRIC MIXTURES.

Initial conditions

1) $m = n = 0$; $p_i = 1$ atm ; $T_i = 298.15^\circ$ K.

	p/p_i	T/T_i	ρ/ρ_i	M/M_i	U_D	γ	γ^*	ν_{H_2O}	ν_{OH}	ν_{H_2}	ν_{O_2}	ν_H	ν_O
Ref. 1.	18.820	12.345	1.8387	1.2062	2839.6	1.1290	1.2214	0.5316	0.1367	0.1637	0.04866	0.08085	0.3845
Present Results	18.820	12.345	1.8388	1.2061	2839.6	1.1289	1.2222	0.5316	0.1368	0.1637	0.04865	0.08088	0.3844

2) $m = n = 0$; $p_i = 0.01$ atm ; $T_i = 200^\circ$ K.

	p/p_i	T/T_i	ρ/ρ_i	M/M_i	U_D	γ	γ^*	ν_{H_2O}	ν_{OH}	ν_{H_2}	ν_{O_2}	ν_H	ν_O
Ref. 1	24.218	14.917	1.8659	1.1493	2631.9	1.1071	1.2244	0.4759	0.1182	0.1689	0.05969	0.1246	0.05273
Present Results	24.218	14.917	1.8660	1.1493	2631.9	1.1071	1.2252	0.4759	0.1182	0.1689	0.05968	0.1246	0.05271

3) $m = n = 0$; $p_i = 1.$ atm ; $T_f = 313.16^\circ$ K

	p/p_i	T/T_i	ρ/ρ_i	M_d	U_D	ν_{H_2O}	ν_{OH}	ν_{H_2}	ν_{O_2}	ν_H	ν_O
Ref. 2	18.00	11.64	1.86	5.27	2826.	0.513	0.169	0.164	0.041	0.077	0.036
Present Results	17.88	11.73	1.84	5.15	2835.	0.530	0.137	0.164	0.049	0.082	0.039

TABLE 4

COMPARISON OF EXACT WITH APPROXIMATE VALUES OF FINAL-TO-INITIAL PRESSURE RATIO

1. Stoichiometric mixture (m=n=0)

p_i(atm)	$-\alpha$	β	T_i(°K)	200	300	400	500	600	700
0.01	1.053	3.808	$(p/p_i)_{ex}$*	24.22	15.85	11.72	9.26	7.63	6.47
			$(p/p_i)_{ap}$	24.30	15.85	11.71	9.26	7.64	6.50
0.10	1.048	3.831	$(p/p_i)_{ex}$	26.28	17.22	12.75	10.08	8.32	7.06
			$(p/p_i)_{ap}$	26.34	17.22	12.74	10.08	8.33	7.09
1.0	1.041	3.851	"	28.48	18.70	13.87	10.99	9.08	7.72
				28.52	18.70	13.86	10.99	9.09	7.74
10.	1.033	3.865	"	30.72	20.22	15.02	11.93	9.88	8.42
				30.74	20.22	15.02	11.93	9.88	8.43
100.	1.022	3.868	"	32.78	21.65	16.14	12.84	10.66	9.10
				32.78	21.65	16.14	12.84	10.66	9.10
1000.	1.011	3.863	"	34.43	22.84	17.07	13.63	11.34	9.71
				34.41	22.84	17.08	13.63	11.33	9.70

* $(\ )_{ex}$: exact values

$(\ )_{ap}$: approximate values $\quad \log_{10} \frac{p}{p_i} = \alpha \log_{10} T_i + \beta$

TABLE 5

VARIATION OF THE SPEED OF SOUND IN DETONATION PRODUCTS WHEN THE INITIAL TEMPERATURE INCREASES FROM 200°K to 700° K.

STOICHIOMETRIC MIXTURE		HELIUM DILUTION			HYDROGEN DILUTION		
p_i (atm)	Δa (m/sec)	p_i (atm)	n	Δa (m/sec)	p_i (atm)	m	Δa (m/sec)
0.01	-12.4	0.01	2	-17.8	0.01	2	-10.5
0.1	-12.3	0.01	4	-18.5	0.01	4	-0.5
1.0	-10.2	0.01	6	-17.3	0.01	6	+12.2
10	-4.5	1	2	-16.0	1	2	-1.3
100	+6.1	1	4	-14.2	1	4	+22.3
1000	+19.7	1	6	-9.4	1	6	+55.0
		100	2	+0.3	100	2	+33.9
		100	4	+13.0	100	4	+76.7
		100	6	+28.7	100	6	+119.1

TABLE 6

Comparison between exact and approximated values

$T_i = 200^o$ K

p_i (atm)	n	m	u_D(m/sec)		p/p_i		T/T_i	
			exact	approx	exact	approx	exact	approx
3	0	0	2933.22	2932.33	29.555	29.546	19.813	19.842
3	0	6	3803.54	3800.53	21.292	21.279	13.462	13.438
3	6	0	3813.18	3810.64	26.537	26.496	16.379	16.361
300	0	0	3145.24	3141.59	33.630	33.567	24.661	24.615
300	0	6	3828.84	3828.36	21.393	21.391	13.651	13.647
300	6	0	4015.54	4011.57	28.385	28.344	18.247	18.210

$T_i = 700^o$ K

p_i (atm)	n	m	u_D(m/sec)		p/p_i		T/T_i	
			exact	approx	exact	approx	exact	approx
3	0	0	2798.38	2798.20	8.051	8.053	5.395	5.407
3	0	6	3783.59	3778.66	6.447	6.433	4.191	4.180
3	6	0	3681.42	3680.37	7.505	7.499	4.708	4.708
300	0	0	3054.81	3051.27	9.406	9.391	6.864	6.860
300	0	6	3881.78	3879.43	6.642	6.637	4.417	4.412
300	6	0	3982.23	3977.59	8.411	8.384	5.496	5.484

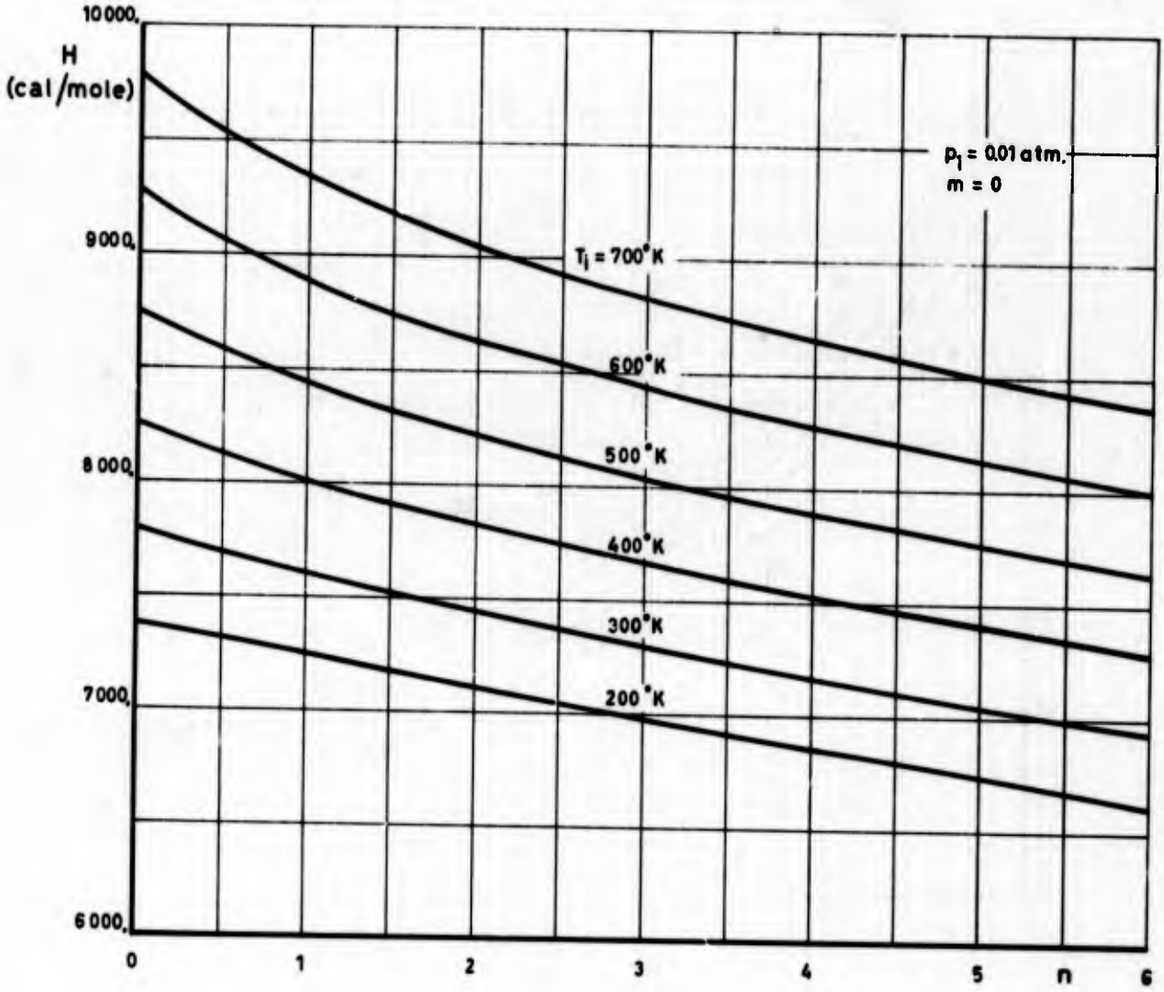


Fig.1 ENTHALPY OF BURNED GASES FOR HELIUM DILUTION

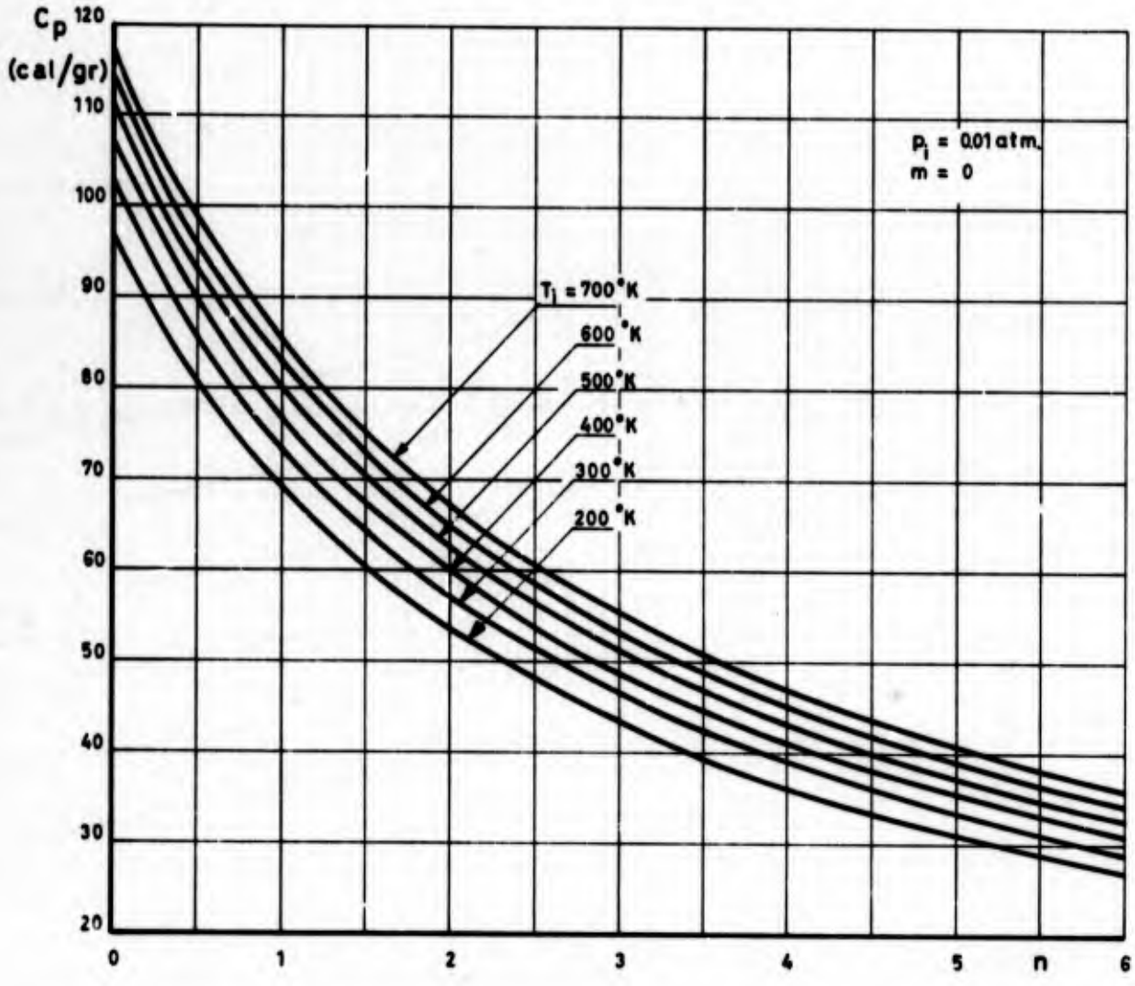


Fig. 2 SPECIFIC HEAT OF BURNED GASES FOR HELIUM DILUTION

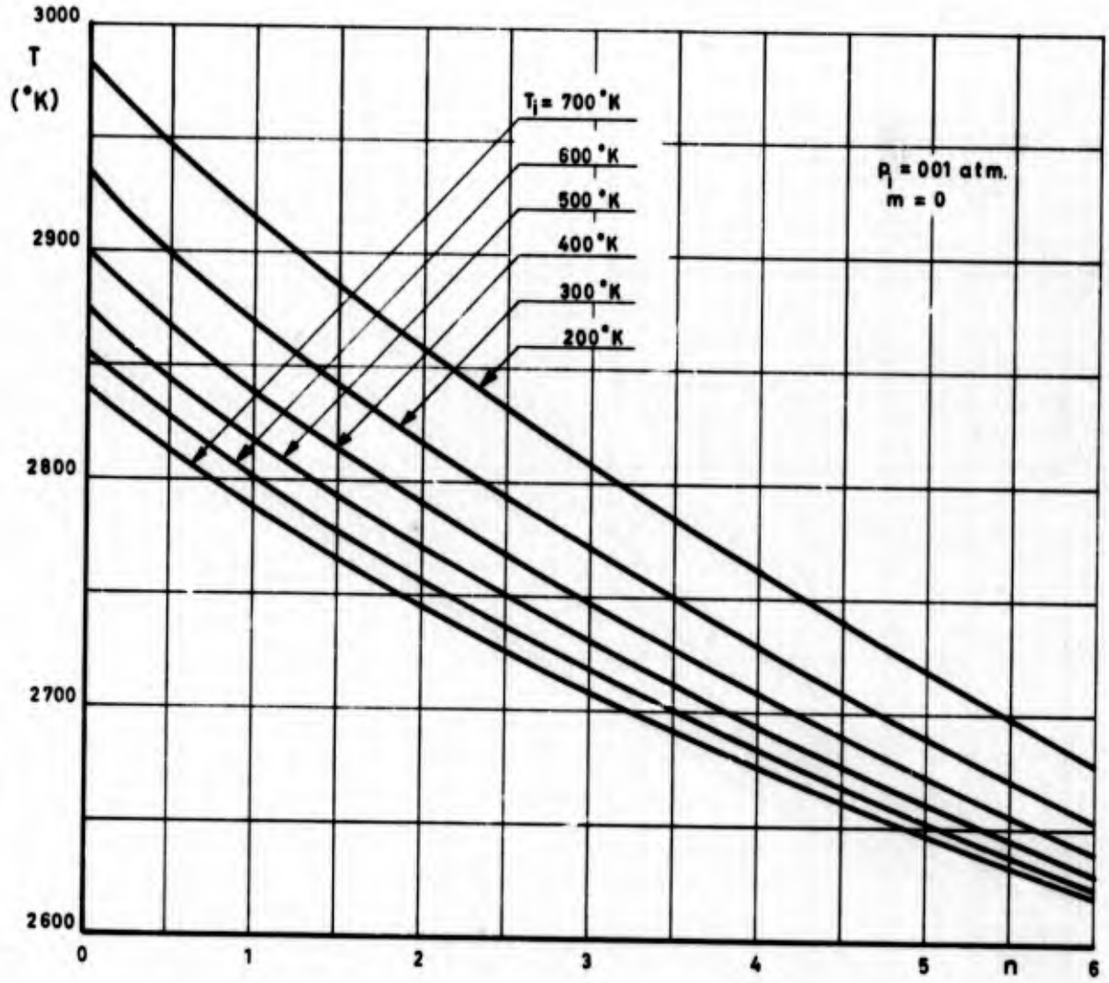


Fig. 3 TEMPERATURE OF BURNED GASES FOR HELIUM DILUTION

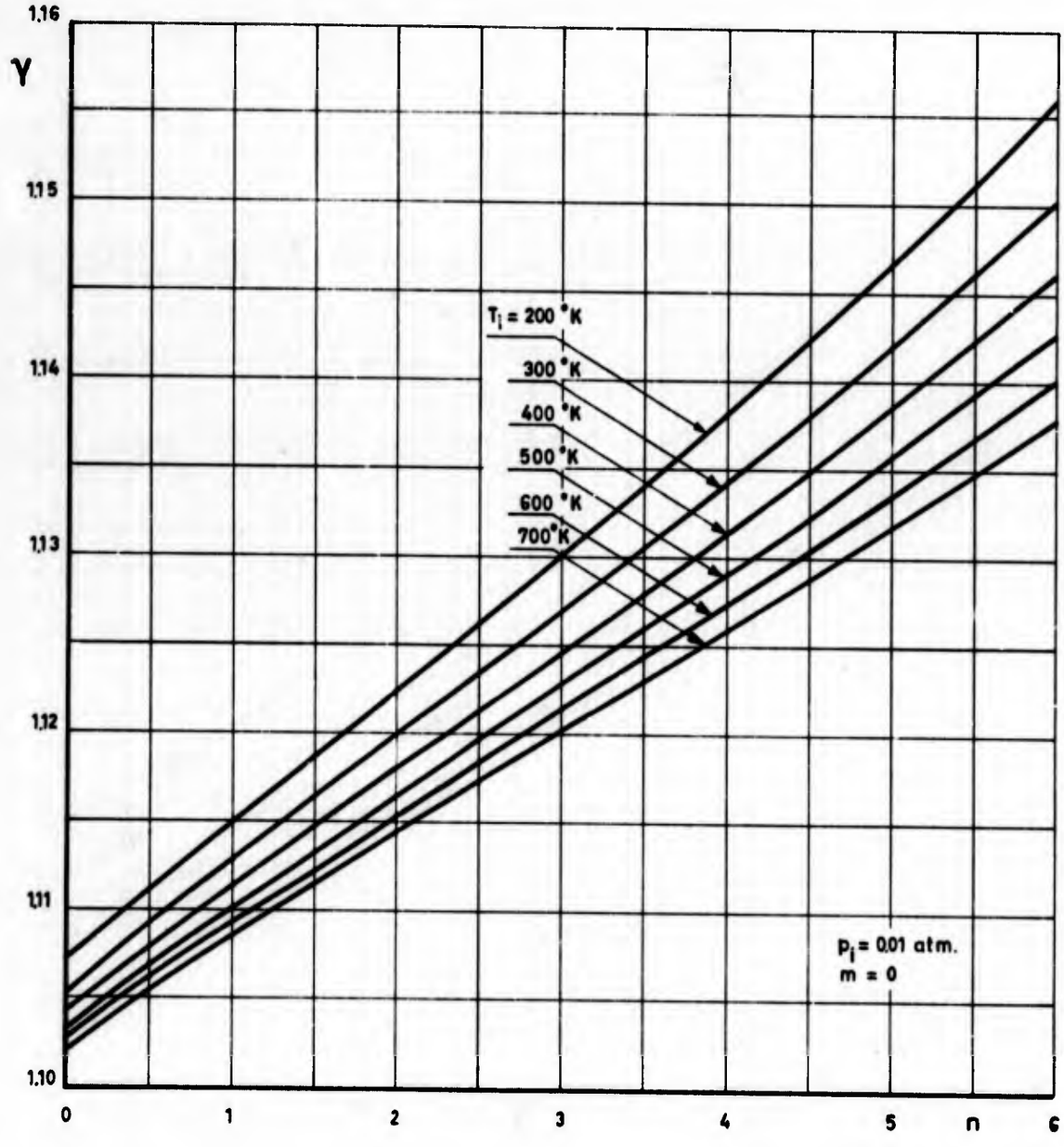


Fig. 4 ISENTROPIC EXPONENT OF BURNED GASES FOR HELIUM DILUTION

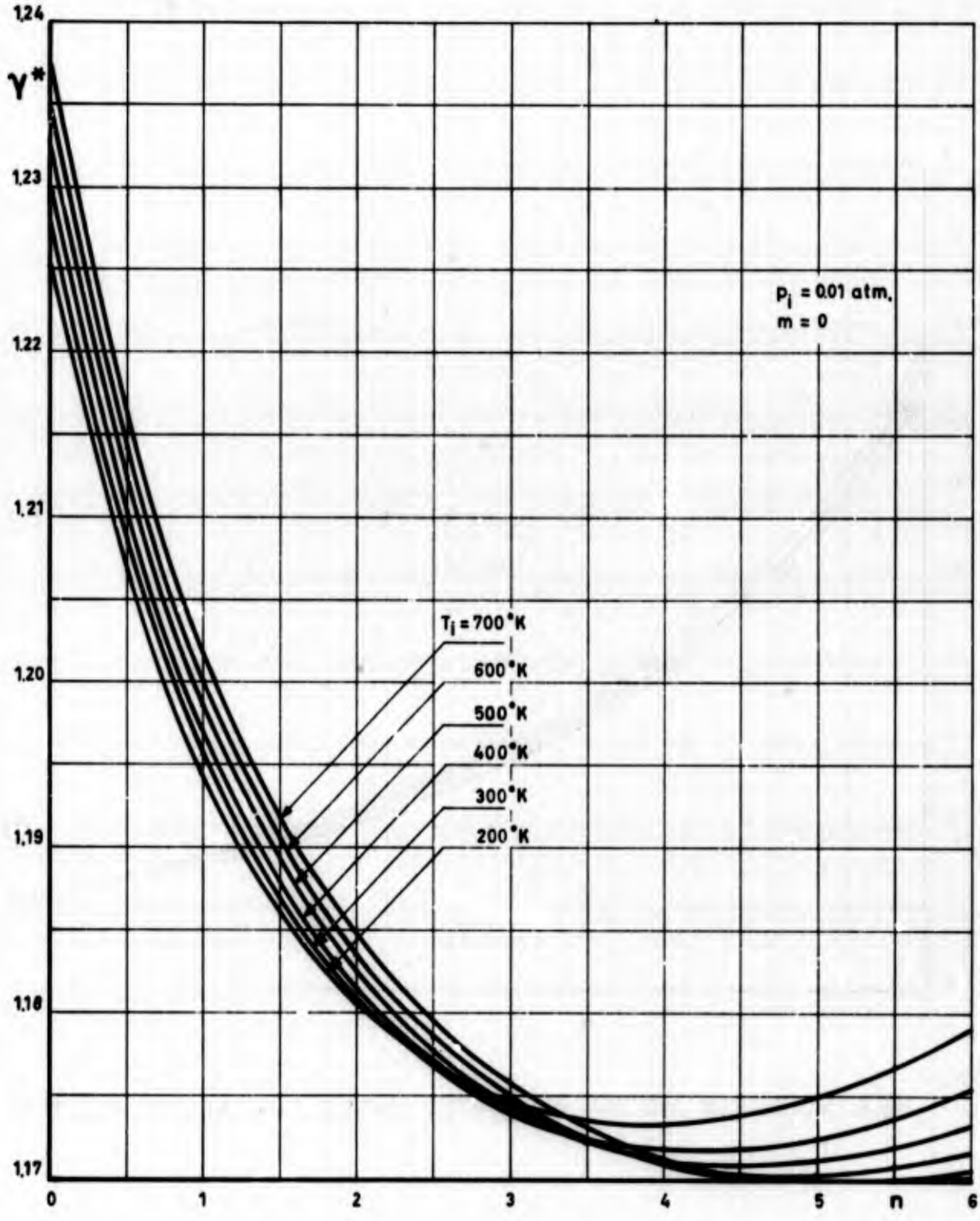


Fig. 5 SPECIFIC HEAT RATIO OF BURNED GASES FOR HELIUM DILUTION

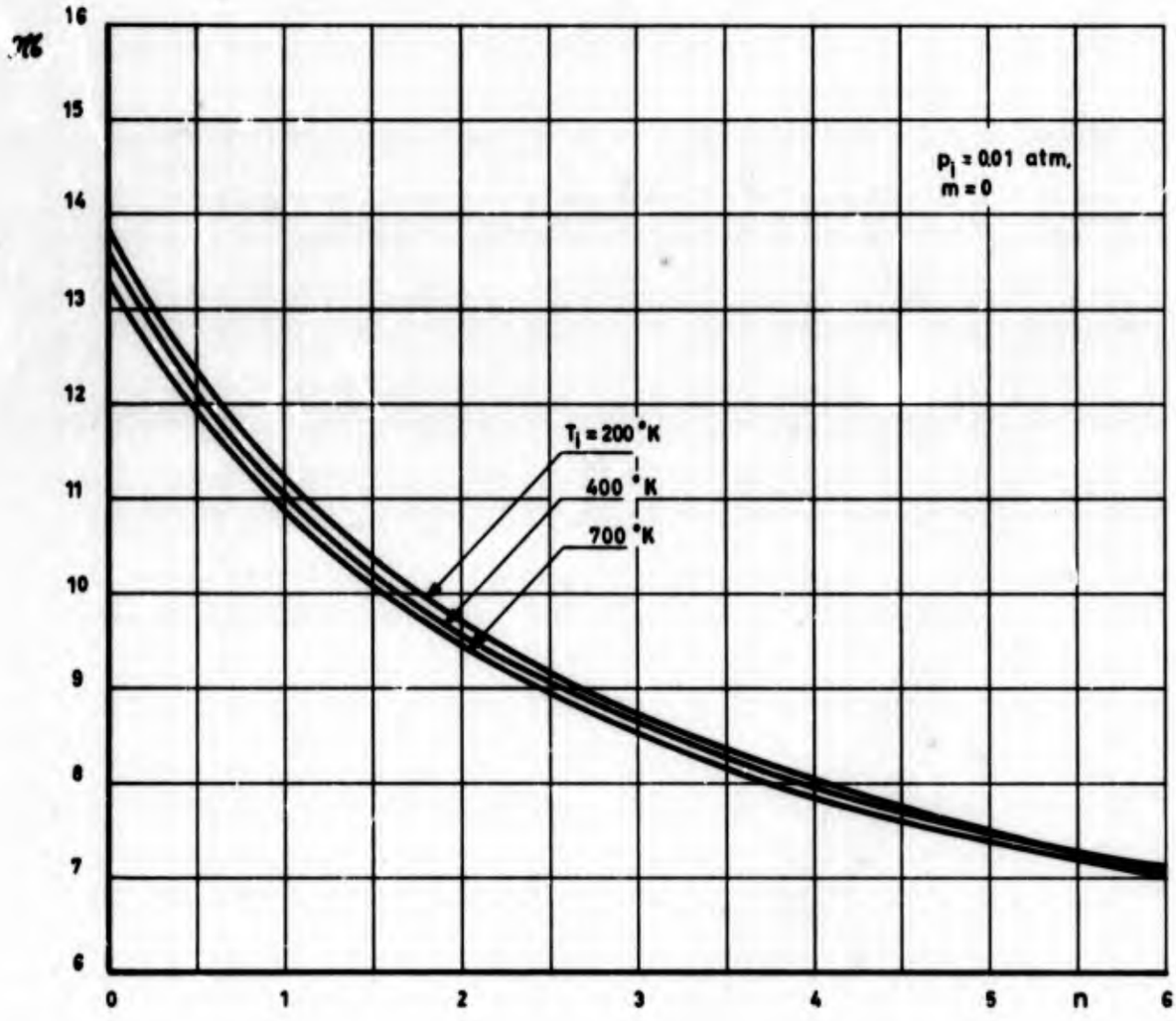


Fig. 6 MOLECULAR WEIGHT OF BURNED GASES FOR HELIUM DILUTION

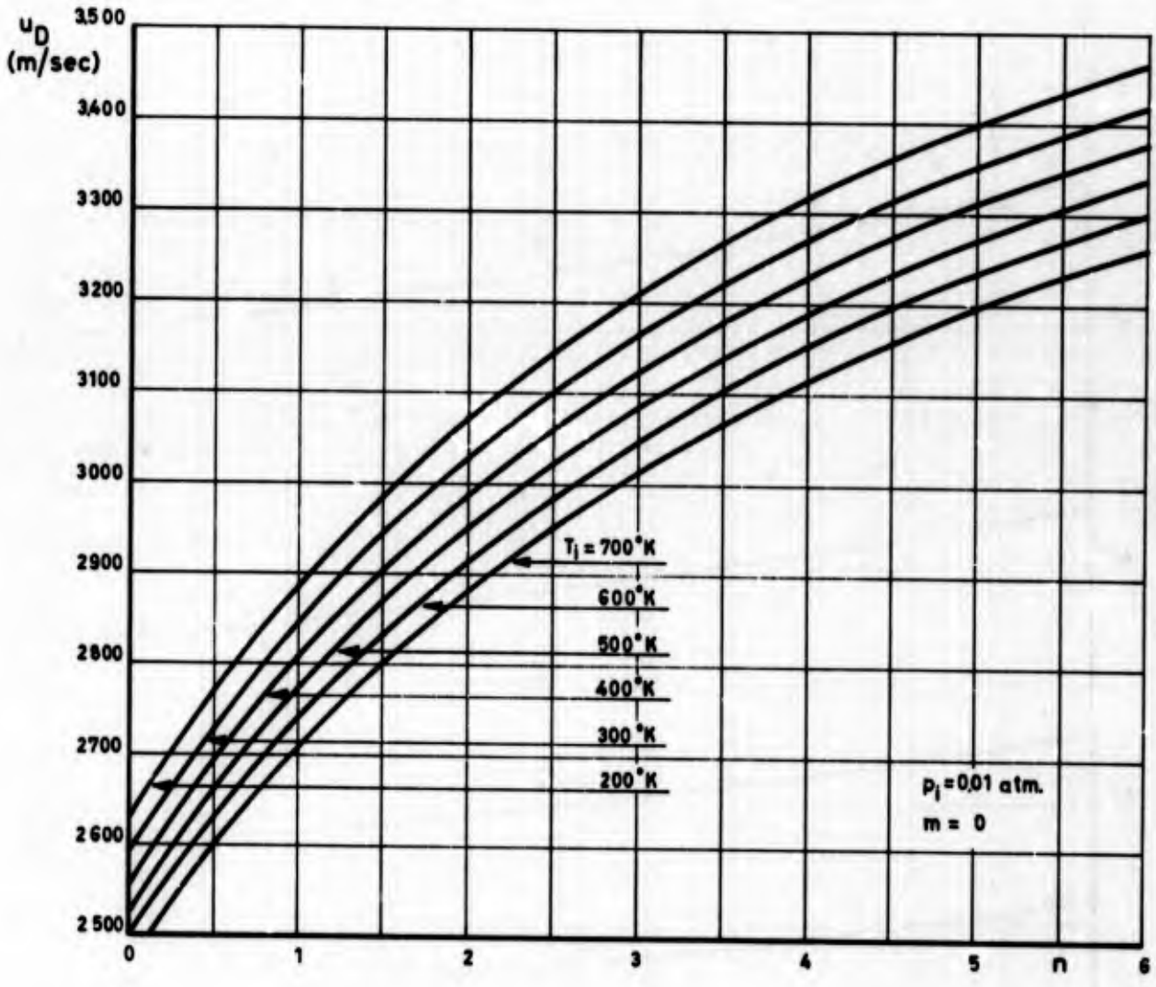


Fig. 7 DETONATION VELOCITY (HELIUM DILUTION)

