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TABLES OF THERMODYNAMIC AND TRANSPORT PROPERTIES OF UO_2

by

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Chemical Engineering Division

June 1982

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ABSTRACT

The thermodynamic and transport properties of solid and liquid UO_2 are tabulated as a function of temperature. Properties are given for the temperature range 298.15 K to 3120 K for solid UO_2 and from 3120 to 6000 K for liquid UO_2 . Thermodynamic properties tabulated include enthalpy, heat capacity, pressure, density, instantaneous thermal expansion coefficient, compressibility, thermal pressure coefficient, and speed of sound. Tabulated transport properties include thermal conductivity, thermal diffusivity, emissivity, electrical conductivity, and viscosity. Tables are given in SI units and cgs units.

The thermodynamic and transport properties of solid and liquid UO_2 are tabulated as a function of temperature. A complete discussion of the equations used to represent these functions, the analysis of the experimental data on which the recommended equations are based, the uncertainty in calculated values, and graphs of the functions¹ are contained in the report "Properties for Reactor Safety Analysis".

These tabulated values of properties as functions of temperature have been closely spaced for convenience of the reactor safety analyst and experimenter who needs a quick reference for a property at a given temperature. The tables are arranged to give the thermodynamic and transport properties of solid and liquid UO_2 first in SI units and then again cgs units. The order of the tables within one system of units is thermodynamic properties of solid UO_2 , transport properties of solid UO_2 , thermodynamic properties of liquid UO_2 , and transport properties and speed of sound of liquid UO_2 . Certain properties are not tabulated for both the solid and liquid since there is no available data. For example, electrical conductivity is tabulated only for solid UO_2 ; speed of sound is tabulated only for liquid UO_2 . In some cases the temperature range at which properties are given is limited due to lack of experimental data and the absence of an appropriate theory to use in extrapolation. Such is the case for solid compressibility.

The computer programs that generated these tables are SOLUO2 and LIQUO2. Copies of these FORTRAN programs are available from the author.

Symbols used in the computer tabulated output are defined below along with the expression used to represent them in the report "Properties for Reactor Safety Analysis".

Symbols in Tabulated Output

<u>Symbol</u>	<u>Definition</u>
T	Temperature
H - H(298)	Enthalpy at temperature T relative to the enthalpy at 298.15 K
CP	Heat capacity at constant pressure (C_p)
CV	Heat capacity at constant volume (C_v)
DH	Heat of vaporization (ΔH_g)
P	Total Pressure above UO_2
DENSITY	Density (ρ)
ALPHAP	Instantaneous thermal expansion coefficient (α_p)
BETAS	Adiabatic compressibility (β_s)
BETAT	Isothermal compressibility (β_T)
GAMMAV	Thermal pressure coefficient $\left(\gamma_v = \frac{\alpha_p}{\beta_T}\right)$
DIFFUSIVITY	Thermal diffusivity (κ)
ELECCOND	Electrical Conductivity (χ)
EMISSION	Emissivity (ϵ)
VISCOSITY	Viscosity (η)
SPEED OF SOUND	Speed of sound (v)
298	298.15 K

REFERENCES

1. J. K. Fink, M. G. Chasanov, and L. Leibowitz, "Properties for Reactor Safety Analysis," Argonne National Laboratory Report ANL-CEN-RSD-82-2 (May 1982).

THERMODYNAMIC PROPERTIES OF SOLID UO_2
IN SI UNITS

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/MOL-K)	CV (J/MOL-K)	P (MPa)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMAV (PA/K)
298	0.0	6.3597D+01	6.2899D+01	0.0	1.0970D+04	2.1711D-05	4.8988D-12	4.9532D-12	4.3832D+06
300	1.1783D+02	6.3791D+01	6.3087D+01	0.0	1.0970D+04	2.1739D-05	4.8998D-12	4.9545D-12	4.3878D+06
310	7.6083D+02	6.4795D+01	6.4057D+01	0.0	1.0967D+04	2.1893D-05	4.9054D-12	4.9619D-12	4.4123D+06
320	1.4135D+03	6.5727D+01	6.4956D+01	0.0	1.0965D+04	2.2048D-05	4.9110D-12	4.9693D-12	4.4368D+06
330	2.0752D+03	6.6595D+01	6.5790D+01	0.0	1.0962D+04	2.2202D-05	4.9166D-12	4.9767D-12	4.4611D+06
340	2.7452D+03	6.7405D+01	6.6565D+01	0.0	1.0960D+04	2.2356D-05	4.9222D-12	4.9843D-12	4.4853D+06
350	3.4231D+03	6.8162D+01	6.7286D+01	0.0	1.0958D+04	2.2511D-05	4.9278D-12	4.9919D-12	4.5095D+06
360	4.1083D+03	6.8870D+01	6.7958D+01	0.0	1.0955D+04	2.2665D-05	4.9334D-12	4.9996D-12	4.5335D+06
370	4.8003D+03	6.9534D+01	6.8586D+01	0.0	1.0953D+04	2.2821D-05	4.9391D-12	5.0074D-12	4.5574D+06
380	5.4988D+03	7.0158D+01	6.9172D+01	0.0	1.0950D+04	2.2976D-05	4.9447D-12	5.0152D-12	4.5812D+06
390	6.2034D+03	7.0746D+01	6.9721D+01	0.0	1.0948D+04	2.3131D-05	4.9504D-12	5.0231D-12	4.6049D+06
400	6.9136D+03	7.1299D+01	7.0236D+01	0.0	1.0945D+04	2.3287D-05	4.9561D-12	5.0311D-12	4.6285D+06
410	7.6293D+03	7.1822D+01	7.0719D+01	0.0	1.0943D+04	2.3442D-05	4.9618D-12	5.0392D-12	4.6520D+06
420	8.3500D+03	7.2316D+01	7.1173D+01	0.0	1.0940D+04	2.3598D-05	4.9675D-12	5.0473D-12	4.6754D+06
430	9.0755D+03	7.2785D+01	7.1600D+01	0.0	1.0938D+04	2.3754D-05	4.9732D-12	5.0555D-12	4.6987D+06
440	9.8056D+03	7.3229D+01	7.2003D+01	0.0	1.0935D+04	2.3910D-05	4.9789D-12	5.0637D-12	4.7218D+06
450	1.0540D+04	7.3652D+01	7.2382D+01	0.0	1.0933D+04	2.4066D-05	4.9847D-12	5.0721D-12	4.7449D+06
460	1.1279D+04	7.4053D+01	7.2741D+01	0.0	1.0930D+04	2.4223D-05	4.9904D-12	5.0805D-12	4.7679D+06
470	1.2021D+04	7.4437D+01	7.3080D+01	0.0	1.0927D+04	2.4380D-05	4.9962D-12	5.0889D-12	4.7907D+06
480	1.2767D+04	7.4802D+01	7.3401D+01	0.0	1.0925D+04	2.4536D-05	5.0020D-12	5.0975D-12	4.8135D+06
490	1.3517D+04	7.5151D+01	7.3705D+01	0.0	1.0922D+04	2.4693D-05	5.0078D-12	5.1061D-12	4.8361D+06
500	1.4270D+04	7.5486D+01	7.3993D+01	1.6059D-55	1.0919D+04	2.4851D-05	5.0136D-12	5.1147D-12	4.8586D+06
510	1.5027D+04	7.5806D+01	7.4266D+01	2.7073D-54	1.0917D+04	2.5008D-05	5.0194D-12	5.1235D-12	4.8810D+06
520	1.5786D+04	7.6114D+01	7.4526D+01	4.0943D-53	1.0914D+04	2.5165D-05	5.0253D-12	5.1323D-12	4.9033D+06
530	1.6549D+04	7.6409D+01	7.4773D+01	5.5886D-52	1.0911D+04	2.5323D-05	5.0311D-12	5.1412D-12	4.9255D+06
540	1.7314D+04	7.6693D+01	7.5008D+01	6.9244D-51	1.0908D+04	2.5481D-05	5.0370D-12	5.1501D-12	4.9476D+06

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/MOL-K)	CV (J/MOL-K)	P (MPa)	DENSITY (KG/M**3)	ALPHA P (1/K)	BETA S (1/PA)	BETA T (1/PA)	GAMMA V (PA/K)
550	1.8083D+04	7.6966D+01	7.5231D+01	7.8292D-50	1.0906D+04	2.5639D-05	5.0429D-12	5.1592D-12	4.9696D+06
560	1.8854D+04	7.7230D+01	7.5444D+01	8.1177D-49	1.0903D+04	2.5797D-05	5.0488D-12	5.1683D-12	4.9914D+06
570	1.9627D+04	7.7485D+01	7.5647D+01	7.7536D-48	1.0900D+04	2.5955D-05	5.0547D-12	5.1774D-12	5.0131D+06
580	2.0403D+04	7.7731D+01	7.5841D+01	6.8515D-47	1.0897D+04	2.6114D-05	5.0606D-12	5.1867D-12	5.0348D+06
590	2.1182D+04	7.7968D+01	7.6026D+01	5.6233D-46	1.0894D+04	2.6272D-05	5.0665D-12	5.1960D-12	5.0563D+06
600	2.1963D+04	7.8199D+01	7.6202D+01	4.3025D-45	1.0892D+04	2.6431D-05	5.0725D-12	5.2054D-12	5.0777D+06
610	2.2746D+04	7.8422D+01	7.6371D+01	3.0794D-44	1.0889D+04	2.6590D-05	5.0784D-12	5.2148D-12	5.0989D+06
620	2.3531D+04	7.8638D+01	7.6532D+01	2.0685D-43	1.0886D+04	2.6749D-05	5.0844D-12	5.2243D-12	5.1201D+06
630	2.4319D+04	7.8848D+01	7.6686D+01	1.3079D-42	1.0883D+04	2.6908D-05	5.0904D-12	5.2339D-12	5.1411D+06
640	2.5108D+04	7.9052D+01	7.6833D+01	7.8067D-42	1.0880D+04	2.7068D-05	5.0964D-12	5.2436D-12	5.1621D+06
650	2.5900D+04	7.9251D+01	7.6974D+01	4.4105D-41	1.0877D+04	2.7227D-05	5.1024D-12	5.2534D-12	5.1829D+06
660	2.6693D+04	7.9445D+01	7.7109D+01	2.3644D-40	1.0874D+04	2.7387D-05	5.1085D-12	5.2632D-12	5.2035D+06
670	2.7488D+04	7.9633D+01	7.7238D+01	1.2055D-39	1.0871D+04	2.7547D-05	5.1145D-12	5.2731D-12	5.2241D+06
680	2.8286D+04	7.9817D+01	7.7362D+01	5.8591D-39	1.0868D+04	2.7707D-05	5.1206D-12	5.2831D-12	5.2445D+06
690	2.9085D+04	7.9996D+01	7.7480D+01	2.7201D-38	1.0865D+04	2.7867D-05	5.1267D-12	5.2931D-12	5.2648D+06
700	2.9886D+04	8.0171D+01	7.7593D+01	1.2086D-37	1.0862D+04	2.8028D-05	5.1327D-12	5.3033D-12	5.2850D+06
710	3.0688D+04	8.0342D+01	7.7702D+01	5.1493D-37	1.0859D+04	2.8188D-05	5.1389D-12	5.3135D-12	5.3051D+06
720	3.1492D+04	8.0510D+01	7.7806D+01	2.1073D-36	1.0856D+04	2.8349D-05	5.1450D-12	5.3238D-12	5.3250D+06
730	3.2298D+04	8.0674D+01	7.7906D+01	8.2970D-36	1.0853D+04	2.8510D-05	5.1511D-12	5.3341D-12	5.3449D+06
740	3.3106D+04	8.0834D+01	7.8001D+01	3.1480D-35	1.0850D+04	2.8671D-05	5.1573D-12	5.3446D-12	5.3645D+06
750	3.3915D+04	8.0991D+01	7.8093D+01	1.1527D-34	1.0847D+04	2.8832D-05	5.1634D-12	5.3551D-12	5.3841D+06
760	3.4726D+04	8.1146D+01	7.8181D+01	4.0790D-34	1.0844D+04	2.8994D-05	5.1696D-12	5.3657D-12	5.4035D+06
770	3.5538D+04	8.1297D+01	7.8265D+01	1.3968D-33	1.0840D+04	2.9155D-05	5.1758D-12	5.3763D-12	5.4229D+06
780	3.6352D+04	8.1446D+01	7.8345D+01	4.6347D-33	1.0837D+04	2.9317D-05	5.1820D-12	5.3871D-12	5.4420D+06
790	3.7167D+04	8.1592D+01	7.8422D+01	1.4918D-32	1.0834D+04	2.9479D-05	5.1882D-12	5.3979D-12	5.4611D+06
800	3.7984D+04	8.1735D+01	7.8495D+01	4.6635D-32	1.0831D+04	2.9641D-05	5.1945D-12	5.4089D-12	5.4800D+06

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H(298) (J/MOL)	CP (J/MOL-K)	CV (J/MOL-K)	P (MPa)	DENSITY (KG/M**3)	ALPHA P (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMA V (PA/K)
810	3.8802D+04	8.1876D+01	7.8566D+01	1.4174D-31	1.0828D+04	2.9803D-05	5.2007D-12	5.4199D-12	5.4988D+06
820	3.9621D+04	8.2015D+01	7.8633D+01	4.1927D-31	1.0824D+04	2.9965D-05	5.2070D-12	5.4310D-12	5.5175D+06
830	4.0442D+04	8.2152D+01	7.8697D+01	1.2082D-30	1.0821D+04	3.0128D-05	5.2133D-12	5.4421D-12	5.5360D+06
840	4.1264D+04	8.2286D+01	7.8759D+01	3.3952D-30	1.0818D+04	3.0290D-05	5.2196D-12	5.4534D-12	5.5544D+06
850	4.2088D+04	8.2419D+01	7.8817D+01	9.3113D-30	1.0815D+04	3.0453D-05	5.2259D-12	5.4647D-12	5.5726D+06
860	4.2912D+04	8.2550D+01	7.8873D+01	2.4944D-29	1.0811D+04	3.0616D-05	5.2322D-12	5.4761D-12	5.5908D+06
870	4.3739D+04	8.2679D+01	7.8927D+01	6.5327D-29	1.0808D+04	3.0779D-05	5.2386D-12	5.4876D-12	5.6088D+06
880	4.4566D+04	8.2806D+01	7.8977D+01	1.6739D-28	1.0805D+04	3.0942D-05	5.2449D-12	5.4992D-12	5.6266D+06
890	4.5395D+04	8.2932D+01	7.9025D+01	4.1991D-28	1.0801D+04	3.1105D-05	5.2513D-12	5.5109D-12	5.6443D+06
900	4.6225D+04	8.3056D+01	7.9071D+01	1.0321D-27	1.0798D+04	3.1269D-05	5.2577D-12	5.5227D-12	5.6619D+06
910	4.7056D+04	8.3178D+01	7.9115D+01	2.4871D-27	1.0794D+04	3.1433D-05	5.2641D-12	5.5345D-12	5.6794D+06
920	4.7888D+04	8.3300D+01	7.9156D+01	5.8799D-27	1.0791D+04	3.1596D-05	5.2705D-12	5.5465D-12	5.6967D+06
930	4.8722D+04	8.3419D+01	7.9195D+01	1.3646D-26	1.0788D+04	3.1760D-05	5.2770D-12	5.5585D-12	5.7139D+06
940	4.9557D+04	8.3538D+01	7.9232D+01	3.1108D-26	1.0784D+04	3.1925D-05	5.2834D-12	5.5706D-12	5.7309D+06
950	5.0393D+04	8.3655D+01	7.9266D+01	6.9693D-26	1.0781D+04	3.2089D-05	5.2899D-12	5.5828D-12	5.7478D+06
960	5.1230D+04	8.3771D+01	7.9299D+01	1.5354D-25	1.0777D+04	3.2253D-05	5.2964D-12	5.5951D-12	5.7646D+06
970	5.2068D+04	8.3886D+01	7.9329D+01	3.3279D-25	1.0774D+04	3.2418D-05	5.3029D-12	5.6075D-12	5.7812D+06
980	5.2907D+04	8.3999D+01	7.9358D+01	7.1002D-25	1.0770D+04	3.2583D-05	5.3094D-12	5.6199D-12	5.7977D+06
990	5.3748D+04	8.4112D+01	7.9385D+01	1.4918D-24	1.0767D+04	3.2748D-05	5.3160D-12	5.6325D-12	5.8140D+06
1000	5.4590D+04	8.4224D+01	7.9410D+01	3.0883D-24	1.0763D+04	3.2913D-05	5.3225D-12	5.6452D-12	5.8302D+06
1010	5.5432D+04	8.4334D+01	7.9432D+01	6.3017D-24	1.0760D+04	3.3078D-05	5.3291D-12	5.6579D-12	5.8463D+06
1020	5.6276D+04	8.4444D+01	7.9454D+01	1.2680D-23	1.0756D+04	3.3243D-05	5.3357D-12	5.6708D-12	5.8622D+06
1030	5.7121D+04	8.4553D+01	7.9473D+01	2.5171D-23	1.0752D+04	3.3409D-05	5.3423D-12	5.6837D-12	5.8780D+06
1040	5.7967D+04	8.4660D+01	7.9491D+01	4.9311D-23	1.0749D+04	3.3574D-05	5.3489D-12	5.6967D-12	5.8936D+06
1050	5.8814D+04	8.4767D+01	7.9507D+01	9.5374D-23	1.0745D+04	3.3740D-05	5.3555D-12	5.7099D-12	5.9091D+06
1060	5.9663D+04	8.4874D+01	7.9521D+01	1.8218D-22	1.0742D+04	3.3906D-05	5.3621D-12	5.7231D-12	5.9244D+06