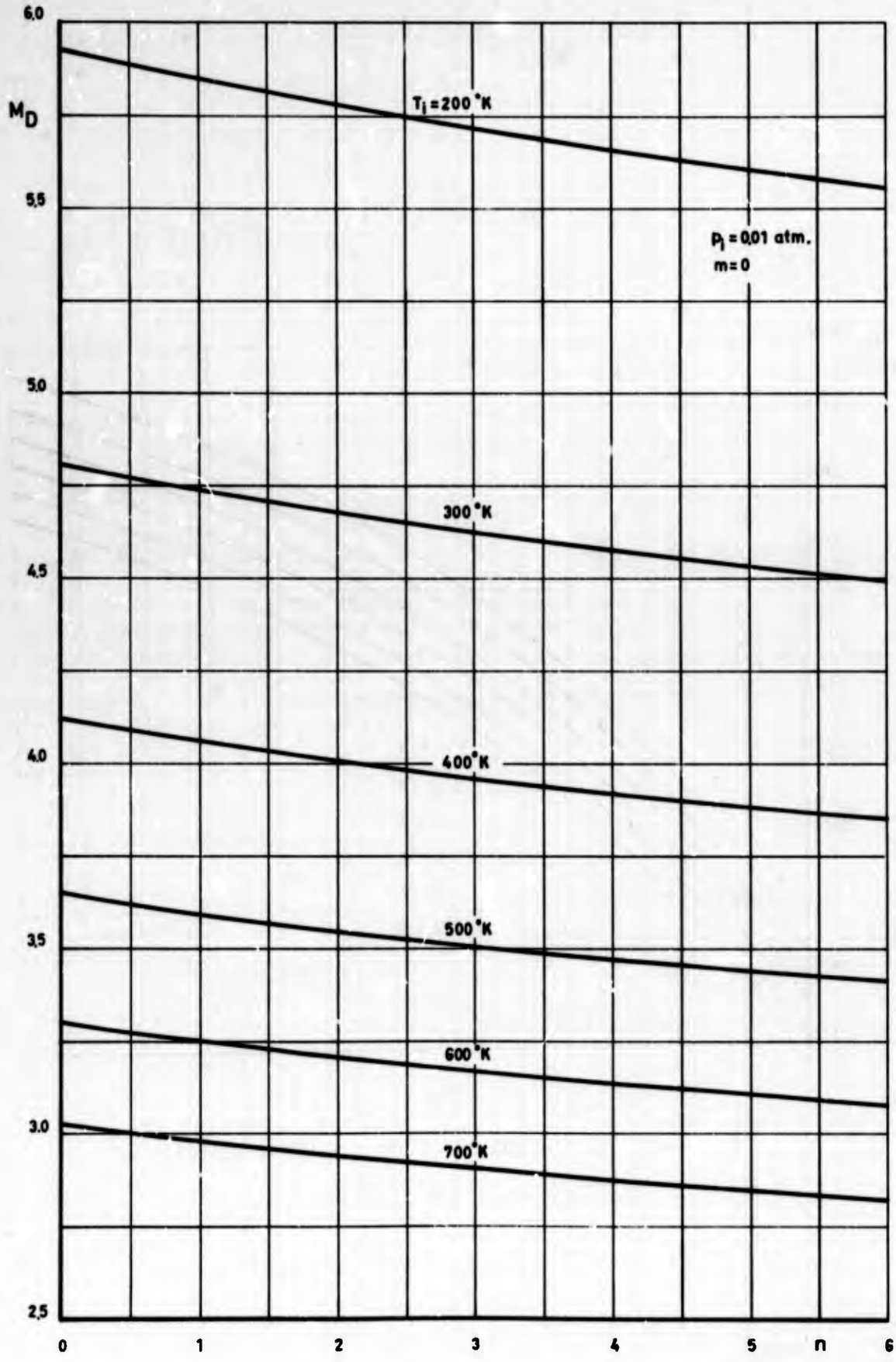


Fig. 8 DETONATION MACH NUMBER (HELIUM DILUTION)

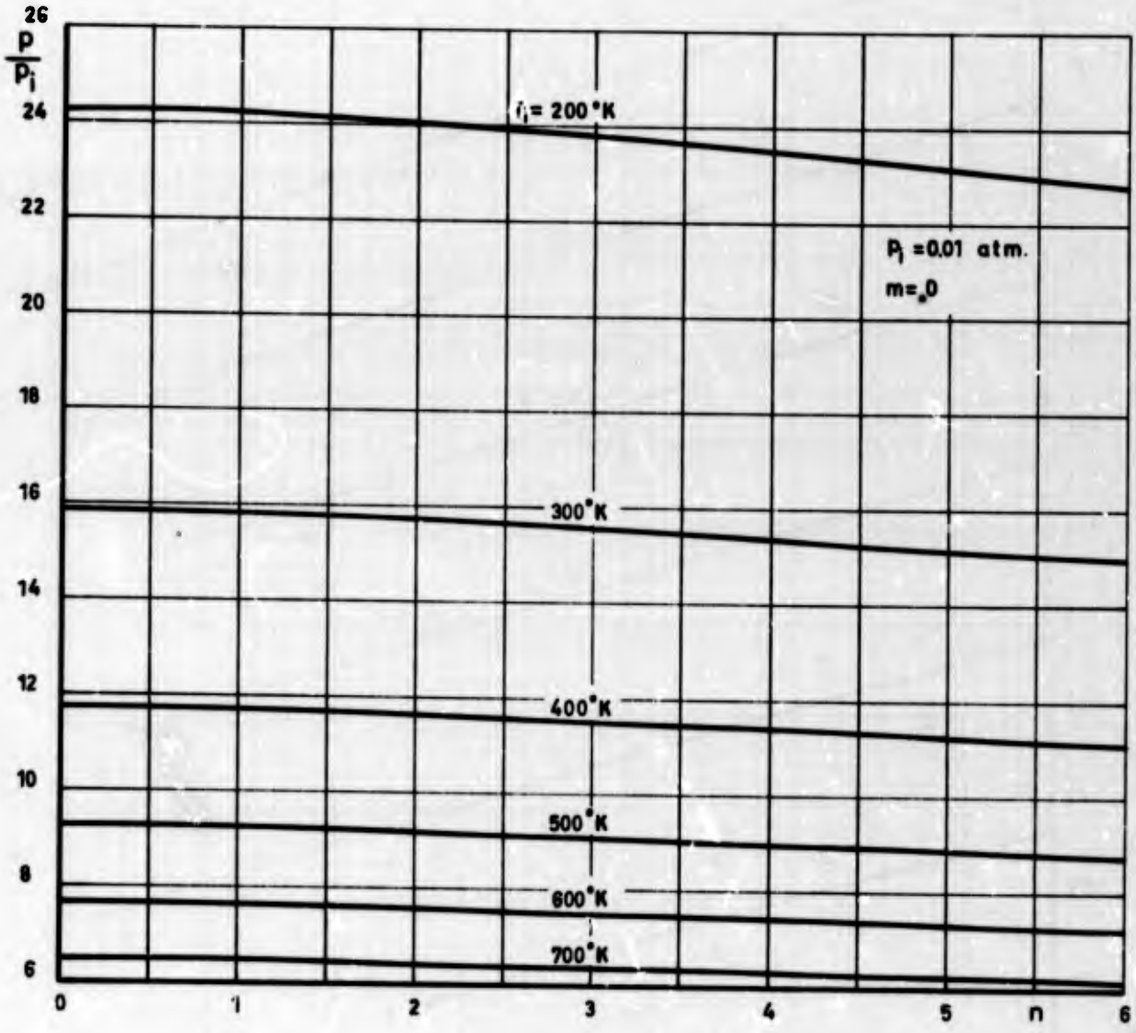


Fig. 9 PRESSURE RATIO ACROSS THE DETONATION WAVE (HELIUM DILUTION)

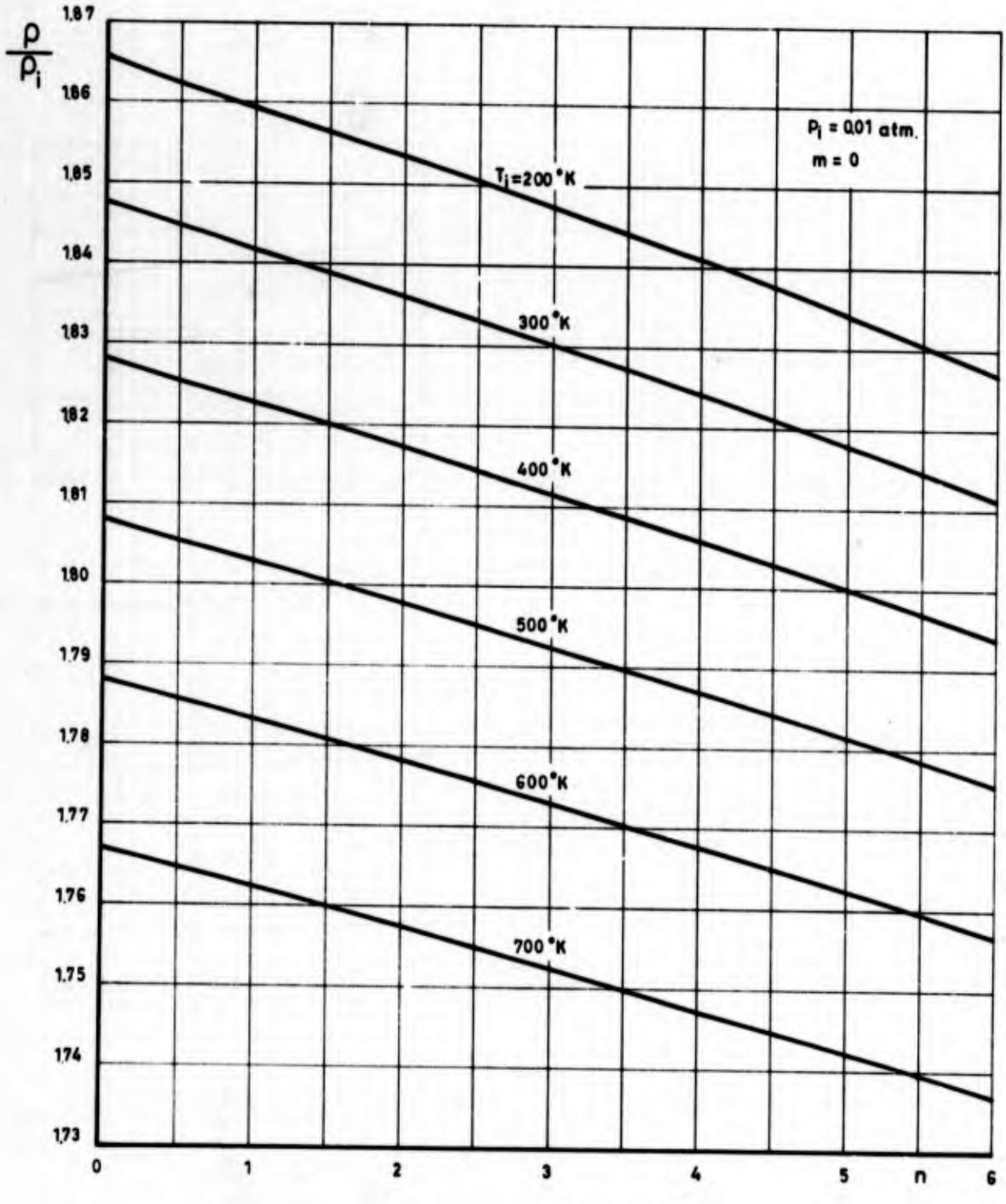


Fig. 10 DENSITY RATIO ACROSS THE DETONATION WAVE (HELIUM DILUTION)

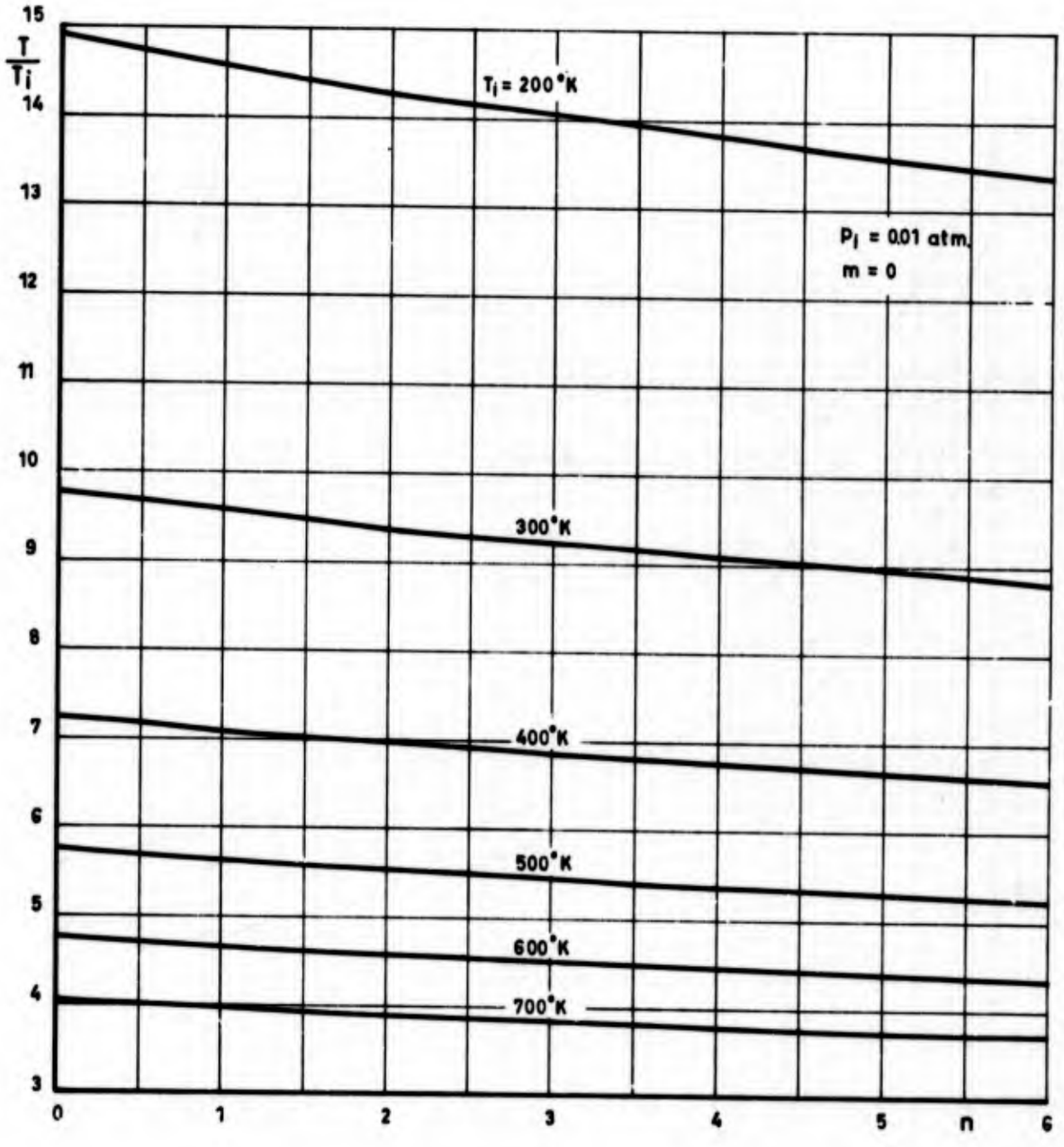


Fig. 11 TEMPERATURE RATIO ACROSS THE DETONATION WAVE (HELIUM DILUTION)

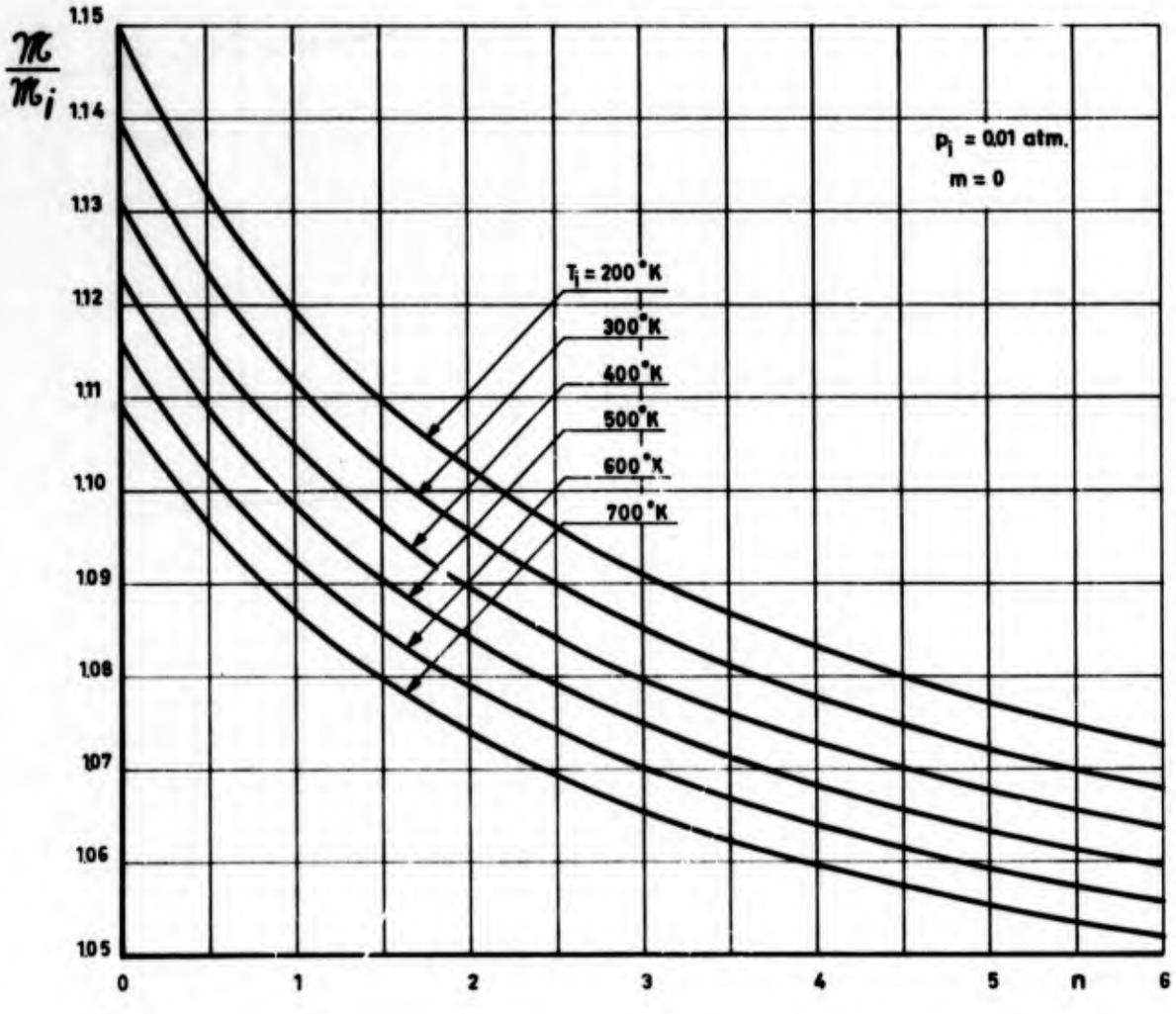


Fig. 12 MOLECULAR WEIGHT RATIO ACROSS THE DETONATION WAVE (HELIUM DILUTION)