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/MOL-K)	CV (J/MOL-K)	P (MPa)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAHHAV (PA/K)
1070	6.0512D+04	8.4979D+01	7.9534D+01	3.4382D-22	1.0738D+04	3.4072D-05	5.3688D-12	5.7364D-12	5.9396D+06
1080	6.1362D+04	8.5084D+01	7.9545D+01	6.4128D-22	1.0734D+04	3.4238D-05	5.3755D-12	5.7498D-12	5.9547D+06
1090	6.2214D+04	8.5188D+01	7.9554D+01	1.1825D-21	1.0731D+04	3.4405D-05	5.3822D-12	5.7633D-12	5.9696D+06
1100	6.3066D+04	8.5291D+01	7.9562D+01	2.1563D-21	1.0727D+04	3.4571D-05	5.3889D-12	5.7769D-12	5.9843D+06
1110	6.3919D+04	8.5393D+01	7.9569D+01	3.8898D-21	1.0723D+04	3.4738D-05	5.3956D-12	5.7906D-12	5.9989D+06
1120	6.4774D+04	8.5495D+01	7.9574D+01	6.9434D-21	1.0719D+04	3.4905D-05	5.4024D-12	5.8044D-12	6.0134D+06
1130	6.5629D+04	8.5597D+01	7.9577D+01	1.2268D-20	1.0716D+04	3.5071D-05	5.4092D-12	5.8183D-12	6.0277D+06
1140	6.6486D+04	8.5698D+01	7.9579D+01	2.1459D-20	1.0712D+04	3.5239D-05	5.4159D-12	5.8323D-12	6.0419D+06
1150	6.7343D+04	8.5798D+01	7.9580D+01	3.7174D-20	1.0708D+04	3.5406D-05	5.4227D-12	5.8464D-12	6.0559D+06
1160	6.8202D+04	8.5898D+01	7.9579D+01	6.3790D-20	1.0704D+04	3.5573D-05	5.4296D-12	5.8607D-12	6.0698D+06
1170	6.9061D+04	8.5997D+01	7.9577D+01	1.0846D-19	1.0700D+04	3.5741D-05	5.4364D-12	5.8750D-12	6.0836D+06
1180	6.9922D+04	8.6096D+01	7.9574D+01	1.8275D-19	1.0697D+04	3.5908D-05	5.4432D-12	5.8894D-12	6.0971D+06
1190	7.0783D+04	8.6194D+01	7.9569D+01	3.0524D-19	1.0693D+04	3.6076D-05	5.4501D-12	5.9039D-12	6.1106D+06
1200	7.1646D+04	8.6292D+01	7.9563D+01	5.0549D-19	1.0689D+04	3.6244D-05	5.4570D-12	5.9185D-12	6.1239D+06
1210	7.2509D+04	8.6389D+01	7.9556D+01	8.3018D-19	1.0685D+04	3.6412D-05	5.4639D-12	5.9332D-12	6.1370D+06
1220	7.3373D+04	8.6487D+01	7.9548D+01	1.3524D-18	1.0681D+04	3.6580D-05	5.4708D-12	5.9480D-12	6.1500D+06
1230	7.4239D+04	8.6584D+01	7.9538D+01	2.1856D-18	1.0677D+04	3.6749D-05	5.4778D-12	5.9630D-12	6.1629D+06
1240	7.5105D+04	8.6680D+01	7.9528D+01	3.5050D-18	1.0673D+04	3.6917D-05	5.4847D-12	5.9780D-12	6.1756D+06
1250	7.5972D+04	8.6776D+01	7.9516D+01	5.5785D-18	1.0669D+04	3.7086D-05	5.4917D-12	5.9931D-12	6.1881D+06
1260	7.6841D+04	8.6872D+01	7.9503D+01	8.8134D-18	1.0665D+04	3.7255D-05	5.4987D-12	6.0084D-12	6.2005D+06
1270	7.7710D+04	8.6968D+01	7.9489D+01	1.3824D-17	1.0661D+04	3.7424D-05	5.5057D-12	6.0237D-12	6.2127D+06
1280	7.8580D+04	8.7064D+01	7.9474D+01	2.1532D-17	1.0657D+04	3.7593D-05	5.5127D-12	6.0392D-12	6.2248D+06
1290	7.9451D+04	8.7159D+01	7.9459D+01	3.3308D-17	1.0653D+04	3.7762D-05	5.5198D-12	6.0547D-12	6.2368D+06
1300	8.0323D+04	8.7255D+01	7.9442D+01	5.1180D-17	1.0649D+04	3.7931D-05	5.5268D-12	6.0704D-12	6.2486D+06
1310	8.1196D+04	8.7350D+01	7.9424D+01	7.8127D-17	1.0645D+04	3.8101D-05	5.5339D-12	6.0862D-12	6.2602D+06
1320	8.2070D+04	8.7445D+01	7.9405D+01	1.1850D-16	1.0641D+04	3.8270D-05	5.5410D-12	6.1020D-12	6.2717D+06

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/MOL-K)	CV (J/MOL-K)	P (MPA)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMAV (PA/K)
1330	8.2945D+04	8.7541D+01	7.9386D+01	1.7861D-16	1.0637D+04	3.8440D-05	5.5481D-12	6.1180D-12	6.2831D+06
1340	8.3821D+04	8.7636D+01	7.9366D+01	2.6758D-16	1.0633D+04	3.8610D-05	5.5553D-12	6.1341D-12	6.2943D+06
1350	8.4698D+04	8.7731D+01	7.9345D+01	3.9846D-16	1.0629D+04	3.8780D-05	5.5624D-12	6.1504D-12	6.3054D+06
1360	8.5576D+04	8.7827D+01	7.9323D+01	5.8990D-16	1.0624D+04	3.8950D-05	5.5696D-12	6.1667D-12	6.3163D+06
1370	8.6454D+04	8.7923D+01	7.9301D+01	8.6832D-16	1.0620D+04	3.9121D-05	5.5768D-12	6.1831D-12	6.3270D+06
1380	8.7334D+04	8.8019D+01	7.9278D+01	1.2710D-15	1.0616D+04	3.9291D-05	5.5840D-12	6.1996D-12	6.3376D+06
1390	8.8215D+04	8.8115D+01	7.9254D+01	1.8503D-15	1.0612D+04	3.9462D-05	5.5912D-12	6.2163D-12	6.3481D+06
1400	8.9096D+04	8.8211D+01	7.9230D+01	2.6792D-15	1.0608D+04	3.9632D-05	5.5985D-12	6.2331D-12	6.3584D+06
1410	8.9979D+04	8.8308D+01	7.9206D+01	3.8591D-15	1.0604D+04	3.9803D-05	5.6057D-12	6.2499D-12	6.3686D+06
1420	9.0862D+04	8.8405D+01	7.9181D+01	5.5301D-15	1.0599D+04	3.9974D-05	5.6130D-12	6.2669D-12	6.3786D+06
1430	9.1747D+04	8.8503D+01	7.9156D+01	7.8849D-15	1.0595D+04	4.0145D-05	5.6203D-12	6.2840D-12	6.3885D+06
1440	9.2633D+04	8.8602D+01	7.9131D+01	1.1187D-14	1.0591D+04	4.0317D-05	5.6276D-12	6.3012D-12	6.3983D+06
1450	9.3519D+04	8.8701D+01	7.9105D+01	1.5796D-14	1.0586D+04	4.0488D-05	5.6350D-12	6.3185D-12	6.4079D+06
1460	9.4407D+04	8.8800D+01	7.9079D+01	2.2198D-14	1.0582D+04	4.0660D-05	5.6423D-12	6.3359D-12	6.4173D+06
1470	9.5295D+04	8.8901D+01	7.9054D+01	3.1052D-14	1.0578D+04	4.0831D-05	5.6497D-12	6.3535D-12	6.4266D+06
1480	9.6185D+04	8.9002D+01	7.9028D+01	4.3239D-14	1.0573D+04	4.1003D-05	5.6571D-12	6.3711D-12	6.4358D+06
1490	9.7075D+04	8.9104D+01	7.9002D+01	5.9944D-14	1.0569D+04	4.1175D-05	5.6645D-12	6.3889D-12	6.4448D+06
1500	9.7967D+04	8.9207D+01	7.8977D+01	8.2740D-14	1.0565D+04	4.1347D-05	5.6720D-12	6.4067D-12	6.4537D+06
1510	9.8859D+04	8.9311D+01	7.8952D+01	1.1372D-13	1.0560D+04	4.1519D-05	5.6794D-12	6.4247D-12	6.4624D+06
1520	9.9753D+04	8.9417D+01	7.8927D+01	1.5565D-13	1.0556D+04	4.1691D-05	5.6869D-12	6.4428D-12	6.4711D+06
1530	1.0065D+05	8.9524D+01	7.8902D+01	2.1216D-13	1.0552D+04	4.1864D-05	5.6944D-12	6.4609D-12	6.4795D+06
1540	1.0154D+05	8.9632D+01	7.8879D+01	2.8803D-13	1.0547D+04	4.2037D-05	5.7019D-12	6.4792D-12	6.4879D+06
1550	1.0244D+05	8.9741D+01	7.8855D+01	3.8949D-13	1.0543D+04	4.2209D-05	5.7095D-12	6.4976D-12	6.4961D+06
1560	1.0334D+05	8.9852D+01	7.8833D+01	5.2465D-13	1.0538D+04	4.2382D-05	5.7170D-12	6.5161D-12	6.5042D+06
1570	1.0424D+05	8.9965D+01	7.8811D+01	7.0405D-13	1.0534D+04	4.2555D-05	5.7246D-12	6.5347D-12	6.5121D+06
1580	1.0514D+05	9.0079D+01	7.8791D+01	9.4128D-13	1.0529D+04	4.2728D-05	5.7322D-12	6.5535D-12	6.5199D+06

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THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/MOL-K)	CV (J/MOL-K)	P (MPA)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMAV (PA/K)
1590	1.0604D+05	9.0196D+01	7.8771D+01	1.2538D-12	1.0525D+04	4.2901D-05	5.7398D-12	6.5723D-12	6.5276D+06
1600	1.0694D+05	9.0314D+01	7.8753D+01	1.6642D-12	1.0520D+04	4.3075D-05	5.7475D-12	6.5912D-12	6.5352D+06
1610	1.0785D+05	9.0435D+01		2.2012D-12	1.0516D+04	4.3248D-05			
1620	1.0875D+05	9.0557D+01		2.9014D-12	1.0511D+04	4.3422D-05			
1630	1.0966D+05	9.0683D+01		3.8113D-12	1.0506D+04	4.3595D-05			
1640	1.1056D+05	9.0810D+01		4.9901D-12	1.0502D+04	4.3769D-05			
1650	1.1147D+05	9.0941D+01		6.5120D-12	1.0497D+04	4.3943D-05			
1660	1.1238D+05	9.1074D+01		8.4710D-12	1.0493D+04	4.4117D-05			
1670	1.1329D+05	9.1210D+01		1.0985D-11	1.0488D+04	4.4292D-05			
1680	1.1421D+05	9.1350D+01		1.4200D-11	1.0483D+04	4.4466D-05			
1690	1.1512D+05	9.1493D+01		1.8301D-11	1.0479D+04	4.4640D-05			
1700	1.1604D+05	9.1639D+01		2.3516D-11	1.0474D+04	4.4815D-05			
1710	1.1695D+05	9.1789D+01		3.0129D-11	1.0469D+04	4.4990D-05			
1720	1.1787D+05	9.1942D+01		3.8490D-11	1.0464D+04	4.5164D-05			
1730	1.1879D+05	9.2100D+01		4.9032D-11	1.0460D+04	4.5339D-05			
1740	1.1971D+05	9.2262D+01		6.2288D-11	1.0455D+04	4.5514D-05			
1750	1.2064D+05	9.2428D+01		7.8912D-11	1.0450D+04	4.5690D-05			
1760	1.2156D+05	9.2599D+01		9.9705D-11	1.0445D+04	4.5865D-05			
1770	1.2249D+05	9.2775D+01		1.2564D-10	1.0441D+04	4.6040D-05			
1780	1.2342D+05	9.2955D+01		1.5792D-10	1.0436D+04	4.6216D-05			
1790	1.2435D+05	9.3141D+01		1.9798D-10	1.0431D+04	4.6392D-05			
1800	1.2528D+05	9.3332D+01		2.4758D-10	1.0426D+04	4.6567D-05			
1810	1.2622D+05	9.3529D+01		3.0884D-10	1.0421D+04	4.6743D-05			
1820	1.2715D+05	9.3732D+01		3.8433D-10	1.0416D+04	4.6919D-05			
1830	1.2809D+05	9.3941D+01		4.7713D-10	1.0411D+04	4.7096D-05			
1840	1.2903D+05	9.4156D+01		5.9094D-10	1.0406D+04	4.7272D-05			

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/MOL-K)	CV (J/MOL-K)	P (MPa)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMAV (PA/K)
1850	1.2997D+05	9.4378D+01		7.3021D-10	1.0401D+04	4.7448D-05			
1860	1.3092D+05	9.4606D+01		9.0025D-10	1.0397D+04	4.7625D-05			
1870	1.3187D+05	9.4842D+01		1.1074D-09	1.0392D+04	4.7801D-05			
1880	1.3282D+05	9.5085D+01		1.3592D-09	1.0387D+04	4.7978D-05			
1890	1.3377D+05	9.5336D+01		1.6647D-09	1.0382D+04	4.8155D-05			
1900	1.3472D+05	9.5594D+01		2.0345D-09	1.0377D+04	4.8332D-05			
1910	1.3568D+05	9.5861D+01		2.4812D-09	1.0372D+04	4.8509D-05			
1920	1.3664D+05	9.6136D+01		3.0197D-09	1.0366D+04	4.8686D-05			
1930	1.3760D+05	9.6420D+01		3.6677D-09	1.0361D+04	4.8864D-05			
1940	1.3857D+05	9.6713D+01		4.4457D-09	1.0356D+04	4.9041D-05			
1950	1.3954D+05	9.7015D+01		5.3782D-09	1.0351D+04	4.9218D-05			
1960	1.4051D+05	9.7327D+01		6.4937D-09	1.0346D+04	4.9396D-05			
1970	1.4148D+05	9.7649D+01		7.8255D-09	1.0341D+04	4.9574D-05			
1980	1.4246D+05	9.7980D+01		9.4128D-09	1.0336D+04	4.9752D-05			
1990	1.4344D+05	9.8323D+01		1.1301D-08	1.0331D+04	4.9930D-05			
2000	1.4443D+05	9.8676D+01		1.3543D-08	1.0326D+04	5.0108D-05			
2010	1.4542D+05	9.9040D+01		1.6201D-08	1.0320D+04	5.0286D-05			
2020	1.4641D+05	9.9416D+01		1.9346D-08	1.0315D+04	5.0464D-05			
2030	1.4740D+05	9.9804D+01		2.3061D-08	1.0310D+04	5.0643D-05			
2040	1.4840D+05	1.0020D+02		2.7442D-08	1.0305D+04	5.0821D-05			
2050	1.4941D+05	1.0062D+02		3.2601D-08	1.0299D+04	5.1000D-05			
2060	1.5042D+05	1.0104D+02		3.8664D-08	1.0294D+04	5.1179D-05			
2070	1.5143D+05	1.0148D+02		4.5780D-08	1.0289D+04	5.1358D-05			
2080	1.5245D+05	1.0193D+02		5.4117D-08	1.0284D+04	5.1537D-05			
2090	1.5347D+05	1.0240D+02		6.3870D-08	1.0278D+04	5.1716D-05			
2100	1.5449D+05	1.0288D+02		7.5262D-08	1.0273D+04	5.1895D-05			

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T (K)	H-H (298) (J/MOL)	CP (J/MOL-K)	CV (J/MOL-K)	P (MPa)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMAV (PA/K)
2110	1.5553D+05	1.0337D+02		8.8548D-08	1.0268D+04	5.2074D-05			
2120	1.5656D+05	1.0388D+02		1.0402D-07	1.0262D+04	5.2253D-05			
2130	1.5760D+05	1.0440D+02		1.2201D-07	1.0257D+04	5.2433D-05			
2140	1.5865D+05	1.0494D+02		1.4290D-07	1.0252D+04	5.2613D-05			
2150	1.5970D+05	1.0550D+02		1.6712D-07	1.0246D+04	5.2792D-05			
2160	1.6076D+05	1.0607D+02		1.9516D-07	1.0241D+04	5.2972D-05			
2170	1.6182D+05	1.0666D+02		2.2758D-07	1.0235D+04	5.3152D-05			
2180	1.6289D+05	1.0727D+02		2.6501D-07	1.0230D+04	5.3332D-05			
2190	1.6397D+05	1.0789D+02		3.0817D-07	1.0224D+04	5.3512D-05			
2200	1.6505D+05	1.0853D+02		3.5786D-07	1.0219D+04	5.3692D-05			
2210	1.6614D+05	1.0920D+02		4.1501D-07	1.0213D+04	5.3873D-05			
2220	1.6724D+05	1.0987D+02		4.8065D-07	1.0208D+04	5.4053D-05			
2230	1.6834D+05	1.1057D+02		5.5593D-07	1.0202D+04	5.4234D-05			
2240	1.6945D+05	1.1129D+02		6.4216D-07	1.0197D+04	5.4414D-05			
2250	1.7056D+05	1.1203D+02		7.4083D-07	1.0191D+04	5.4595D-05			
2260	1.7169D+05	1.1279D+02		8.5357D-07	1.0186D+04	5.4776D-05			
2270	1.7282D+05	1.1356D+02		9.8224D-07	1.0180D+04	5.4957D-05			
2280	1.7396D+05	1.1436D+02		1.1289D-06	1.0174D+04	5.5138D-05			
2290	1.7511D+05	1.1519D+02		1.2959D-06	1.0169D+04	5.5319D-05			
2300	1.7626D+05	1.1603D+02		1.4859D-06	1.0163D+04	5.5500D-05			
2310	1.7743D+05	1.1689D+02		1.7016D-06	1.0158D+04	5.5681D-05			
2320	1.7860D+05	1.1778D+02		1.9464D-06	1.0152D+04	5.5863D-05			
2330	1.7978D+05	1.1869D+02		2.2239D-06	1.0146D+04	5.6044D-05			
2340	1.8097D+05	1.1963D+02		2.5380D-06	1.0141D+04	5.6226D-05			
2350	1.8218D+05	1.2059D+02		2.8932D-06	1.0135D+04	5.6408D-05			
2360	1.8339D+05	1.2157D+02		3.2945D-06	1.0129D+04	5.6589D-05			

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/MOL-K)	CV (J/MOL-K)	P (MPa)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMAV (PA/K)
2370	1.8461D+05	1.2258D+02		3.7473D-06	1.0123D+04	5.6771D-05			
2380	1.8584D+05	1.2361D+02		4.2577D-06	1.0118D+04	5.6953D-05			
2390	1.8708D+05	1.2467D+02		4.8326D-06	1.0112D+04	5.7135D-05			
2400	1.8833D+05	1.2575D+02		5.4792D-06	1.0106D+04	5.7318D-05			
2410	1.8959D+05	1.2687D+02		6.2059D-06	1.0100D+04	5.7500D-05			
2420	1.9087D+05	1.2800D+02		7.0217D-06	1.0094D+04	5.7682D-05			
2430	1.9215D+05	1.2917D+02		7.9367D-06	1.0089D+04	5.7865D-05			
2440	1.9345D+05	1.3036D+02		8.9620D-06	1.0083D+04	5.8047D-05			
2450	1.9476D+05	1.3158D+02		1.0110D-05	1.0077D+04	5.8230D-05			
2460	1.9608D+05	1.3283D+02		1.1393D-05	1.0071D+04	5.8413D-05			
2470	1.9742D+05	1.3411D+02		1.2627D-05	1.0065D+04	5.8595D-05			
2480	1.9877D+05	1.3542D+02		1.4428D-05	1.0059D+04	5.8778D-05			
2490	2.0013D+05	1.3676D+02		1.6213D-05	1.0053D+04	5.8961D-05			
2500	2.0150D+05	1.3813D+02		1.8202D-05	1.0047D+04	5.9144D-05			
2510	2.0289D+05	1.3952D+02		2.0416D-05	1.0041D+04	5.9328D-05			
2520	2.0429D+05	1.4095D+02		2.2879D-05	1.0035D+04	5.9511D-05			
2530	2.0571D+05	1.4242D+02		2.5615D-05	1.0029D+04	5.9694D-05			
2540	2.0714D+05	1.4391D+02		2.8654D-05	1.0023D+04	5.9878D-05			
2550	2.0859D+05	1.4543D+02		3.2024D-05	1.0017D+04	6.0061D-05			
2560	2.1005D+05	1.4699D+02		3.5761D-05	1.0011D+04	6.0245D-05			
2570	2.1153D+05	1.4858D+02		3.9898D-05	1.0005D+04	6.0428D-05			
2580	2.1302D+05	1.5021D+02		4.4477D-05	9.9993D+03	6.0612D-05			
2590	2.1453D+05	1.5186D+02		4.9540D-05	9.9932D+03	6.0796D-05			
2600	2.1606D+05	1.5356D+02		5.5133D-05	9.9872D+03	6.0980D-05			
2610	2.1760D+05	1.5528D+02		6.1307D-05	9.9811D+03	6.1164D-05			
2620	2.1916D+05	1.5705D+02		6.8117D-05	9.9749D+03	6.1348D-05			

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H(298) (J/MOL)	CP (J/MOL-K)	CV (J/MOL-K)	P (MPA)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMAV (PA/K)
2630	2.2074D+05	1.5884D+02		7.5624D-05	9.9688D+03	6.1532D-05			
2640	2.2234D+05	1.6068D+02		8.3891D-05	9.9627D+03	6.1717D-05			
2650	2.2396D+05	1.6255D+02		9.2989D-05	9.9565D+03	6.1901D-05			
2660	2.2559D+05	1.6445D+02		1.0299D-04	9.9503D+03	6.2086D-05			
2670	2.2725D+05	1.6640D+02		1.1399D-04	9.9441D+03	6.2270D-05			
2680	2.2933D+05	1.6704D+02		1.2606D-04	9.9379D+03	6.2455D-05			
2690	2.3100D+05	1.6704D+02		1.3931D-04	9.9317D+03	6.2639D-05			
2700	2.3267D+05	1.6704D+02		1.5383D-04	9.9255D+03	6.2824D-05			
2710	2.3434D+05	1.6704D+02		1.6975D-04	9.9192D+03	6.3009D-05			
2720	2.3601D+05	1.6704D+02		1.8717D-04	9.9130D+03	6.3194D-05			
2730	2.3768D+05	1.6704D+02		2.0624D-04	9.9067D+03	6.3379D-05			
2740	2.3935D+05	1.6704D+02		2.2709D-04	9.9004D+03	6.3564D-05			
2750	2.4102D+05	1.6704D+02		2.4987D-04	9.8941D+03	6.3749D-05			
2760	2.4269D+05	1.6704D+02		2.7475D-04	9.8878D+03	6.3935D-05			
2770	2.4436D+05	1.6704D+02		3.0189D-04	9.8814D+03	6.4120D-05			
2780	2.4603D+05	1.6704D+02		3.3150D-04	9.8751D+03	6.4305D-05			
2790	2.4770D+05	1.6704D+02		3.6376D-04	9.8687D+03	6.4491D-05			
2800	2.4937D+05	1.6704D+02		3.9890D-04	9.8624D+03	6.4676D-05			
2810	2.5104D+05	1.6704D+02		4.3714D-04	9.8560D+03	6.4862D-05			
2820	2.5271D+05	1.6704D+02		4.7874D-04	9.8496D+03	6.5048D-05			
2830	2.5438D+05	1.6704D+02		5.2396D-04	9.8431D+03	6.5233D-05			
2840	2.5605D+05	1.6704D+02		5.7309D-04	9.8367D+03	6.5419D-05			
2850	2.5772D+05	1.6704D+02		6.2643D-04	9.8302D+03	6.5605D-05			
2860	2.5939D+05	1.6704D+02		6.8431D-04	9.8238D+03	6.5791D-05			
2870	2.6106D+05	1.6704D+02		7.4708D-04	9.8173D+03	6.5977D-05			
2880	2.6273D+05	1.6704D+02		8.1511D-04	9.8108D+03	6.6163D-05			

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/MOL-K)	CV (J/MOL-K)	P (KPA)	DENSITY (KG/M**3)	ALPHA P (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMA V (PA/K)
2890	2.6440D+05	1.6704D+02		8.8880D-04	9.8043D+03	6.6350D-05			
2900	2.6607D+05	1.6704D+02		9.6857D-04	9.7978D+03	6.6536D-05			
2910	2.6774D+05	1.6704D+02		1.0549D-03	9.7912D+03	6.6722D-05			
2920	2.6941D+05	1.6704D+02		1.1482D-03	9.7847D+03	6.6909D-05			
2930	2.7109D+05	1.6704D+02		1.2491D-03	9.7781D+03	6.7095D-05			
2940	2.7276D+05	1.6704D+02		1.3580D-03	9.7715D+03	6.7282D-05			
2950	2.7443D+05	1.6704D+02		1.4756D-03	9.7649D+03	6.7468D-05			
2960	2.7610D+05	1.6704D+02		1.6025D-03	9.7583D+03	6.7655D-05			
2970	2.7777D+05	1.6704D+02		1.7393D-03	9.7517D+03	6.7842D-05			
2980	2.7944D+05	1.6704D+02		1.8868D-03	9.7451D+03	6.8029D-05			
2990	2.8111D+05	1.6704D+02		2.0457D-03	9.7384D+03	6.8215D-05			
3000	2.8278D+05	1.6704D+02		2.2167D-03	9.7317D+03	6.8402D-05			
3010	2.8445D+05	1.6704D+02		2.4008D-03	9.7251D+03	6.8589D-05			
3020	2.8612D+05	1.6704D+02		2.5988D-03	9.7184D+03	6.8777D-05			
3030	2.8779D+05	1.6704D+02		2.8117D-03	9.7116D+03	6.8964D-05			
3040	2.8946D+05	1.6704D+02		3.0404D-03	9.7049D+03	6.9151D-05			
3050	2.9113D+05	1.6704D+02		3.2860D-03	9.6982D+03	6.9338D-05			
3060	2.9280D+05	1.6704D+02		3.5497D-03	9.6914D+03	6.9526D-05			
3070	2.9447D+05	1.6704D+02		3.8326D-03	9.6847D+03	6.9713D-05			
3080	2.9614D+05	1.6704D+02		4.1359D-03	9.6779D+03	6.9900D-05			
3090	2.9781D+05	1.6704D+02		4.4611D-03	9.6711D+03	7.0088D-05			
3100	2.9948D+05	1.6704D+02		4.8095D-03	9.6643D+03	7.0276D-05			
3110	3.0115D+05	1.6704D+02		5.1827D-03	9.6575D+03	7.0463D-05			
3120	3.0282D+05	1.6704D+02		5.5820D-03	9.6506D+03	7.0651D-05			

TRANSPORT PROPERTIES OF SOLID UO_2
IN SI UNITS

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (M**2/S)	CONDUCTIVITY (W/M-K)	EMISSIVITY	ELECCOND (1/OHM-M)
298	3.2003D-06	8.2685D+00	8.2381D-01	1.41D-01
300	3.1816D-06	8.2450D+00	8.2381D-01	1.46D-01
310	3.0856D-06	8.1202D+00	8.2386D-01	1.80D-01
320	2.9970D-06	7.9987D+00	8.2390D-01	2.19D-01
330	2.9148D-06	7.8805D+00	8.2394D-01	2.62D-01
340	2.8383D-06	7.7652D+00	8.2399D-01	3.12D-01
350	2.7668D-06	7.6530D+00	8.2403D-01	3.66D-01
360	2.6998D-06	7.5435D+00	8.2407D-01	4.27D-01
370	2.6368D-06	7.4368D+00	8.2412D-01	4.93D-01
380	2.5773D-06	7.3327D+00	8.2416D-01	5.65D-01
390	2.5211D-06	7.2312D+00	8.2420D-01	6.44D-01
400	2.4678D-06	7.1321D+00	8.2425D-01	7.28D-01
410	2.4172D-06	7.0354D+00	8.2429D-01	8.19D-01
420	2.3690D-06	6.9410D+00	8.2433D-01	9.16D-01
430	2.3230D-06	6.8487D+00	8.2438D-01	1.02D+00
440	2.2791D-06	6.7586D+00	8.2442D-01	1.13D+00
450	2.2370D-06	6.6706D+00	8.2446D-01	1.24D+00
460	2.1967D-06	6.5845D+00	8.2451D-01	1.36D+00
470	2.1580D-06	6.5004D+00	8.2455D-01	1.49D+00
480	2.1208D-06	6.4181D+00	8.2459D-01	1.62D+00
490	2.0849D-06	6.3376D+00	8.2464D-01	1.76D+00
500	2.0504D-06	6.2589D+00	8.2468D-01	1.91D+00
510	2.0171D-06	6.1818D+00	8.2472D-01	2.06D+00
520	1.9850D-06	6.1064D+00	8.2477D-01	2.21D+00
530	1.9539D-06	6.0326D+00	8.2481D-01	2.37D+00
540	1.9238D-06	5.9603D+00	8.2485D-01	2.54D+00

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (M**2/S)	CONDUCTIVITY (W/M-K)	EMISSIVITY	ELECCOND (1/OHM-M)
550	1.8947D-06	5.8895D+00	8.2490D-01	2.71D+00
560	1.8664D-06	5.8201D+00	8.2494D-01	2.88D+00
570	1.8391D-06	5.7522D+00	8.2498D-01	3.06D+00
580	1.8125D-06	5.6856D+00	8.2502D-01	3.24D+00
590	1.7867D-06	5.6203D+00	8.2507D-01	3.43D+00
600	1.7616D-06	5.5564D+00	8.2511D-01	3.62D+00
610	1.7372D-06	5.4936D+00	8.2515D-01	3.82D+00
620	1.7135D-06	5.4321D+00	8.2520D-01	4.02D+00
630	1.6904D-06	5.3718D+00	8.2524D-01	4.22D+00
640	1.6679D-06	5.3126D+00	8.2528D-01	4.43D+00
650	1.6460D-06	5.2545D+00	8.2533D-01	4.64D+00
660	1.6246D-06	5.1975D+00	8.2537D-01	4.85D+00
670	1.6038D-06	5.1416D+00	8.2541D-01	5.07D+00
680	1.5834D-06	5.0866D+00	8.2546D-01	5.28D+00
690	1.5635D-06	5.0327D+00	8.2550D-01	5.51D+00
700	1.5441D-06	4.9798D+00	8.2554D-01	5.73D+00
710	1.5252D-06	4.9278D+00	8.2559D-01	5.96D+00
720	1.5067D-06	4.8767D+00	8.2563D-01	6.18D+00
730	1.4886D-06	4.8265D+00	8.2567D-01	6.42D+00
740	1.4709D-06	4.7772D+00	8.2572D-01	6.65D+00
750	1.4535D-06	4.7288D+00	8.2576D-01	6.88D+00
760	1.4366D-06	4.6812D+00	8.2580D-01	7.12D+00
770	1.4200D-06	4.6344D+00	8.2585D-01	7.36D+00
780	1.4037D-06	4.5884D+00	8.2589D-01	7.60D+00
790	1.3878D-06	4.5432D+00	8.2593D-01	7.84D+00
800	1.3722D-06	4.4987D+00	8.2598D-01	8.08D+00

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (M**2/S)	CONDUCTIVITY (W/M-K)	EMISSIVITY	ELECCOND (1/OHM-M)
810	1.3569D-06	4.4549D+00	8.2602D-01	8.32D+00
820	1.3420D-06	4.4119D+00	8.2606D-01	8.57D+00
830	1.3273D-06	4.3696D+00	8.2610D-01	8.81D+00
840	1.3129D-06	4.3279D+00	8.2615D-01	9.06D+00
850	1.2987D-06	4.2870D+00	8.2619D-01	9.31D+00
860	1.2849D-06	4.2467D+00	8.2623D-01	9.56D+00
870	1.2713D-06	4.2070D+00	8.2628D-01	9.81D+00
880	1.2579D-06	4.1679D+00	8.2632D-01	1.01D+01
890	1.2448D-06	4.1295D+00	8.2636D-01	1.03D+01
900	1.2320D-06	4.0917D+00	8.2641D-01	1.06D+01
910	1.2193D-06	4.0544D+00	8.2645D-01	1.08D+01
920	1.2069D-06	4.0177D+00	8.2649D-01	1.11D+01
930	1.1947D-06	3.9816D+00	8.2654D-01	1.13D+01
940	1.1828D-06	3.9460D+00	8.2658D-01	1.16D+01
950	1.1710D-06	3.9110D+00	8.2662D-01	1.18D+01
960	1.1594D-06	3.8764D+00	8.2667D-01	1.21D+01
970	1.1480D-06	3.8424D+00	8.2671D-01	1.23D+01
980	1.1369D-06	3.8089D+00	8.2675D-01	1.26D+01
990	1.1259D-06	3.7759D+00	8.2680D-01	1.28D+01
1000	1.1151D-06	3.7434D+00	8.2684D-01	1.31D+01
1010	1.1044D-06	3.7113D+00	8.2688D-01	1.33D+01
1020	1.0940D-06	3.6797D+00	8.2693D-01	1.36D+01
1030	1.0837D-06	3.6485D+00	8.2697D-01	1.38D+01
1040	1.0735D-06	3.6178D+00	8.2701D-01	1.41D+01
1050	1.0636D-06	3.5876D+00	8.2706D-01	1.43D+01
1060	1.0538D-06	3.5577D+00	8.2710D-01	1.46D+01

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (M**2/S)	CONDUCTIVITY (W/M-K)	EMISSIVITY	ELECCOND (1/OHM-M)
1070	1.0441D-06	3.5283D+00	8.2714D-01	1.48D+01
1080	1.0346D-06	3.4993D+00	8.2719D-01	1.51D+01
1090	1.0253D-06	3.4707D+00	8.2723D-01	1.53D+01
1100	1.0160D-06	3.4425D+00	8.2727D-01	1.56D+01
1110	1.0070D-06	3.4147D+00	8.2731D-01	1.58D+01
1120	9.9804D-07	3.3873D+00	8.2736D-01	1.61D+01
1130	9.8925D-07	3.3602D+00	8.2740D-01	1.63D+01
1140	9.8059D-07	3.3336D+00	8.2744D-01	1.66D+01
1150	9.7205D-07	3.3072D+00	8.2749D-01	1.68D+01
1160	9.6365D-07	3.2813D+00	8.2753D-01	1.71D+01
1170	9.5537D-07	3.2557D+00	8.2757D-01	1.73D+01
1180	9.4722D-07	3.2305D+00	8.2762D-01	1.75D+01
1190	9.3918D-07	3.2056D+00	8.2766D-01	1.78D+01
1200	9.3126D-07	3.1810D+00	8.2770D-01	1.80D+01
1210	9.2346D-07	3.1568D+00	8.2775D-01	1.83D+01
1220	9.1578D-07	3.1329D+00	8.2779D-01	1.85D+01
1230	9.0820D-07	3.1093D+00	8.2783D-01	1.87D+01
1240	9.0074D-07	3.0860D+00	8.2788D-01	1.90D+01
1250	8.9339D-07	3.0631D+00	8.2792D-01	1.92D+01
1260	8.8614D-07	3.0405D+00	8.2796D-01	1.95D+01
1270	8.7900D-07	3.0182D+00	8.2801D-01	1.97D+01
1280	8.7196D-07	2.9962D+00	8.2805D-01	1.99D+01
1290	8.6502D-07	2.9745D+00	8.2809D-01	2.02D+01
1300	8.5818D-07	2.9531D+00	8.2814D-01	2.04D+01
1310	8.5145D-07	2.9320D+00	8.2818D-01	2.06D+01
1320	8.4480D-07	2.9111D+00	8.2822D-01	2.09D+01