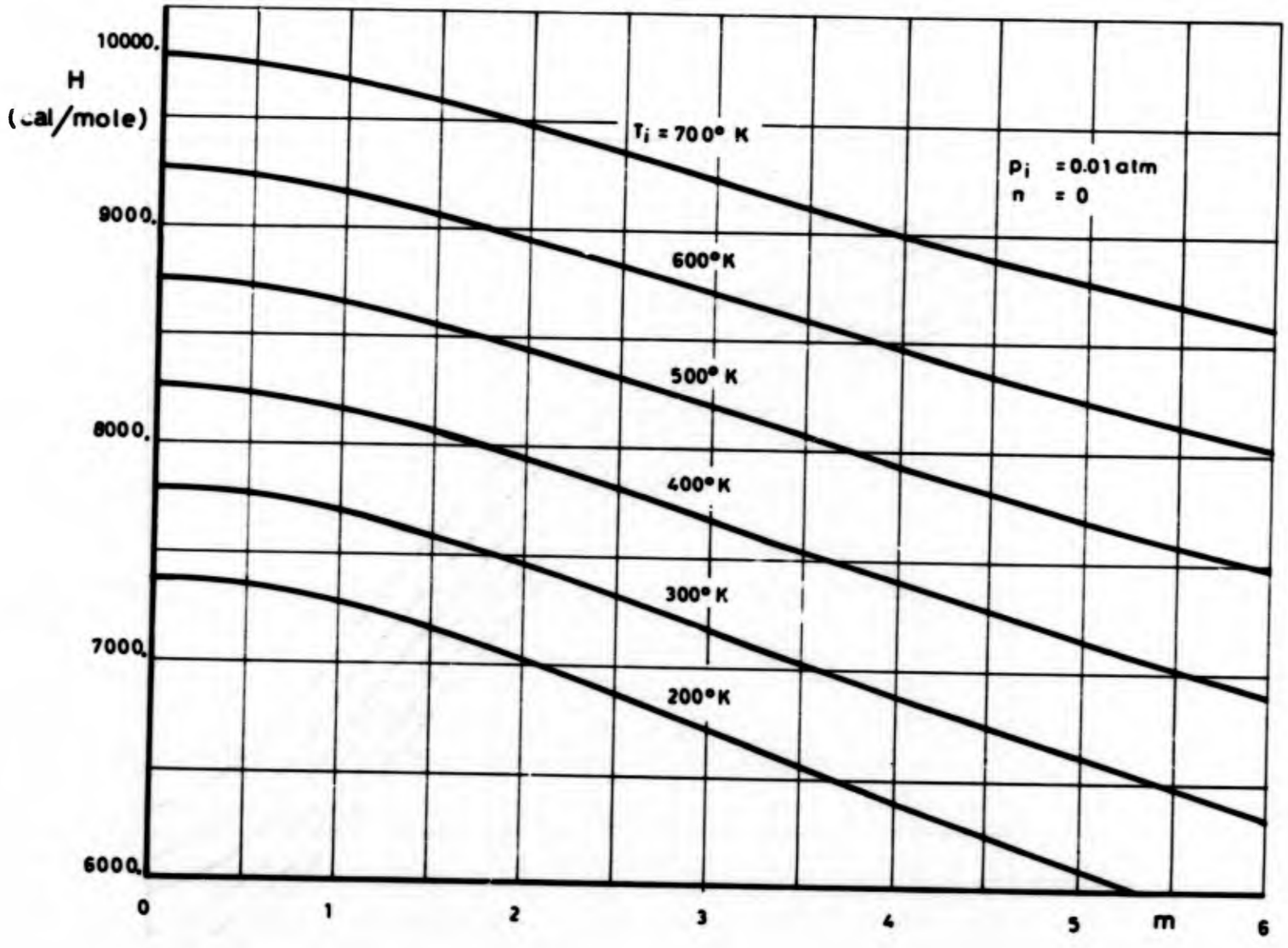


Fig.13 ENTHALPY OF BURNED GASES FOR HYDROGEN DILUTION

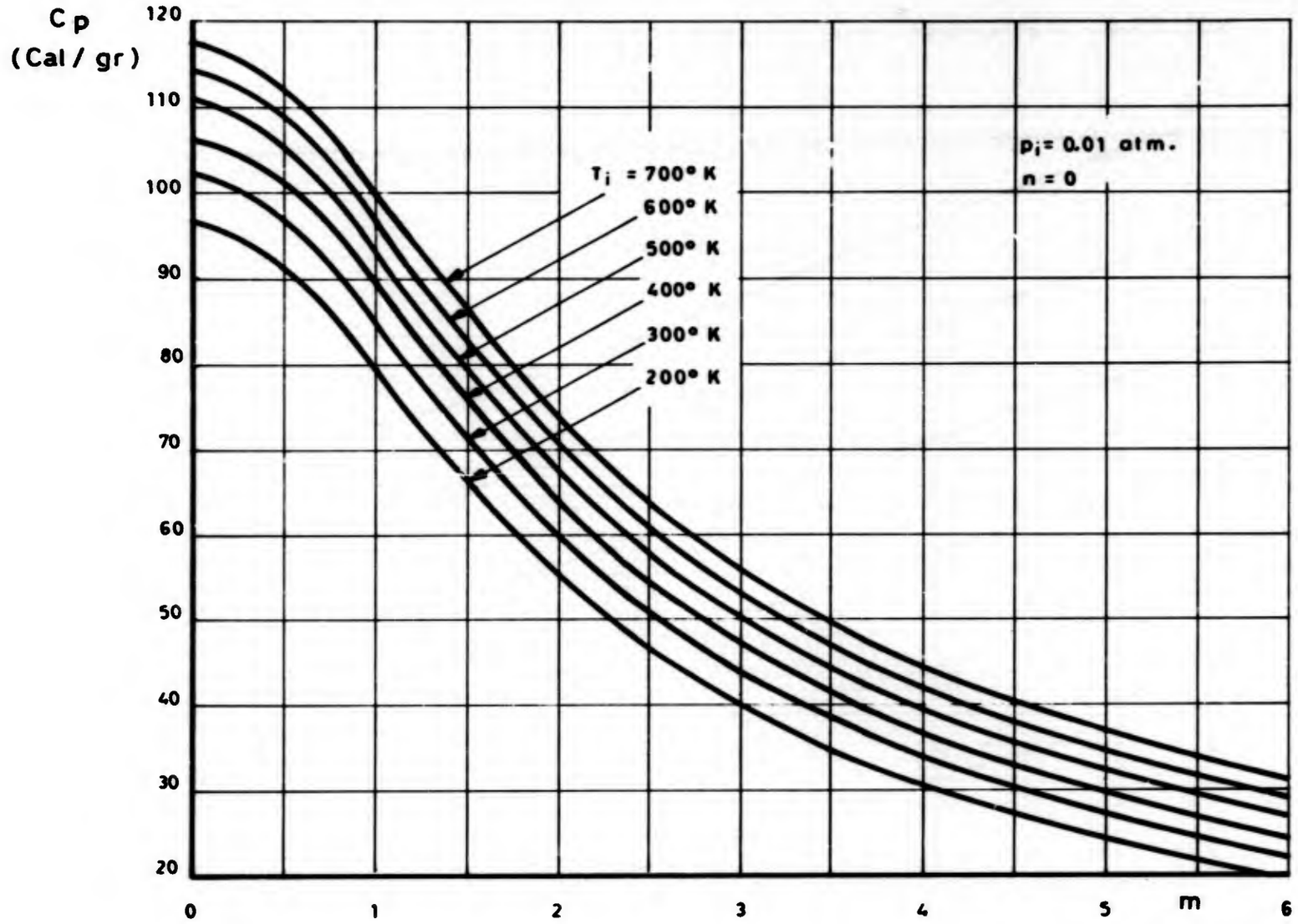


Fig.14 SPECIFIC HEAT OF BURNED GASES FOR HYDROGEN DILUTION

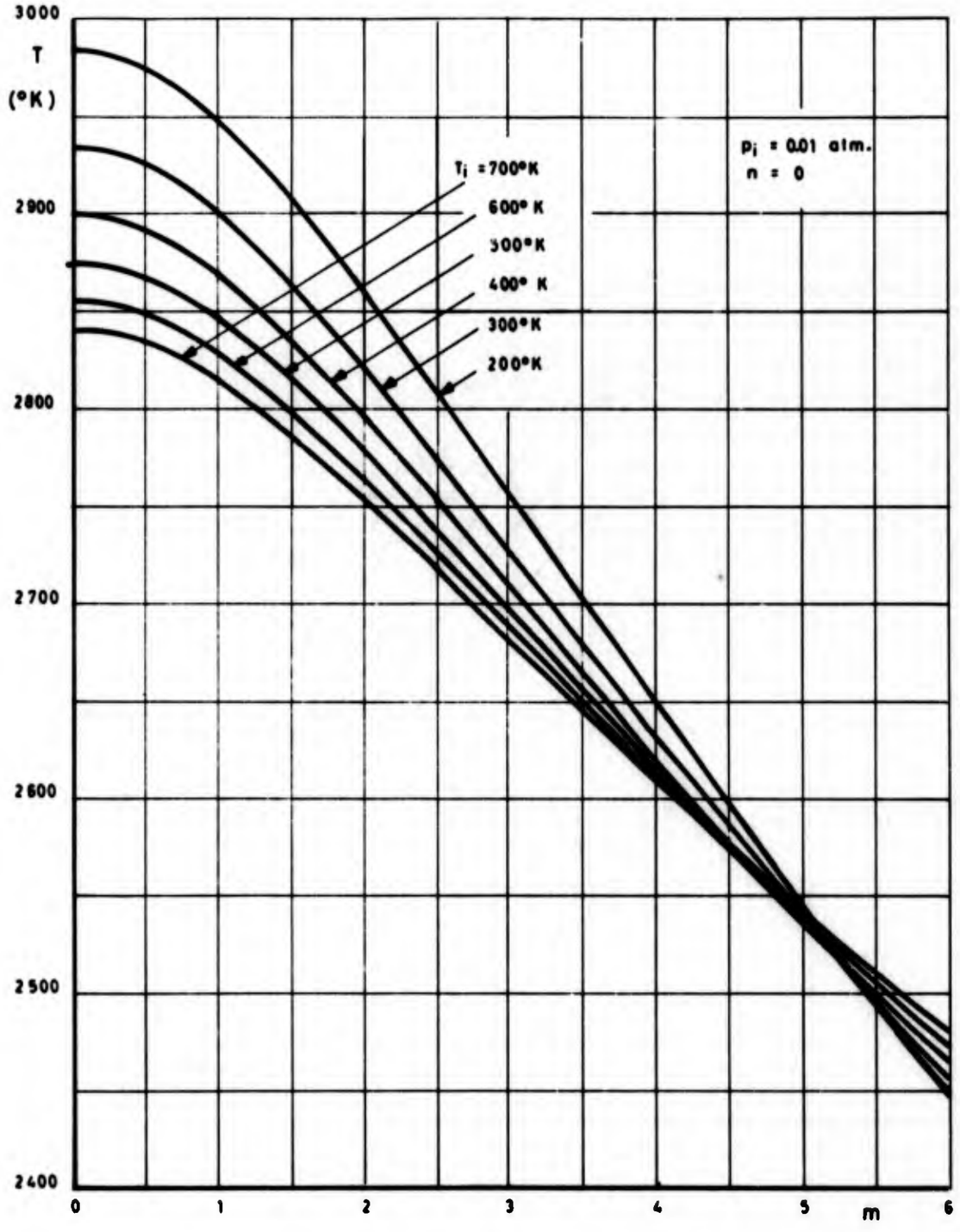


Fig.15 TEMPERATURE OF BURNED GASES FOR HYDROGEN DILUTION

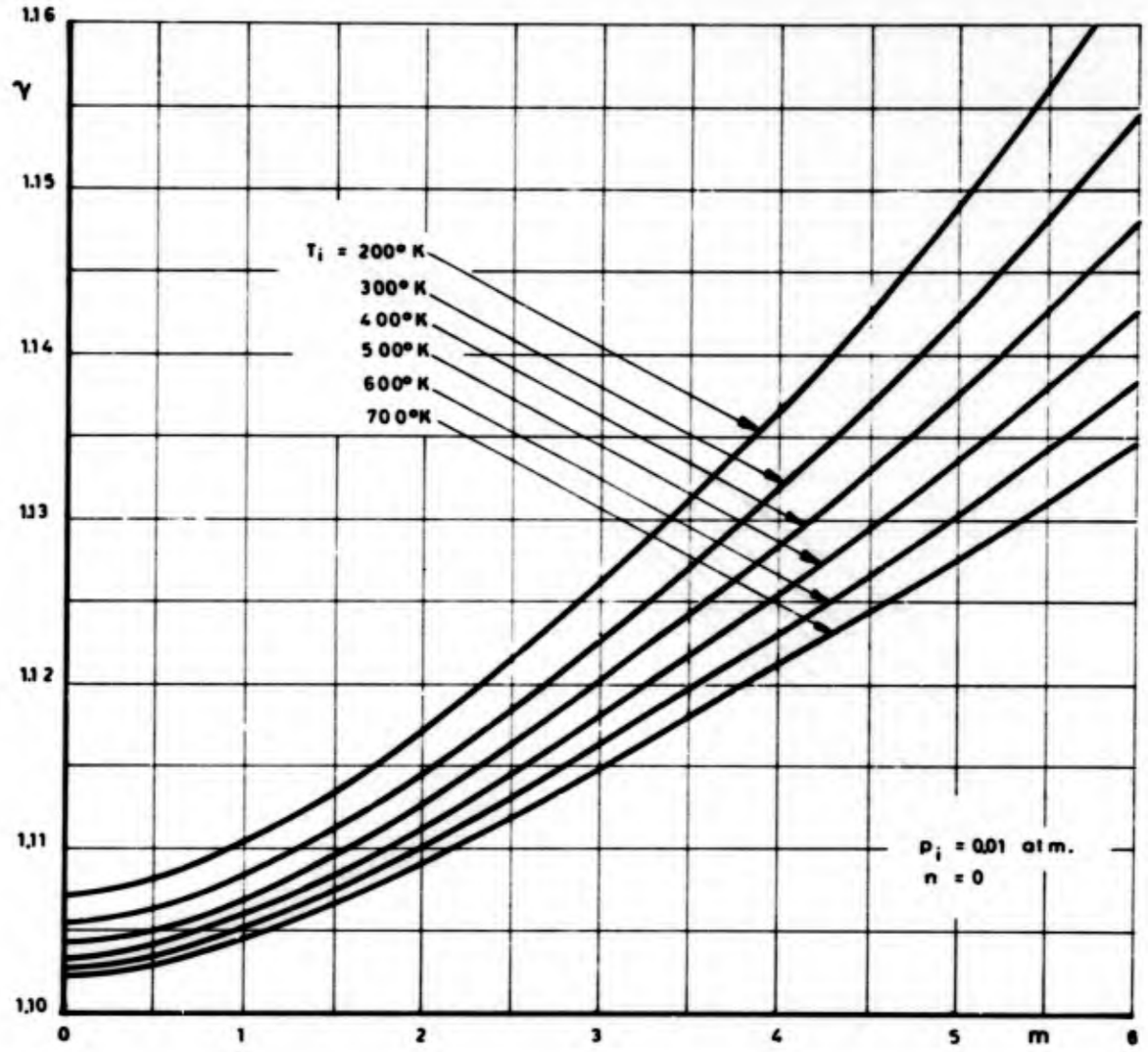


Fig. 16 ISENTROPIC EXPONENT OF BURNED GASES FOR HYDROGEN DILUTION

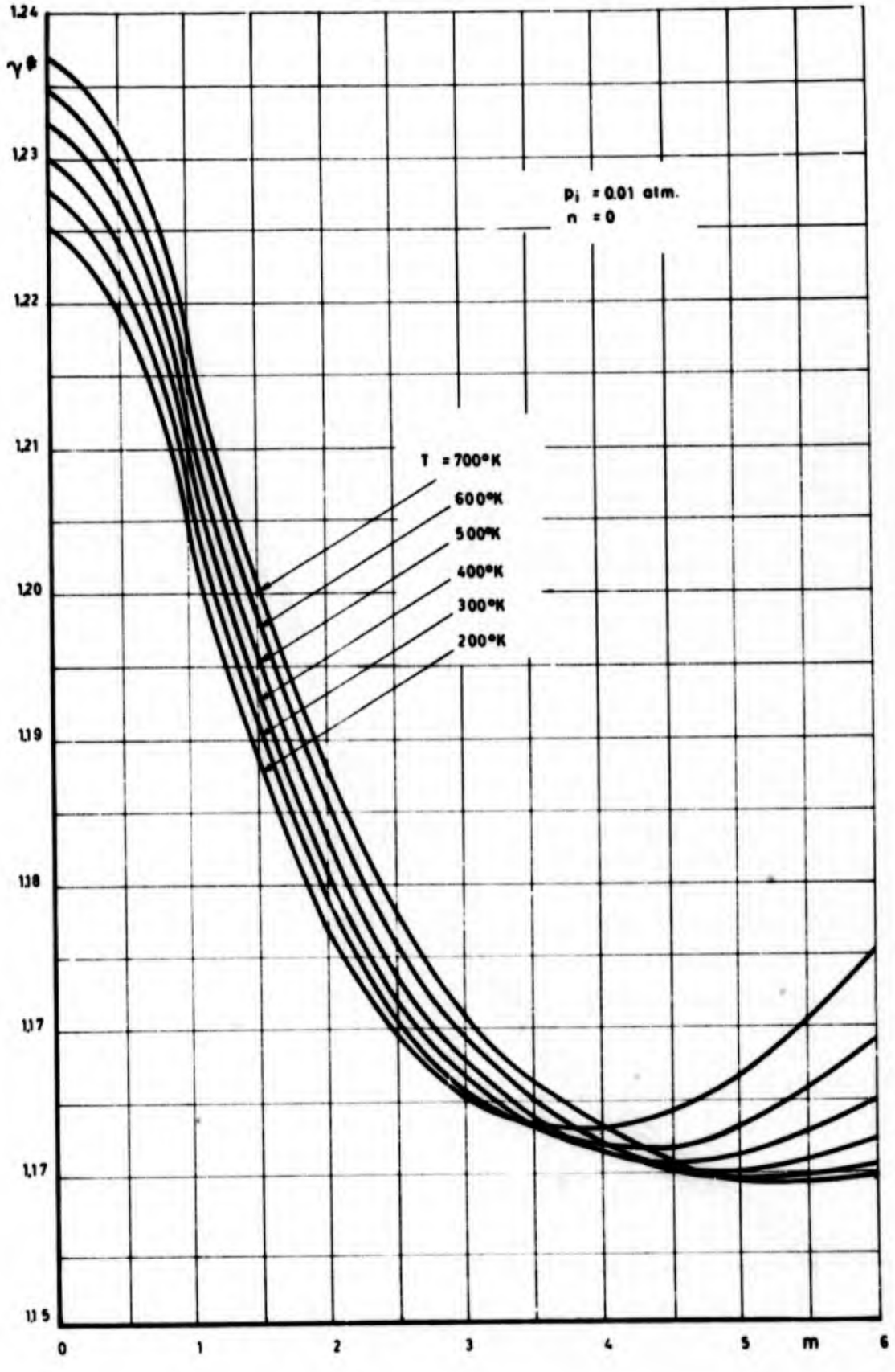


Fig .17 SPECIFIC HEAT RATIO OF BURNED GASES FOR HYDROGEN DILUTION

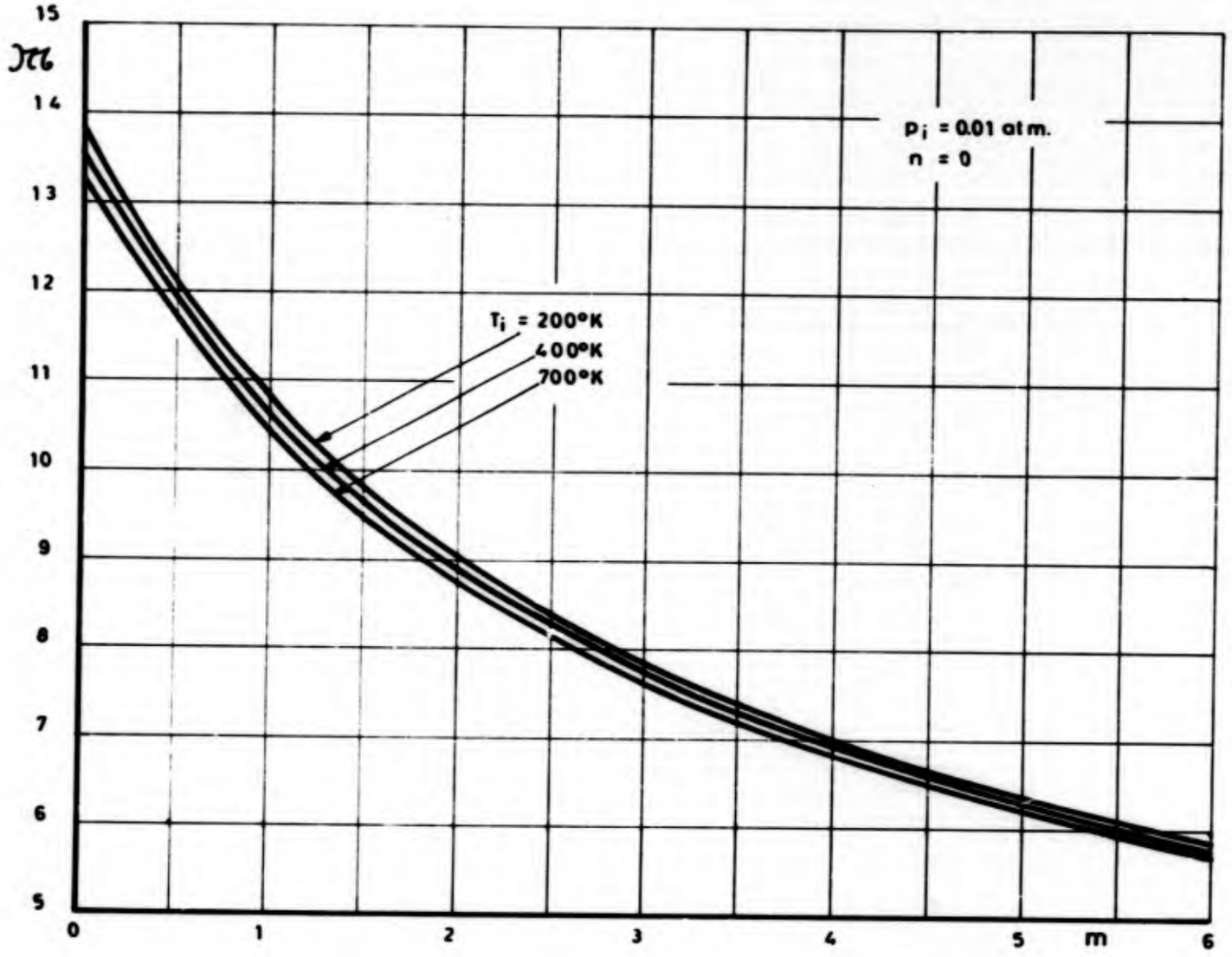


Fig.18 MOLECULAR WEIGHT OF BURNED GASES FOR HYDROGEN DILUTION

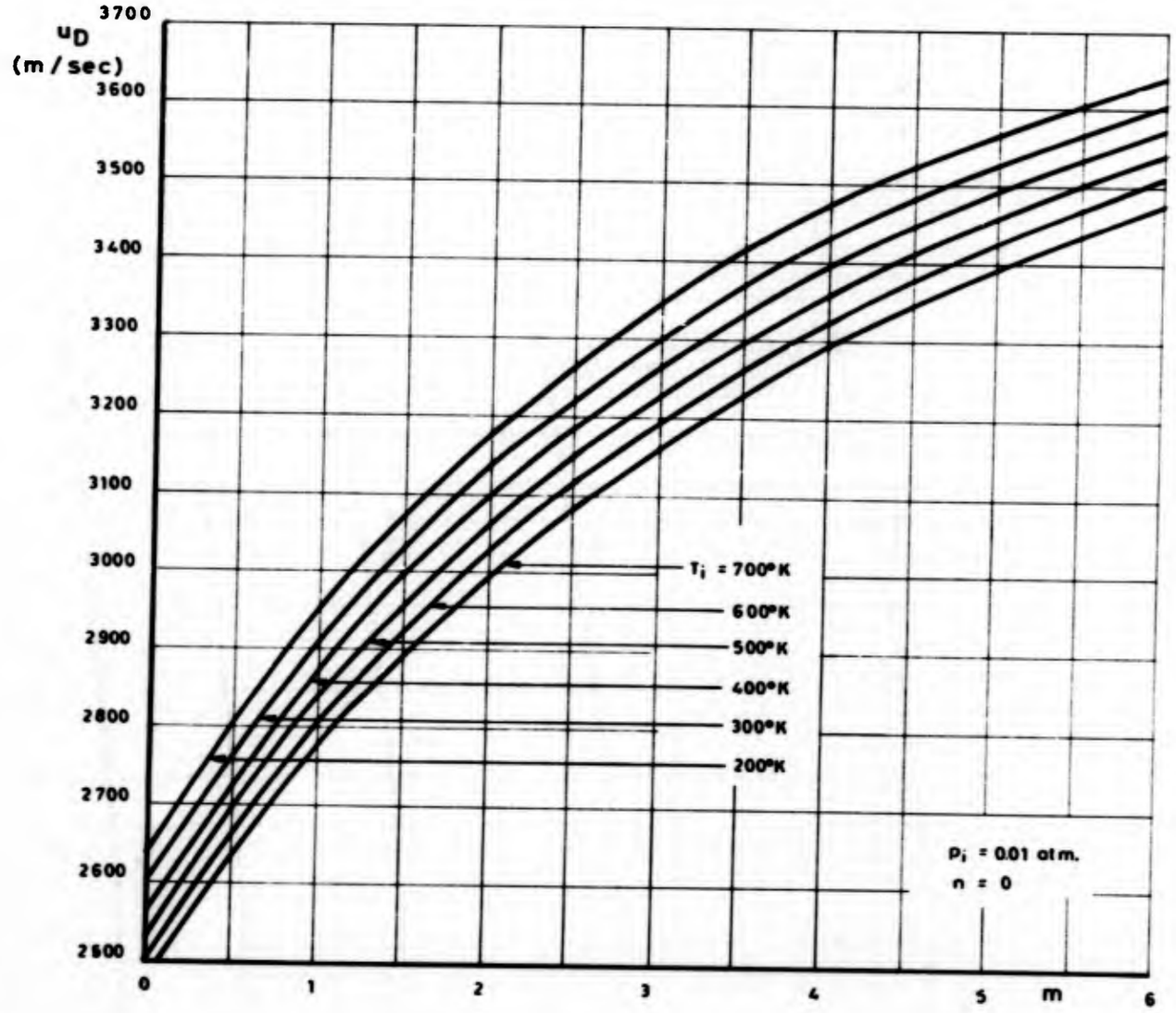


Fig. 19 DETONATION VELOCITY (HYDROGEN DILUTION)

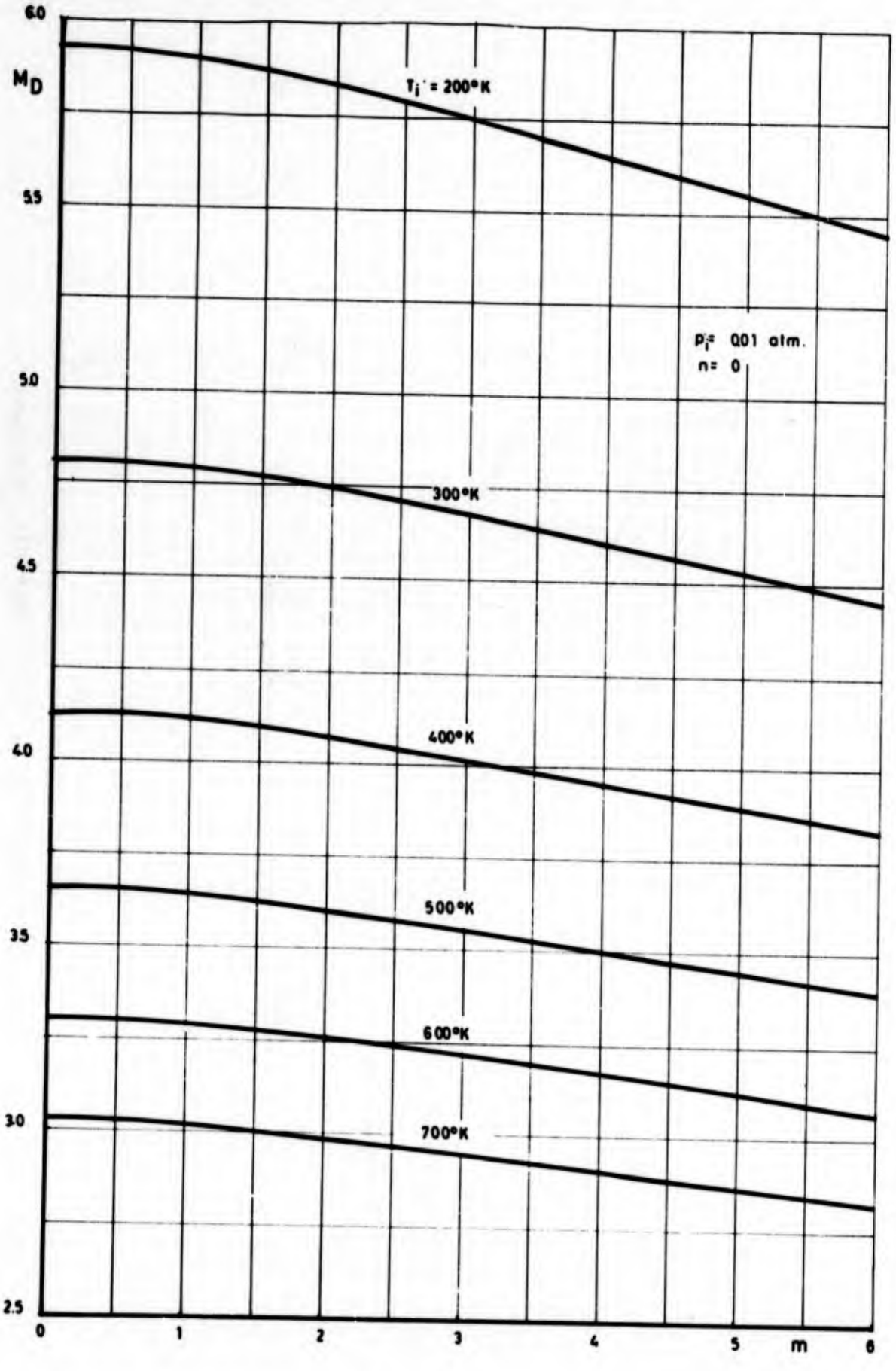


Fig. 20 DETONATION MACH NUMBER (HYDROGEN DILUTION)

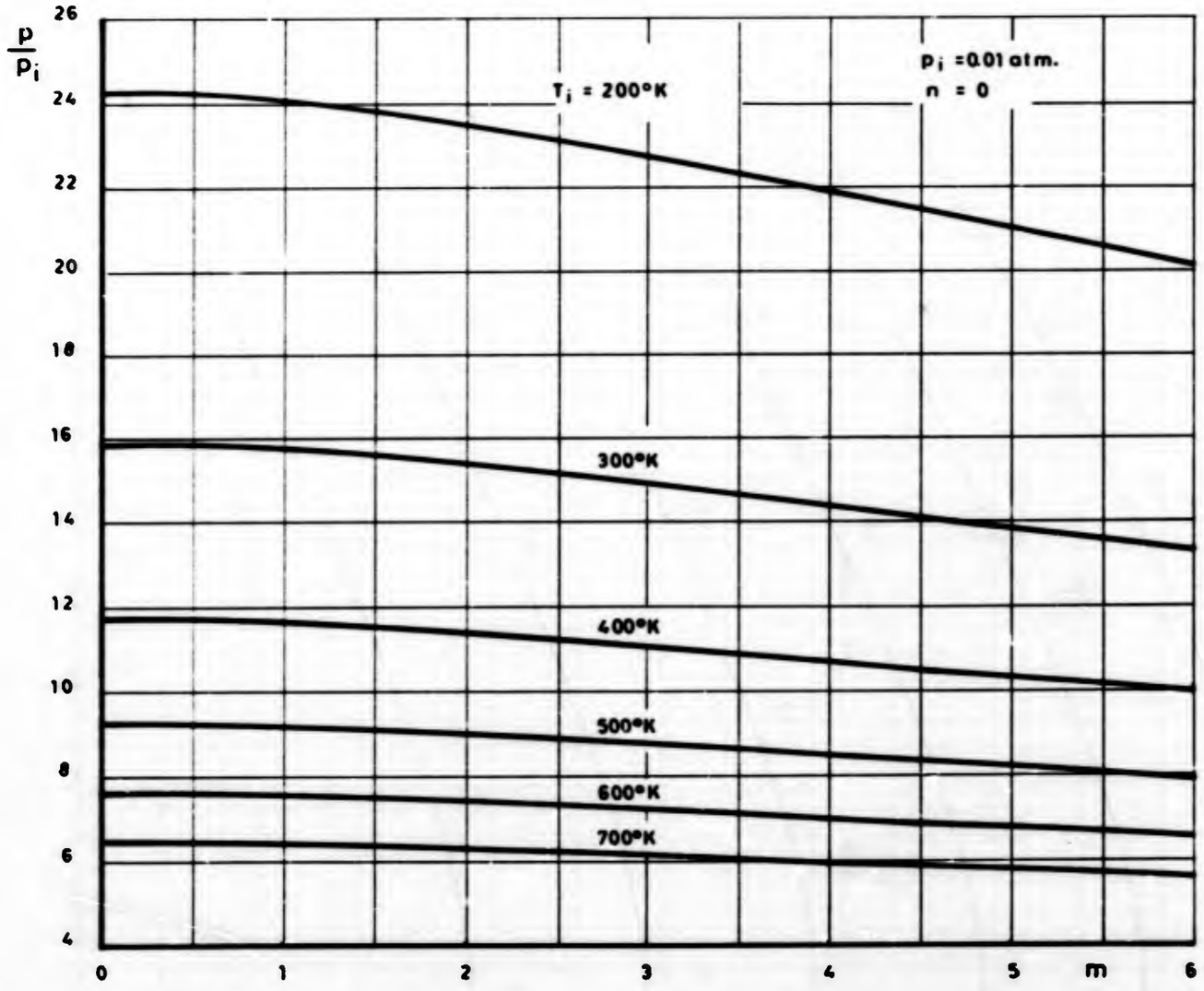


Fig 21 PRESSURE RATIO ACROSS THE DETONATION WAVE (HYDROGEN DILUTION)

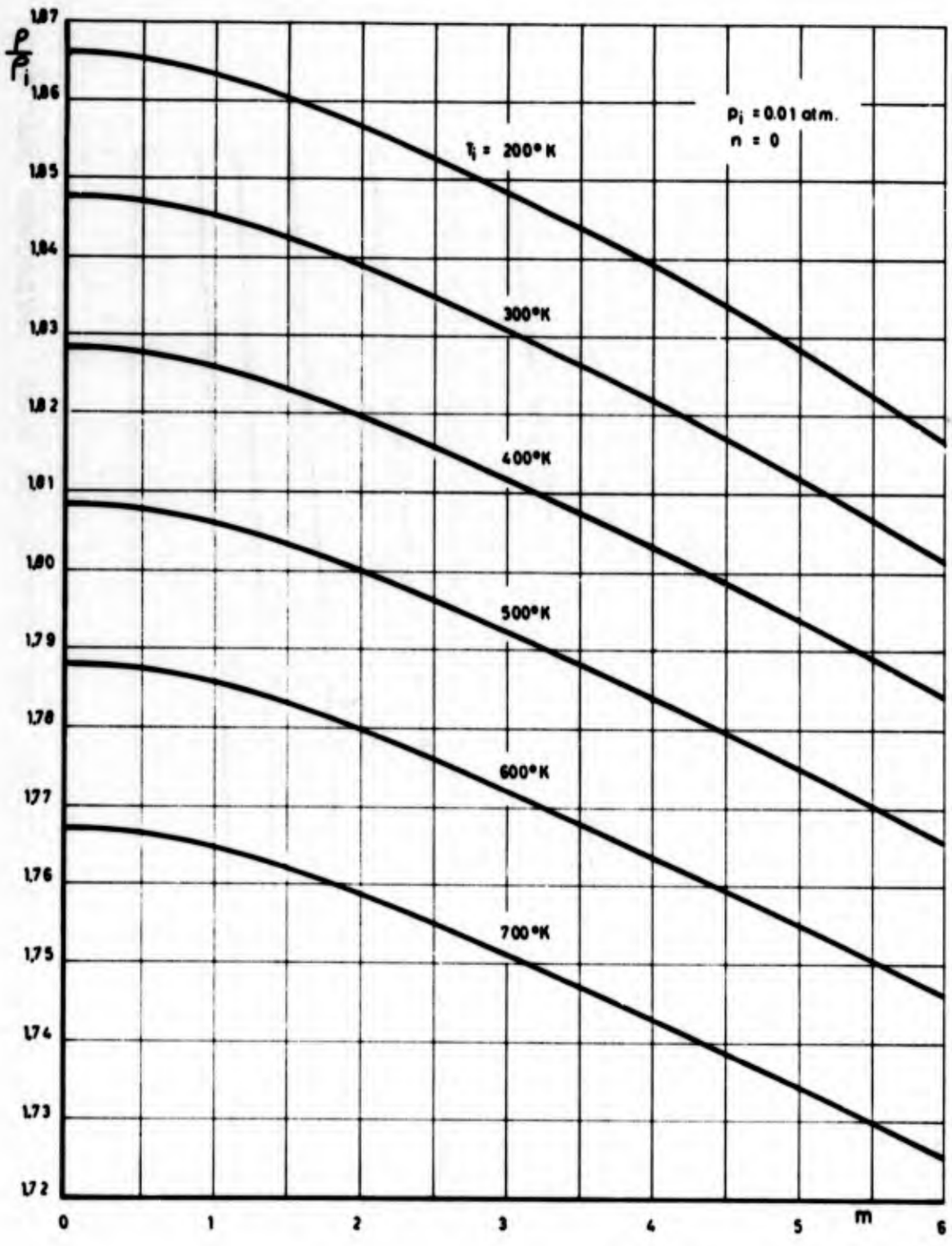


Fig. 22 DENSITY RATIO ACROSS THE DETONATION WAVE (HYDROGEN DILUTION)

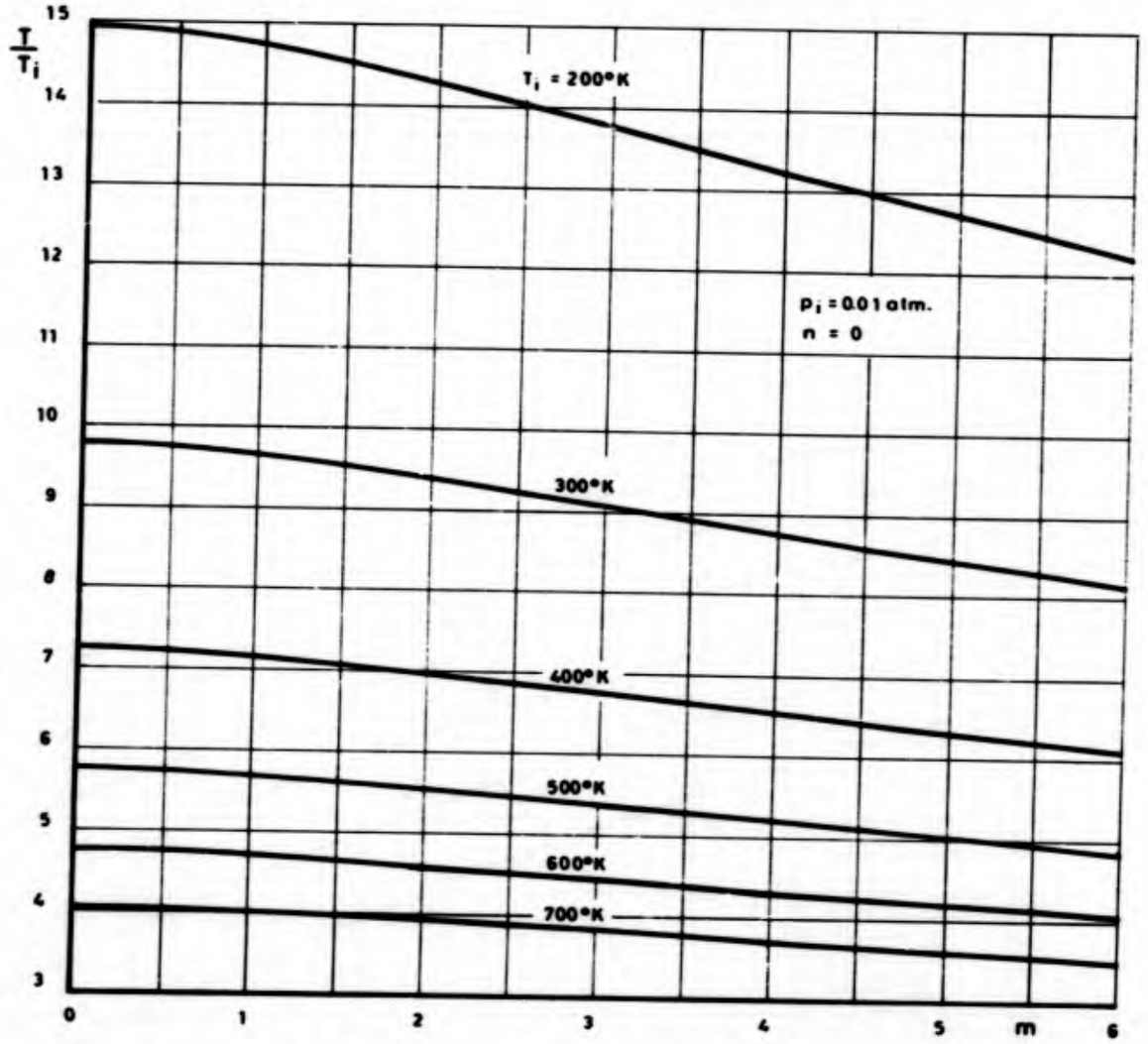


Fig. 23 TEMPERATURE RATIO ACROSS THE DETONATION WAVE (HYDROGEN DILUTION)

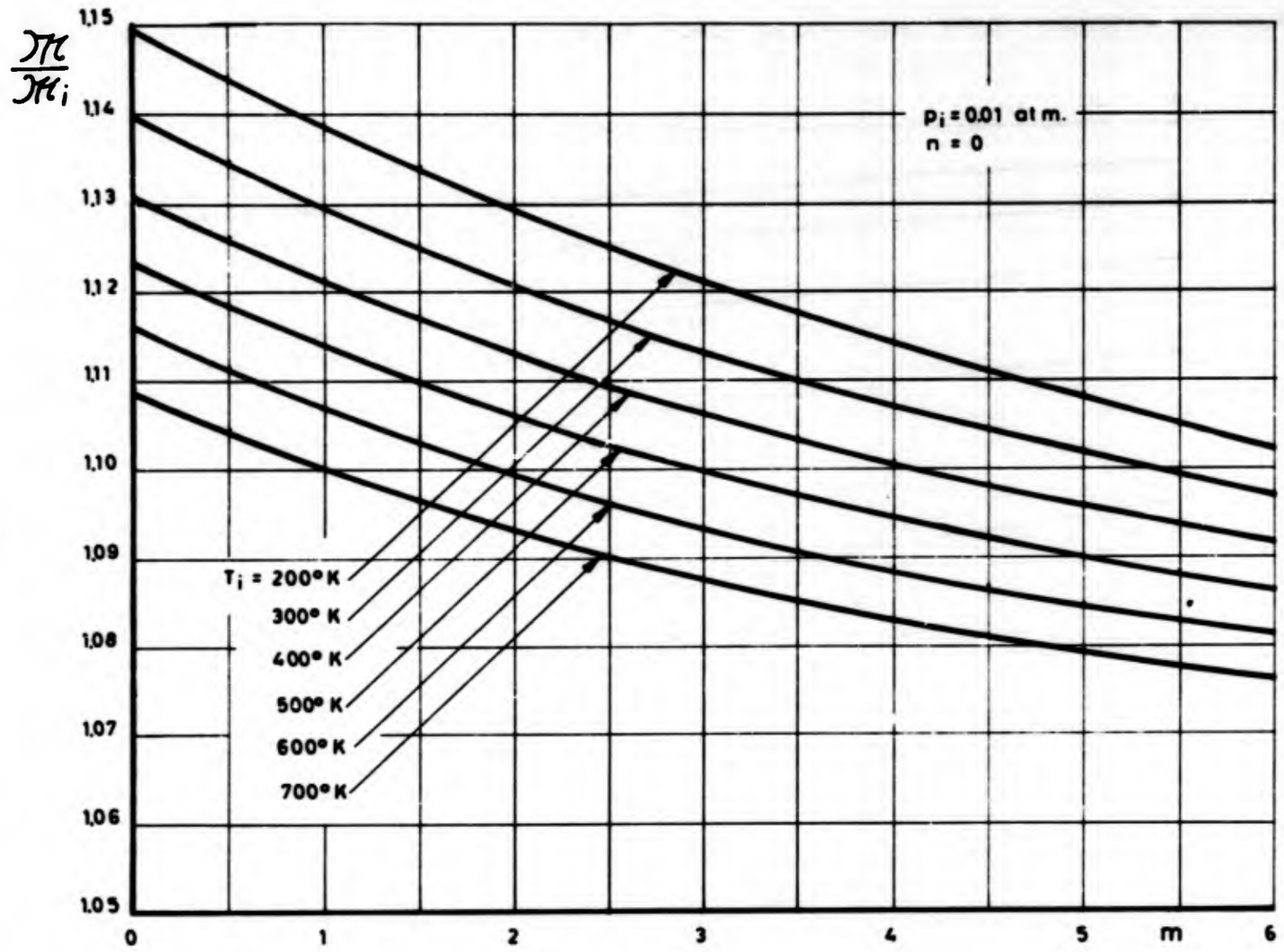


Fig. 24 MOLECULAR WEIGHT RATIO ACROSS THE DETONATION WAVE (HYDROGEN DILUTION)

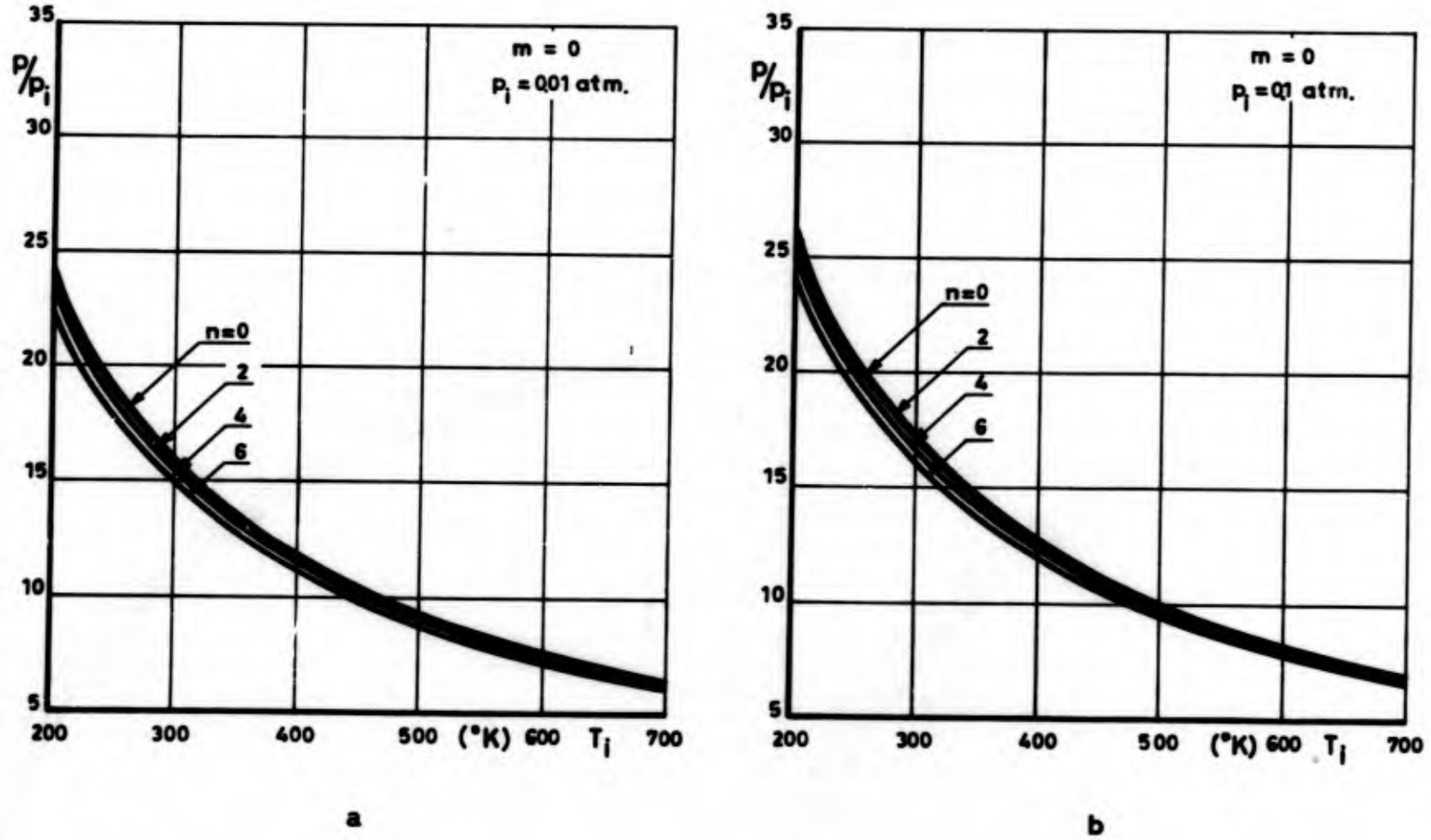


Fig. 25 PRESSURE RATIO ACROSS THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HELIUM DILUTION)