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (M**2/S)	CONDUCTIVITY (W/M-K)	EMISSIVITY	ELECCOND (1/OHM-M)
1330	8.3826D-07	2.8906D+00	8.2827D-01	2.11D+01
1340	8.3181D-07	2.8704D+00	8.2831D-01	2.13D+01
1350	8.2546D-07	2.8505D+00	8.2835D-01	2.15D+01
1360	8.1919D-07	2.8308D+00	8.2840D-01	2.18D+01
1370	8.1302D-07	2.8114D+00	8.2844D-01	2.20D+01
1380	8.0694D-07	2.7924D+00	8.2848D-01	2.22D+01
1390	8.0095D-07	2.7736D+00	8.2852D-01	2.24D+01
1400	7.9504D-07	2.7550D+00	8.2857D-01	2.58D+01
1410	7.8923D-07	2.7368D+00	8.2861D-01	2.76D+01
1420	7.8350D-07	2.7188D+00	8.2865D-01	2.95D+01
1430	7.7785D-07	2.7011D+00	8.2870D-01	3.15D+01
1440	7.7229D-07	2.6837D+00	8.2874D-01	3.36D+01
1450	7.6681D-07	2.6666D+00	8.2878D-01	3.58D+01
1460	7.6142D-07	2.6497D+00	8.2883D-01	3.81D+01
1470	7.5611D-07	2.6331D+00	8.2887D-01	4.06D+01
1480	7.5088D-07	2.6168D+00	8.2891D-01	4.32D+01
1490	7.4573D-07	2.6008D+00	8.2896D-01	4.59D+01
1500	7.4066D-07	2.5850D+00	8.2900D-01	4.87D+01
1510	7.3567D-07	2.5696D+00	8.2904D-01	5.16D+01
1520	7.3076D-07	2.5544D+00	8.2909D-01	5.47D+01
1530	7.2593D-07	2.5394D+00	8.2913D-01	5.80D+01
1540	7.2117D-07	2.5248D+00	8.2917D-01	6.13D+01
1550	7.1650D-07	2.5104D+00	8.2922D-01	6.49D+01
1560	7.1190D-07	2.4963D+00	8.2926D-01	6.85D+01
1570	7.0737D-07	2.4825D+00	8.2930D-01	7.24D+01
1580	7.0292D-07	2.4690D+00	8.2935D-01	7.64D+01

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (M**2/S)	CONDUCTIVITY (W/M-K)	EMISSIVITY	ELECCOND (1/OHM-M)
1590	6.9855D-07	2.4557D+00	8.2939D-01	8.06D+01
1600	6.9425D-07	2.4428D+00	8.2943D-01	8.49D+01
1610	6.9003D-07	2.4301D+00	8.2948D-01	8.94D+01
1620	6.8588D-07	2.4177D+00	8.2952D-01	9.41D+01
1630	6.8181D-07	2.4056D+00	8.2956D-01	9.90D+01
1640	6.7781D-07	2.3938D+00	8.2960D-01	1.04D+02
1650	6.7388D-07	2.3823D+00	8.2965D-01	1.09D+02
1660	6.7002D-07	2.3711D+00	8.2969D-01	1.15D+02
1670	6.6624D-07	2.3602D+00	8.2973D-01	1.20D+02
1680	6.6253D-07	2.3496D+00	8.2978D-01	1.26D+02
1690	6.5889D-07	2.3393D+00	8.2982D-01	1.32D+02
1700	6.5533D-07	2.3293D+00	8.2986D-01	1.39D+02
1710	6.5183D-07	2.3197D+00	8.2991D-01	1.45D+02
1720	6.4841D-07	2.3103D+00	8.2995D-01	1.52D+02
1730	6.4506D-07	2.3013D+00	8.2999D-01	1.59D+02
1740	6.4178D-07	2.2925D+00	8.3004D-01	1.66D+02
1750	6.3857D-07	2.2842D+00	8.3008D-01	1.74D+02
1760	6.3543D-07	2.2761D+00	8.3012D-01	1.81D+02
1770	6.3236D-07	2.2683D+00	8.3017D-01	1.89D+02
1780	6.2936D-07	2.2609D+00	8.3021D-01	1.97D+02
1790	6.2644D-07	2.2539D+00	8.3025D-01	2.06D+02
1800	6.2358D-07	2.2471D+00	8.3030D-01	2.15D+02
1810	6.2079D-07	2.2408D+00	8.3034D-01	2.24D+02
1820	6.1807D-07	2.2347D+00	8.3038D-01	2.33D+02
1830	6.1541D-07	2.2290D+00	8.3043D-01	2.42D+02
1840	6.1283D-07	2.2237D+00	8.3047D-01	2.52D+02

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (M**2/S)	CONDUCTIVITY (W/M-K)	EMISSIVITY	ELECCOND (1/OHM-M)
1850	6.1032D-07	2.2188D+00	8.3051D-01	2.62D+02
1860	6.0787D-07	2.2142D+00	8.3056D-01	2.73D+02
1870	6.0549D-07	2.2099D+00	8.3060D-01	2.83D+02
1880	6.0318D-07	2.2061D+00	8.3064D-01	2.94D+02
1890	6.0094D-07	2.2026D+00	8.3069D-01	3.05D+02
1900	5.9876D-07	2.1995D+00	8.3073D-01	3.17D+02
1910	5.9665D-07	2.1968D+00	8.3077D-01	3.29D+02
1920	5.9461D-07	2.1945D+00	8.3081D-01	3.41D+02
1930	5.9263D-07	2.1926D+00	8.3086D-01	3.54D+02
1940	5.9072D-07	2.1911D+00	8.3090D-01	3.66D+02
1950	5.8888D-07	2.1900D+00	8.3094D-01	3.80D+02
1960	5.8710D-07	2.1893D+00	8.3099D-01	3.93D+02
1970	5.8538D-07	2.1891D+00	8.3103D-01	4.07D+02
1980	5.8373D-07	2.1892D+00	8.3107D-01	4.21D+02
1990	5.8214D-07	2.1898D+00	8.3112D-01	4.36D+02
2000	5.8062D-07	2.1908D+00	8.3116D-01	4.50D+02
2010	5.7916D-07	2.1923D+00	8.3120D-01	4.66D+02
2020	5.7776D-07	2.1942D+00	8.3125D-01	4.81D+02
2030	5.7642D-07	2.1965D+00	8.3129D-01	4.97D+02
2040	5.7514D-07	2.1993D+00	8.3133D-01	5.13D+02
2050	5.7393D-07	2.2026D+00	8.3138D-01	5.30D+02
2060	5.7277D-07	2.2063D+00	8.3142D-01	5.47D+02
2070	5.7168D-07	2.2105D+00	8.3146D-01	5.64D+02
2080	5.7064D-07	2.2151D+00	8.3151D-01	5.82D+02
2090	5.6966D-07	2.2203D+00	8.3155D-01	6.00D+02
2100	5.6874D-07	2.2259D+00	8.3159D-01	6.19D+02

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (M**2/S)	CONDUCTIVITY (W/M-K)	EMISSIVITY	ELECCOND (1/OHM-M)
2110	5.6787D-07	2.2321D+00	8.3164D-01	6.38D+02
2120	5.6706D-07	2.2387D+00	8.3168D-01	6.57D+02
2130	5.6631D-07	2.2458D+00	8.3172D-01	6.77D+02
2140	5.6561D-07	2.2535D+00	8.3177D-01	6.97D+02
2150	5.6496D-07	2.2616D+00	8.3181D-01	7.18D+02
2160	5.6436D-07	2.2703D+00	8.3185D-01	7.39D+02
2170	5.6382D-07	2.2795D+00	8.3190D-01	7.60D+02
2180	5.6333D-07	2.2892D+00	8.3194D-01	7.82D+02
2190	5.6288D-07	2.2995D+00	8.3198D-01	8.04D+02
2200	5.6249D-07	2.3103D+00	8.3202D-01	8.26D+02
2210	5.6214D-07	2.3217D+00	8.3207D-01	8.49D+02
2220	5.6184D-07	2.3336D+00	8.3211D-01	8.73D+02
2230	5.6158D-07	2.3461D+00	8.3215D-01	8.97D+02
2240	5.6137D-07	2.3592D+00	8.3220D-01	9.21D+02
2250	5.6120D-07	2.3728D+00	8.3224D-01	9.46D+02
2260	5.6108D-07	2.3870D+00	8.3228D-01	9.71D+02
2270	5.6099D-07	2.4018D+00	8.3233D-01	9.96D+02
2280	5.6095D-07	2.4172D+00	8.3237D-01	1.02D+03
2290	5.6094D-07	2.4332D+00	8.3241D-01	1.05D+03
2300	5.6098D-07	2.4498D+00	8.3246D-01	1.08D+03
2310	5.6104D-07	2.4670D+00	8.3250D-01	1.10D+03
2320	5.6115D-07	2.4848D+00	8.3254D-01	1.13D+03
2330	5.6129D-07	2.5032D+00	8.3259D-01	1.16D+03
2340	5.6146D-07	2.5223D+00	8.3263D-01	1.19D+03
2350	5.6166D-07	2.5420D+00	8.3267D-01	1.22D+03
2360	5.6189D-07	2.5624D+00	8.3272D-01	1.25D+03

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (M**2/S)	CONDUCTIVITY (W/M-K)	EMISSIVITY	ELECCOND (1/OHM-M)
2370	5.6216D-07	2.5834D+00	8.3276D-01	1.28D+03
2380	5.6245D-07	2.6050D+00	8.3280D-01	1.31D+03
2390	5.6277D-07	2.6273D+00	8.3285D-01	1.34D+03
2400	5.6311D-07	2.6503D+00	8.3289D-01	1.37D+03
2410	5.6348D-07	2.6739D+00	8.3293D-01	1.40D+03
2420	5.6387D-07	2.6982D+00	8.3298D-01	1.43D+03
2430	5.6429D-07	2.7232D+00	8.3302D-01	1.47D+03
2440	5.6473D-07	2.7489D+00	8.3306D-01	1.50D+03
2450	5.6518D-07	2.7753D+00	8.3310D-01	1.53D+03
2460	5.6566D-07	2.8024D+00	8.3315D-01	1.57D+03
2470	5.6615D-07	2.8301D+00	8.3319D-01	1.60D+03
2480	5.6666D-07	2.8586D+00	8.3323D-01	1.64D+03
2490	5.6719D-07	2.8879D+00	8.3328D-01	1.68D+03
2500	5.6773D-07	2.9178D+00	8.3332D-01	1.71D+03
2510	5.6828D-07	2.9485D+00	8.3336D-01	1.75D+03
2520	5.6885D-07	2.9799D+00	8.3341D-01	1.79D+03
2530	5.6943D-07	3.0120D+00	8.3345D-01	1.82D+03
2540	5.7001D-07	3.0449D+00	8.3349D-01	1.86D+03
2550	5.7061D-07	3.0786D+00	8.3354D-01	1.90D+03
2560	5.7122D-07	3.1130D+00	8.3358D-01	1.94D+03
2570	5.7184D-07	3.1482D+00	8.3362D-01	1.98D+03
2580	5.7246D-07	3.1841D+00	8.3367D-01	2.02D+03
2590	5.7309D-07	3.2209D+00	8.3371D-01	2.06D+03
2600	5.7372D-07	3.2584D+00	8.3375D-01	2.10D+03
2610	5.7436D-07	3.2967D+00	8.3380D-01	2.14D+03
2620	5.7500D-07	3.3358D+00	8.3384D-01	2.19D+03

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (M**2/S)	CONDUCTIVITY (W/M-K)	EMISSIVITY	ELECCOND (1/OHM-M)
2630	5.7565D-07	3.3757D+00	8.3388D-01	2.23D+03
2640	5.7630D-07	3.4164D+00	8.3393D-01	2.27D+03
2650	5.7695D-07	3.4579D+00	8.3397D-01	2.32D+03
2660	5.7760D-07	3.5002D+00	8.3401D-01	2.36D+03
2670	5.7825D-07	3.5433D+00	8.3406D-01	2.40D+03
2680	5.7599D-07	3.5410D+00	8.3410D-01	2.45D+03
2690	5.7598D-07	3.5387D+00	8.3414D-01	2.50D+03
2700	5.7597D-07	3.5364D+00	8.3419D-01	2.54D+03
2710	5.7597D-07	3.5342D+00	8.3423D-01	2.59D+03
2720	5.7596D-07	3.5319D+00	8.3427D-01	2.64D+03
2730	5.7596D-07	3.5296D+00	8.3431D-01	2.68D+03
2740	5.7595D-07	3.5274D+00	8.3436D-01	2.73D+03
2750	5.7595D-07	3.5251D+00	8.3440D-01	2.78D+03
2760	5.7595D-07	3.5228D+00	8.3444D-01	2.83D+03
2770	5.7594D-07	3.5206D+00	8.3449D-01	2.88D+03
2780	5.7594D-07	3.5183D+00	8.3453D-01	2.93D+03
2790	5.7594D-07	3.5160D+00	8.3457D-01	2.98D+03
2800	5.7594D-07	3.5138D+00	8.3462D-01	3.03D+03
2810	5.7595D-07	3.5115D+00	8.3466D-01	3.09D+03
2820	5.7595D-07	3.5092D+00	8.3470D-01	3.14D+03
2830	5.7595D-07	3.5070D+00	8.3475D-01	3.19D+03
2840	5.7596D-07	3.5047D+00	8.3479D-01	3.24D+03
2850	5.7596D-07	3.5024D+00	8.3483D-01	3.30D+03
2860	5.7597D-07	3.5002D+00	8.3488D-01	3.35D+03
2870	5.7597D-07	3.4979D+00	8.3492D-01	3.41D+03
2880	5.7598D-07	3.4956D+00	8.3496D-01	3.46D+03

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (M**2/S)	CONDUCTIVITY (W/M-K)	EMISSIVITY	ELECCOND (1/OHM-M)
2890	5.7599D-07	3.4934D+00	8.3501D-01	3.52D+03
2900	5.7600D-07	3.4911D+00	8.3505D-01	3.58D+03
2910	5.7601D-07	3.4888D+00	8.3509D-01	3.63D+03
2920	5.7602D-07	3.4865D+00	8.3514D-01	3.69D+03
2930	5.7603D-07	3.4843D+00	8.3518D-01	3.75D+03
2940	5.7605D-07	3.4820D+00	8.3522D-01	3.81D+03
2950	5.7606D-07	3.4797D+00	8.3527D-01	3.87D+03
2960	5.7608D-07	3.4775D+00	8.3531D-01	3.92D+03
2970	5.7609D-07	3.4752D+00	8.3535D-01	3.98D+03
2980	5.7611D-07	3.4729D+00	8.3540D-01	4.05D+03
2990	5.7612D-07	3.4707D+00	8.3544D-01	4.11D+03
3000	5.7614D-07	3.4684D+00	8.3548D-01	4.17D+03
3010	5.7616D-07	3.4661D+00	8.3552D-01	4.23D+03
3020	5.7618D-07	3.4639D+00	8.3557D-01	4.29D+03
3030	5.7620D-07	3.4616D+00	8.3561D-01	4.36D+03
3040	5.7622D-07	3.4593D+00	8.3565D-01	4.42D+03
3050	5.7625D-07	3.4571D+00	8.3570D-01	4.48D+03
3060	5.7627D-07	3.4548D+00	8.3574D-01	4.55D+03
3070	5.7629D-07	3.4525D+00	8.3578D-01	4.61D+03
3080	5.7632D-07	3.4503D+00	8.3583D-01	4.68D+03
3090	5.7634D-07	3.4480D+00	8.3587D-01	4.74D+03
3100	5.7637D-07	3.4457D+00	8.3591D-01	4.81D+03
3110	5.7640D-07	3.4435D+00	8.3596D-01	4.88D+03
3120	5.7643D-07	3.4412D+00	8.3600D-01	4.95D+03

**THERMODYNAMIC PROPERTIES OF LIQUID UO_2
IN SI UNITS**

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/MCI-K)	CV (J/MOL-K)	P (MPA)	DH (J/MOL)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMAV (1/PA)
3120	3.7765D+05	1.3095D+02	1.0578D+02	5.5906D-03	5.2242D+05	8.8600D+03	1.0339D-04	3.2622D-11	4.0383D-11	2.5601D+06
3130	3.7896D+05	1.3095D+02	1.0580D+02	5.9619D-03	5.2195D+05	8.8508D+03	1.0349D-04	3.2859D-11	4.0670D-11	2.5447D+06
3140	3.8027D+05	1.3095D+02	1.0582D+02	6.3550D-03	5.2148D+05	8.8417D+03	1.0360D-04	3.3099D-11	4.0959D-11	2.5294D+06
3150	3.8158D+05	1.3095D+02	1.0584D+02	6.7708D-03	5.2101D+05	8.8325D+03	1.0371D-04	3.3341D-11	4.1250D-11	2.5141D+06
3160	3.8289D+05	1.3095D+02	1.0586D+02	7.2105D-03	5.2054D+05	8.8234D+03	1.0382D-04	3.3585D-11	4.1545D-11	2.4989D+06
3170	3.8420D+05	1.3095D+02	1.0588D+02	7.6754D-03	5.2008D+05	8.8142D+03	1.0392D-04	3.3832D-11	4.1842D-11	2.4837D+06
3180	3.8551D+05	1.3095D+02	1.0591D+02	8.1665D-03	5.1961D+05	8.8050D+03	1.0403D-04	3.4082D-11	4.2142D-11	2.4686D+06
3190	3.8682D+05	1.3095D+02	1.0593D+02	8.6851D-03	5.1914D+05	8.7959D+03	1.0414D-04	3.4334D-11	4.2445D-11	2.4535D+06
3200	3.8813D+05	1.3095D+02	1.0595D+02	9.2327D-03	5.1867D+05	8.7867D+03	1.0425D-04	3.4589D-11	4.2750D-11	2.4385D+06
3210	3.8944D+05	1.3095D+02	1.0597D+02	9.8105D-03	5.1820D+05	8.7776D+03	1.0436D-04	3.4846D-11	4.3059D-11	2.4236D+06
3220	3.9075D+05	1.3095D+02	1.0600D+02	1.0420D-02	5.1773D+05	8.7684D+03	1.0447D-04	3.5106D-11	4.3370D-11	2.4087D+06
3230	3.9206D+05	1.3095D+02	1.0602D+02	1.1063D-02	5.1726D+05	8.7592D+03	1.0458D-04	3.5369D-11	4.3685D-11	2.3939D+06
3240	3.9337D+05	1.3095D+02	1.0605D+02	1.1740D-02	5.1679D+05	8.7501D+03	1.0468D-04	3.5635D-11	4.4002D-11	2.3791D+06
3250	3.9468D+05	1.3095D+02	1.0607D+02	1.2453D-02	5.1632D+05	8.7409D+03	1.0479D-04	3.5903D-11	4.4323D-11	2.3643D+06
3260	3.9599D+05	1.3095D+02	1.0610D+02	1.3205D-02	5.1585D+05	8.7318D+03	1.0490D-04	3.6174D-11	4.4646D-11	2.3497D+06
3270	3.9730D+05	1.3095D+02	1.0613D+02	1.3996D-02	5.1539D+05	8.7226D+03	1.0501D-04	3.6448D-11	4.4973D-11	2.3350D+06
3280	3.9860D+05	1.3095D+02	1.0615D+02	1.4828D-02	5.1492D+05	8.7134D+03	1.0512D-04	3.6725D-11	4.5303D-11	2.3205D+06
3290	3.9991D+05	1.3095D+02	1.0618D+02	1.5703D-02	5.1445D+05	8.7043D+03	1.0524D-04	3.7005D-11	4.5636D-11	2.3060D+06
3300	4.0122D+05	1.3095D+02	1.0621D+02	1.6624D-02	5.1398D+05	8.6951D+03	1.0535D-04	3.7287D-11	4.5973D-11	2.2915D+06
3310	4.0253D+05	1.3095D+02	1.0624D+02	1.7591D-02	5.1351D+05	8.6860D+03	1.0546D-04	3.7573D-11	4.6312D-11	2.2771D+06
3320	4.0384D+05	1.3095D+02	1.0627D+02	1.8608D-02	5.1304D+05	8.6768D+03	1.0557D-04	3.7862D-11	4.6655D-11	2.2627D+06
3330	4.0515D+05	1.3095D+02	1.0630D+02	1.9675D-02	5.1257D+05	8.6676D+03	1.0568D-04	3.8154D-11	4.7002D-11	2.2484D+06
3340	4.0646D+05	1.3095D+02	1.0633D+02	2.0796D-02	5.1210D+05	8.6585D+03	1.0579D-04	3.8449D-11	4.7352D-11	2.2342D+06
3350	4.0777D+05	1.3095D+02	1.0636D+02	2.1973D-02	5.1163D+05	8.6493D+03	1.0590D-04	3.8747D-11	4.7705D-11	2.2200D+06
3360	4.0908D+05	1.3095D+02	1.0639D+02	2.3207D-02	5.1117D+05	8.6402D+03	1.0602D-04	3.9049D-11	4.8062D-11	2.2058D+06
3370	4.1039D+05	1.3095D+02	1.0643D+02	2.4501D-02	5.1070D+05	8.6310D+03	1.0613D-04	3.9353D-11	4.8422D-11	2.1918D+06