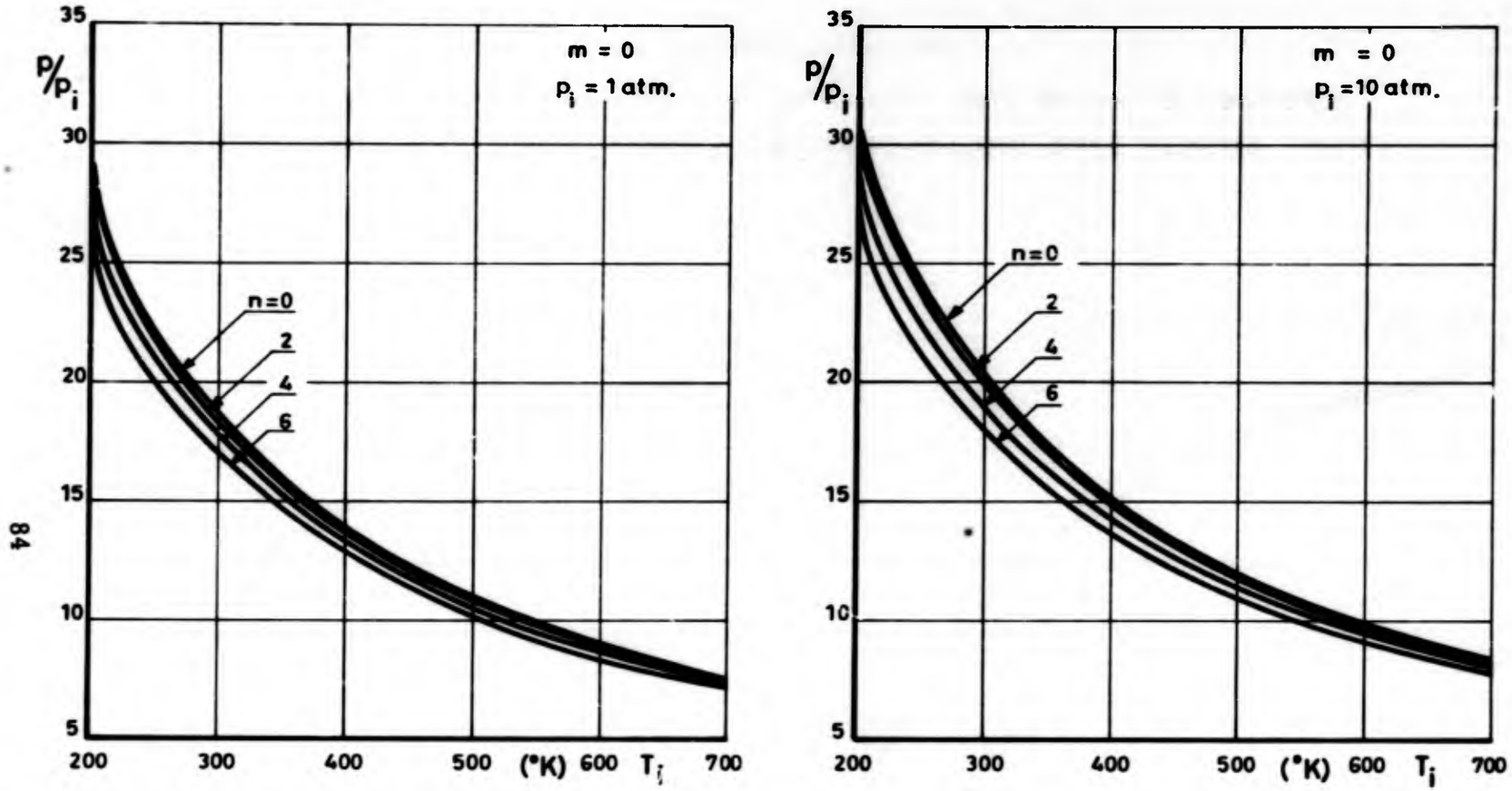


Fig. 25 PRESSURE RATIO ACROSS THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HELIUM DILUTION)

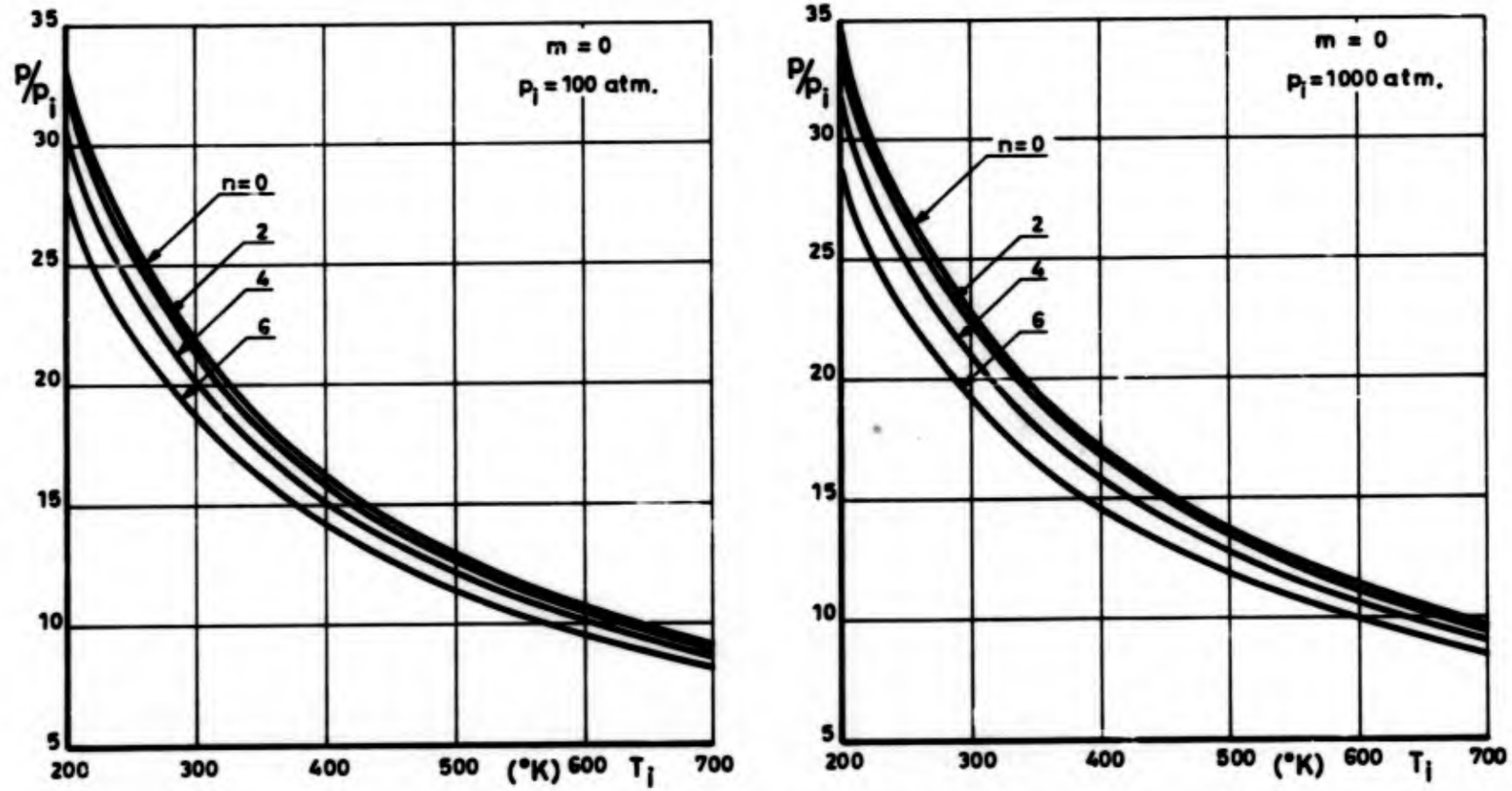


Fig. 25 PRESSURE RATIO ACROSS THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HELIUM DILUTION)

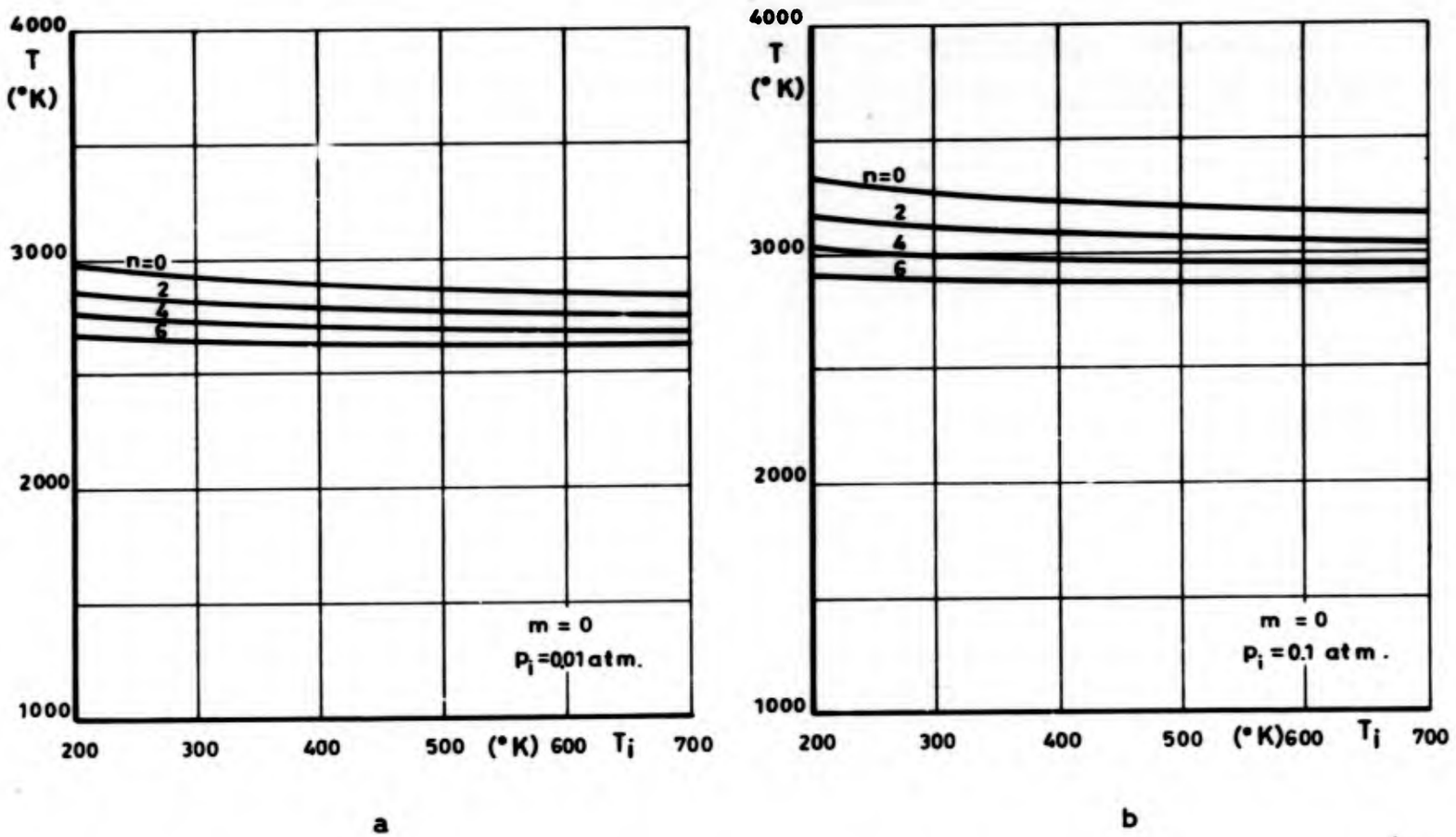
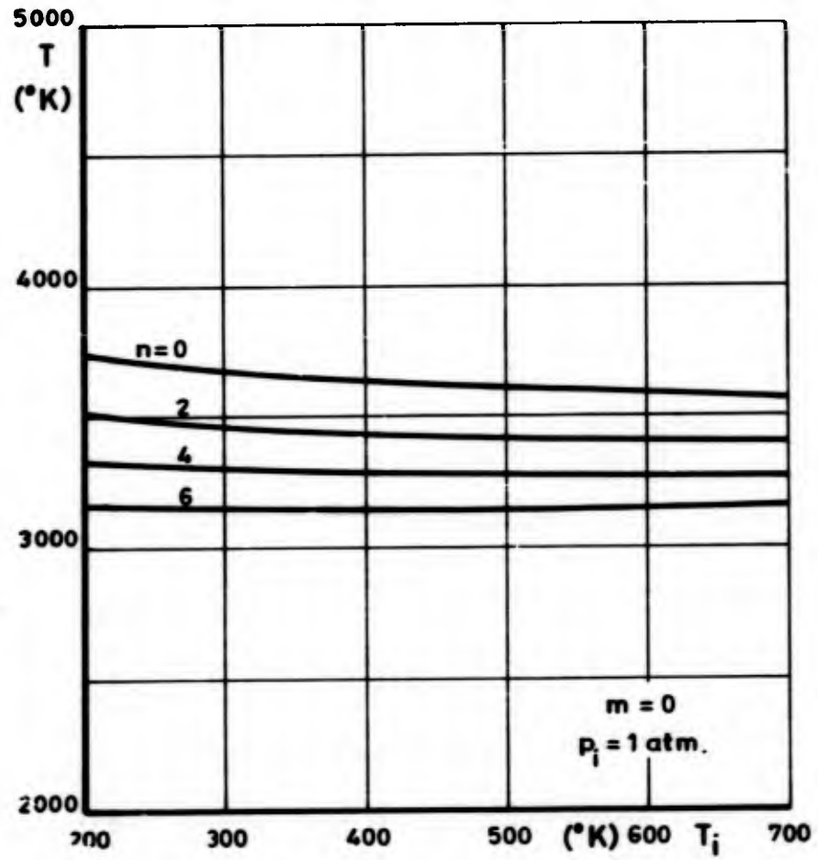


Fig. 26 TEMPERATURE BEHIND THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HELIUM DILUTION)



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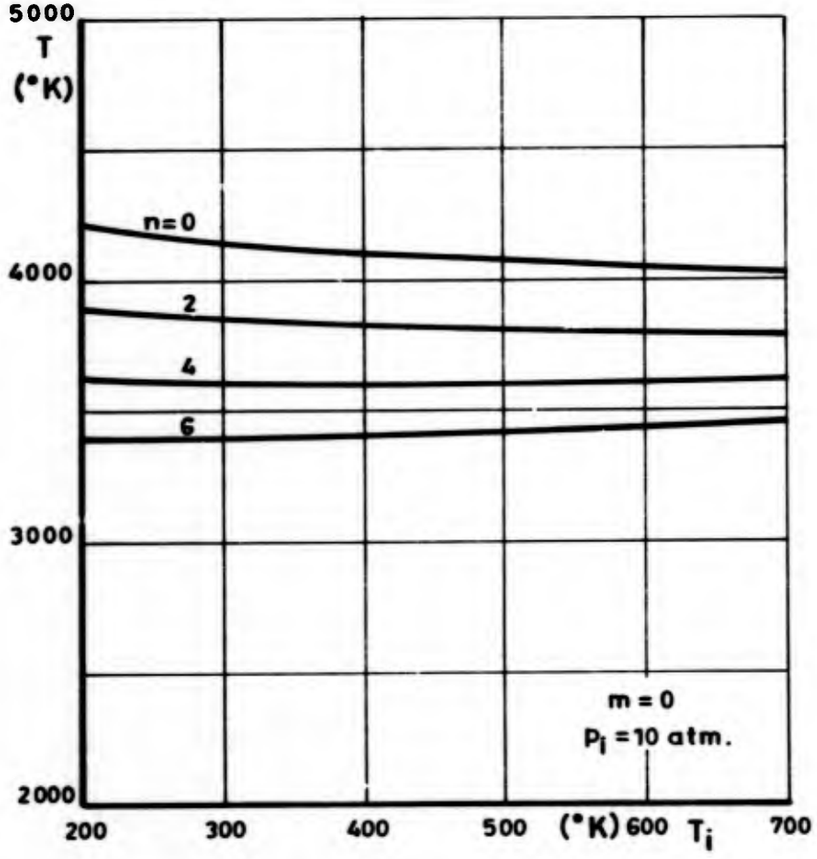

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Fig. 26 TEMPERATURE BEHIND THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HELIUM DILUTION)

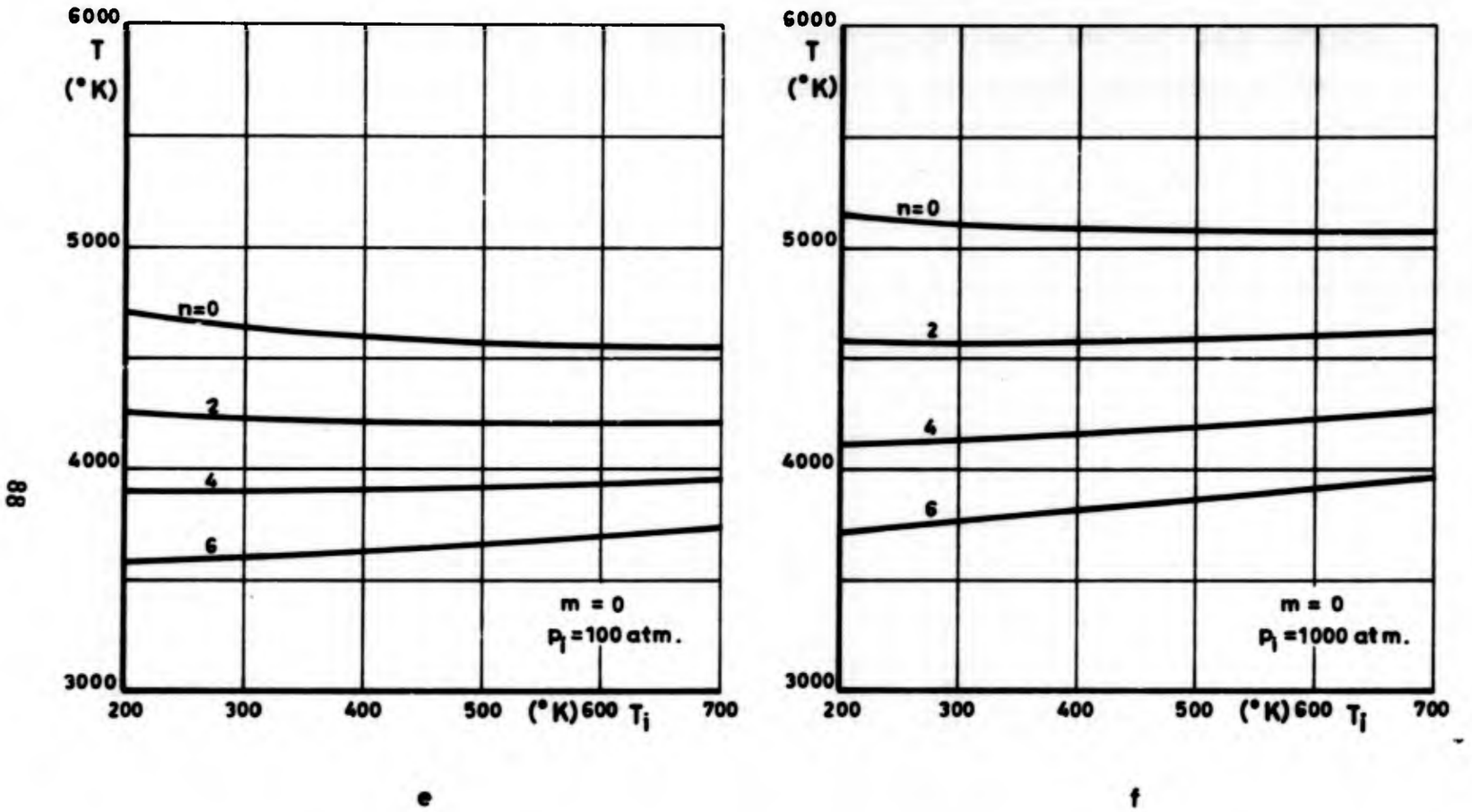


Fig. 26 TEMPERATURE BEHIND THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HELIUM DILUTION)

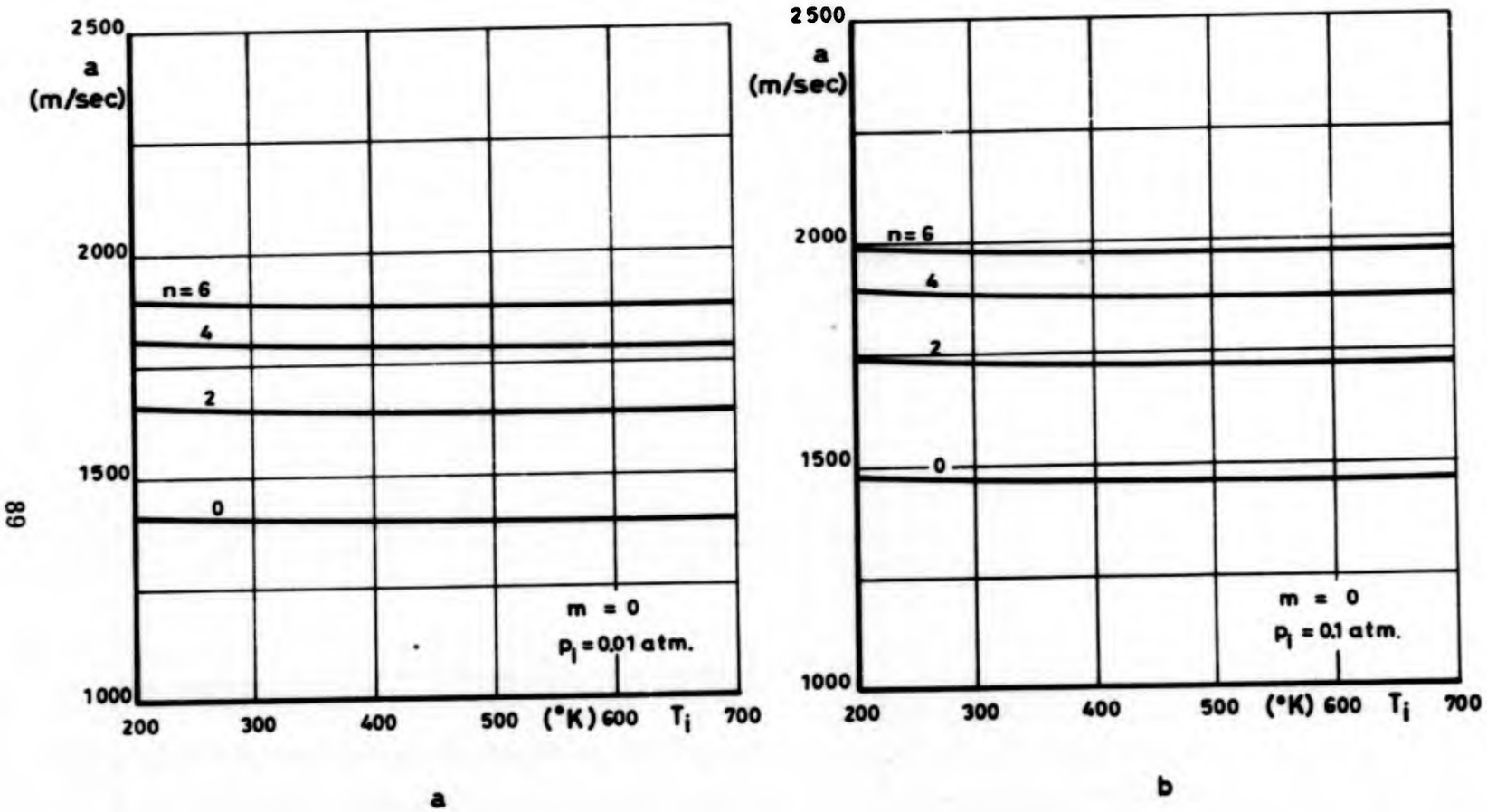


Fig. 27 EQUILIBRIUM SPEED OF SOUND BEHIND THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HELIUM DILUTION)

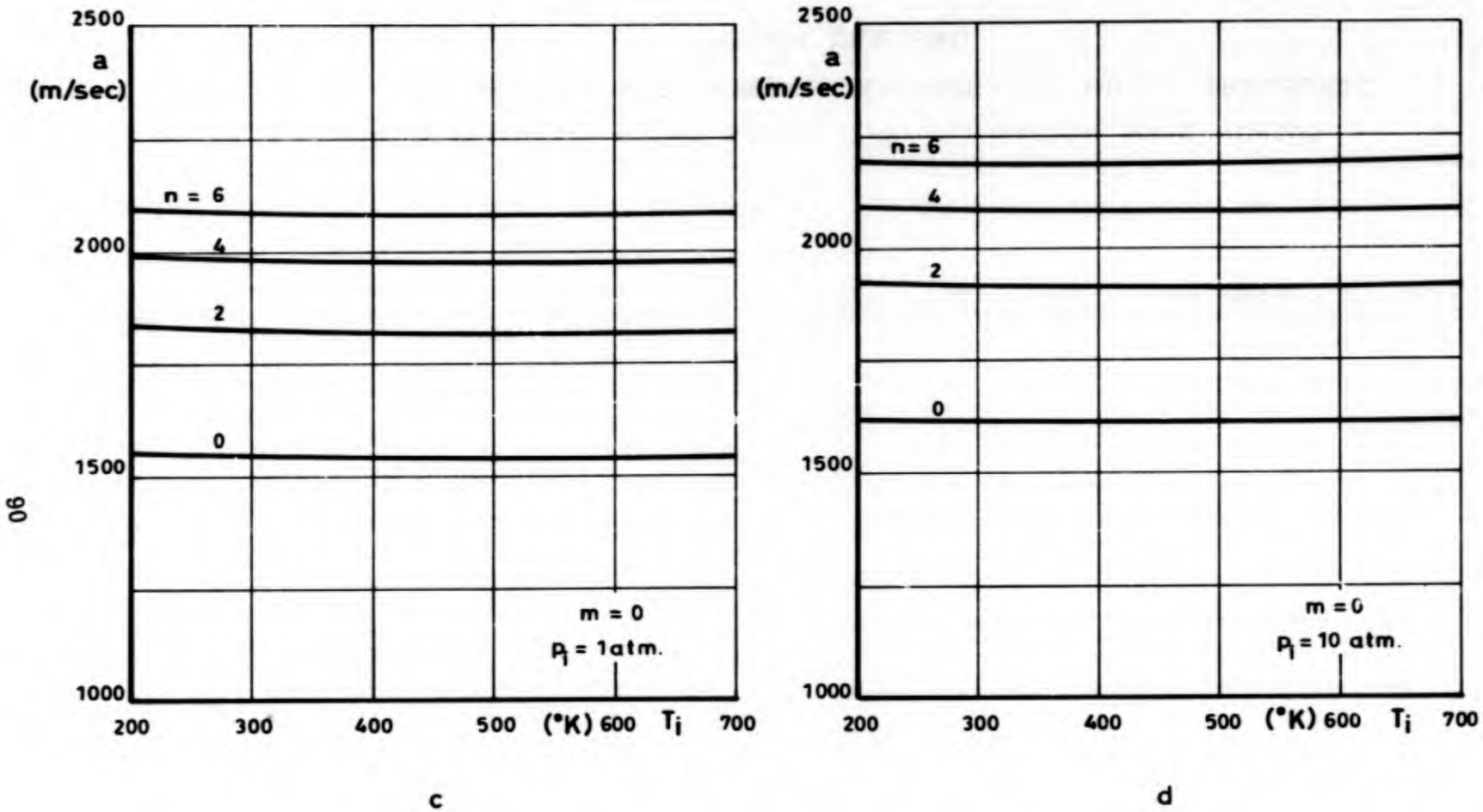


Fig. 27 EQUILIBRIUM SPEED OF SOUND BEHIND THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HELIUM DILUTION)

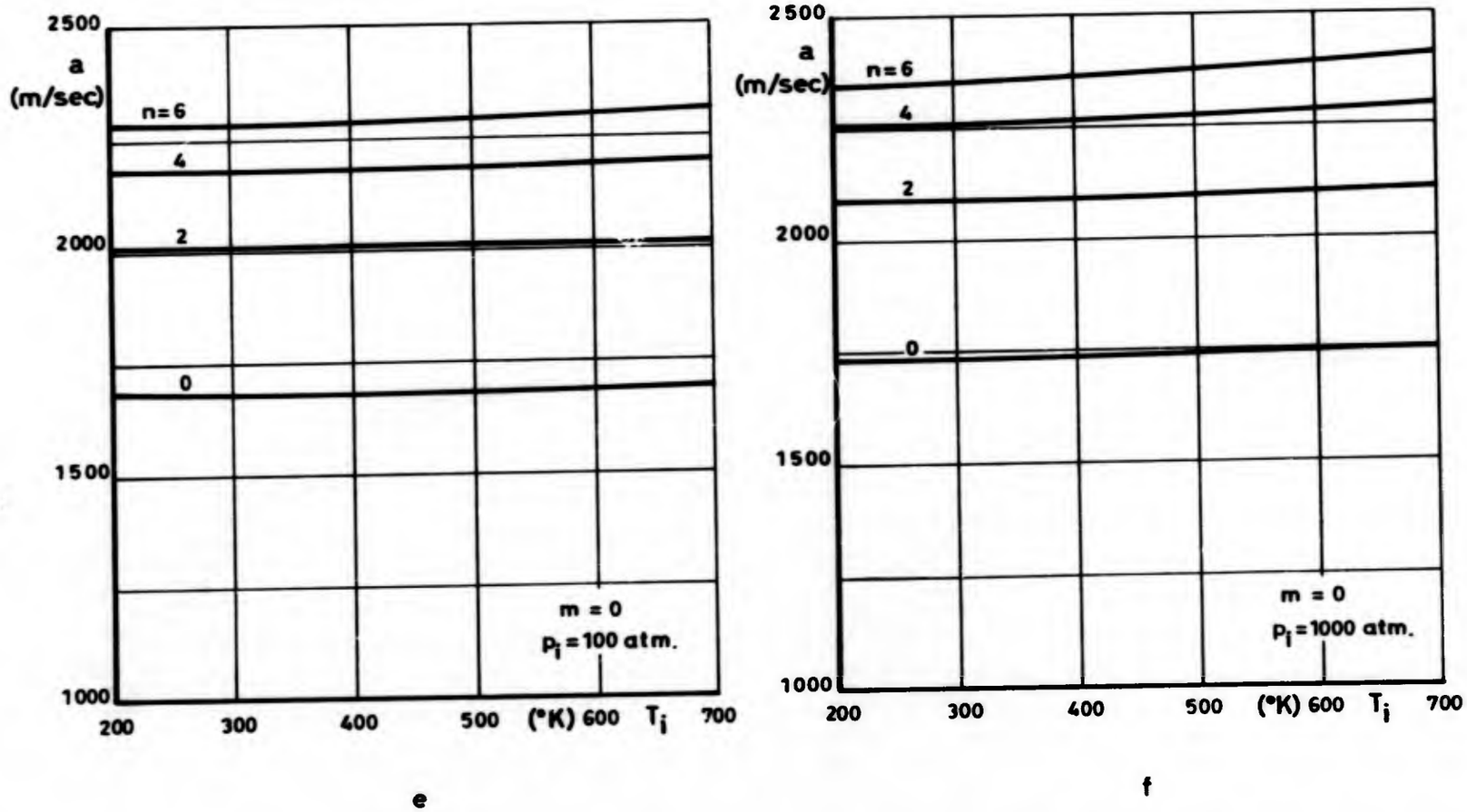


Fig. 27 EQUILIBRIUM SPEED OF SOUND BEHIND THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HELIUM DILUTION)

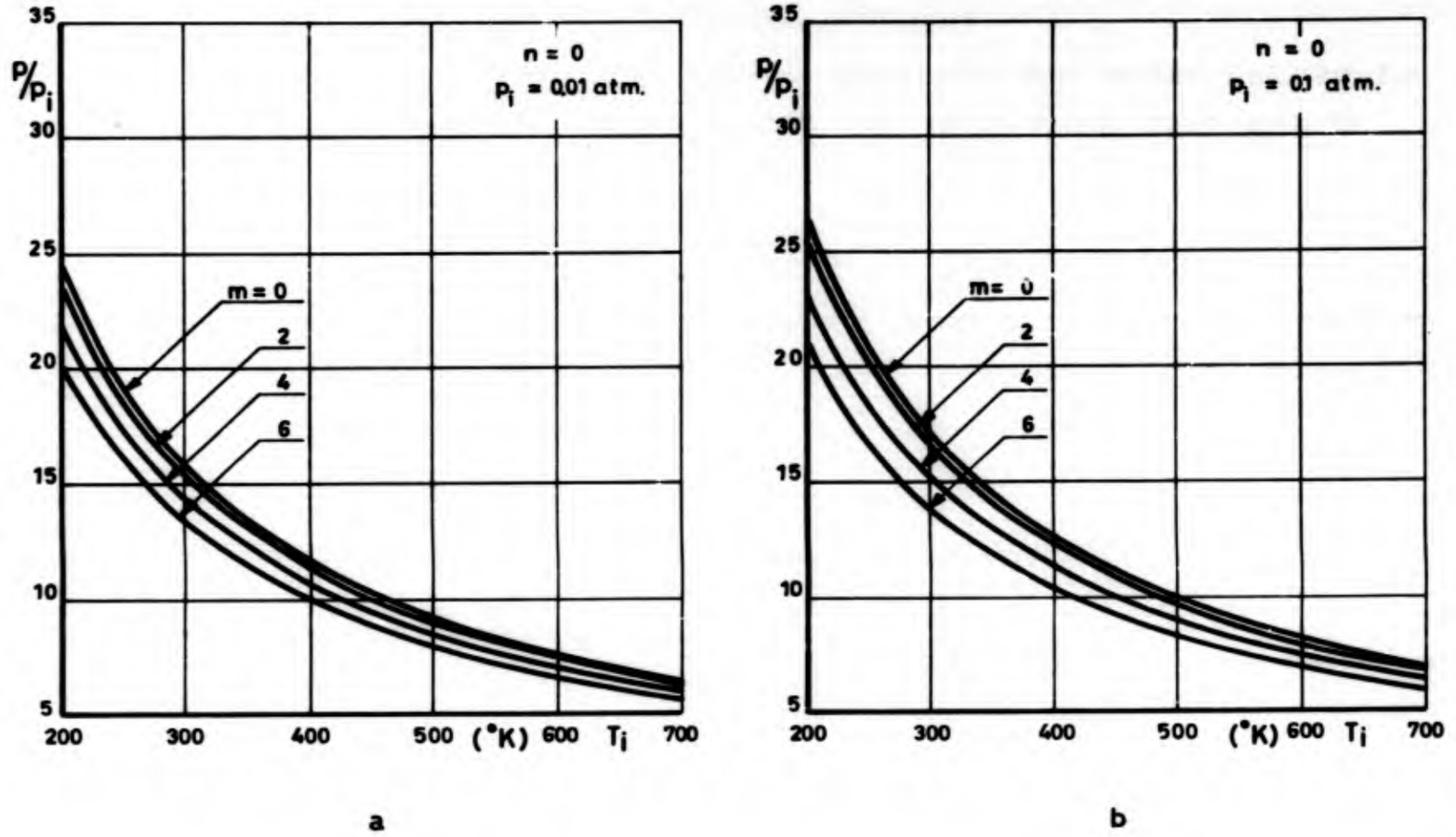


Fig. 28 PRESSURE RATIO ACROSS THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HYDROGEN DILUTION)

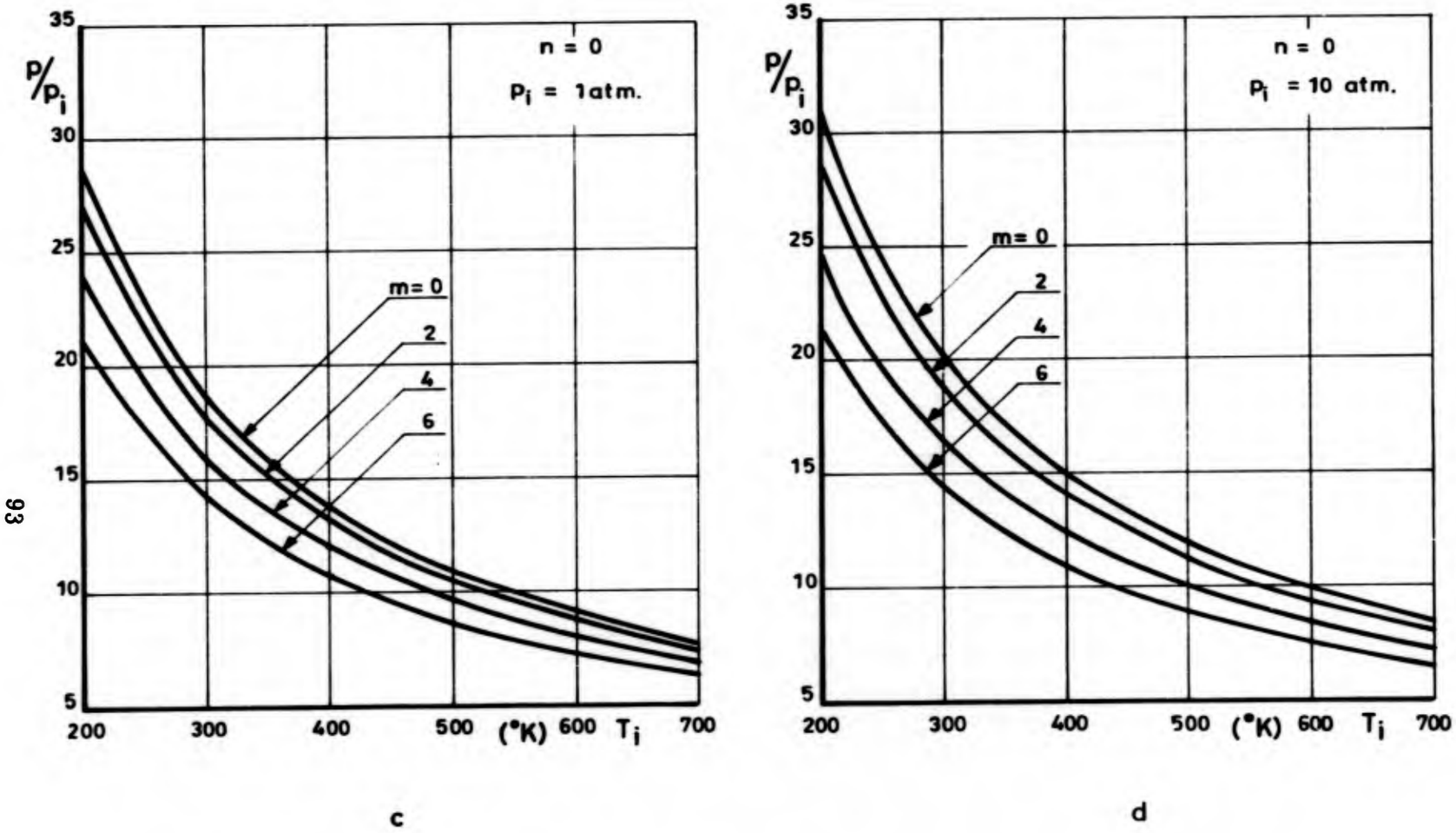
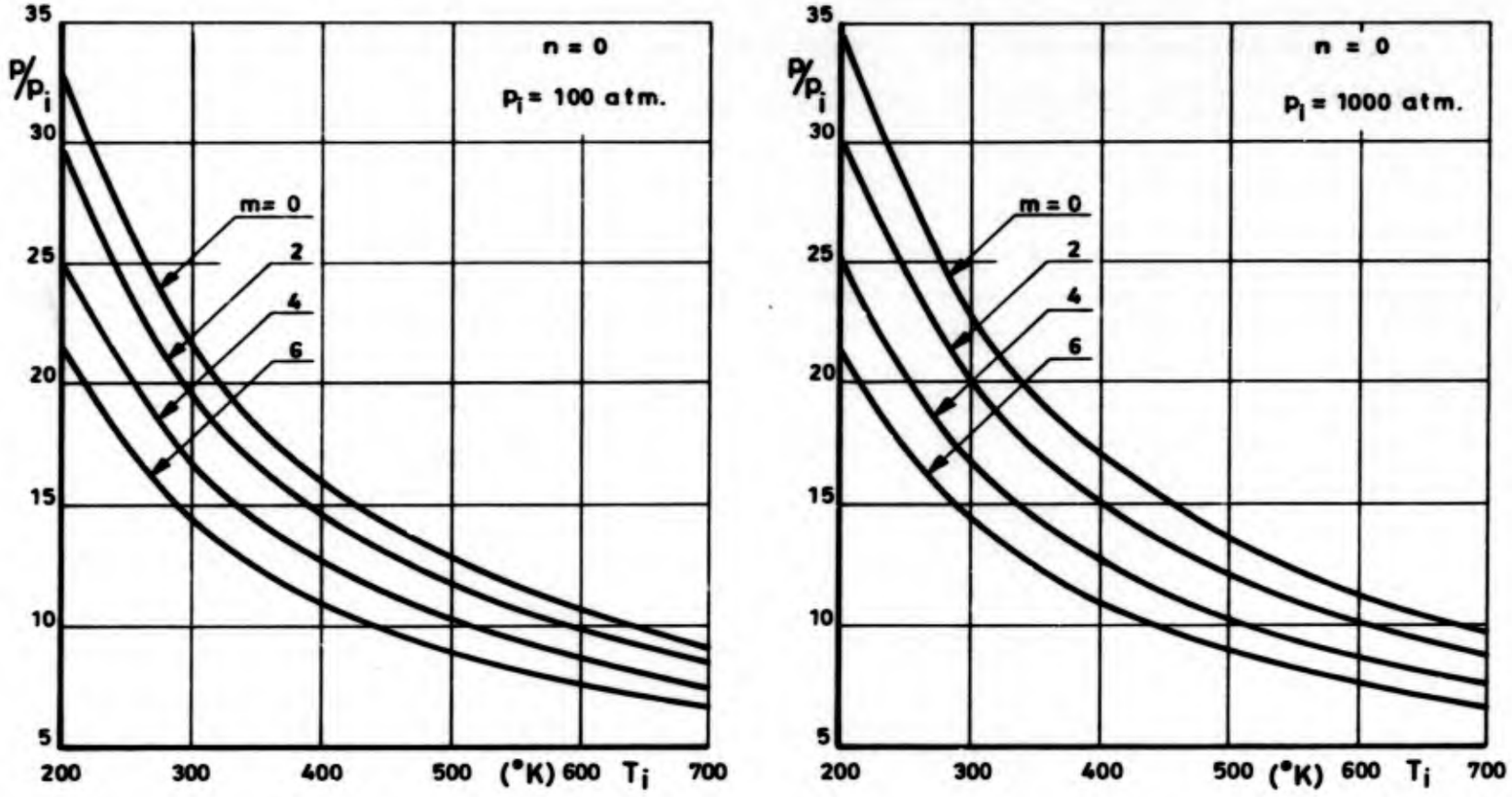


Fig. 28 PRESSURE RATIO ACROSS THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HYDROGEN DILUTION)



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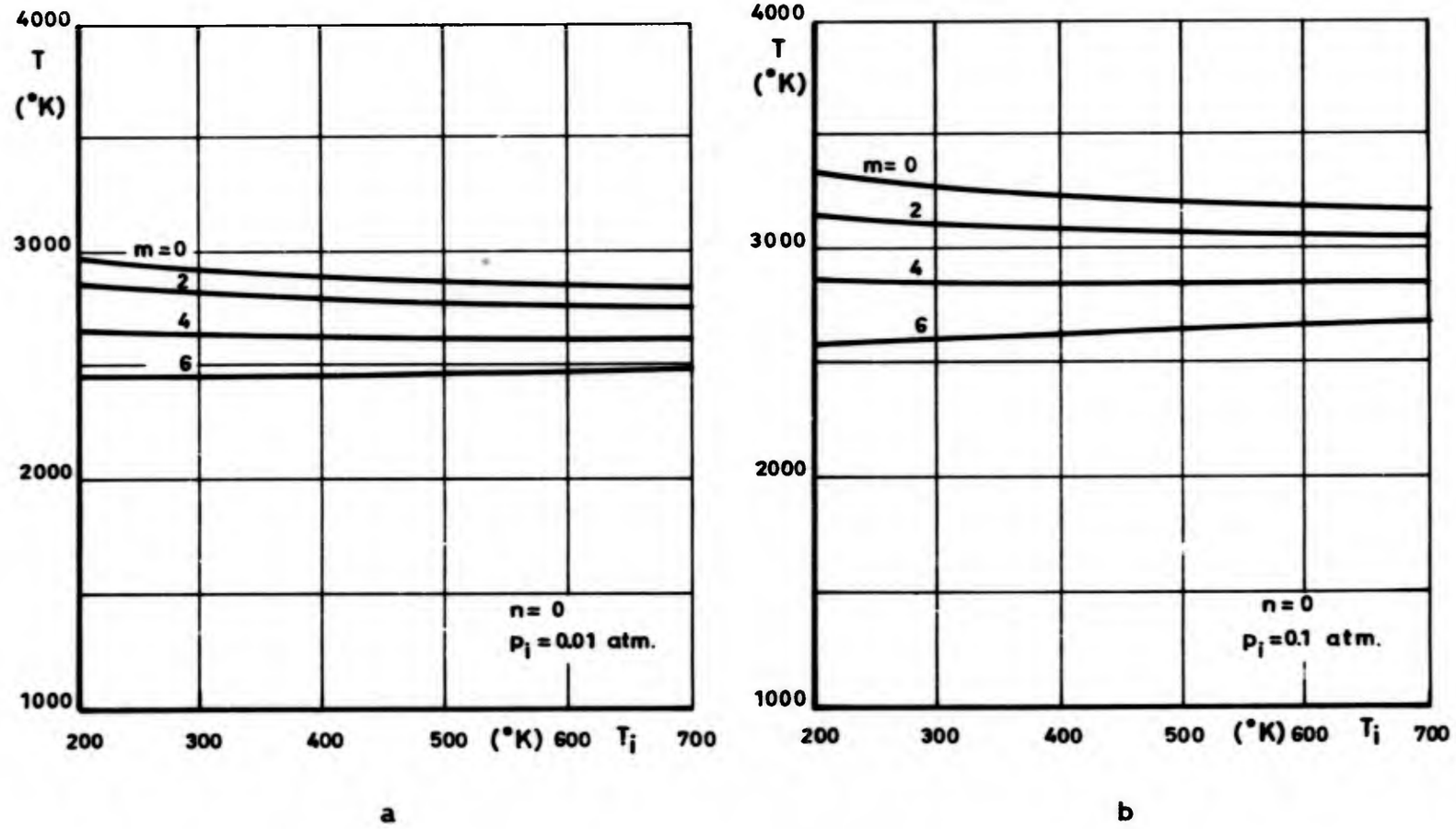
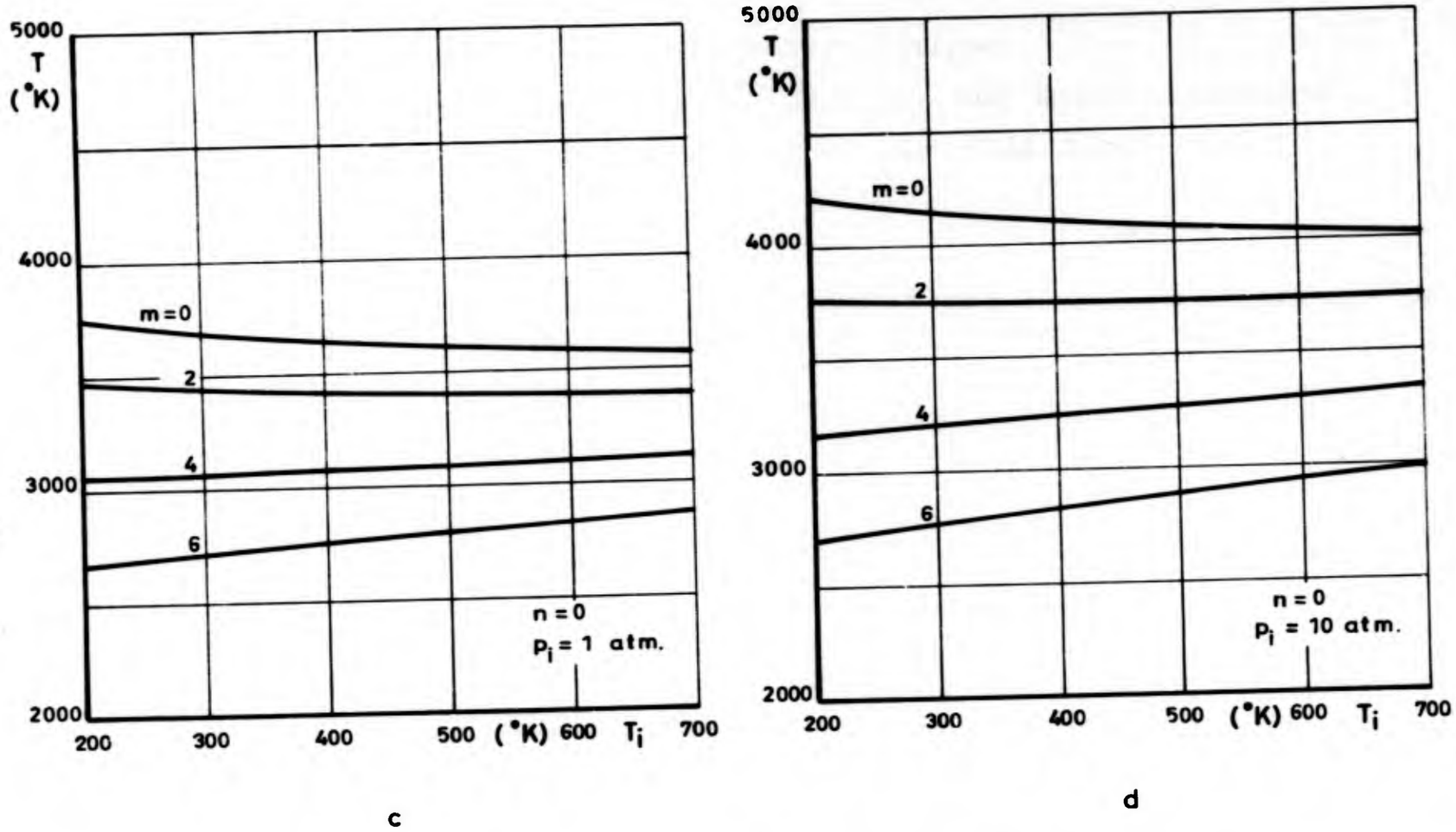


Fig. 29 TEMPERATURE BEHIND THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HYDROGEN DILUTION)



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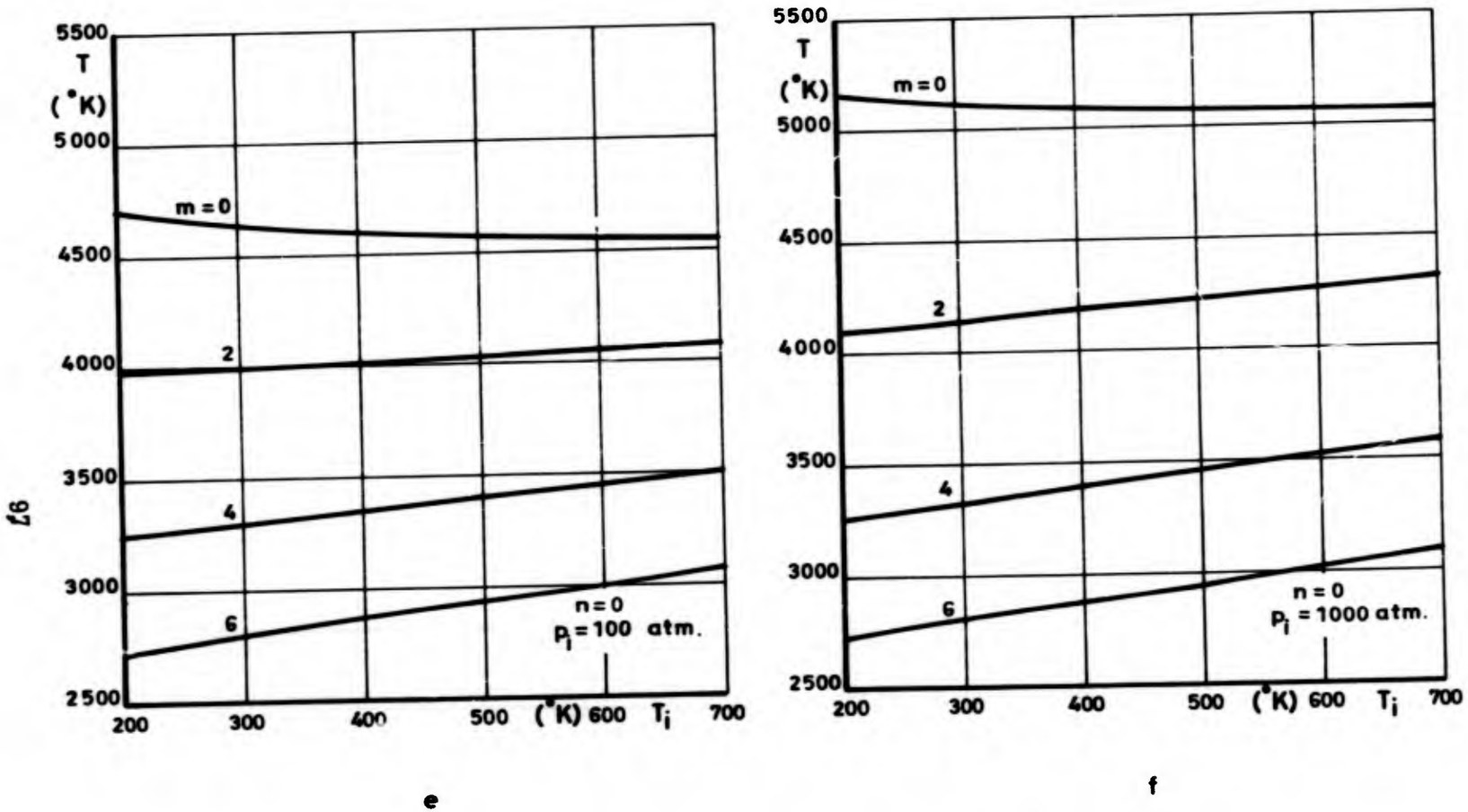

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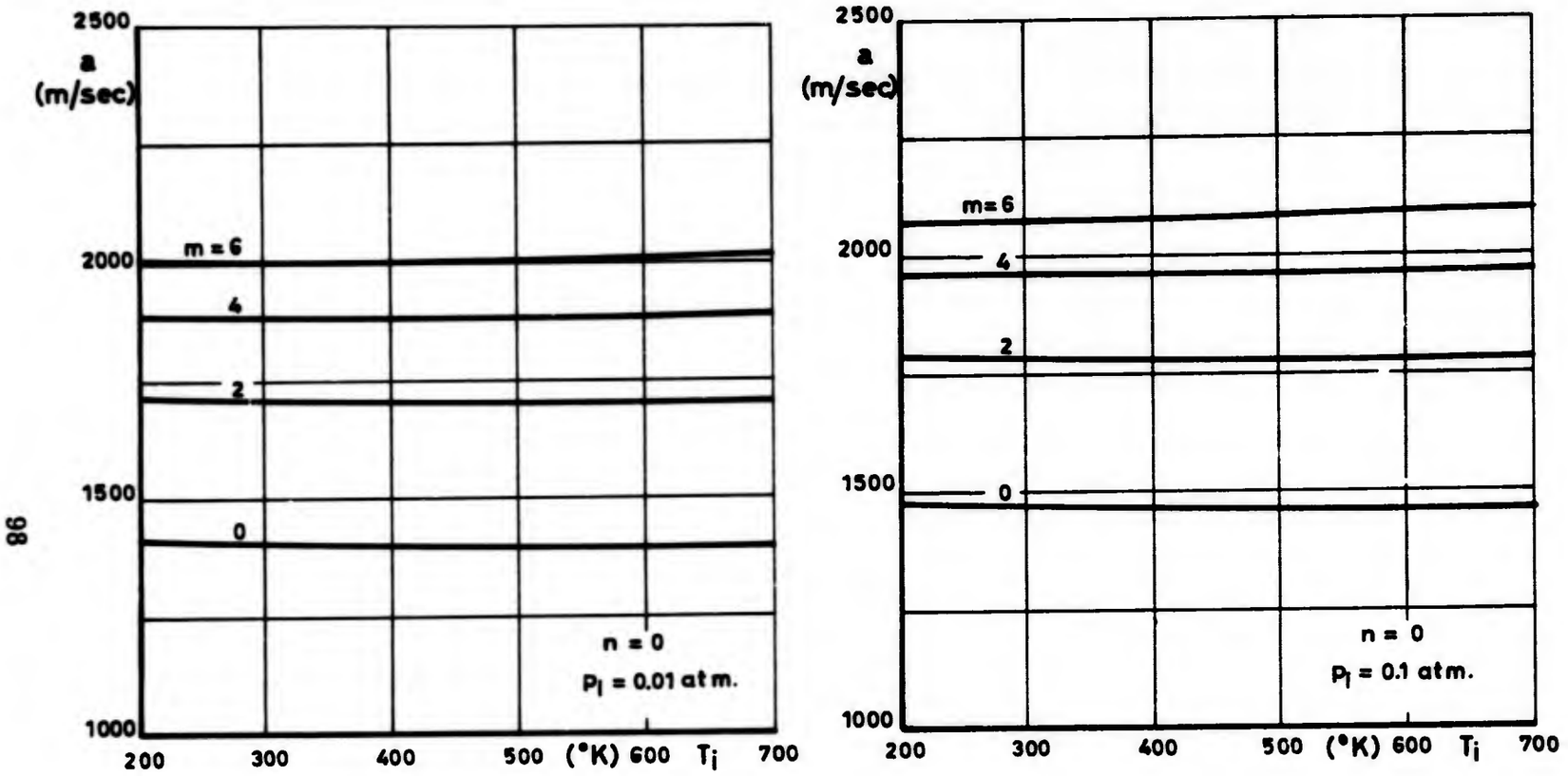

Fig. 30 EQUILIBRIUM SPEED OF SOUND BEHIND THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HYDROGEN DILUTION)

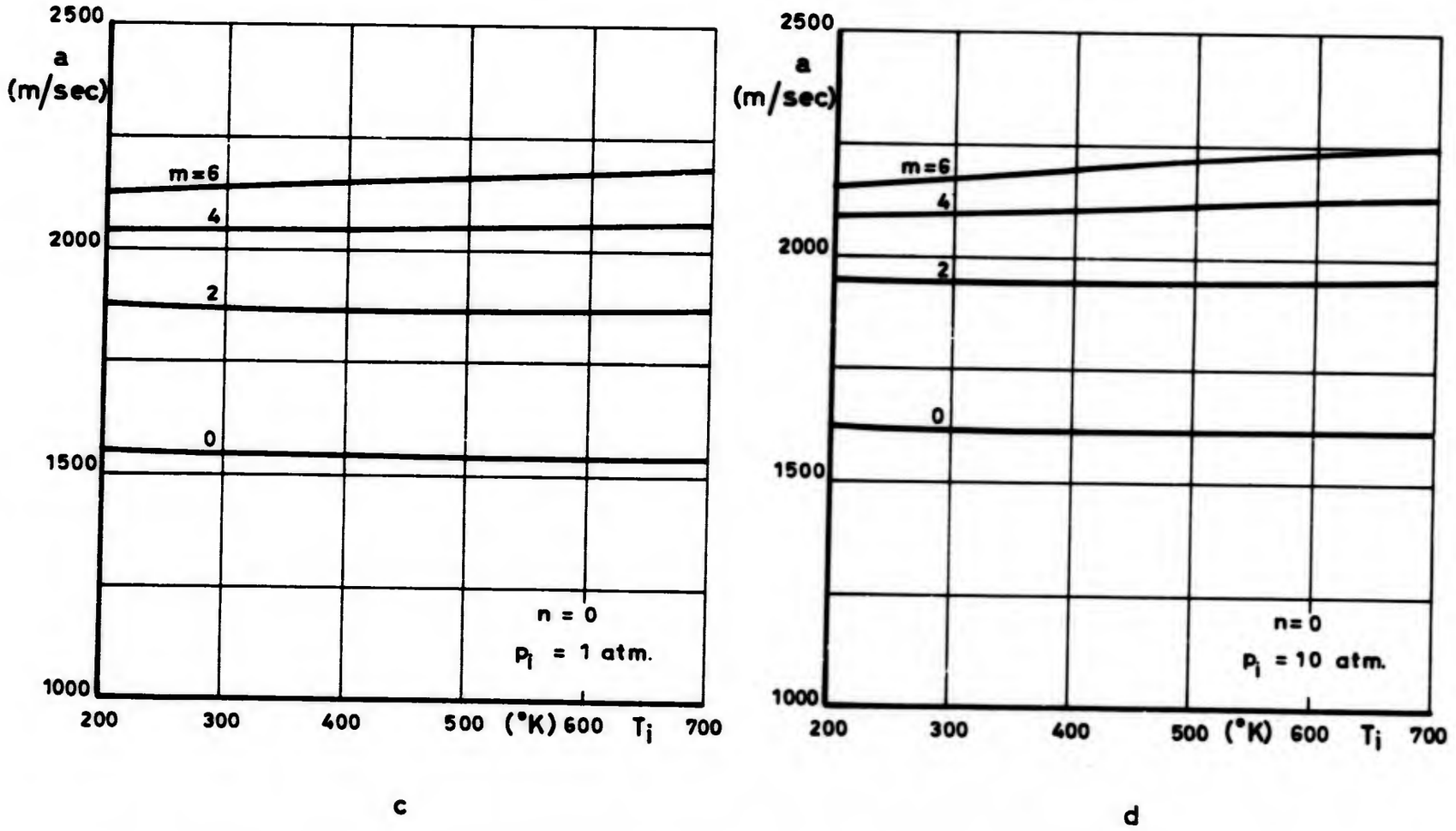

Fig. 30 EQUILIBRIUM SPEED OF SOUND BEHIND THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HYDROGEN DILUTION)

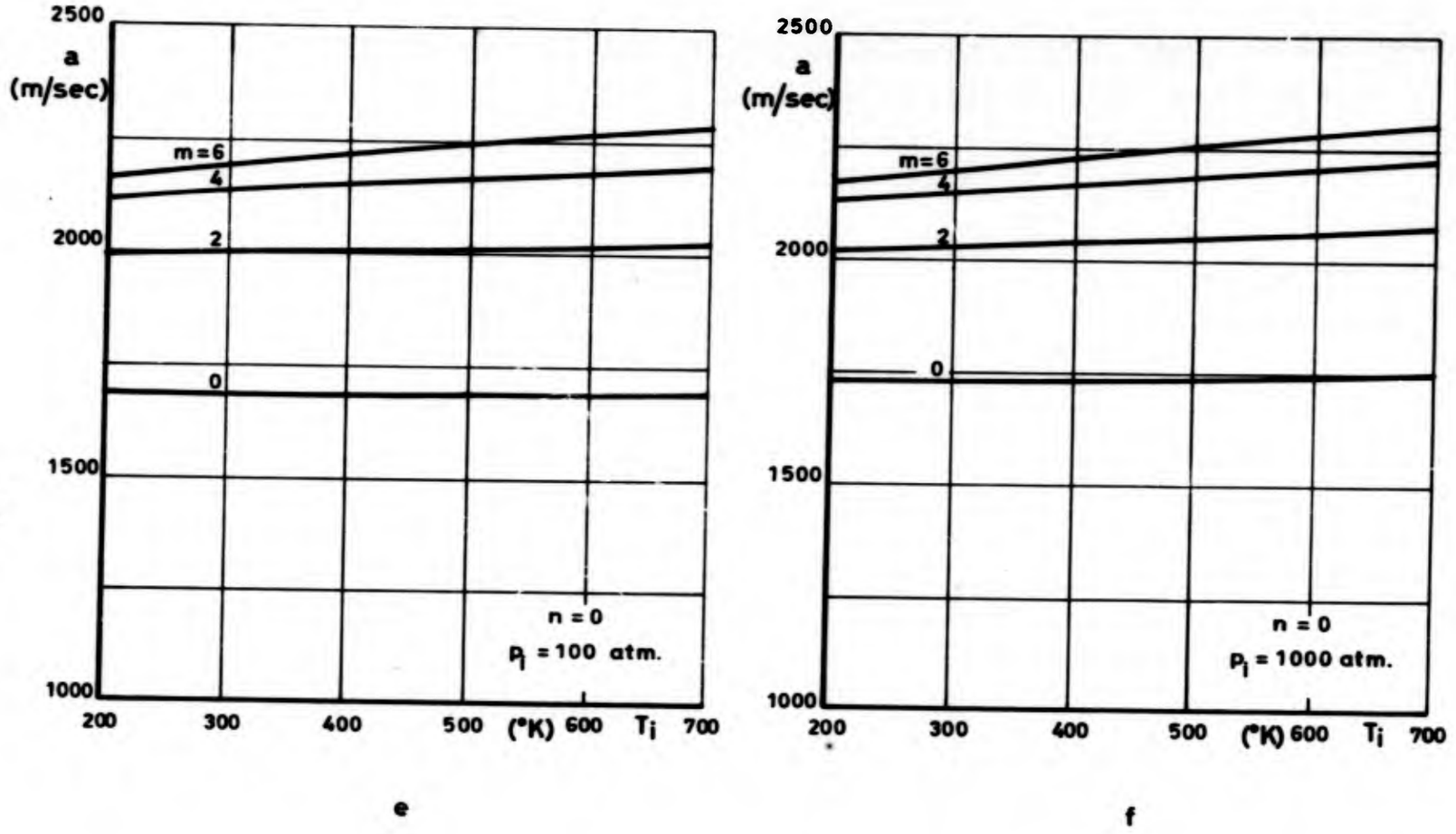

Fig. 30 EQUILIBRIUM SPEED OF SOUND BEHIND THE DETONATION WAVE VERSUS INITIAL TEMPERATURE FOR SEVERAL DILUTIONS AND INITIAL PRESSURES (HYDROGEN DILUTION)