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/ECI-K)	CV (J/MOL-K)	P (MPA)	DH (J/MOL)	DENSITY (KG/M**3)	ALPHA P (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMA V (1/PA)
3380	4.1170D+05	1.3095D+02	1.0646D+02	2.5858D-02	5.1023D+05	8.6218D+03	1.0624D-04	3.9661D-11	4.8786D-11	2.1777D+06
3390	4.1301D+05	1.3095D+02	1.0649D+02	2.7280D-02	5.0976D+05	8.6127D+03	1.0635D-04	3.9973D-11	4.9154D-11	2.1637D+06
3400	4.1432D+05	1.3095D+02	1.0653D+02	2.8769D-02	5.0929D+05	8.6035D+03	1.0647D-04	4.0288D-11	4.9525D-11	2.1498D+06
3410	4.1563D+05	1.3095D+02	1.0655D+02	3.0329D-02	5.0882D+05	8.5944D+03	1.0658D-04	4.0581D-11	4.9875D-11	2.1370D+06
3420	4.1694D+05	1.3095D+02	1.0657D+02	3.1963D-02	5.0835D+05	8.5852D+03	1.0670D-04	4.0875D-11	5.0226D-11	2.1243D+06
3430	4.1825D+05	1.3095D+02	1.0659D+02	3.3672D-02	5.0788D+05	8.5760D+03	1.0681D-04	4.1171D-11	5.0579D-11	2.1117D+06
3440	4.1956D+05	1.3095D+02	1.0661D+02	3.5460D-02	5.0741D+05	8.5669D+03	1.0692D-04	4.1468D-11	5.0934D-11	2.0992D+06
3450	4.2087D+05	1.3095D+02	1.0663D+02	3.7330D-02	5.0694D+05	8.5577D+03	1.0704D-04	4.1767D-11	5.1291D-11	2.0869D+06
3460	4.2218D+05	1.3095D+02	1.0665D+02	3.9286D-02	5.0648D+05	8.5486D+03	1.0715D-04	4.2067D-11	5.1649D-11	2.0746D+06
3470	4.2349D+05	1.3095D+02	1.0667D+02	4.1329D-02	5.0601D+05	8.5394D+03	1.0727D-04	4.2368D-11	5.2010D-11	2.0625D+06
3480	4.2479D+05	1.3095D+02	1.0670D+02	4.3465D-02	5.0554D+05	8.5302D+03	1.0738D-04	4.2671D-11	5.2372D-11	2.0504D+06
3490	4.2610D+05	1.3095D+02	1.0672D+02	4.5695D-02	5.0507D+05	8.5211D+03	1.0750D-04	4.2976D-11	5.2735D-11	2.0384D+06
3500	4.2741D+05	1.3095D+02	1.0674D+02	4.8024D-02	5.0460D+05	8.5119D+03	1.0761D-04	4.3282D-11	5.3101D-11	2.0266D+06
3510	4.2872D+05	1.3095D+02	1.0675D+02	5.0455D-02	5.0413D+05	8.5028D+03	1.0773D-04	4.3589D-11	5.3469D-11	2.0148D+06
3520	4.3003D+05	1.3095D+02	1.0677D+02	5.2991D-02	5.0366D+05	8.4936D+03	1.0785D-04	4.3898D-11	5.3838D-11	2.0032D+06
3530	4.3134D+05	1.3095D+02	1.0679D+02	5.5637D-02	5.0319D+05	8.4844D+03	1.0796D-04	4.4209D-11	5.4209D-11	1.9916D+06
3540	4.3265D+05	1.3095D+02	1.0681D+02	5.8397D-02	5.0272D+05	8.4753D+03	1.0808D-04	4.4521D-11	5.4582D-11	1.9801D+06
3550	4.3396D+05	1.3095D+02	1.0683D+02	6.1274D-02	5.0226D+05	8.4661D+03	1.0820D-04	4.4835D-11	5.4957D-11	1.9687D+06
3560	4.3527D+05	1.3095D+02	1.0685D+02	6.4272D-02	5.0179D+05	8.4570D+03	1.0831D-04	4.5150D-11	5.5334D-11	1.9575D+06
3570	4.3658D+05	1.3095D+02	1.0687D+02	6.7397D-02	5.0132D+05	8.4478D+03	1.0843D-04	4.5467D-11	5.5712D-11	1.9463D+06
3580	4.3789D+05	1.3095D+02	1.0689D+02	7.0651D-02	5.0085D+05	8.4386D+03	1.0855D-04	4.5785D-11	5.6093D-11	1.9351D+06
3590	4.3920D+05	1.3095D+02	1.0690D+02	7.4039D-02	5.0038D+05	8.4295D+03	1.0867D-04	4.6105D-11	5.6476D-11	1.9241D+06
3600	4.4051D+05	1.3095D+02	1.0692D+02	7.7567D-02	4.9991D+05	8.4203D+03	1.0878D-04	4.6427D-11	5.6860D-11	1.9132D+06
3610	4.4182D+05	1.3095D+02	1.0694D+02	8.1238D-02	4.9944D+05	8.4112D+03	1.0890D-04	4.6750D-11	5.7247D-11	1.9023D+06
3620	4.4313D+05	1.3095D+02	1.0696D+02	8.5057D-02	4.9897D+05	8.4020D+03	1.0902D-04	4.7075D-11	5.7635D-11	1.8916D+06
3630	4.4444D+05	1.3095D+02	1.0697D+02	8.9030D-02	4.9850D+05	8.3928D+03	1.0914D-04	4.7402D-11	5.8026D-11	1.8809D+06

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CF (J/MOL-K)	CV (J/MOL-K)	P (MPa)	DH (J/MOL)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMAV (1/PA)
3640	4.4575D+05	1.3095D+02	1.0699D+02	9.3161D-02	4.9804D+05	8.3837D+03	1.0926D-04	4.7730D-11	5.8418D-11	1.8703D+06
3650	4.4706D+05	1.3095D+02	1.0701D+02	9.7455D-02	4.9757D+05	8.3745D+03	1.0938D-04	4.8060D-11	5.8813D-11	1.8598D+06
3660	4.4837D+05	1.3095D+02	1.0703D+02	1.0192D-01	4.9710D+05	8.3654D+03	1.0950D-04	4.8392D-11	5.9209D-11	1.8494D+06
3670	4.4968D+05	1.3095D+02	1.0704D+02	1.0655D-01	4.9663D+05	8.3562D+03	1.0962D-04	4.8725D-11	5.9608D-11	1.8390D+06
3680	4.5098D+05	1.3095D+02	1.0706D+02	1.1137D-01	4.9616D+05	8.3470D+03	1.0974D-04	4.9060D-11	6.0008D-11	1.8287D+06
3690	4.5229D+05	1.3095D+02	1.0707D+02	1.1637D-01	4.9569D+05	8.3379D+03	1.0986D-04	4.9397D-11	6.0411D-11	1.8185D+06
3700	4.5360D+05	1.3095D+02	1.0709D+02	1.2156D-01	4.9522D+05	8.3287D+03	1.0998D-04	4.9735D-11	6.0816D-11	1.8084D+06
3710	4.5491D+05	1.3095D+02	1.0711D+02	1.2695D-01	4.9475D+05	8.3196D+03	1.1010D-04	5.0076D-11	6.1223D-11	1.7984D+06
3720	4.5622D+05	1.3095D+02	1.0712D+02	1.3254D-01	4.9428D+05	8.3104D+03	1.1022D-04	5.0418D-11	6.1632D-11	1.7884D+06
3730	4.5753D+05	1.3095D+02	1.0714D+02	1.3834D-01	4.9381D+05	8.3012D+03	1.1034D-04	5.0762D-11	6.2043D-11	1.7785D+06
3740	4.5884D+05	1.3095D+02	1.0715D+02	1.4436D-01	4.9335D+05	8.2921D+03	1.1047D-04	5.1107D-11	6.2457D-11	1.7687D+06
3750	4.6015D+05	1.3095D+02	1.0717D+02	1.5059D-01	4.9288D+05	8.2829D+03	1.1059D-04	5.1455D-11	6.2872D-11	1.7589D+06
3760	4.6146D+05	1.3095D+02	1.0718D+02	1.5705D-01	4.9241D+05	8.2738D+03	1.1071D-04	5.1804D-11	6.3290D-11	1.7493D+06
3770	4.6277D+05	1.3095D+02	1.0720D+02	1.6375D-01	4.9194D+05	8.2646D+03	1.1083D-04	5.2155D-11	6.3710D-11	1.7397D+06
3780	4.6408D+05	1.3095D+02	1.0721D+02	1.7069D-01	4.9147D+05	8.2554D+03	1.1096D-04	5.2508D-11	6.4132D-11	1.7301D+06
3790	4.6539D+05	1.3095D+02	1.0723D+02	1.7788D-01	4.9100D+05	8.2463D+03	1.1108D-04	5.2863D-11	6.4557D-11	1.7207D+06
3800	4.6670D+05	1.3095D+02	1.0724D+02	1.8532D-01	4.9053D+05	8.2371D+03	1.1120D-04	5.3220D-11	6.4984D-11	1.7113D+06
3810	4.6801D+05	1.3095D+02	1.0726D+02	1.9302D-01	4.9006D+05	8.2280D+03	1.1133D-04	5.3578D-11	6.5413D-11	1.7019D+06
3820	4.6932D+05	1.3095D+02	1.0727D+02	2.0099D-01	4.8959D+05	8.2188D+03	1.1145D-04	5.3939D-11	6.5844D-11	1.6927D+06
3830	4.7063D+05	1.3095D+02	1.0729D+02	2.0924D-01	4.8913D+05	8.2096D+03	1.1158D-04	5.4301D-11	6.6278D-11	1.6835D+06
3840	4.7194D+05	1.3095D+02	1.0730D+02	2.1778D-01	4.8866D+05	8.2005D+03	1.1170D-04	5.4666D-11	6.6714D-11	1.6743D+06
3850	4.7325D+05	1.3095D+02	1.0732D+02	2.2661D-01	4.8819D+05	8.1913D+03	1.1183D-04	5.5032D-11	6.7152D-11	1.6653D+06
3860	4.7456D+05	1.3095D+02	1.0733D+02	2.3574D-01	4.8772D+05	8.1822D+03	1.1195D-04	5.5401D-11	6.7593D-11	1.6563D+06
3870	4.7587D+05	1.3095D+02	1.0734D+02	2.4517D-01	4.8725D+05	8.1730D+03	1.1208D-04	5.5771D-11	6.8036D-11	1.6473D+06
3880	4.7717D+05	1.3095D+02	1.0736D+02	2.5492D-01	4.8678D+05	8.1638D+03	1.1220D-04	5.6143D-11	6.8481D-11	1.6384D+06
3890	4.7848D+05	1.3095D+02	1.0737D+02	2.6500D-01	4.8631D+05	8.1547D+03	1.1233D-04	5.6518D-11	6.8929D-11	1.6296D+06

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/MOL-K)	CV (J/MOL-K)	P (MPa)	CH (J/MOL)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMAV (1/PA)
3900	4.7979E+05	1.3095D+02	1.0738D+02	2.7541D-01	4.8584D+05	8.1455D+03	1.1245D-04	5.6894D-11	6.9380D-11	1.6209D+06
3910	4.8110D+05	1.3095D+02	1.0740D+02	2.6617E-01	4.8537D+05	8.1364D+03	1.1258D-04	5.7273D-11	6.9833D-11	1.6122D+06
3920	4.8241D+05	1.3095D+02	1.0741D+02	2.5727E-01	4.8491D+05	8.1272D+03	1.1271D-04	5.7653D-11	7.0288D-11	1.6035D+06
3930	4.8372D+05	1.3095D+02	1.0742D+02	3.0873D-01	4.8444D+05	8.1180D+03	1.1284D-04	5.8036D-11	7.0746D-11	1.5949D+06
3940	4.8503D+05	1.3095D+02	1.0744D+02	3.2057D-01	4.8397D+05	8.1089D+03	1.1296D-04	5.8421D-11	7.1206D-11	1.5864D+06
3950	4.8634D+05	1.3095D+02	1.0745D+02	3.3278D-01	4.8350D+05	8.0997D+03	1.1309D-04	5.8808D-11	7.1669D-11	1.5779D+06
3960	4.8765D+05	1.3095D+02	1.0746D+02	3.4538D-01	4.8303D+05	8.0906D+03	1.1322D-04	5.9197D-11	7.2135D-11	1.5695D+06
3970	4.8896D+05	1.3095D+02	1.0748D+02	3.5837D-01	4.8256D+05	8.0814D+03	1.1335D-04	5.9588D-11	7.2603D-11	1.5612D+06
3980	4.9027D+05	1.3095D+02	1.0749D+02	3.7177D-01	4.8209D+05	8.0722D+03	1.1348D-04	5.9982D-11	7.3074D-11	1.5529D+06
3990	4.9158D+05	1.3095D+02	1.0750D+02	3.8559D-01	4.8162D+05	8.0631D+03	1.1360D-04	6.0377D-11	7.3547D-11	1.5447D+06
4000	4.9289D+05	1.3095D+02	1.0751D+02	3.9984D-01	4.8115D+05	8.0539D+03	1.1373D-04	6.0775D-11	7.4023D-11	1.5365D+06
4010	4.9420E+05	1.3095D+02	1.0753D+02	4.1452D-01	4.8068D+05	8.0448D+03	1.1386D-04	6.1176D-11	7.4502D-11	1.5283D+06
4020	4.9551D+05	1.3095D+02	1.0754D+02	4.2965D-01	4.8022D+05	8.0356D+03	1.1399D-04	6.1578D-11	7.4983D-11	1.5202D+06
4030	4.9682E+05	1.3095D+02	1.0755D+02	4.4523D-01	4.7975D+05	8.0264D+03	1.1412D-04	6.1983D-11	7.5467D-11	1.5122D+06
4040	4.9813E+05	1.3095D+02	1.0756D+02	4.6129D-01	4.7928D+05	8.0173D+03	1.1425D-04	6.2390D-11	7.5954D-11	1.5042D+06
4050	4.9944D+05	1.3095D+02	1.0758D+02	4.7782D-01	4.7881D+05	8.0081D+03	1.1438D-04	6.2799D-11	7.6443D-11	1.4963D+06
4060	5.0075D+05	1.3095D+02	1.0759D+02	4.9484D-01	4.7834D+05	7.9990D+03	1.1451D-04	6.3210D-11	7.6936D-11	1.4884D+06
4070	5.0206D+05	1.3095D+02	1.0760D+02	5.1236D-01	4.7787D+05	7.9899D+03	1.1465D-04	6.3624D-11	7.7431D-11	1.4806D+06
4080	5.0336D+05	1.3095D+02	1.0761D+02	5.3040D-01	4.7740D+05	7.9806D+03	1.1478D-04	6.4041D-11	7.7929D-11	1.4729D+06
4090	5.0467D+05	1.3095D+02	1.0762D+02	5.4896D-01	4.7693D+05	7.9715D+03	1.1491D-04	6.4460D-11	7.8430D-11	1.4651D+06
4100	5.0598D+05	1.3095D+02	1.0764D+02	5.6805D-01	4.7646D+05	7.9623D+03	1.1504D-04	6.4881D-11	7.8934D-11	1.4575D+06
4110	5.0729D+05	1.3095D+02	1.0765D+02	5.8769D-01	4.7600D+05	7.9532D+03	1.1517D-04	6.5304D-11	7.9440D-11	1.4498D+06
4120	5.0860D+05	1.3095D+02	1.0766D+02	6.0789D-01	4.7553D+05	7.9440D+03	1.1531D-04	6.5731D-11	7.9950D-11	1.4422D+06
4130	5.0991D+05	1.3095D+02	1.0767D+02	6.2866D-01	4.7506D+05	7.9348D+03	1.1544D-04	6.6159D-11	8.0462D-11	1.4347D+06
4140	5.1122D+05	1.3095D+02	1.0768D+02	6.5001D-01	4.7459D+05	7.9257D+03	1.1557D-04	6.6590D-11	8.0978D-11	1.4272D+06
4150	5.1253D+05	1.3095D+02	1.0770D+02	6.7196D-01	4.7412D+05	7.9165D+03	1.1571D-04	6.7024D-11	8.1496D-11	1.4198D+06