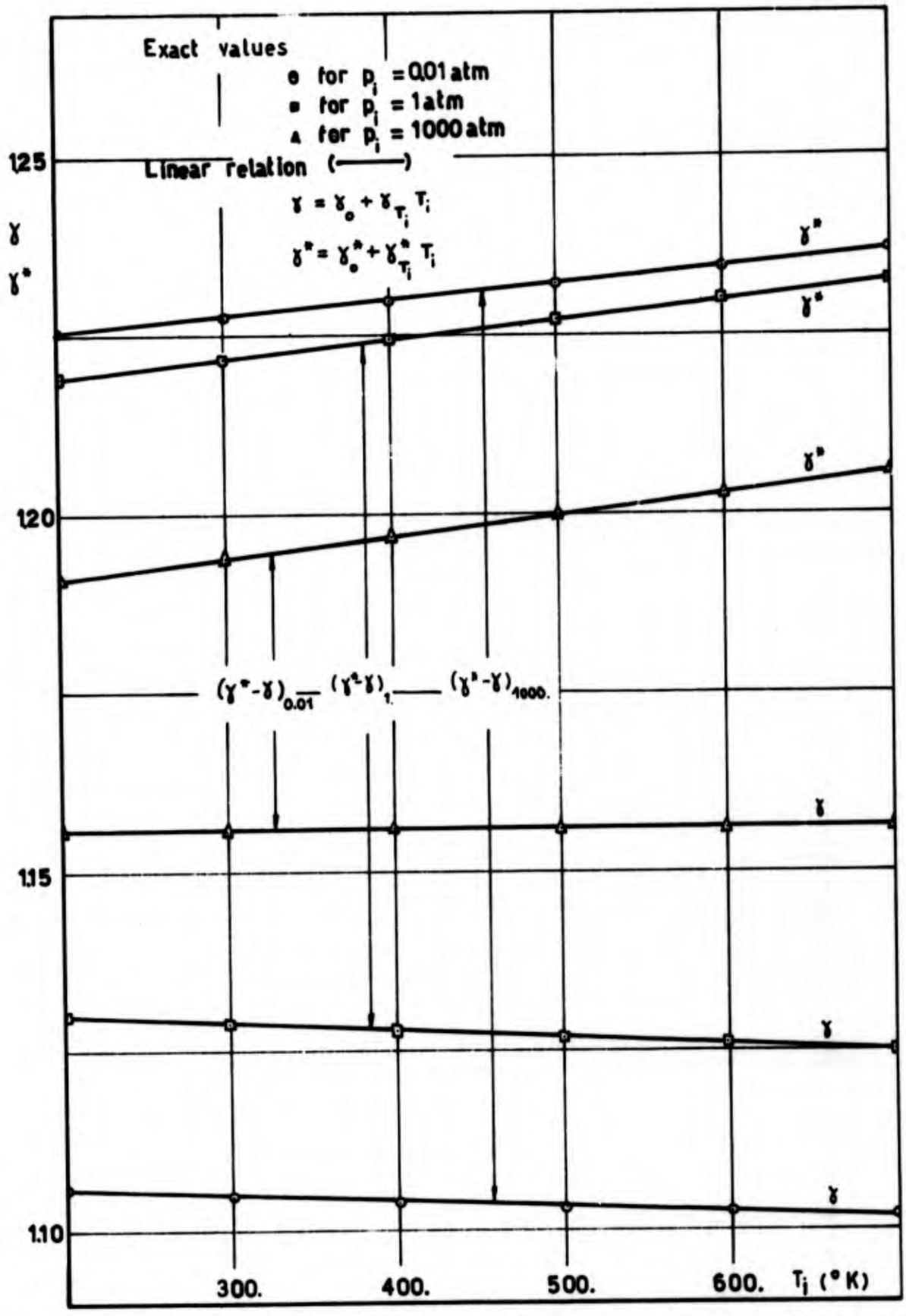

FIG. 31 SPECIFIC HEAT RATIO (γ^*) AND ISENTROPIC EXPONENT (γ) VERSUS INITIAL TEMPERATURE (T_i). (STOICHIOMETRIC MIXTURE).

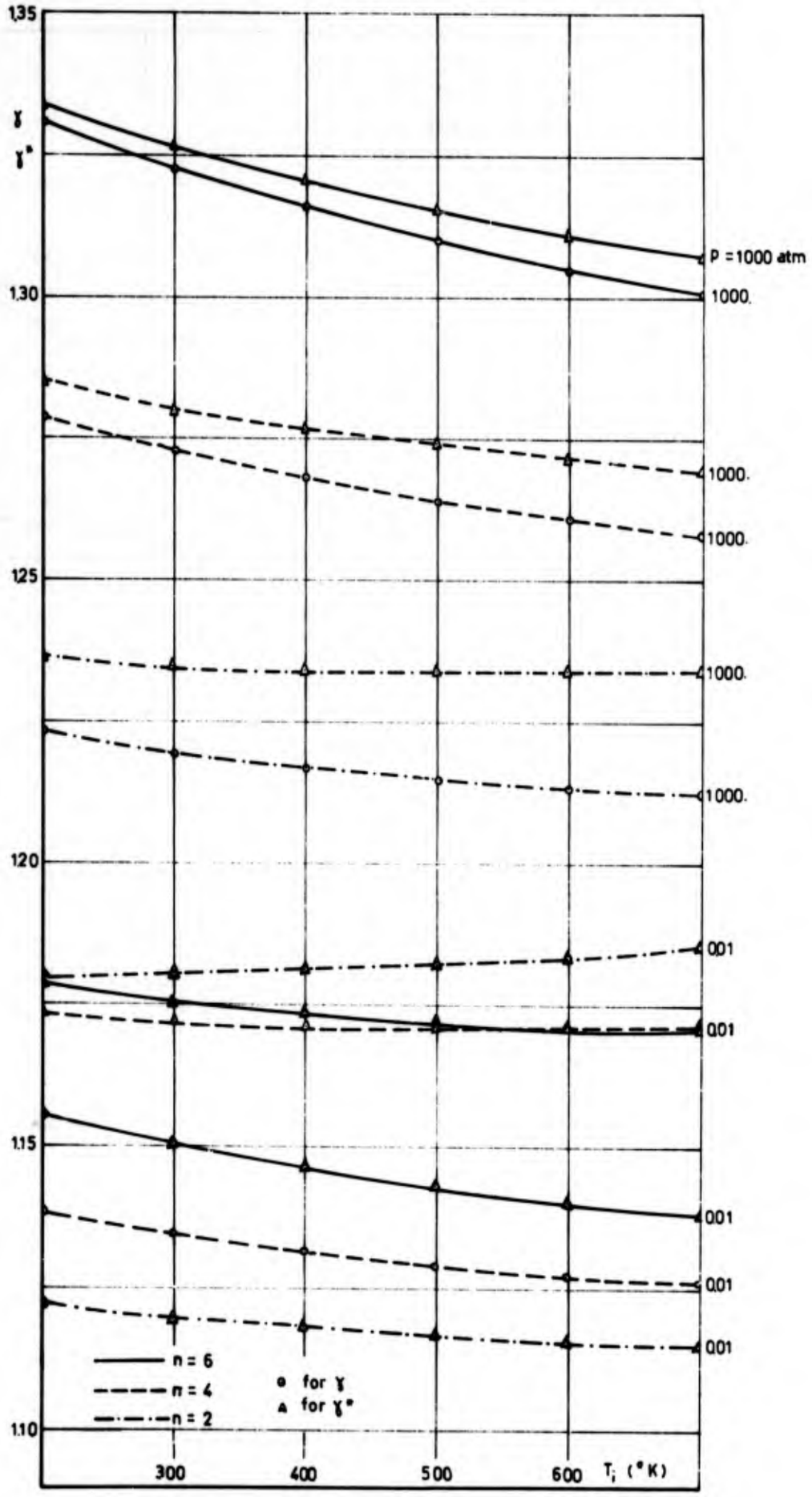

FIG. 32 SPECIFIC HEAT RATIO (γ^*) AND ISENTROPIC EXPONENT (γ) VERSUS INITIAL TEMPERATURE (T_i). (HELIUM DILUTION).

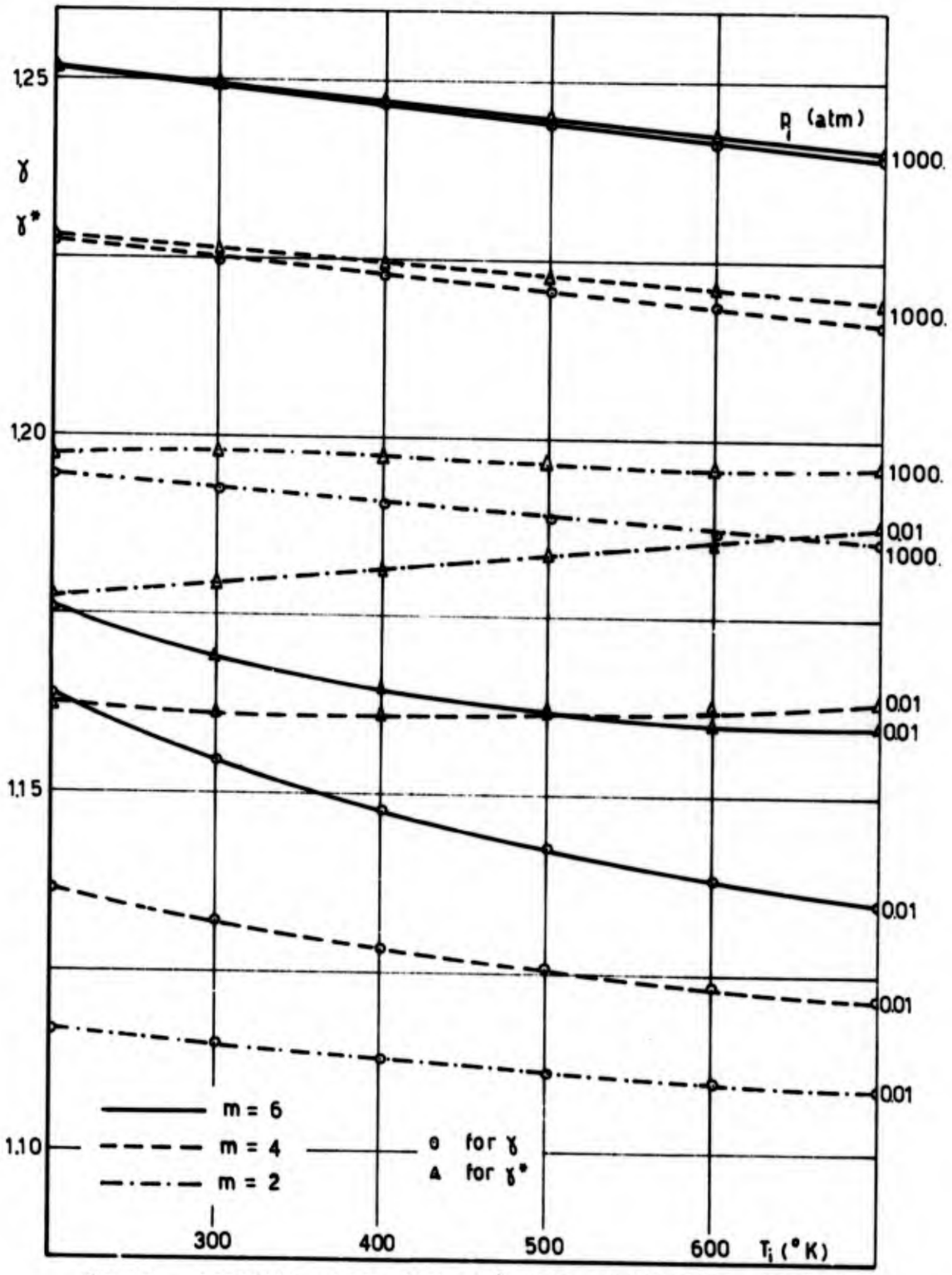

FIG. 33 SPECIFIC HEAT RATIO (γ^*) AND ISENTROPIC EXPONENT (γ) VERSUS INITIAL TEMPERATURE (T_i). (HYDROGEN DILUTION).

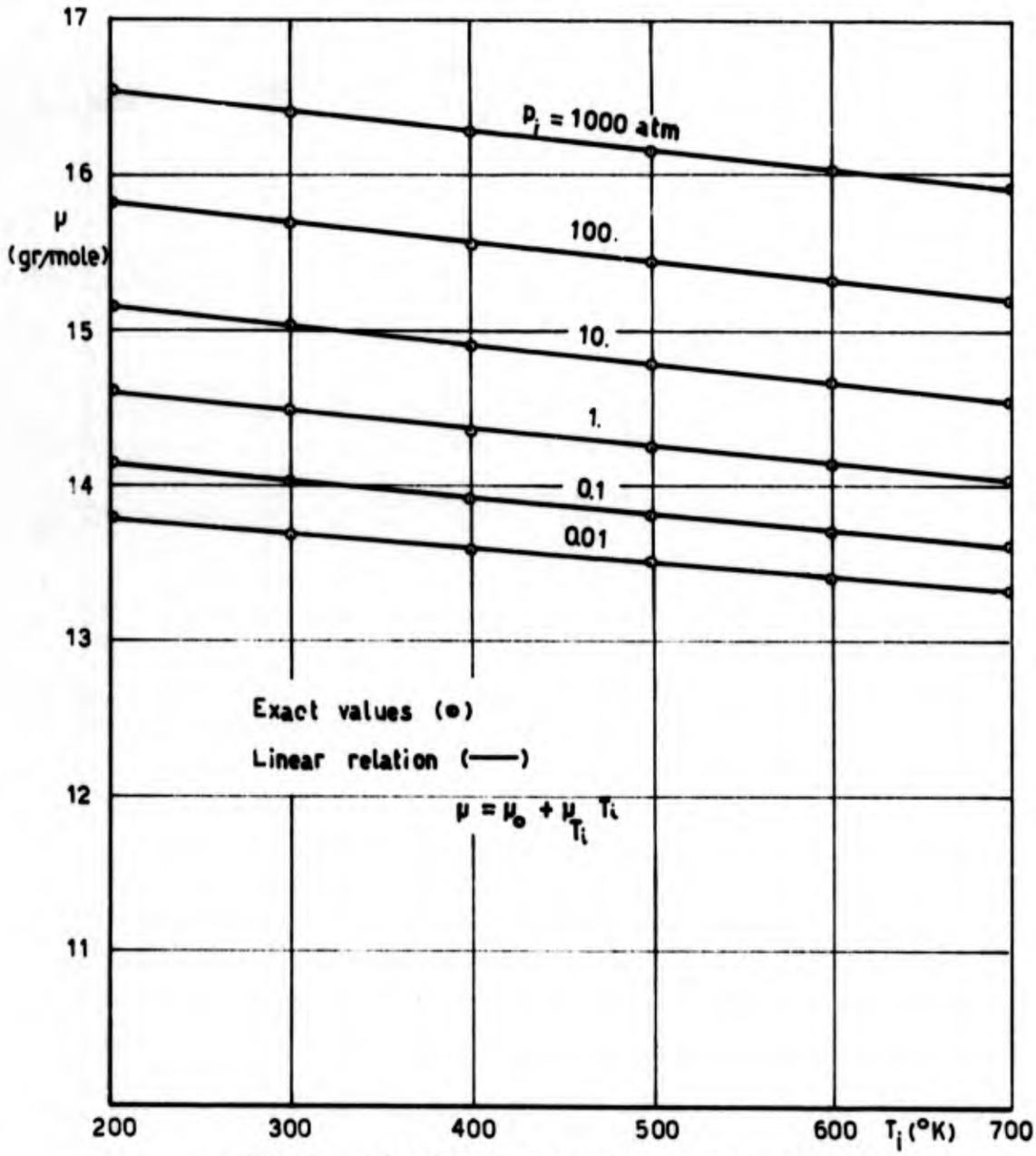

FIG 34 INFLUENCE OF INITIAL TEMPERATURE ON MOLECULAR WEIGHT OF DETONATION PRODUCTS.
(STOICHIOMETRIC MIXTURE).

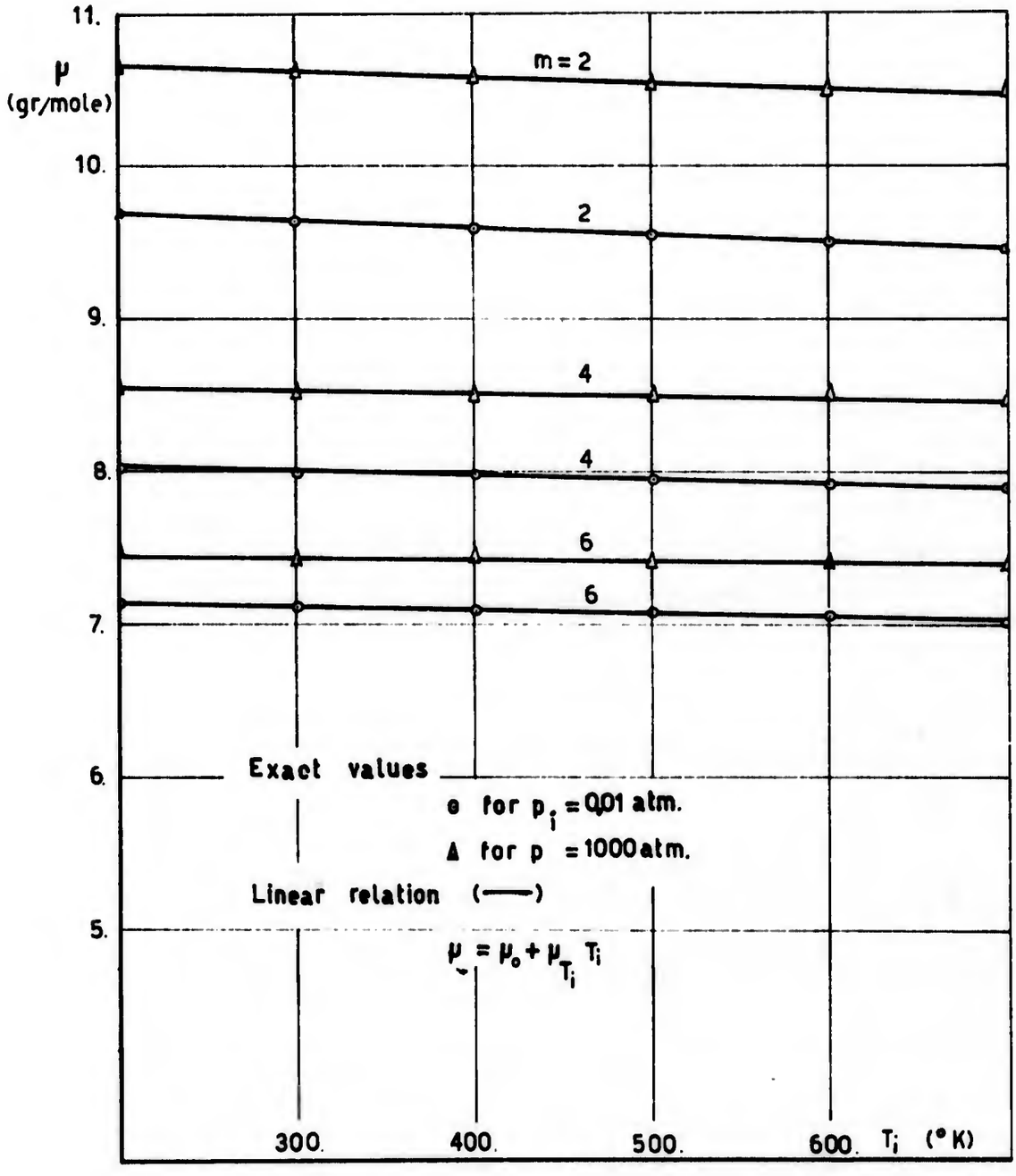

FIG. 35 INFLUENCE OF INITIAL TEMPERATURE ON MOLECULAR WEIGHT OF DETONATION PRODUCTS.
(HELIUM DILUTION).

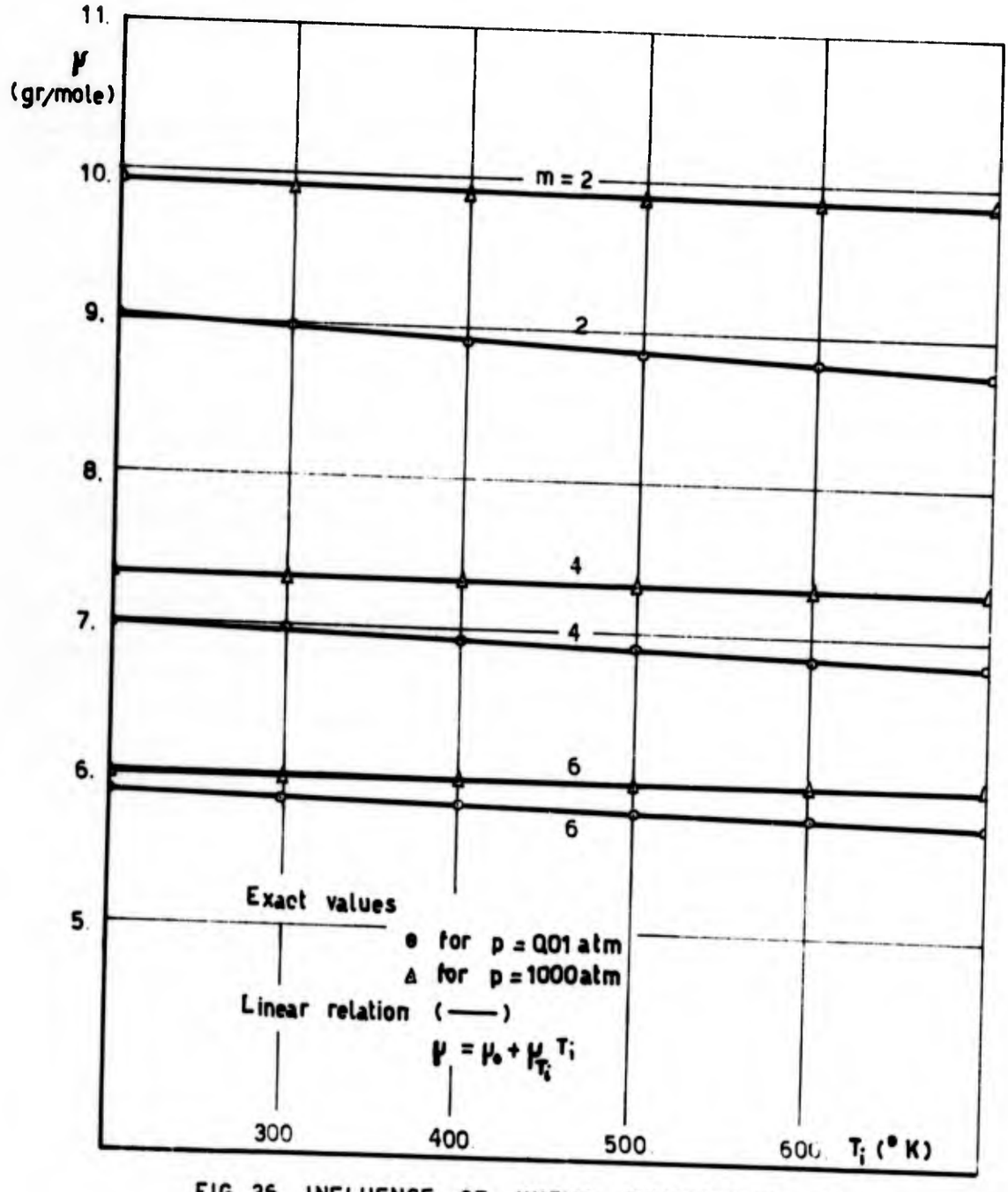

FIG 36 INFLUENCE OF INITIAL TEMPERATURE ON MOLECULAR WEIGHT OF DETONATION PRODUCTS.
(HYDROGEN DILUTION)

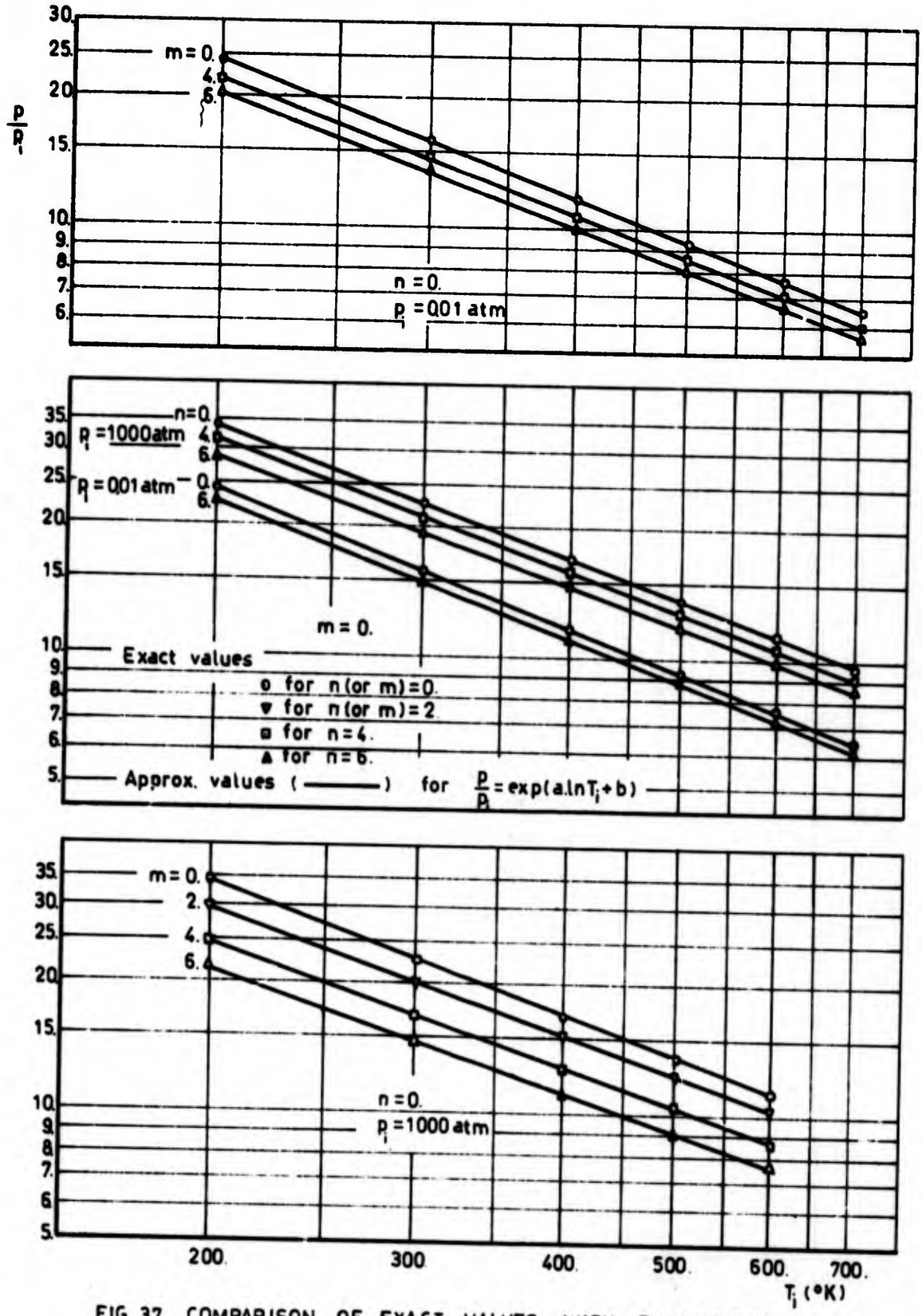

FIG 37 COMPARISON OF EXACT VALUES WITH EXPONENTIAL APPROXIMATION FOR FINAL-TO-INITIAL PRESSURE RATIO.

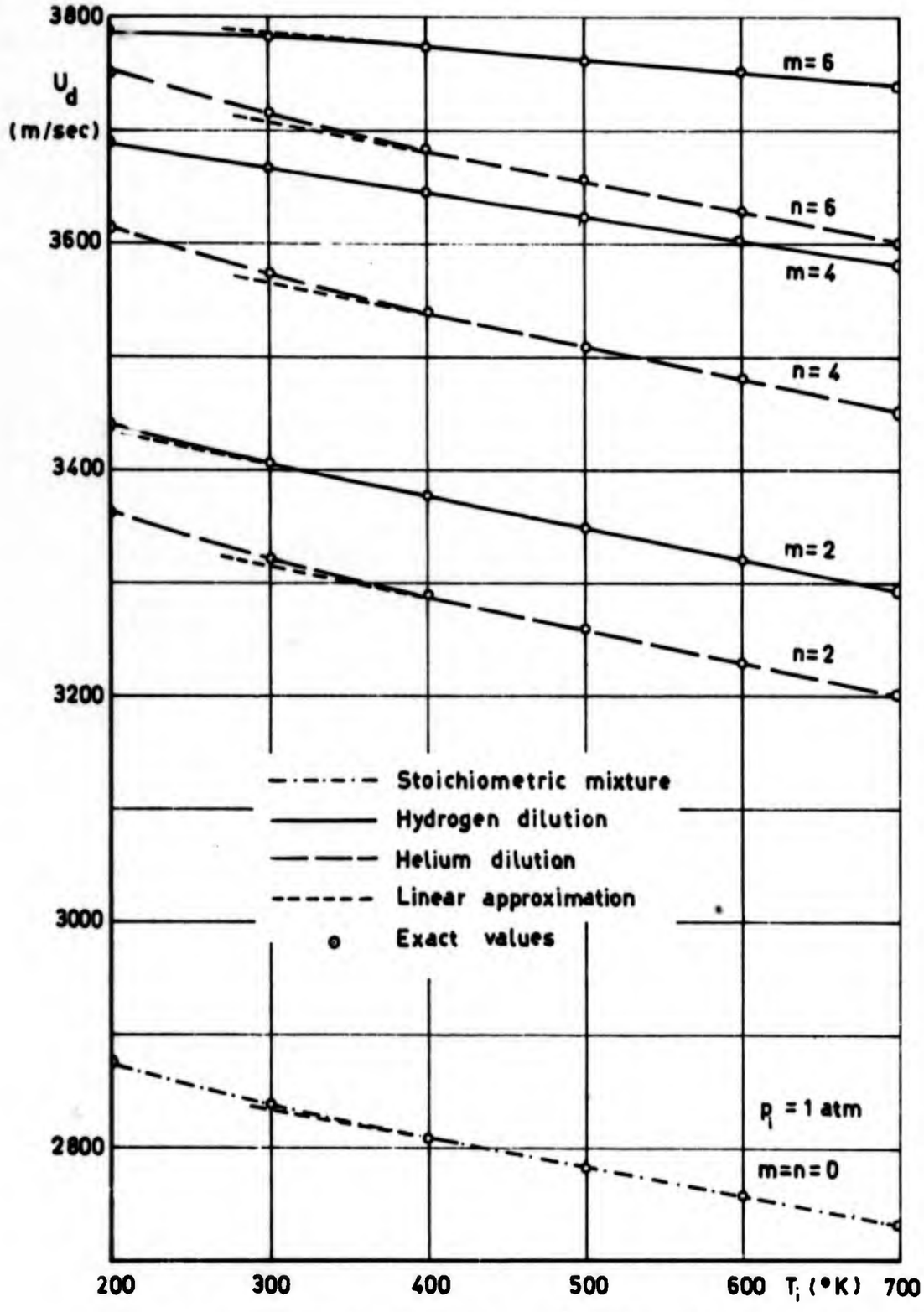

FIG. 38 INFLUENCE OF INITIAL TEMPERATURE ON DETONATION VELOCITY FOR SEVERAL DILUTIONS.