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CF (J/MOL-K)	CV (J/MOL-K)	P (MPa)	DH (J/MOL)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMAV (1/PA)
4160	5.1384D+05	1.3095D+02	1.0771E+02	6.9451D-01	4.7365D+05	7.9074D+03	1.1584D-04	6.7460D-11	8.2018D-11	1.4124D+06
4170	5.1515D+05	1.3095D+02	1.0772D+02	7.1768E-01	4.7318D+05	7.8982D+03	1.1598D-04	6.7899D-11	8.2542D-11	1.4050D+06
4180	5.1646D+05	1.3095D+02	1.0773D+02	7.4149E-01	4.7271D+05	7.8890D+03	1.1611D-04	6.8340D-11	8.3070D-11	1.3977D+06
4190	5.1777D+05	1.3095D+02	1.0774D+02	7.6594D-01	4.7224D+05	7.8799D+03	1.1625D-04	6.8784D-11	8.3601D-11	1.3905D+06
4200	5.1908D+05	1.3095D+02	1.0775D+02	7.9106D-01	4.7178D+05	7.8707D+03	1.1638D-04	6.9231D-11	8.4135D-11	1.3833D+06
4210	5.2039D+05	1.3095D+02	1.0776D+02	8.1684E-01	4.7131D+05	7.8616D+03	1.1652D-04	6.9680D-11	8.4672D-11	1.3761D+06
4220	5.2170D+05	1.3095D+02	1.0778D+02	8.4331D-01	4.7084D+05	7.8524D+03	1.1665D-04	7.0132D-11	8.5212D-11	1.3690D+06
4230	5.2301D+05	1.3095D+02	1.0779D+02	8.7048D-01	4.7037D+05	7.8432D+03	1.1679D-04	7.0587D-11	8.5755D-11	1.3619D+06
4240	5.2432D+05	1.3095D+02	1.0780D+02	8.9836D-01	4.6990D+05	7.8341D+03	1.1693D-04	7.1044D-11	8.6302D-11	1.3548D+06
4250	5.2563D+05	1.3095D+02	1.0781D+02	9.2696D-01	4.6943D+05	7.8249D+03	1.1706D-04	7.1504D-11	8.6852D-11	1.3478D+06
4260	5.2694D+05	1.3095D+02	1.0782D+02	9.5631D-01	4.6896D+05	7.8158D+03	1.1720D-04	7.1967D-11	8.7405D-11	1.3409D+06
4270	5.2825D+05	1.3095D+02	1.0783D+02	9.8641D-01	4.6849D+05	7.8066D+03	1.1734D-04	7.2433D-11	8.7962D-11	1.3340D+06
4280	5.2955E+05	1.3095D+02	1.0784D+02	1.0173D+00	4.6802D+05	7.7974D+03	1.1747D-04	7.2901D-11	8.8522D-11	1.3271D+06
4290	5.3086E+05	1.3095D+02	1.0785D+02	1.0489D+00	4.6755D+05	7.7883D+03	1.1761D-04	7.3373D-11	8.9085D-11	1.3202D+06
4300	5.3217E+05	1.3095D+02	1.0787D+02	1.0814D+00	4.6709D+05	7.7791D+03	1.1775D-04	7.3847D-11	8.9651D-11	1.3134D+06
4310	5.3348E+05	1.3095D+02	1.0788D+02	1.1147D+00	4.6662D+05	7.7700D+03	1.1789D-04	7.4325D-11	9.0222D-11	1.3067D+06
4320	5.3479D+05	1.3095D+02	1.0789D+02	1.1487D+00	4.6615D+05	7.7608D+03	1.1803D-04	7.4805D-11	9.0795D-11	1.2999D+06
4330	5.3610D+05	1.3095D+02	1.0790D+02	1.1837D+00	4.6568D+05	7.7516D+03	1.1817D-04	7.5288D-11	9.1372D-11	1.2933D+06
4340	5.3741D+05	1.3095D+02	1.0791D+02	1.2195D+00	4.6521D+05	7.7425E+03	1.1831D-04	7.5774D-11	9.1953D-11	1.2866D+06
4350	5.3872D+05	1.3095D+02	1.0792D+02	1.2561D+00	4.6474D+05	7.7333D+03	1.1845D-04	7.6263D-11	9.2537D-11	1.2800D+06
4360	5.4003D+05	1.3095D+02	1.0793D+02	1.2937D+00	4.6427D+05	7.7242D+03	1.1859D-04	7.6756D-11	9.3125D-11	1.2734D+06
4370	5.4134D+05	1.3095D+02	1.0794D+02	1.3321D+00	4.6380D+05	7.7150D+03	1.1873D-04	7.7251D-11	9.3716D-11	1.2669D+06
4380	5.4265D+05	1.3095D+02	1.0795D+02	1.3715D+00	4.6333D+05	7.7058D+03	1.1887D-04	7.7750D-11	9.4312D-11	1.2604D+06
4390	5.4396D+05	1.3095D+02	1.0797D+02	1.4118D+00	4.6287D+05	7.6967D+03	1.1901D-04	7.8251D-11	9.4910D-11	1.2539D+06
4400	5.4527E+05	1.3095D+02	1.0798D+02	1.4531D+00	4.6240D+05	7.6875D+03	1.1915D-04	7.8756D-11	9.5513D-11	1.2475D+06
4410	5.4658D+05	1.3095D+02	1.0799D+02	1.4953D+00	4.6193D+05	7.6784D+03	1.1930D-04	7.9264D-11	9.6119D-11	1.2411D+06

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/MOL-K)	CV (J/MOL-K)	P (MPA)	EH (J/MOL)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAI (1/PA)	GAMMAV (1/PA)
4420	5.4789D+05	1.3095D+02	1.0800D+02	1.5385D+00	4.6146D+05	7.6692D+03	1.1944D-04	7.9775D-11	9.6729D-11	1.2348D+06
4430	5.4520D+05	1.3095D+02	1.0801D+02	1.5827D+00	4.6099D+05	7.6600D+03	1.1958D-04	8.0290D-11	9.7343D-11	1.2285D+06
4440	5.5051D+05	1.3095D+02	1.0802D+02	1.6280D+00	4.6052D+05	7.6509D+03	1.1972D-04	8.0808D-11	9.7961D-11	1.2222D+06
4450	5.5182D+05	1.3095D+02	1.0803D+02	1.6742D+00	4.6005D+05	7.6417D+03	1.1987D-04	8.1329D-11	9.8583D-11	1.2159D+06
4460	5.5313D+05	1.3095D+02	1.0804D+02	1.7215D+00	4.5958D+05	7.6326D+03	1.2001D-04	8.1853D-11	9.9208D-11	1.2097D+06
4470	5.5444D+05	1.3095D+02	1.0805D+02	1.7699D+00	4.5911D+05	7.6234D+03	1.2016D-04	8.2381D-11	9.9838D-11	1.2035D+06
4480	5.5574D+05	1.3095D+02	1.0806D+02	1.8194D+00	4.5865D+05	7.6142D+03	1.2030D-04	8.2913D-11	1.0047D-10	1.1974D+06
4490	5.5705D+05	1.3095D+02	1.0808D+02	1.8699D+00	4.5818D+05	7.6051D+03	1.2045D-04	8.3448D-11	1.0111D-10	1.1912D+06
4500	5.5836D+05	1.3095D+02	1.0809D+02	1.9216D+00	4.5771D+05	7.5959D+03	1.2059D-04	8.3986D-11	1.0175D-10	1.1852D+06
4510	5.5967D+05	1.3095D+02	1.0810D+02	1.9744D+00	4.5724D+05	7.5868D+03	1.2074D-04	8.4528D-11	1.0240D-10	1.1791D+06
4520	5.6098D+05	1.3095D+02	1.0811D+02	2.0284D+00	4.5677D+05	7.5776D+03	1.2088D-04	8.5073D-11	1.0305D-10	1.1731D+06
4530	5.6229D+05	1.3095D+02	1.0812D+02	2.0835D+00	4.5630D+05	7.5684D+03	1.2103D-04	8.5622D-11	1.0370D-10	1.1671D+06
4540	5.6360D+05	1.3095D+02	1.0813D+02	2.1398D+00	4.5583D+05	7.5593D+03	1.2118D-04	8.6175D-11	1.0436D-10	1.1611D+06
4550	5.6491D+05	1.3095D+02	1.0814D+02	2.1973D+00	4.5536D+05	7.5501D+03	1.2132D-04	8.6731D-11	1.0502D-10	1.1552D+06
4560	5.6622D+05	1.3095D+02	1.0815D+02	2.2561D+00	4.5489D+05	7.5410D+03	1.2147D-04	8.7291D-11	1.0569D-10	1.1493D+06
4570	5.6753D+05	1.3095D+02	1.0817D+02	2.3160D+00	4.5442D+05	7.5318D+03	1.2162D-04	8.7855D-11	1.0636D-10	1.1434D+06
4580	5.6884D+05	1.3095D+02	1.0818D+02	2.3773D+00	4.5396D+05	7.5226D+03	1.2177D-04	8.8422D-11	1.0704D-10	1.1376D+06
4590	5.7015D+05	1.3095D+02	1.0819D+02	2.4398D+00	4.5349D+05	7.5135D+03	1.2191D-04	8.8994D-11	1.0772D-10	1.1318D+06
4600	5.7146D+05	1.3095D+02	1.0820D+02	2.5036D+00	4.5302D+05	7.5043D+03	1.2206D-04	8.9569D-11	1.0840D-10	1.1260D+06
4610	5.7277D+05	1.3095D+02	1.0821D+02	2.5687D+00	4.5255D+05	7.4952D+03	1.2221D-04	9.0148D-11	1.0909D-10	1.1203D+06
4620	5.7408D+05	1.3095D+02	1.0822D+02	2.6352D+00	4.5208D+05	7.4860D+03	1.2236D-04	9.0731D-11	1.0979D-10	1.1146D+06
4630	5.7539D+05	1.3095D+02	1.0823D+02	2.7030D+00	4.5161D+05	7.4768D+03	1.2251D-04	9.1318D-11	1.1048D-10	1.1089D+06
4640	5.7670D+05	1.3095D+02	1.0825D+02	2.7722D+00	4.5114D+05	7.4677D+03	1.2266D-04	9.1909D-11	1.1119D-10	1.1032D+06
4650	5.7801D+05	1.3095D+02	1.0826D+02	2.8427D+00	4.5067D+05	7.4585D+03	1.2281D-04	9.2504D-11	1.1189D-10	1.0976D+06
4660	5.7932D+05	1.3095D+02	1.0827D+02	2.9147D+00	4.5020D+05	7.4494D+03	1.2296D-04	9.3104D-11	1.1261D-10	1.0920D+06
4670	5.8063D+05	1.3095D+02	1.0828D+02	2.9881D+00	4.4974D+05	7.4402D+03	1.2311D-04	9.3707D-11	1.1333D-10	1.0864D+06

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/ECI-K)	CV (J/MOL-K)	P (MPA)	DH (J/MOL)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETA1 (1/PA)	GAMMAV (1/PA)
466C	5.8193E+05	1.3095D+02	1.0829D+02	3.0629D+00	4.4927D+05	7.4310D+03	1.2327D-04	9.4315D-11	1.1405D-10	1.0808D+06
4690	5.8324E+05	1.3095D+02	1.0830D+02	3.1392D+00	4.4880D+05	7.4219D+03	1.2342D-04	9.4926D-11	1.1477D-10	1.0753D+06
4700	5.8455D+05	1.3095D+02	1.0832D+02	3.2170D+00	4.4833D+05	7.4127D+03	1.2357D-04	9.5542D-11	1.1551D-10	1.0698D+06
4710	5.8586E+05	1.3095D+02	1.0833D+02	3.2963D+00	4.4786D+05	7.4036D+03	1.2372D-04	9.6163D-11	1.1624D-10	1.0643D+06
4720	5.8717D+05	1.3095D+02	1.0834D+02	3.3771D+00	4.4739D+05	7.3944D+03	1.2388D-04	9.6788D-11	1.1699D-10	1.0589D+06
4730	5.8848D+05	1.3095D+02	1.0835D+02	3.4594D+00	4.4692D+05	7.3852D+03	1.2403D-04	9.7417D-11	1.1773D-10	1.0535D+06
4740	5.8979D+05	1.3095D+02	1.0836D+02	3.5433D+00	4.4645D+05	7.3761D+03	1.2419D-04	9.8050D-11	1.1849D-10	1.0481D+06
4750	5.9110D+05	1.3095D+02	1.0836D+02	3.6288D+00	4.4598D+05	7.3669D+03	1.2434D-04	9.8689D-11	1.1924D-10	1.0427D+06
4760	5.9241D+05	1.3095D+02	1.0839D+02	3.7159D+00	4.4551D+05	7.3578D+03	1.2449D-04	9.9331D-11	1.2001D-10	1.0374D+06
4770	5.9372D+05	1.3095D+02	1.0840D+02	3.8046D+00	4.4505D+05	7.3486D+03	1.2465D-04	9.9979D-11	1.2076D-10	1.0321D+06
4780	5.9503D+05	1.3095D+02	1.0841D+02	3.8949D+00	4.4458D+05	7.3394D+03	1.2481D-04	1.0063D-10	1.2155D-10	1.0268D+06
4790	5.9634D+05	1.3095D+02	1.0843D+02	3.9869D+00	4.4411D+05	7.3303D+03	1.2496D-04	1.0129D-10	1.2233D-10	1.0215D+06
4800	5.9765E+05	1.3095D+02	1.0844D+02	4.0805D+00	4.4364D+05	7.3211D+03	1.2512D-04	1.0195D-10	1.2311D-10	1.0163D+06
4810	5.9896D+05	1.3095D+02	1.0845D+02	4.1759D+00	4.4317D+05	7.3120D+03	1.2527D-04	1.0261D-10	1.2390D-10	1.0111D+06
4820	6.0027D+05	1.3095D+02	1.0846E+02	4.2729D+00	4.4270D+05	7.3028D+03	1.2543D-04	1.0329D-10	1.2470D-10	1.0059D+06
483C	6.0158D+05	1.3095D+02	1.0848D+02	4.3717D+00	4.4223D+05	7.2936D+03	1.2559D-04	1.0396D-10	1.2550D-10	1.0007D+06
484C	6.0289E+05	1.3095D+02	1.0849D+02	4.4723E+00	4.4176D+05	7.2845D+03	1.2575D-04	1.0464D-10	1.2631D-10	9.9556D+05
485C	6.0420D+05	1.3095D+02	1.0850D+02	4.5746E+00	4.4129D+05	7.2753D+03	1.2591D-04	1.0533D-10	1.2712D-10	9.9044D+05
486C	6.0551D+05	1.3095D+02	1.0852D+02	4.6787D+00	4.4083D+05	7.2662D+03	1.2606D-04	1.0602D-10	1.2794D-10	9.8534D+05
487C	6.0682D+05	1.3095D+02	1.0853D+02	4.7847E+00	4.4036D+05	7.2570D+03	1.2622D-04	1.0672D-10	1.2876D-10	9.8027D+05
488C	6.0812D+05	1.3095D+02	1.0854D+02	4.8924D+00	4.3989D+05	7.2478D+03	1.2638D-04	1.0742D-10	1.2959E-10	9.7522D+05
489C	6.0943D+05	1.3095D+02	1.0855D+02	5.0021D+00	4.3942D+05	7.2387D+03	1.2654D-04	1.0812D-10	1.3043E-10	9.7019D+05
490C	6.1074D+05	1.3095D+02	1.0857D+02	5.1136D+00	4.3895D+05	7.2295D+03	1.2670D-04	1.0884D-10	1.3127D-10	9.6518D+05
4910	6.1205D+05	1.3095D+02	1.0858D+02	5.2269D+00	4.3848D+05	7.2204D+03	1.2686D-04	1.0955D-10	1.3212D-10	9.6020D+05
4920	6.1336D+05	1.3095D+02	1.0860D+02	5.3422D+00	4.3801D+05	7.2112D+03	1.2702D-04	1.1026D-10	1.3298D-10	9.5523D+05
493C	6.1467D+05	1.3095D+02	1.0861D+02	5.4595D+00	4.3754D+05	7.2020D+03	1.2719D-04	1.1101D-10	1.3384D-10	9.5029D+05

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/ECI-K)	CV (J/MOL-K)	P (MPA)	DH (J/MOL)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMAV (1/PA)
4940	6.1598D+05	1.3095D+02	1.0862D+02	5.5787D+00	4.3707D+05	7.1929D+03	1.2735D-04	1.1174D-10	1.3471D-10	9.4537D+05
4950	6.1729D+05	1.3095D+02	1.0864D+02	5.6998D+00	4.3661D+05	7.1837D+03	1.2751D-04	1.1248D-10	1.3558D-10	9.4048D+05
4960	6.1860D+05	1.3095D+02	1.0865D+02	5.8230D+00	4.3614D+05	7.1746D+03	1.2767D-04	1.1322D-10	1.3646D-10	9.3560D+05
4970	6.1991D+05	1.3095D+02	1.0866D+02	5.9481D+00	4.3567D+05	7.1654D+03	1.2784D-04	1.1397D-10	1.3735D-10	9.3074D+05
4980	6.2122D+05	1.3095D+02	1.0868D+02	6.0753D+00	4.3520D+05	7.1562D+03	1.2800D-04	1.1473D-10	1.3824D-10	9.2591D+05
4990	6.2253D+05	1.3095D+02	1.0869D+02	6.2046D+00	4.3473D+05	7.1471D+03	1.2816D-04	1.1549D-10	1.3914D-10	9.2110D+05
5000	6.2384D+05	1.3095D+02	1.0871D+02	6.3359D+00	4.3426D+05	7.1379D+03	1.2833D-04	1.1626D-10	1.4005D-10	9.1630D+05
5010	6.2515D+05	1.3095D+02	1.0872D+02	6.4693D+00	4.3379D+05	7.1288D+03	1.2849D-04	1.1704D-10	1.4096D-10	9.1153D+05
5020	6.2646D+05	1.3095D+02	1.0874D+02	6.6049D+00	4.3332D+05	7.1196D+03	1.2866D-04	1.1782D-10	1.4189D-10	9.0678D+05
5030	6.2777D+05	1.3095D+02	1.0875D+02	6.7425D+00	4.3285D+05	7.1104D+03	1.2882D-04	1.1861D-10	1.4281D-10	9.0204D+05
5040	6.2908D+05	1.3095D+02	1.0877D+02	6.8823D+00	4.3238D+05	7.1013D+03	1.2899D-04	1.1940D-10	1.4375D-10	8.9733D+05
5050	6.3039D+05	1.3095D+02	1.0878D+02	7.0243D+00	4.3192D+05	7.0921D+03	1.2916D-04	1.2020D-10	1.4469D-10	8.9264D+05
5060	6.3170D+05	1.3095D+02	1.0880D+02	7.1685D+00	4.3145D+05	7.0830D+03	1.2932D-04	1.2100D-10	1.4564D-10	8.8796D+05
5070	6.3301D+05	1.3095D+02	1.0881D+02	7.3149D+00	4.3098D+05	7.0738D+03	1.2949D-04	1.2182D-10	1.4660D-10	8.8331D+05
5080	6.3431D+05	1.3095D+02	1.0883D+02	7.4635D+00	4.3051D+05	7.0646D+03	1.2966D-04	1.2264D-10	1.4756D-10	8.7867D+05
5090	6.3562D+05	1.3095D+02	1.0884D+02	7.6144D+00	4.3004D+05	7.0555D+03	1.2983D-04	1.2346D-10	1.4854D-10	8.7406D+05
5100	6.3693D+05	1.3095D+02	1.0886D+02	7.7676D+00	4.2957D+05	7.0463D+03	1.3000D-04	1.2429D-10	1.4951D-10	8.6946D+05
5110	6.3824D+05	1.3095D+02	1.0888D+02	7.9230D+00	4.2910D+05	7.0372D+03	1.3017D-04	1.2513D-10	1.5050D-10	8.6488D+05
5120	6.3955D+05	1.3095D+02	1.0889D+02	8.0808D+00	4.2863D+05	7.0280D+03	1.3034D-04	1.2598D-10	1.5150D-10	8.6032D+05
5130	6.4086D+05	1.3095D+02	1.0891D+02	8.2408D+00	4.2816D+05	7.0188D+03	1.3051D-04	1.2683D-10	1.5250D-10	8.5578D+05
5140	6.4217D+05	1.3095D+02	1.0892D+02	8.4033D+00	4.2770D+05	7.0097D+03	1.3068D-04	1.2769D-10	1.5351D-10	8.5125D+05
5150	6.4348D+05	1.3095D+02	1.0894D+02	8.5681D+00	4.2723D+05	7.0005D+03	1.3085D-04	1.2856D-10	1.5453D-10	8.4674D+05
5160	6.4479D+05	1.3095D+02	1.0896D+02	8.7353D+00	4.2676D+05	6.9914D+03	1.3102D-04	1.2943D-10	1.5556D-10	8.4226D+05
5170	6.4610D+05	1.3095D+02	1.0897D+02	8.9049D+00	4.2629D+05	6.9822D+03	1.3119D-04	1.3031D-10	1.5659D-10	8.3778D+05
5180	6.4741D+05	1.3095D+02	1.0899D+02	9.0769D+00	4.2582D+05	6.9730D+03	1.3136D-04	1.3120D-10	1.5764D-10	8.3333D+05
5190	6.4872D+05	1.3095D+02	1.0901D+02	9.2514D+00	4.2535D+05	6.9639D+03	1.3154D-04	1.3210D-10	1.5869D-10	8.2889D+05

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/EGI-K)	CV (J/MOL-K)	P (MPA)	DH (J/MOL)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMHAY (1/PA)
5200	6.5003E+05	1.3095D+02	1.0903D+02	9.4283D+00	4.2488D+05	6.9547D+03	1.3171D-04	1.3300D-10	1.5975D-10	8.2447D+05
5210	6.5134E+05	1.3095D+02	1.0904D+02	9.6077D+00	4.2441D+05	6.9456D+03	1.3188D-04	1.3392D-10	1.6082D-10	8.2007D+05
5220	6.5265E+05	1.3095D+02	1.0906D+02	9.7897D+00	4.2394D+05	6.9364D+03	1.3206D-04	1.3483D-10	1.6190D-10	8.1569D+05
5230	6.5396D+05	1.3095D+02	1.0908D+02	9.9741D+00	4.2348D+05	6.9272D+03	1.3223D-04	1.3576D-10	1.6298D-10	8.1132D+05
5240	6.5527E+05	1.3095D+02	1.0910D+02	1.0161D+01	4.2301D+05	6.9181D+03	1.3241D-04	1.3670D-10	1.6408D-10	8.0696D+05
5250	6.5658D+05	1.3095D+02	1.0911D+02	1.0351D+01	4.2254D+05	6.9089E+03	1.3258D-04	1.3764D-10	1.6519D-10	8.0263D+05
5260	6.5789D+05	1.3095D+02	1.0913D+02	1.0543D+01	4.2207D+05	6.8998D+03	1.3276D-04	1.3859D-10	1.6630D-10	7.9831D+05
5270	6.5920D+05	1.3095D+02	1.0915D+02	1.0738D+01	4.2160D+05	6.8906D+03	1.3293D-04	1.3955D-10	1.6742D-10	7.9400D+05
5280	6.6050D+05	1.3095D+02	1.0917D+02	1.0935D+01	4.2113D+05	6.8814D+03	1.3311D-04	1.4052D-10	1.6856D-10	7.8972D+05
5290	6.6181D+05	1.3095D+02	1.0919D+02	1.1135D+01	4.2066D+05	6.8723D+03	1.3329D-04	1.4150D-10	1.6970D-10	7.8545D+05
5300	6.6312D+05	1.3095D+02	1.0921D+02	1.1338D+01	4.2019D+05	6.8631D+03	1.3347D-04	1.4248D-10	1.7085D-10	7.8119D+05
5310	6.6443D+05	1.3095D+02	1.0923D+02	1.1543D+01	4.1972D+05	6.8540D+03	1.3365D-04	1.4348D-10	1.7201D-10	7.7695D+05
5320	6.6574D+05	1.3095D+02	1.0925D+02	1.1751D+01	4.1925D+05	6.8448D+03	1.3382D-04	1.4448D-10	1.7319D-10	7.7272D+05
5330	6.6705D+05	1.3095D+02	1.0927D+02	1.1962D+01	4.1875D+05	6.8356D+03	1.3400D-04	1.4549D-10	1.7437D-10	7.6851D+05
5340	6.6836D+05	1.3095D+02	1.0929D+02	1.2175D+01	4.1832D+05	6.8265D+03	1.3418D-04	1.4652D-10	1.7556D-10	7.6432D+05
5350	6.6967D+05	1.3095D+02	1.0931D+02	1.2391D+01	4.1785D+05	6.8173D+03	1.3436D-04	1.4755D-10	1.7676D-10	7.6014D+05
5360	6.7098E+05	1.3095D+02	1.0933D+02	1.2610E+01	4.1738D+05	6.8082D+03	1.3454D-04	1.4859D-10	1.7798D-10	7.5597D+05
5370	6.7229D+05	1.3095D+02	1.0935D+02	1.2832E+01	4.1691D+05	6.7990D+03	1.3473D-04	1.4964D-10	1.7920D-10	7.5182D+05
5380	6.7360D+05	1.3095D+02	1.0937D+02	1.3056D+01	4.1644D+05	6.7898D+03	1.3491D-04	1.5070D-10	1.8043D-10	7.4769D+05
5390	6.7491D+05	1.3095D+02	1.0939D+02	1.3284D+01	4.1597D+05	6.7807D+03	1.3509D-04	1.5176D-10	1.8168D-10	7.4357D+05
5400	6.7622D+05	1.3095D+02	1.0941D+02	1.3514D+01	4.1550D+05	6.7715D+03	1.3527D-04	1.5284D-10	1.8293D-10	7.3946D+05
5410	6.7753D+05	1.3095D+02	1.0943D+02	1.3747D+01	4.1503D+05	6.7624E+03	1.3546D-04	1.5393D-10	1.8420D-10	7.3537D+05
5420	6.7884D+05	1.3095D+02	1.0945D+02	1.3983D+01	4.1457D+05	6.7532D+03	1.3564D-04	1.5503D-10	1.8548D-10	7.3129D+05
5430	6.8015D+05	1.3095D+02	1.0947D+02	1.4222D+01	4.1410D+05	6.7440D+03	1.3582D-04	1.5614D-10	1.8677D-10	7.2722D+05
5440	6.8146D+05	1.3095D+02	1.0950D+02	1.4463D+01	4.1363D+05	6.7349D+03	1.3601D-04	1.5726D-10	1.8807D-10	7.2317D+05
5450	6.8277D+05	1.3095D+02	1.0952D+02	1.4708D+01	4.1316D+05	6.7257D+03	1.3619D-04	1.5839D-10	1.8939E-10	7.1914D+05

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CP (J/ECI-K)	CV (J/MOL-K)	P (MPA)	LH (J/MOL)	DENSITY (KG/M**3)	ALPHA P (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMA V (1/PA)
5460	6.6408D+05	1.3095D+02	1.0954D+02	1.4955D+01	4.1269D+05	6.7166D+03	1.3638D-04	1.5953D-10	1.9071D-10	7.1511D+05
5470	6.6539E+05	1.3095D+02	1.0956D+02	1.5206D+01	4.1222D+05	6.7074D+03	1.3657D-04	1.6068D-10	1.9205D-10	7.1110D+05
5480	6.6669E+05	1.3095D+02	1.0959D+02	1.5459D+01	4.1175D+05	6.6982D+03	1.3675D-04	1.6185D-10	1.9340D-10	7.0710D+05
5490	6.6800D+05	1.3095D+02	1.0961D+02	1.5716D+01	4.1128D+05	6.6891D+03	1.3694D-04	1.6302D-10	1.9476D-10	7.0312D+05
5500	6.6931D+05	1.3095D+02	1.0963D+02	1.5975D+01	4.1081D+05	6.6799D+03	1.3713D-04	1.6421D-10	1.9613D-10	6.9915D+05
5510	6.7062D+05	1.3095D+02	1.0966D+02	1.6238D+01	4.1035D+05	6.6708E+03	1.3732D-04	1.6541D-10	1.9752D-10	6.9519D+05
5520	6.7193D+05	1.3095D+02	1.0968D+02	1.6503D+01	4.0988D+05	6.6616D+03	1.3750D-04	1.6662D-10	1.9892D-10	6.9125D+05
5530	6.7324D+05	1.3095D+02	1.0971D+02	1.6772D+01	4.0941D+05	6.6524D+03	1.3769D-04	1.6784D-10	2.0034D-10	6.8731D+05
5540	6.7455D+05	1.3095D+02	1.0973D+02	1.7043D+01	4.0894D+05	6.6433D+03	1.3788D-04	1.6907D-10	2.0176D-10	6.8340D+05
5550	6.7586D+05	1.3095D+02	1.0976D+02	1.7318D+01	4.0847D+05	6.6341D+03	1.3807D-04	1.7031D-10	2.0320D-10	6.7949D+05
5560	6.7717D+05	1.3095D+02	1.0978D+02	1.7596D+01	4.0800D+05	6.6250D+03	1.3826D-04	1.7157D-10	2.0466D-10	6.7559D+05
5570	6.7848D+05	1.3095D+02	1.0981E+02	1.7876D+01	4.0753D+05	6.6158D+03	1.3846D-04	1.7284D-10	2.0613D-10	6.7171D+05
5580	6.7979D+05	1.3095D+02	1.0983D+02	1.8160E+01	4.0706D+05	6.6066D+03	1.3865D-04	1.7413D-10	2.0761D-10	6.6784D+05
5590	7.0110D+05	1.3095D+02	1.0986D+02	1.8448E+01	4.0659D+05	6.5975D+03	1.3884D-04	1.7542D-10	2.0910D-10	6.6398D+05
5600	7.0241D+05	1.3095D+02	1.0988D+02	1.8738D+01	4.0612D+05	6.5883D+03	1.3903D-04	1.7673D-10	2.1061D-10	6.6014D+05
5610	7.0372E+05	1.3095D+02	1.0991D+02	1.9031D+01	4.0566D+05	6.5792D+03	1.3923D-04	1.7806D-10	2.1214D-10	6.5630D+05
5620	7.0503D+05	1.3095D+02	1.0994D+02	1.9328D+01	4.0519D+05	6.5700D+03	1.3942D-04	1.7939D-10	2.1368D-10	6.5248D+05
5630	7.0634D+05	1.3095D+02	1.0996D+02	1.9628D+01	4.0472D+05	6.5608D+03	1.3962D-04	1.8074D-10	2.1524D-10	6.4867D+05
5640	7.0765D+05	1.3095D+02	1.0999D+02	1.9931D+01	4.0425D+05	6.5517D+03	1.3981D-04	1.8211D-10	2.1681D-10	6.4487D+05
5650	7.0896D+05	1.3095D+02	1.1002D+02	2.0237D+01	4.0378D+05	6.5425D+03	1.4001D-04	1.8349D-10	2.1839D-10	6.4108D+05
5660	7.1027D+05	1.3095D+02	1.1005D+02	2.0546D+01	4.0331D+05	6.5334D+03	1.4020D-04	1.8488D-10	2.2000E-10	6.3730D+05
5670	7.1158D+05	1.3095D+02	1.1008D+02	2.0859D+01	4.0284D+05	6.5242D+03	1.4040D-04	1.8629D-10	2.2161D-10	6.3353D+05
5680	7.1288D+05	1.3095D+02	1.1010D+02	2.1175D+01	4.0237D+05	6.5150D+03	1.4060D-04	1.8771D-10	2.2325D-10	6.2978D+05
5690	7.1419E+05	1.3095E+02	1.1013D+02	2.1494D+01	4.0190D+05	6.5059D+03	1.4080D-04	1.8915D-10	2.2490D-10	6.2603D+05
5700	7.1550E+05	1.3095D+02	1.1016D+02	2.1817D+01	4.0144D+05	6.4967D+03	1.4099D-04	1.9060D-10	2.2657D-10	6.2230D+05
5710	7.1681D+05	1.3095D+02	1.1019D+02	2.2143D+01	4.0097D+05	6.4876D+03	1.4119D-04	1.9207D-10	2.2826D-10	6.1858D+05

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/MOL)	CF (J/MOL-K)	CV (J/MOL-K)	P (MPA)	EH (J/MOL)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMAV (1/PA)
5720	7.1812D+05	1.3095D+02	1.1022D+02	2.2472D+01	4.0050D+05	6.4784D+03	1.4139D-04	1.9356D-10	2.2996D-10	6.1486D+05
5730	7.1943D+05	1.3095E+02	1.1025E+02	2.2805D+01	4.0003D+05	6.4692D+03	1.4159D-04	1.9506D-10	2.3168D-10	6.1116D+05
5740	7.2074D+05	1.3095D+02	1.1028D+02	2.3140E+01	3.9956D+05	6.4601D+03	1.4179D-04	1.9658D-10	2.3342D-10	6.0747D+05
5750	7.2205D+05	1.3095D+02	1.1031D+02	2.3480D+01	3.9905D+05	6.4509D+03	1.4200D-04	1.9811D-10	2.3517D-10	6.0379D+05
5760	7.2336D+05	1.3095D+02	1.1035D+02	2.3822D+01	3.9862D+05	6.4418D+03	1.4220D-04	1.9967D-10	2.3695D-10	6.0012D+05
5770	7.2467D+05	1.3095D+02	1.1038D+02	2.4168E+01	3.9815D+05	6.4326D+03	1.4240D-04	2.0124D-10	2.3874D-10	5.9646D+05
5780	7.2598D+05	1.3095D+02	1.1041D+02	2.4517D+01	3.9768D+05	6.4234D+03	1.4260D-04	2.0282D-10	2.4056E-10	5.9280D+05
5790	7.2729D+05	1.3095D+02	1.1044D+02	2.4870D+01	3.9721D+05	6.4143E+03	1.4281D-04	2.0443D-10	2.4239E-10	5.8916D+05
5800	7.2860D+05	1.3095D+02	1.1047D+02	2.5226D+01	3.9675D+05	6.4051D+03	1.4301D-04	2.0605D-10	2.4424D-10	5.8553D+05
5810	7.2991D+05	1.3095D+02	1.1051D+02	2.5586D+01	3.9628D+05	6.3960D+03	1.4322D-04	2.0769D-10	2.4611D-10	5.8191D+05
5820	7.3122D+05	1.3095D+02	1.1054D+02	2.5949D+01	3.9581D+05	6.3868D+03	1.4342D-04	2.0935D-10	2.4801D-10	5.7830D+05
5830	7.3253D+05	1.3095D+02	1.1058D+02	2.6315D+01	3.9534D+05	6.3776D+03	1.4363D-04	2.1103D-10	2.4992D-10	5.7469D+05
5840	7.3384D+05	1.3095D+02	1.1061D+02	2.6685D+01	3.9487D+05	6.3685D+03	1.4383D-04	2.1273D-10	2.5185D-10	5.7110D+05
5850	7.3515E+05	1.3095D+02	1.1064D+02	2.7058D+01	3.9440D+05	6.3593D+03	1.4404D-04	2.1445D-10	2.5381D-10	5.6751D+05
5860	7.3646E+05	1.3095D+02	1.1068D+02	2.7435D+01	3.9393D+05	6.3502D+03	1.4425D-04	2.1619D-10	2.5579D-10	5.6394D+05
5870	7.3777E+05	1.3095D+02	1.1071D+02	2.7815D+01	3.9346D+05	6.3410D+03	1.4446D-04	2.1795D-10	2.5779D-10	5.6037D+05
5880	7.3907E+05	1.3095D+02	1.1075D+02	2.8199D+01	3.9299D+05	6.3318D+03	1.4467D-04	2.1973D-10	2.5981D-10	5.5681D+05
5890	7.4038E+05	1.3095D+02	1.1079D+02	2.8586D+01	3.9253D+05	6.3227D+03	1.4488D-04	2.2154D-10	2.6186D-10	5.5326D+05
5900	7.4169E+05	1.3055D+02	1.1082D+02	2.8977D+01	3.9206D+05	6.3135D+03	1.4509D-04	2.2336D-10	2.6392D-10	5.4972D+05
5910	7.4300D+05	1.3095D+02	1.1086D+02	2.9371D+01	3.9159D+05	6.3044D+03	1.4530D-04	2.2521D-10	2.6602D-10	5.4619D+05
5920	7.4431D+05	1.3055D+02	1.1090D+02	2.9769D+01	3.9112D+05	6.2952D+03	1.4551D-04	2.2708D-10	2.6813D-10	5.4267D+05
5930	7.4562D+05	1.3095D+02	1.1094D+02	3.0171D+01	3.9065D+05	6.2860D+03	1.4572D-04	2.2897D-10	2.7027D-10	5.3916D+05
5940	7.4693E+05	1.3095D+02	1.1097D+02	3.0575D+01	3.9018D+05	6.2769D+03	1.4593D-04	2.3088D-10	2.7244D-10	5.3565D+05
5950	7.4824E+05	1.3095D+02	1.1101D+02	3.0984D+01	3.8971D+05	6.2677D+03	1.4615D-04	2.3282D-10	2.7463D-10	5.3215D+05
5960	7.4955E+05	1.3095D+02	1.1105D+02	3.1396D+01	3.8924D+05	6.2586D+03	1.4636D-04	2.3478D-10	2.7685D-10	5.2866D+05
5970	7.5086E+05	1.3095D+02	1.1109E+02	3.1811D+01	3.8877D+05	6.2494D+03	1.4657D-04	2.3677D-10	2.7909D-10	5.2518D+05