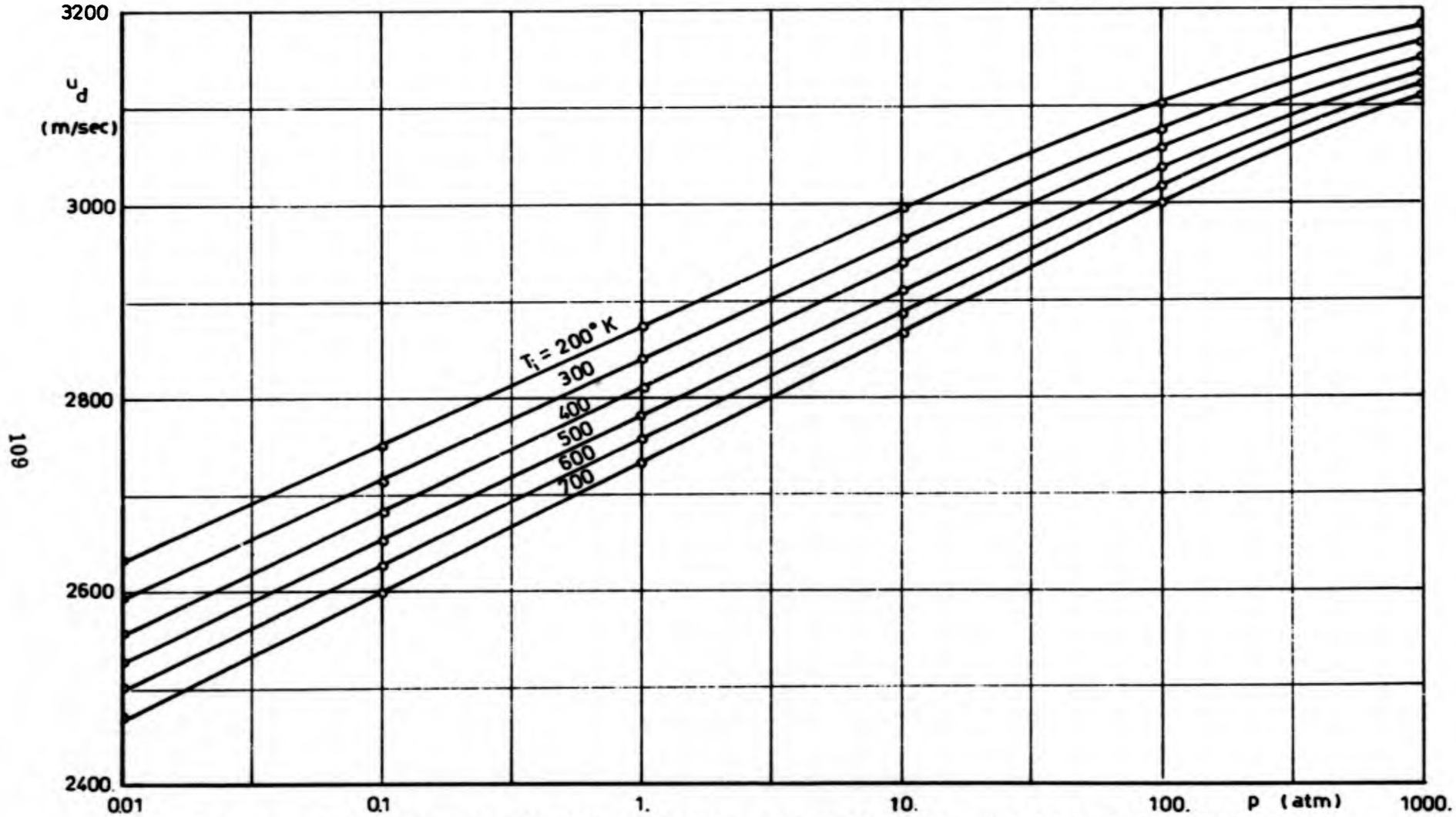

FIG. 39 INFLUENCE OF INITIAL PRESSURE ON DETONATION VELOCITY FOR SEVERAL INITIAL TEMPERATURES. (STOICHIOMETRIC MIXTURES).

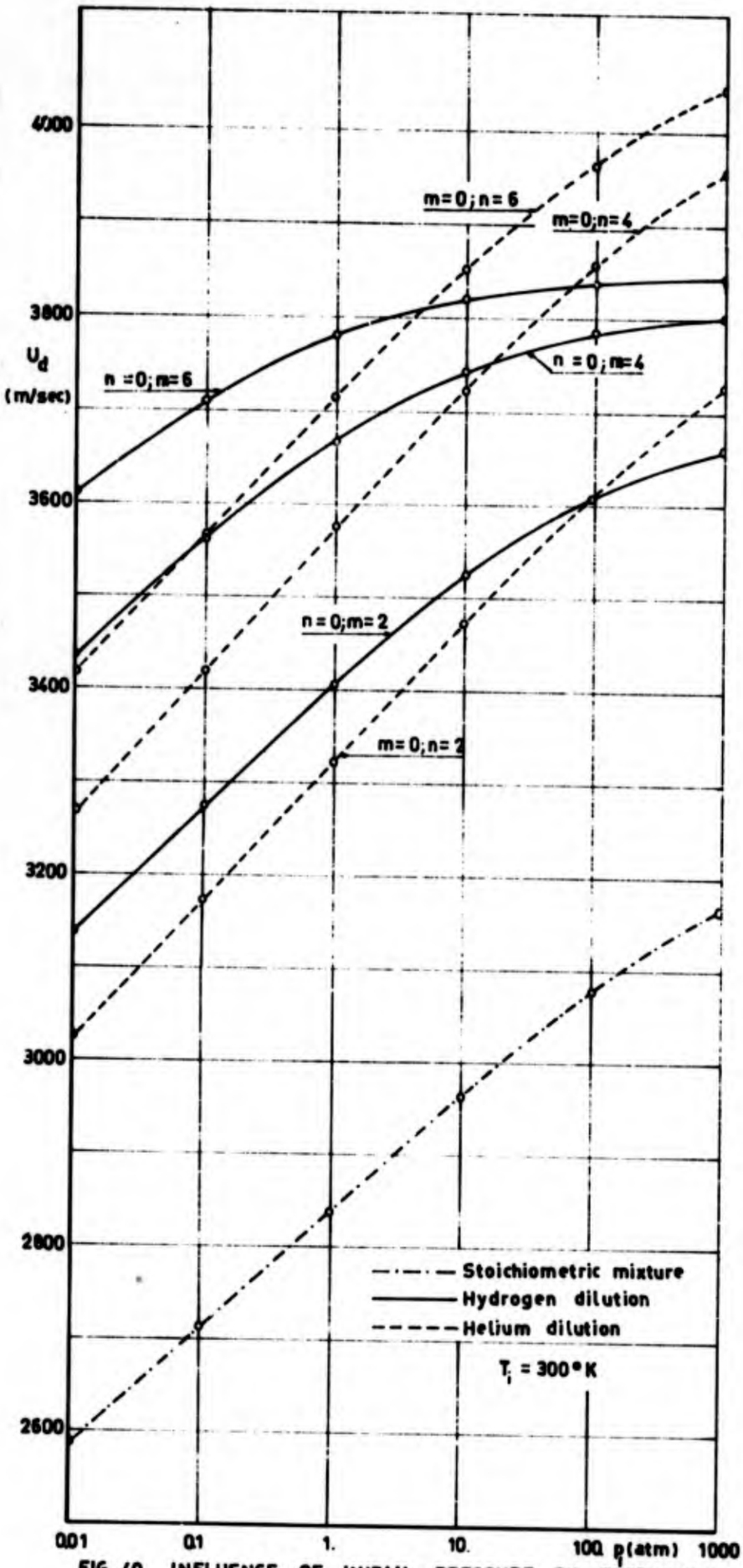

FIG. 40 INFLUENCE OF INITIAL PRESSURE ON DETONATION VELOCITY FOR SEVERAL DILUTIONS AT 300° K

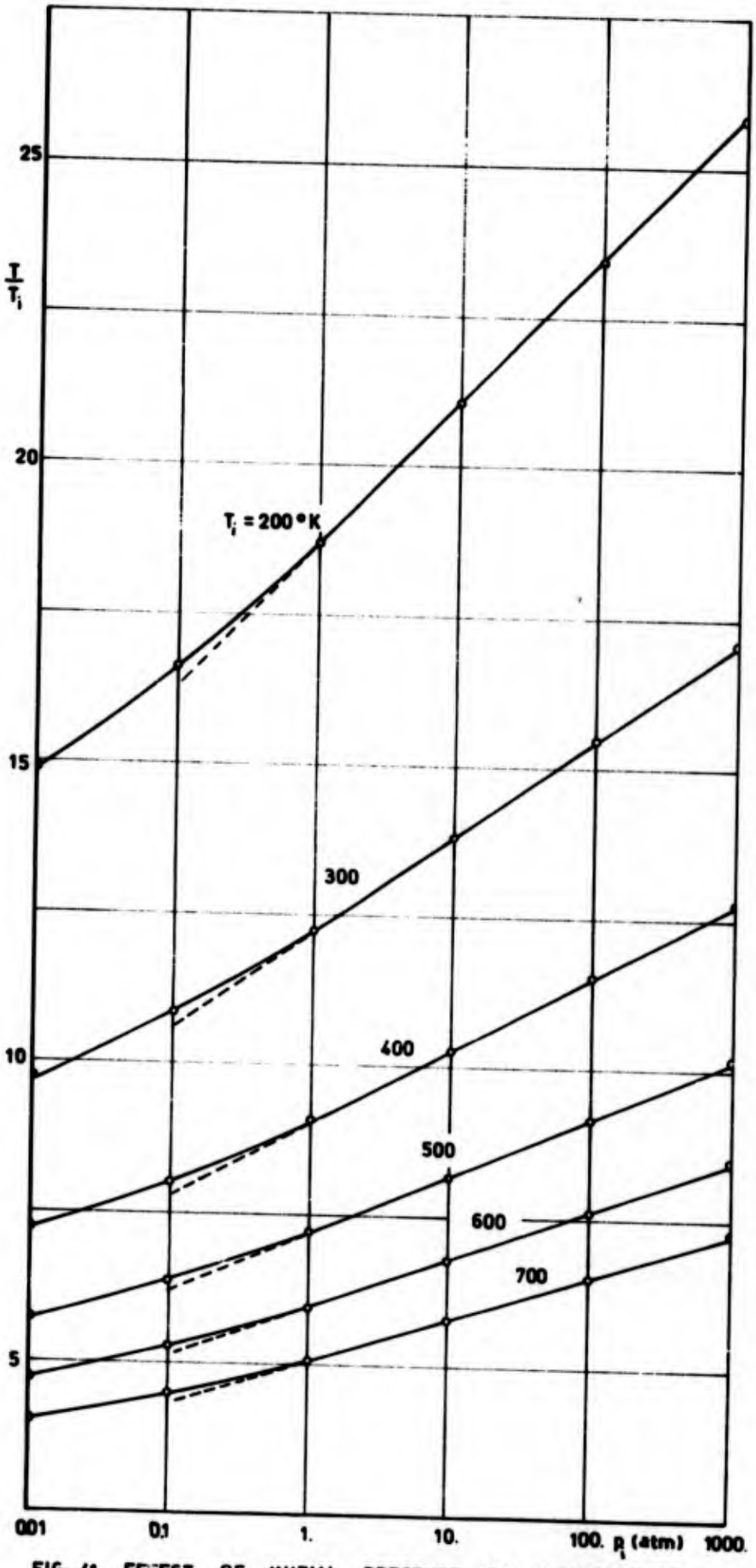

FIG. 41 EFFECT OF INITIAL PRESSURE ON TEMPERATURE RATIO ACROSS DETONATION FRONT. (STOICHIOMETRIC MIXTURE).

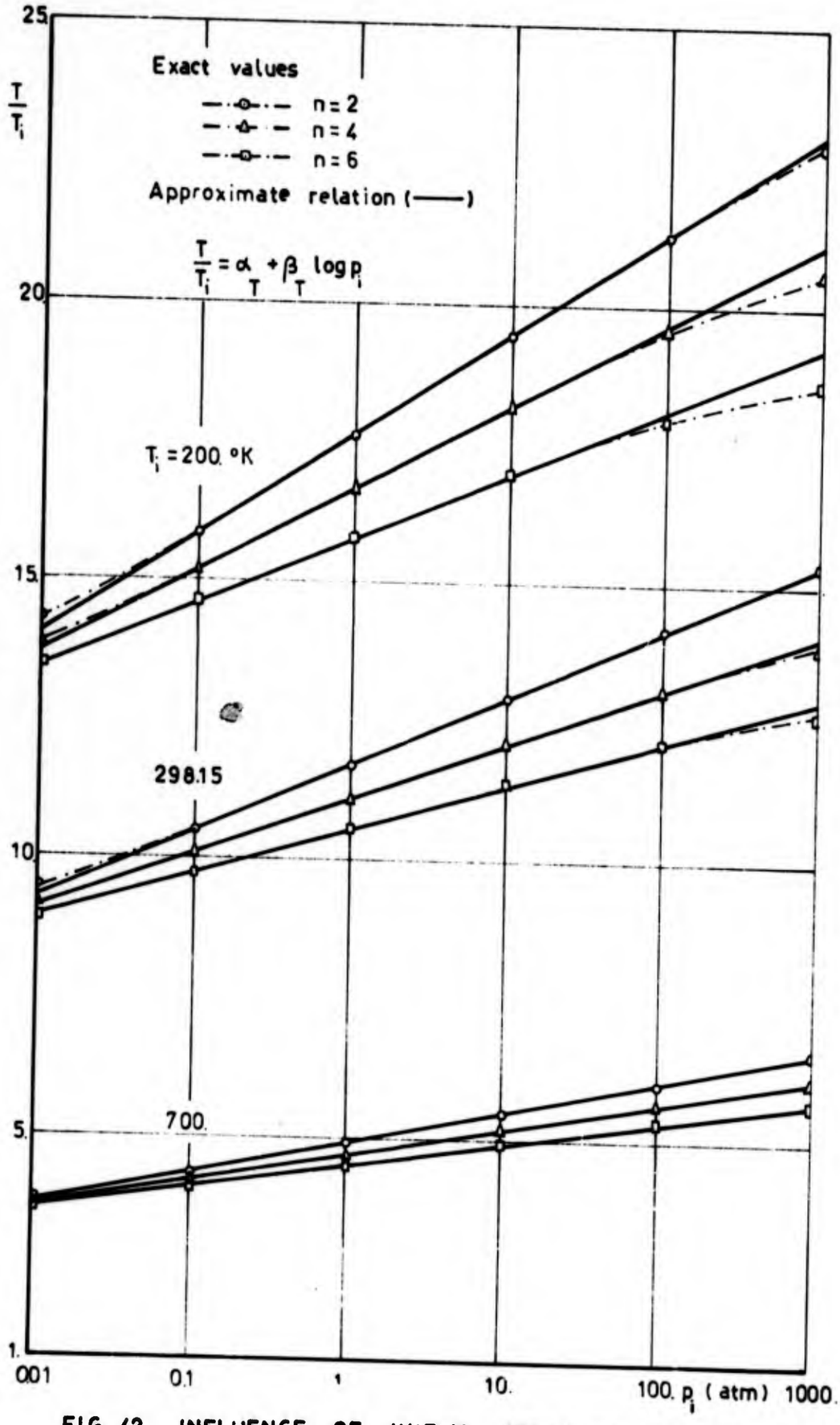

FIG. 42 INFLUENCE OF INITIAL PRESSURE ON TEMPERATURE RATIO ACROSS DETONATION FRONT.
(HELIUM DILUTION).

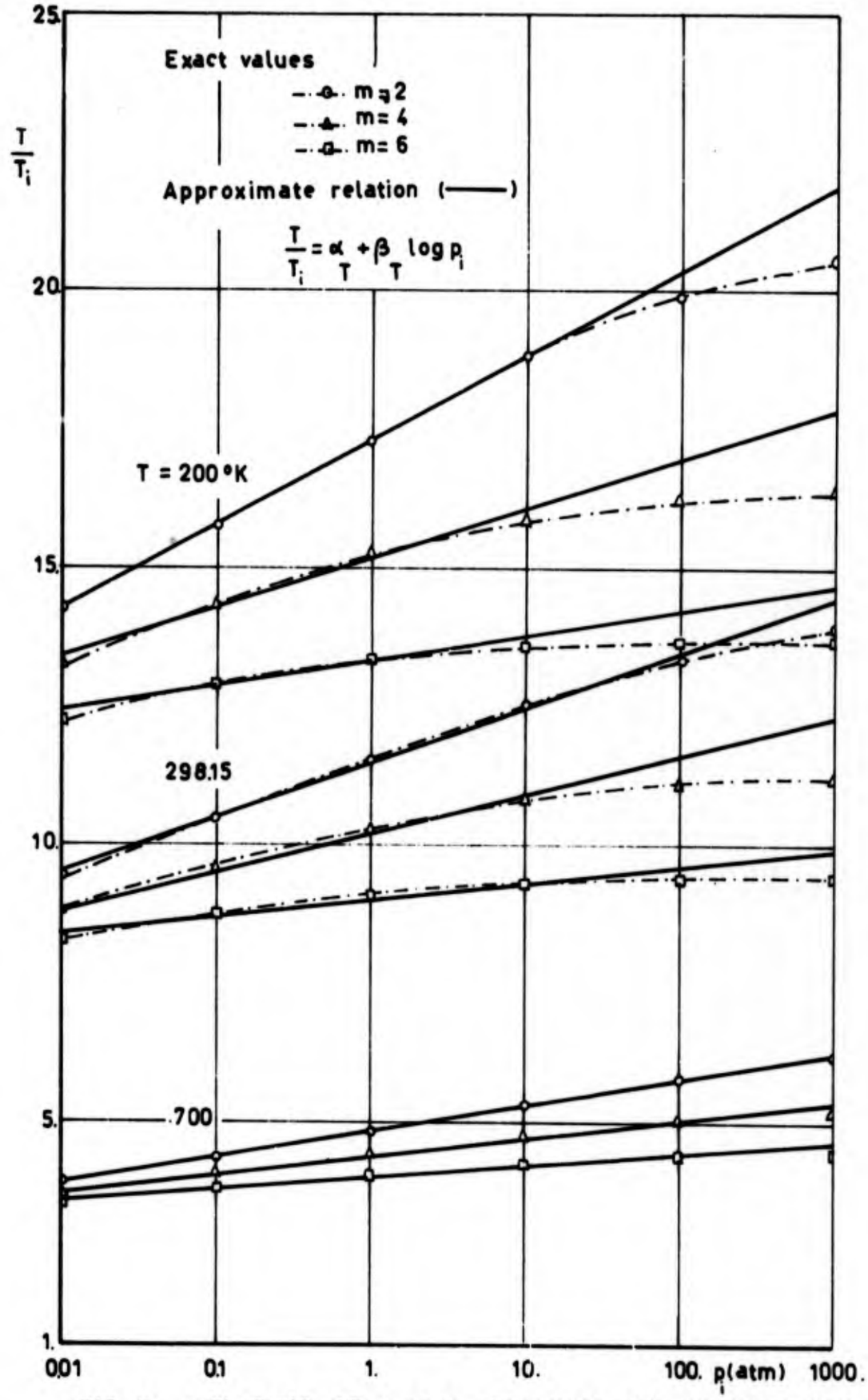

FIG. 43 INFLUENCE OF INITIAL PRESSURE ON TEMPERATURE RATIO ACROSS DETONATION FRONT. (HYDROGEN DILUTION).

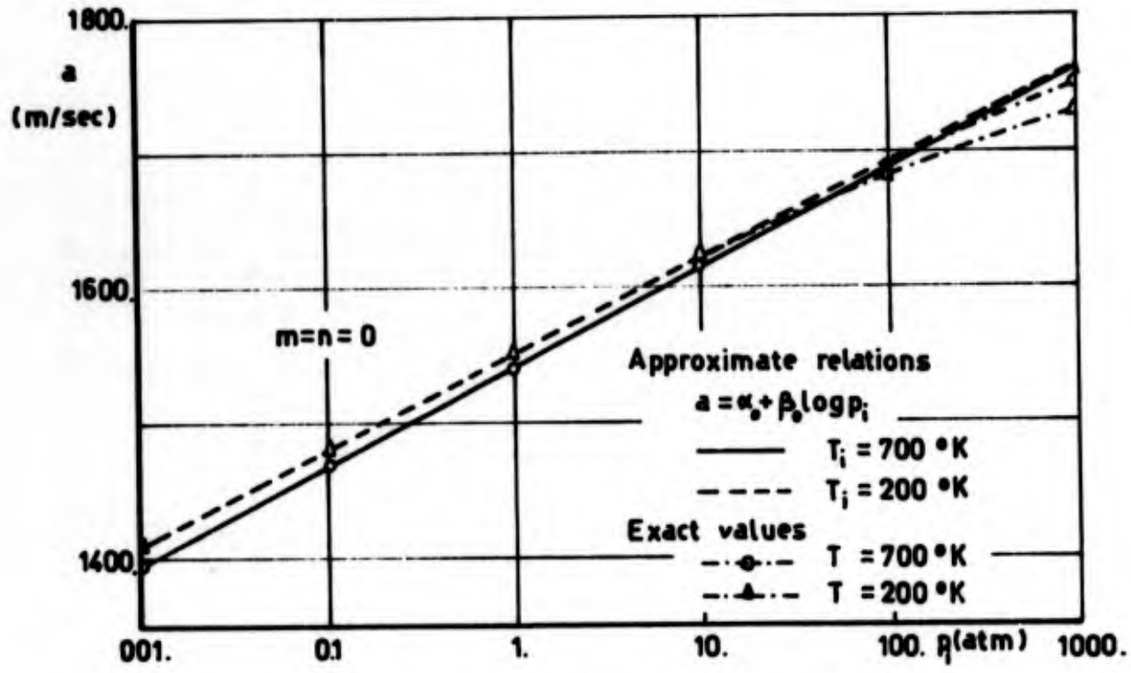

FIG. 44 INFLUENCE OF INITIAL PRESSURE ON SPEED OF SOUND IN DETONATION PRODUCTS. (STOICHIOMETRIC MIXTURE).

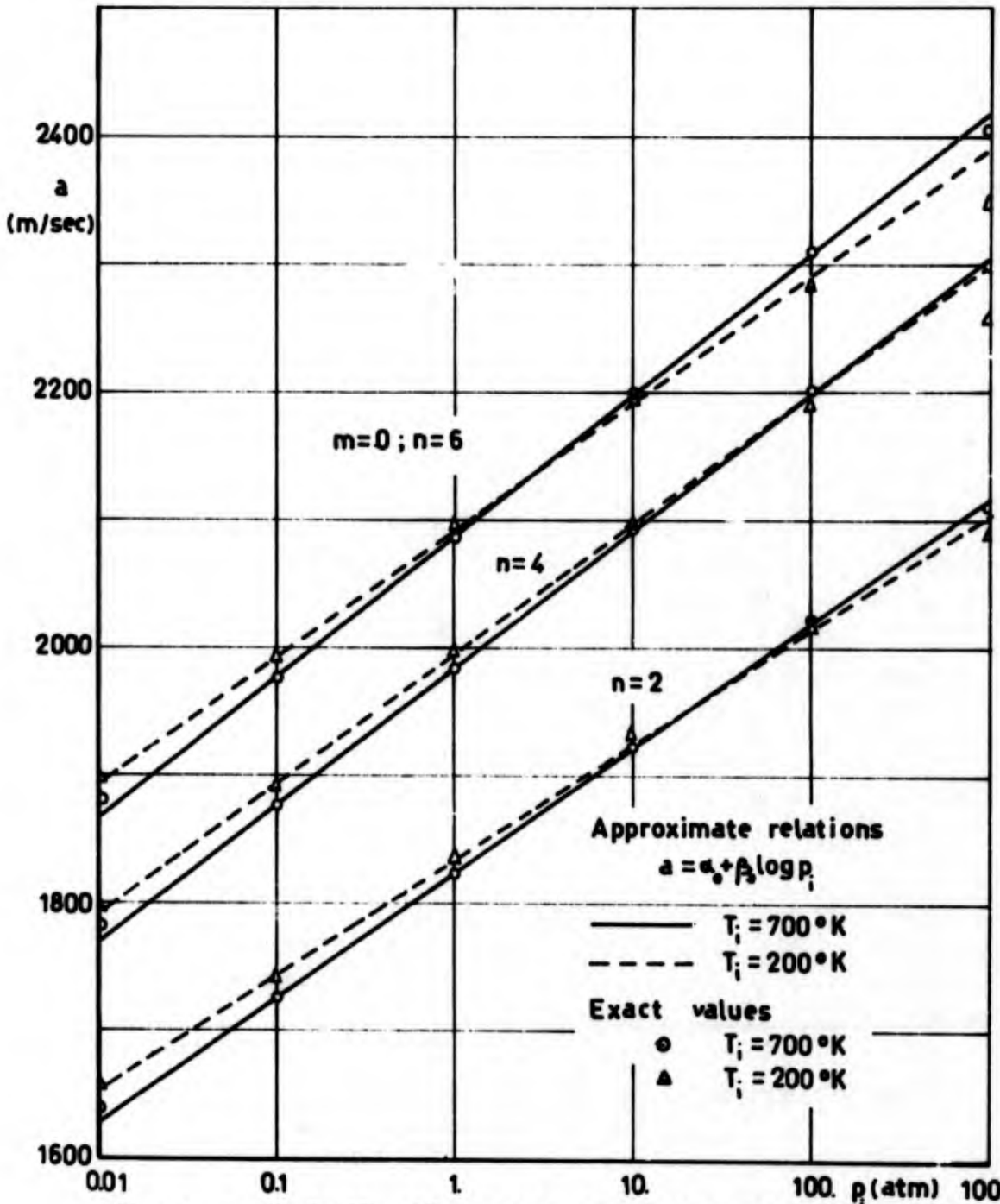

FIG. 45 INFLUENCE OF INITIAL PRESSURE ON SPEED OF SOUND IN DETONATION PRODUCTS. (HELIUM DILUTION).

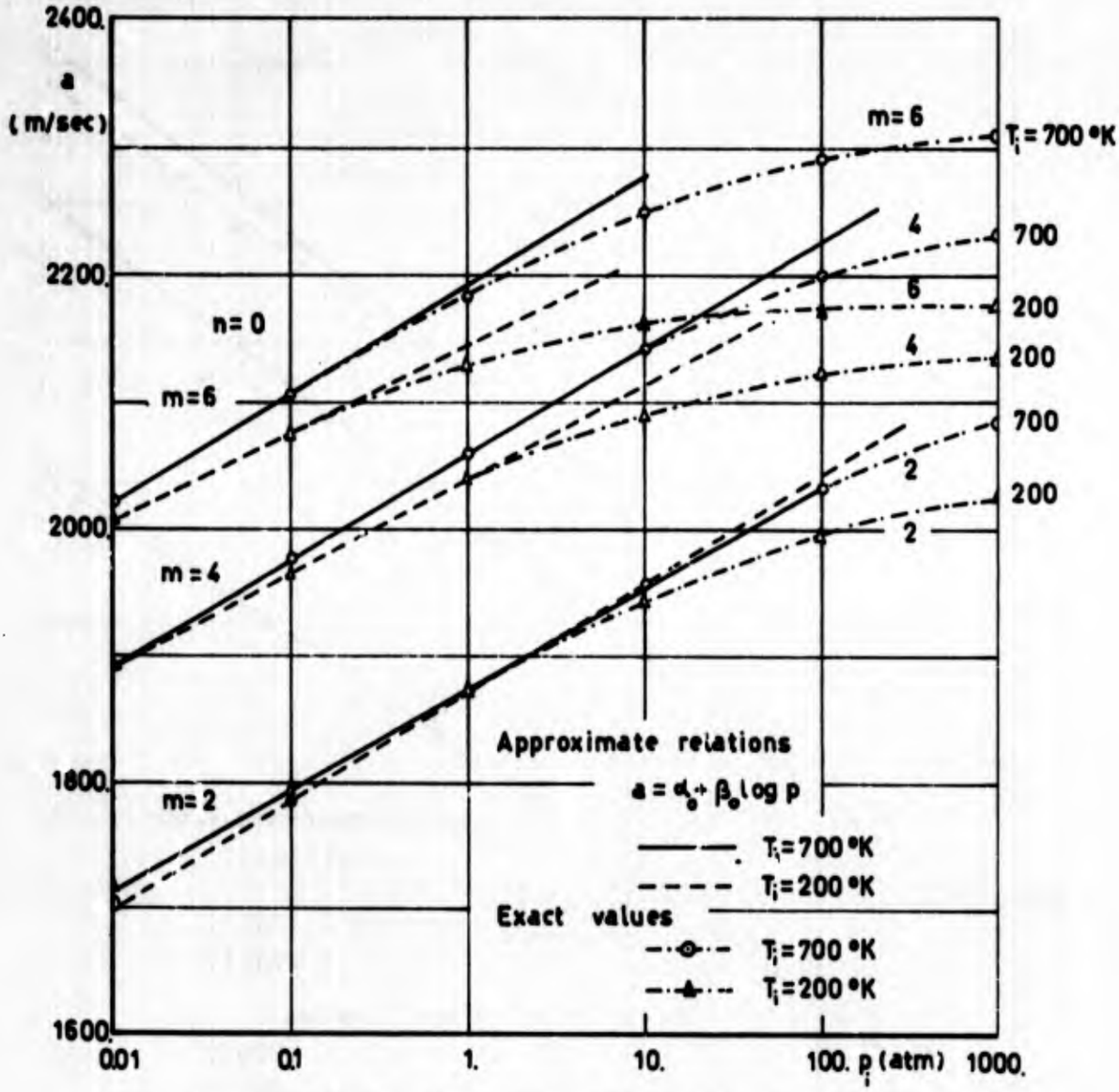

FIG. 46 INFLUENCE OF INITIAL PRESSURE ON SPEED OF SOUND IN DETONATION PRODUCTS. (HYDROGEN DILUTION).

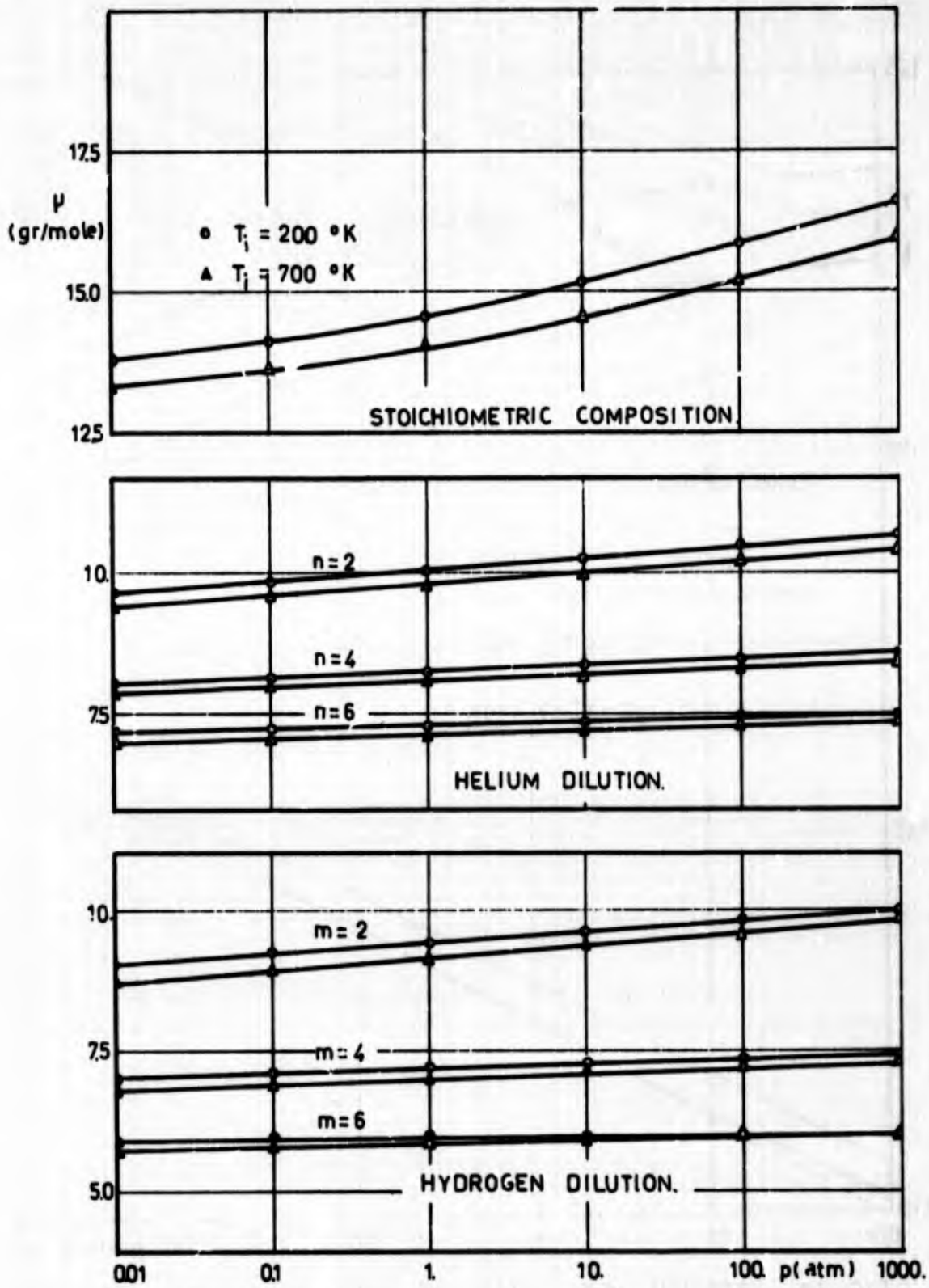

FIG. 47 INFLUENCE OF INITIAL PRESSURE ON AVERAGE MOLECULAR WEIGHT OF DETONATION PRODUCTS.

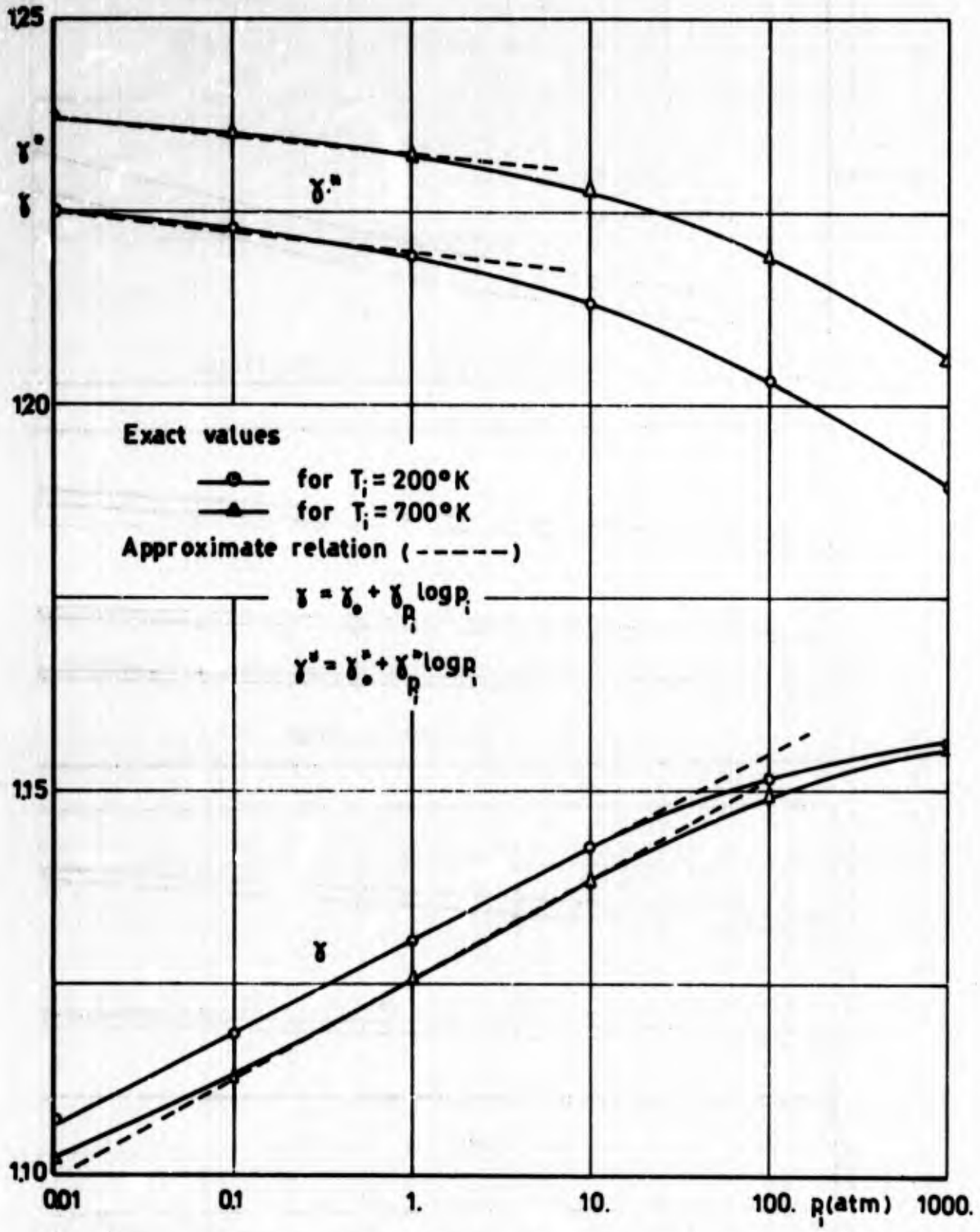

FIG. 48 SPECIFIC HEAT RATIO (γ°) AND ISENTROPIC EXPONENT VERSUS INITIAL PRESSURE. (p_i) (STOICHIOMETRIC MIXTURE).

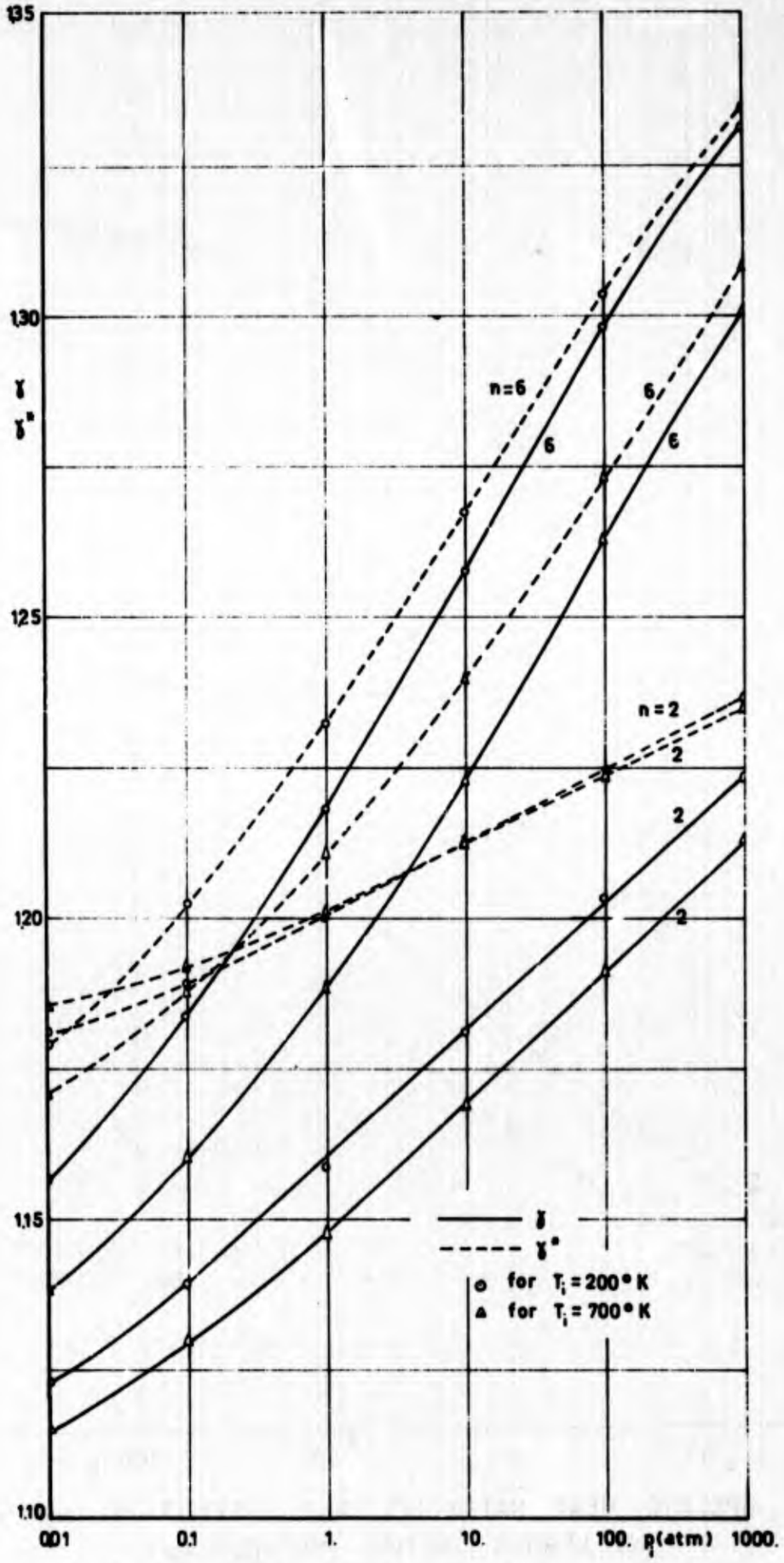

FIG. 49 EQUILIBRIUM SPECIFIC HEAT RATIO (γ^*) AND ISENTROPIC EXPONENT (γ) VERSUS INITIAL PRESSURE (p_i) (HELIUM DILUTION).

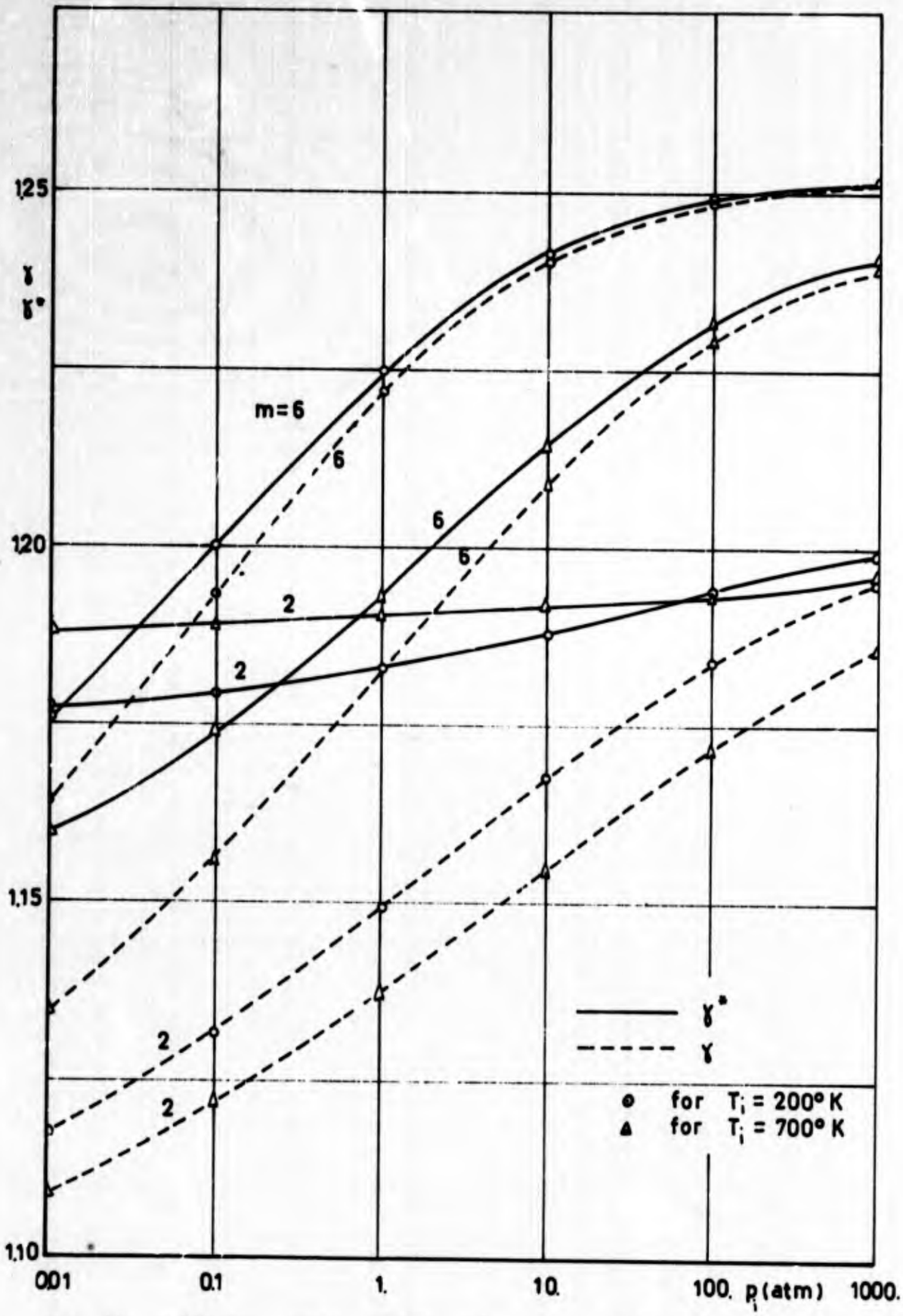

FIG. 50 SPECIFIC HEAT RATIO (γ^*) AND ISENTROPIC EXPONENT (γ) VERSUS INITIAL PRESSURE (p_i). (HYDROGEN DILUTION).

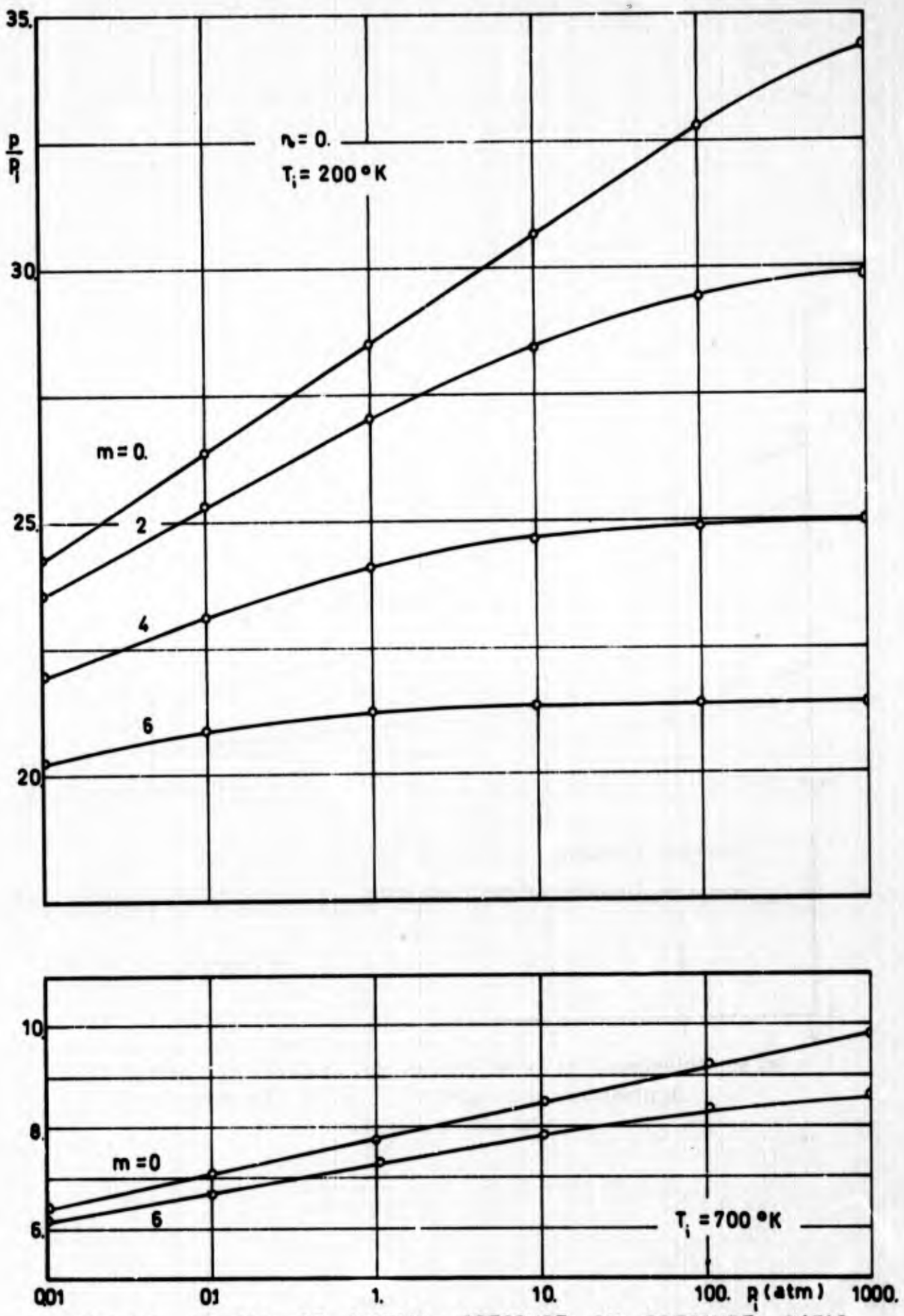

FIG. 51 EFFECT OF INITIAL PRESSURE ON PRESSURE RATIO ACROSS DETONATION FRONT.

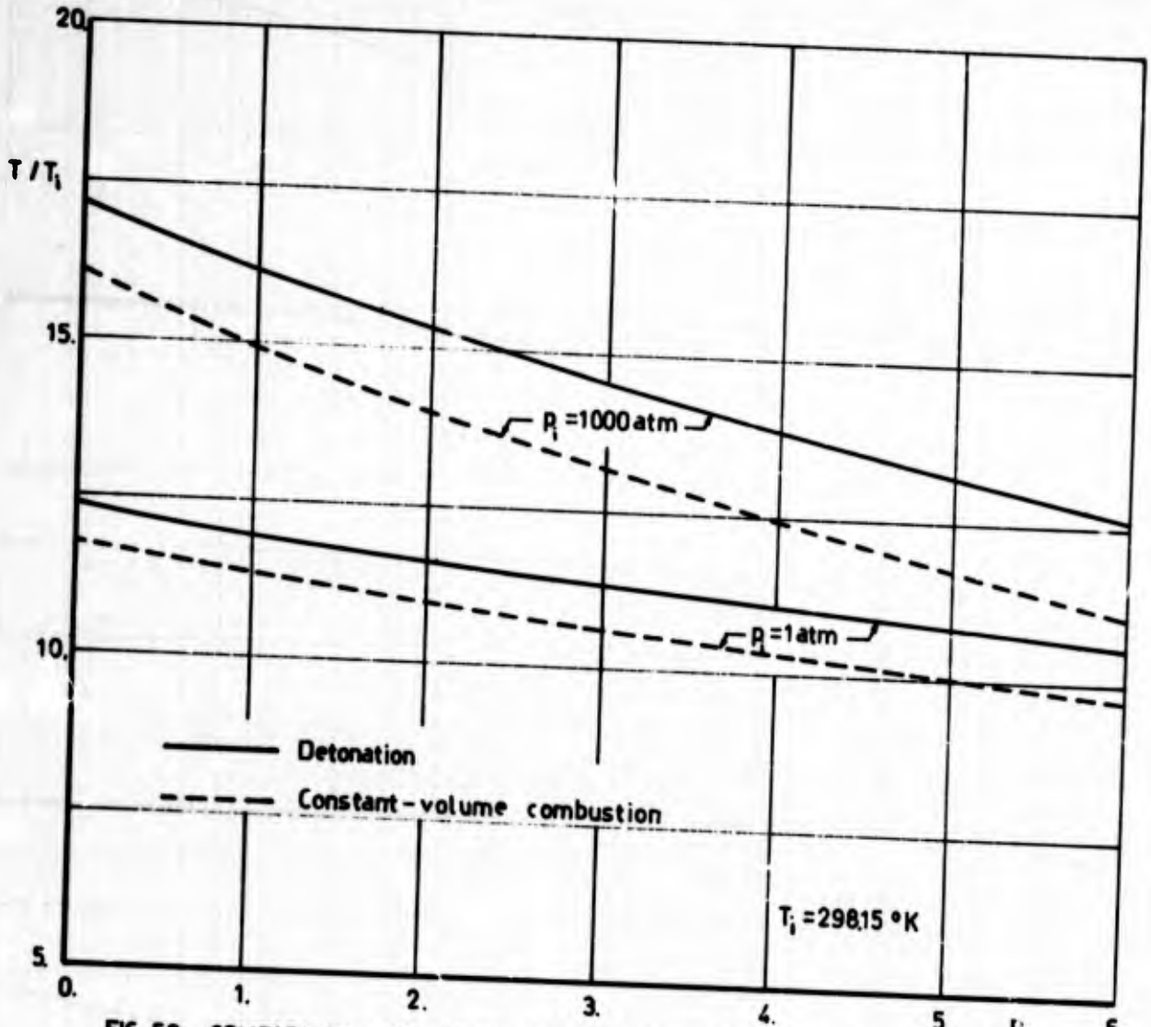

FIG. 52 COMPARISON OF FINAL-TO-INITIAL TEMPERATURE RATIOS FOR DETONATION AND CONSTANT-VOLUME COMBUSTION. (HELIUM DILUTION).

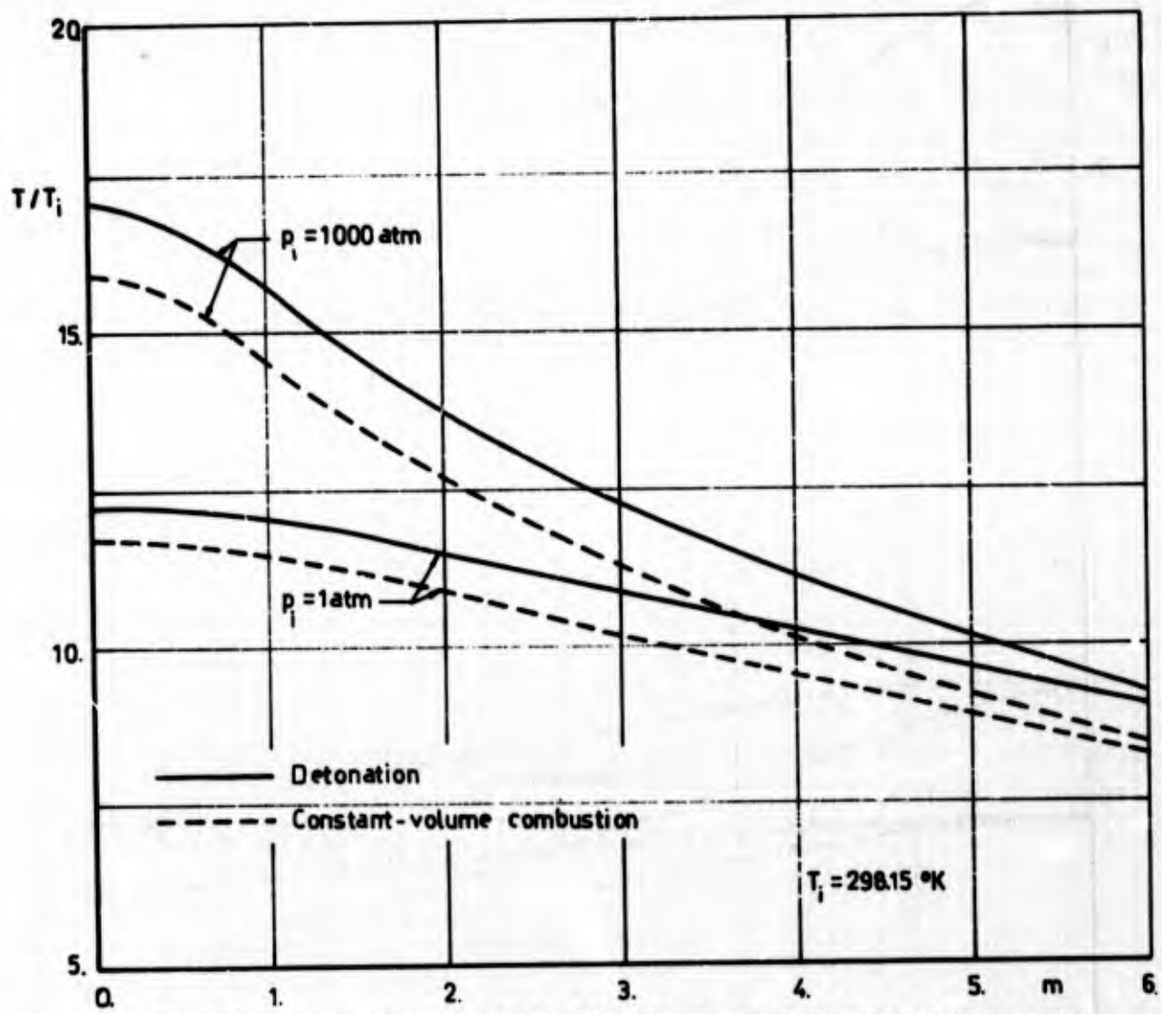

FIG. 53 COMPARISON OF FINAL-TO-INITAL TEMPERATURE RATIOS FOR DETONATION AND CONSTANT-VOLUME COMBUSTION.
(HYDROGEN DILUTION).

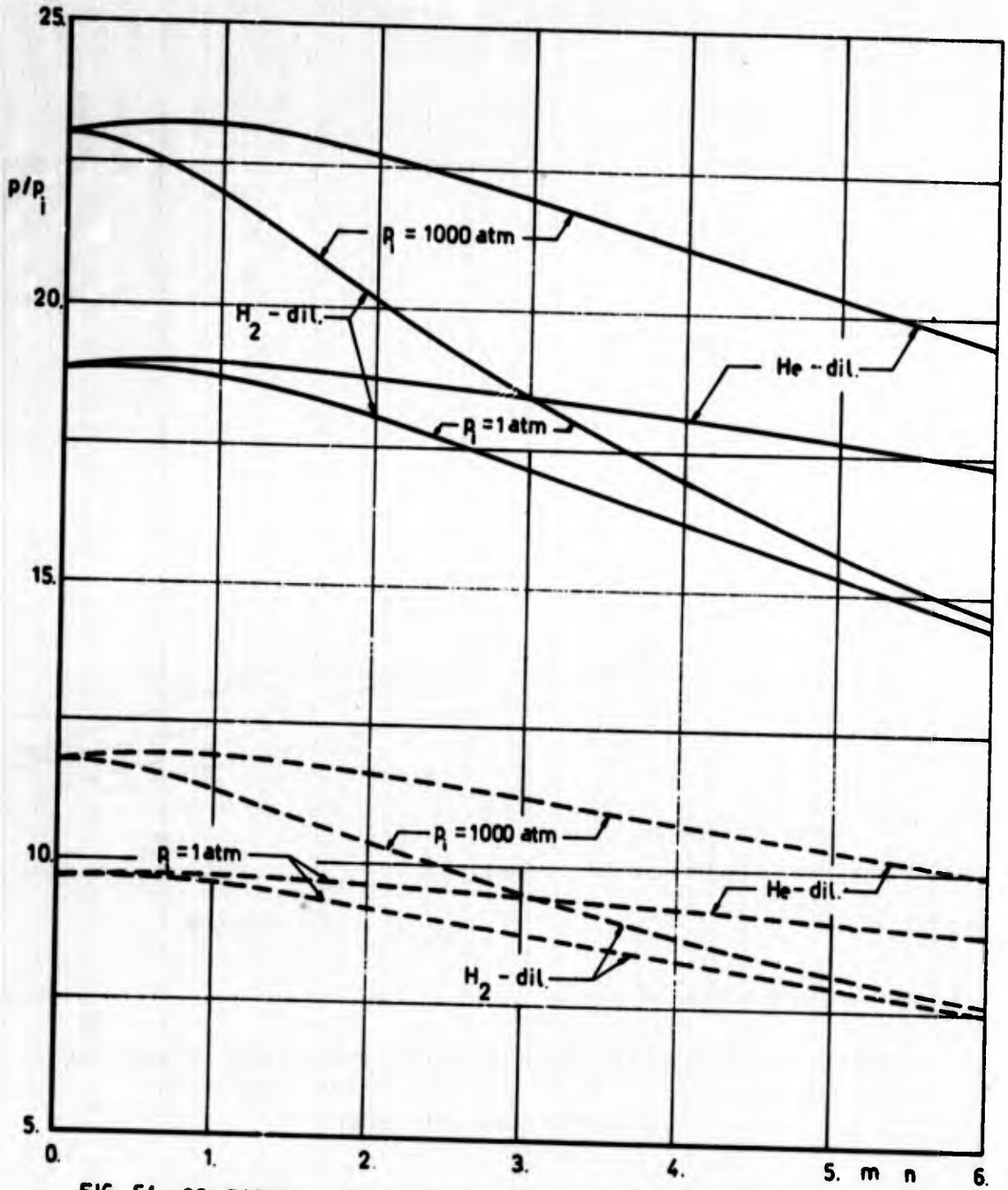

FIG 54 COMPARISON OF FINAL-TO-INITIAL PRESSURE RATIOS FOR DETONATION AND CONSTANT - VOLUME COMBUSTION.

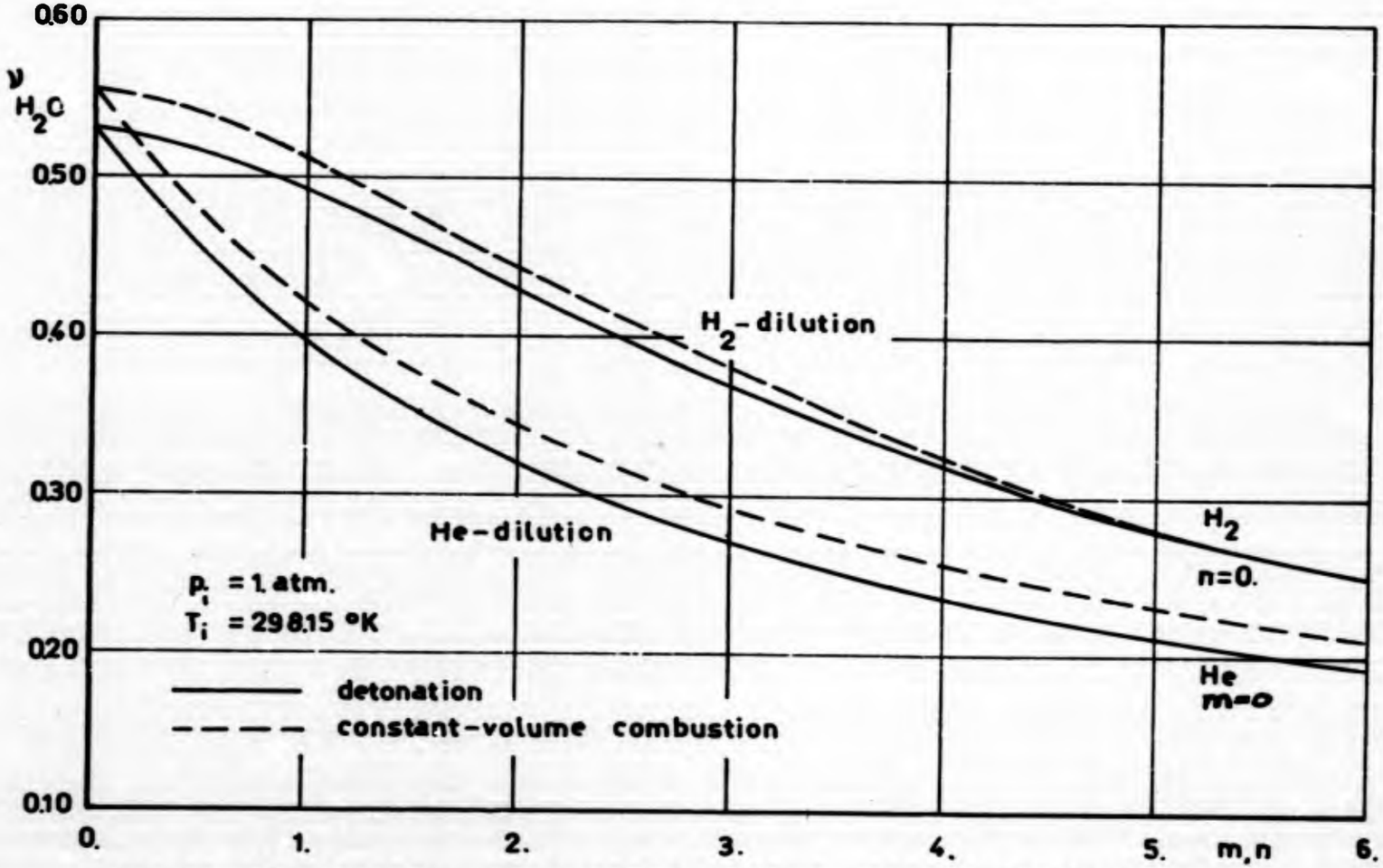

FIG. 55 COMPARISON OF WATER VAPOUR CONCENTRATION IN COMBUSTION PRODUCTS.

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	Aerospace Research Laboratories, (ARF) Wright-Patterson Air Force Base, Ohio.

13. ABSTRACT

The thermodynamic and composition data behind a Chapman-Jouguet detonation wave propagating into a mixture of stoichiometric oxygen-hydrogen diluted with helium and/or hydrogen are computed assuming thermodynamic equilibrium. Results are presented for hydrogen and helium dilutions respectively. The effects of initial conditions, namely dilution, pressure and temperature, are studied numerically and some approximate relations are provided for the purpose of practical interpolation. The study includes a comparison with the thermodynamic data of the final gaseous products of an equivalent constant volume combustion. The results are presented numerically and graphically for dilutions varying from 0 to 67 percent, initial pressures ranging from 0.01 to 1000 atmospheres and initial temperatures from 200 to 700 degrees Kelvin.

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14. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
Detonation Waves. Gaseous Thermodynamic Properties and Composition. Driver Gases for Shock Tubes, Shock Tunnels and Hypervelocity Launchers.						

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