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H(298) (J/MOL)	CP (J/MOL-K)	CV (J/MOL-K)	P (MPA)	DH (J/MOL)	DENSITY (KG/M**3)	ALPHAP (1/K)	BETAS (1/PA)	BETAT (1/PA)	GAMMAV (1/PA)
5980	7.5217D+05	1.3095D+02	1.1113D+02	3.2231D+01	3.8831D+05	6.2402D+03	1.4679D-04	2.3878D-10	2.8136D-10	5.2171D+05
5550	7.5348D+05	1.3095D+02	1.1117D+02	3.2653D+01	3.8784D+05	6.2311D+03	1.4701D-04	2.4082D-10	2.8366D-10	5.1824D+05
6000	7.5479D+05	1.3095D+02	1.1122D+02	3.3080D+01	3.8737D+05	6.2219D+03	1.4722D-04	2.4289D-10	2.8599D-10	5.1478D+05

**TRANSPORT PROPERTIES AND SPEED OF SOUND OF LIQUID UO_2
IN SI UNITS**

TRANSCRT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOITY (PA-S)	EMISSIVITY	SPEED OF SOUND (M/S)
3120	4.3436D-03	8.3904D-01	1.8601D+03
3130	4.3231D-03	8.3965D-01	1.8543D+03
3140	4.3028D-03	8.4028D-01	1.8485D+03
3150	4.2827D-03	8.4091D-01	1.8428D+03
3160	4.2629D-03	8.4154D-01	1.8370D+03
3170	4.2433D-03	8.4219D-01	1.8312D+03
3180	4.2239D-03	8.4284D-01	1.8255D+03
3190	4.2047D-03	8.4350D-01	1.8197D+03
3200	4.1857D-03	8.4417D-01	1.8139D+03
3210	4.1669D-03	8.4485D-01	1.8082D+03
3220	4.1483D-03	8.4553D-01	1.8024D+03
3230	4.1300D-03	8.4622D-01	1.7966D+03
3240	4.1118D-03	8.4692D-01	1.7908D+03
3250	4.0938D-03	8.4762D-01	1.7851D+03
3260	4.0760D-03	8.4833D-01	1.7793D+03
3270	4.0583D-03	8.4905D-01	1.7735D+03
3280	4.0409D-03	8.4977D-01	1.7678D+03
3290	4.0236D-03	8.5050D-01	1.7620D+03
3300	4.0065D-03	8.5124D-01	1.7562D+03
3310	3.9896D-03	8.5198D-01	1.7505D+03
3320	3.9729D-03	8.5273D-01	1.7447D+03
3330	3.9563D-03	8.5348D-01	1.7389D+03
3340	3.9399D-03	8.5424D-01	1.7332D+03
3350	3.9237D-03	8.5501D-01	1.7274D+03
3360	3.9076D-03	8.5578D-01	1.7216D+03
3370	3.8917D-03	8.5655D-01	1.7158D+03

TRANSPORT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (PA-S)	EMISSIVITY	SPEED OF SOUND (M/S)
3380	3.8760D-03	8.5733D-01	1.7101D+03
3390	3.8604D-03	8.5812D-01	1.7043D+03
3400	3.8449D-03	8.5891D-01	1.6985D+03
3410	3.8296D-03	8.5971D-01	1.6933D+03
3420	3.8145D-03	8.6051D-01	1.6881D+03
3430	3.7995D-03	8.6131D-01	1.6829D+03
3440	3.7846D-03	8.6212D-01	1.6778D+03
3450	3.7699D-03	8.6293D-01	1.6727D+03
3460	3.7554D-03	8.6375D-01	1.6676D+03
3470	3.7409D-03	8.6457D-01	1.6625D+03
3480	3.7267D-03	8.6540D-01	1.6575D+03
3490	3.7125D-03	8.6623D-01	1.6525D+03
3500	3.6985D-03	8.6706D-01	1.6475D+03
3510	3.6846D-03	8.6790D-01	1.6426D+03
3520	3.6709D-03	8.6873D-01	1.6377D+03
3530	3.6572D-03	8.6958D-01	1.6328D+03
3540	3.6437D-03	8.7042D-01	1.6279D+03
3550	3.6304D-03	8.7127D-01	1.6231D+03
3560	3.6171D-03	8.7212D-01	1.6183D+03
3570	3.6040D-03	8.7298D-01	1.6135D+03
3580	3.5910D-03	8.7383D-01	1.6088D+03
3590	3.5781D-03	8.7469D-01	1.6041D+03
3600	3.5653D-03	8.7555D-01	1.5994D+03
3610	3.5527D-03	8.7642D-01	1.5947D+03
3620	3.5402D-03	8.7728D-01	1.5901D+03
3630	3.5277D-03	8.7815D-01	1.5854D+03

TRANSFERT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (PA-S)	EMISSIVITY	SPEED OF SOUND (M/S)
3640	3.5154D-03	8.7902D-01	1.5808D+03
3650	3.5032D-03	8.7989D-01	1.5763D+03
3660	3.4911D-03	8.8076D-01	1.5717D+03
3670	3.4791D-03	8.8164D-01	1.5672D+03
3680	3.4673D-03	8.8251D-01	1.5627D+03
3690	3.4555D-03	8.8339D-01	1.5582D+03
3700	3.4438D-03	8.8427D-01	1.5537D+03
3710	3.4322D-03	8.8514D-01	1.5493D+03
3720	3.4208D-03	8.8602D-01	1.5449D+03
3730	3.4094D-03	8.8690D-01	1.5405D+03
3740	3.3981D-03	8.8778D-01	1.5361D+03
3750	3.3869D-03	8.8866D-01	1.5318D+03
3760	3.3759D-03	8.8955D-01	1.5275D+03
3770	3.3649D-03	8.9043D-01	1.5231D+03
3780	3.3540D-03	8.9131D-01	1.5189D+03
3790	3.3432D-03	8.9219D-01	1.5146D+03
3800	3.3325D-03	8.9307D-01	1.5103D+03
3810	3.3219D-03	8.9395D-01	1.5061D+03
3820	3.3113D-03	8.9483D-01	1.5019D+03
3830	3.3009D-03	8.9571D-01	1.4977D+03
3840	3.2905D-03	8.9659D-01	1.4936D+03
3850	3.2803D-03	8.9747D-01	1.4894D+03
3860	3.2701D-03	8.9835D-01	1.4853D+03
3870	3.2600D-03	8.9923D-01	1.4812D+03
3880	3.2500D-03	9.0010D-01	1.4771D+03
3890	3.2400D-03	9.0098D-01	1.4730D+03

TRANSPORT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (PA-S)	EMISSIVITY	SPEED OF SOUND (M/S)
3900	3.2302D-03	9.0185D-01	1.4689D+03
3910	3.2204D-03	9.0272D-01	1.4649D+03
3920	3.2107D-03	9.0359D-01	1.4609D+03
3930	3.2011E-03	9.0446D-01	1.4569D+03
3940	3.1916D-03	9.0533D-01	1.4529D+03
3950	3.1821D-03	9.0620D-01	1.4489D+03
3960	3.1727D-03	9.0706D-01	1.4450D+03
3970	3.1634D-03	9.0792D-01	1.4410D+03
3980	3.1542E-03	9.0878D-01	1.4371D+03
3990	3.1450D-03	9.0964D-01	1.4332D+03
4000	3.1359E-03	9.1050D-01	1.4293D+03
4010	3.1269D-03	9.1135D-01	1.4255D+03
4020	3.1180E-03	9.1220D-01	1.4216D+03
4030	3.1091E-03	9.1305D-01	1.4178D+03
4040	3.1003D-03	9.1389D-01	1.4139D+03
4050	3.0915D-03	9.1474D-01	1.4101D+03
4060	3.0829D-03	9.1558D-01	1.4063D+03
4070	3.0743D-03	9.1642D-01	1.4026D+03
4080	3.0657E-03	9.1725D-01	1.3988D+03
4090	3.0572D-03	9.1808D-01	1.3950D+03
4100	3.0488D-03	9.1891D-01	1.3913D+03
4110	3.0405D-03	9.1974D-01	1.3876D+03
4120	3.0322D-03	9.2056D-01	1.3839D+03
4130	3.0240E-03	9.2138D-01	1.3802D+03
4140	3.0158E-03	9.2219D-01	1.3765D+03
4150	3.0077D-03	9.2301D-01	1.3728D+03

TRANSCRT PROPERTIES & SPEED OF SCUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (PA-S)	EMISSIVITY	SPEED CF SCUND (M/S)
4160	2.9997D-03	9.2382D-01	1.3692D+03
4170	2.9917D-03	9.2462D-01	1.3655D+03
4180	2.9838D-03	9.2542D-01	1.3619D+03
4190	2.9759D-03	9.2622D-01	1.3583D+03
4200	2.9681D-03	9.2702D-01	1.3547D+03
4210	2.9604D-03	9.2781D-01	1.3511D+03
4220	2.9527D-03	9.2859D-01	1.3475D+03
4230	2.9451D-03	9.2938D-01	1.3440D+03
4240	2.9375D-03	9.3015D-01	1.3404D+03
4250	2.9300D-03	9.3093D-01	1.3369D+03
4260	2.9225D-03	9.3170D-01	1.3334D+03
4270	2.9151D-03	9.3247D-01	1.3298D+03
4280	2.9077D-03	9.3323D-01	1.3263D+03
4290	2.9004D-03	9.3398D-01	1.3229D+03
4300	2.8932D-03	9.3474D-01	1.3194D+03
4310	2.8859D-03	9.3549D-01	1.3159D+03
4320	2.8788D-03	9.3623D-01	1.3124D+03
4330	2.8717D-03	9.3697D-01	1.3090D+03
4340	2.8646D-03	9.3771D-01	1.3056D+03
4350	2.8576D-03	9.3844D-01	1.3021D+03
4360	2.8507D-03	9.3917D-01	1.2987D+03
4370	2.8436D-03	9.3989D-01	1.2953D+03
4380	2.8369D-03	9.4060D-01	1.2919D+03
4390	2.8301D-03	9.4132D-01	1.2886D+03
4400	2.8234D-03	9.4202D-01	1.2852D+03
4410	2.8166D-03	9.4273D-01	1.2818D+03

TRANSCFT PROPERTIES & SPEED OF SOUND OF LIQUIL URANIUM DIOXIDE

T (K)	VISCOSITY (PA-S)	EMISSIVITY	SPEED OF SOUND (M/S)
4420	2.8100D-03	9.4343D-01	1.2785D+03
4430	2.8034D-03	9.4412D-01	1.2751D+03
4440	2.7968D-03	9.4481D-01	1.2718D+03
4450	2.7902D-03	9.4549D-01	1.2685D+03
4460	2.7838D-03	9.4617D-01	1.2652D+03
4470	2.7773E-03	9.4684D-01	1.2619D+03
4480	2.7709E-03	9.4751D-01	1.2586D+03
4490	2.7646D-03	9.4817E-01	1.2553D+03
4500	2.7582E-03	9.4883D-01	1.2520D+03
4510	2.7520D-03	9.4949D-01	1.2487D+03
4520	2.7457E-03	9.5013D-01	1.2455D+03
4530	2.7396D-03	9.5078D-01	1.2422D+03
4540	2.7334D-03	9.5142D-01	1.2390D+03
4550	2.7273D-03	9.5205D-01	1.2358D+03
4560	2.7212E-03	9.5268D-01	1.2325D+03
4570	2.7152D-03	9.5330D-01	1.2293D+03
4580	2.7092D-03	9.5392D-01	1.2261D+03
4590	2.7033D-03	9.5453D-01	1.2229D+03
4600	2.6974E-03	9.5514D-01	1.2197D+03
4610	2.6915E-03	9.5574D-01	1.2166D+03
4620	2.6857D-03	9.5634D-01	1.2134D+03
4630	2.6799E-03	9.5693D-01	1.2102D+03
4640	2.6741D-03	9.5751E-01	1.2071D+03
4650	2.6684D-03	9.5809D-01	1.2039D+03
4660	2.6627D-03	9.5867D-01	1.2008D+03
4670	2.6571D-03	9.5924D-01	1.1976D+03

TRANSPORT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (PA-S)	EMISSIVITY	SPEED OF SOUND (M/S)
4680	2.6515D-03	9.5981D-01	1.1945D+03
4690	2.6459D-03	9.6037D-01	1.1914D+03
4700	2.6403D-03	9.6092D-01	1.1883D+03
4710	2.6348D-03	9.6147D-01	1.1852D+03
4720	2.6294D-03	9.6201D-01	1.1821D+03
4730	2.6239D-03	9.6255D-01	1.1790D+03
4740	2.6185D-03	9.6309D-01	1.1759D+03
4750	2.6132D-03	9.6362D-01	1.1728D+03
4760	2.6078D-03	9.6414D-01	1.1697D+03
4770	2.6025D-03	9.6466D-01	1.1667D+03
4780	2.5973D-03	9.6517D-01	1.1636D+03
4790	2.5920D-03	9.6568D-01	1.1605D+03
4800	2.5868D-03	9.6618D-01	1.1575D+03
4810	2.5816D-03	9.6668D-01	1.1545D+03
4820	2.5765D-03	9.6717D-01	1.1514D+03
4830	2.5714D-03	9.6766D-01	1.1484D+03
4840	2.5663D-03	9.6814D-01	1.1454D+03
4850	2.5613D-03	9.6862D-01	1.1424D+03
4860	2.5563D-03	9.6909D-01	1.1393D+03
4870	2.5513D-03	9.6955D-01	1.1363D+03
4880	2.5463D-03	9.7002D-01	1.1333D+03
4890	2.5414D-03	9.7047D-01	1.1303D+03
4900	2.5365D-03	9.7092D-01	1.1273D+03
4910	2.5316D-03	9.7137D-01	1.1244D+03
4920	2.5268D-03	9.7181D-01	1.1214D+03
4930	2.5220D-03	9.7225D-01	1.1184D+03

TRANSCRT PROPERTIES & SPEED OF SCUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (PA-S)	EMISSIVITY	SPEED OF SOUND (M/S)
4940	2.5172D-03	9.7268D-01	1.1154D+03
4950	2.5125D-03	9.7310D-01	1.1125D+03
4960	2.5077D-03	9.7353D-01	1.1095D+03
4970	2.5030D-03	9.7394D-01	1.1066D+03
4980	2.4984D-03	9.7435D-01	1.1036D+03
4990	2.4937D-03	9.7476D-01	1.1007D+03
5000	2.4891D-03	9.7516D-01	1.0977D+03
5010	2.4845D-03	9.7556D-01	1.0948D+03
5020	2.4800D-03	9.7595D-01	1.0919D+03
5030	2.4754D-03	9.7634D-01	1.0889D+03
5040	2.4709D-03	9.7672D-01	1.0860D+03
5050	2.4664D-03	9.7710D-01	1.0831D+03
5060	2.4620D-03	9.7748D-01	1.0802D+03
5070	2.4576D-03	9.7785D-01	1.0773D+03
5080	2.4532D-03	9.7821D-01	1.0744D+03
5090	2.4488D-03	9.7857D-01	1.0715D+03
5100	2.4444D-03	9.7892D-01	1.0686D+03
5110	2.4401D-03	9.7928D-01	1.0657D+03
5120	2.4358D-03	9.7962D-01	1.0628D+03
5130	2.4315D-03	9.7996D-01	1.0599D+03
5140	2.4273D-03	9.8030D-01	1.0570D+03
5150	2.4230D-03	9.8063D-01	1.0541D+03
5160	2.4188D-03	9.8096D-01	1.0512D+03
5170	2.4146D-03	9.8129D-01	1.0484D+03
5180	2.4105D-03	9.8161D-01	1.0455D+03
5190	2.4063D-03	9.8192D-01	1.0426D+03

TRANSFERT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (PA-S)	EMISSIVITY	SPEED OF SOUND (M/S)
5200	2.4022D-03	9.8223D-01	1.0398D+03
5210	2.3981D-03	9.8254D-01	1.0369D+03
5220	2.3940D-03	9.8284D-01	1.0340D+03
5230	2.3900D-03	9.8314D-01	1.0312D+03
5240	2.3860D-03	9.8344D-01	1.0283D+03
5250	2.3820D-03	9.8373D-01	1.0255D+03
5260	2.3780D-03	9.8401D-01	1.0226D+03
5270	2.3740D-03	9.8429D-01	1.0198D+03
5280	2.3701D-03	9.8457D-01	1.0169D+03
5290	2.3662D-03	9.8485D-01	1.0141D+03
5300	2.3623D-03	9.8512D-01	1.0112D+03
5310	2.3584D-03	9.8539D-01	1.0084D+03
5320	2.3545D-03	9.8565D-01	1.0056D+03
5330	2.3507D-03	9.8591D-01	1.0027D+03
5340	2.3469D-03	9.8616D-01	9.9991D+02
5350	2.3431D-03	9.8641D-01	9.9708D+02
5360	2.3393D-03	9.8666D-01	9.9425D+02
5370	2.3356D-03	9.8691D-01	9.9142D+02
5380	2.3319D-03	9.8715D-01	9.8860D+02
5390	2.3281D-03	9.8738D-01	9.8578D+02
5400	2.3244D-03	9.8762D-01	9.8295D+02
5410	2.3208D-03	9.8785D-01	9.8013D+02
5420	2.3171D-03	9.8807D-01	9.7732D+02
5430	2.3135D-03	9.8830D-01	9.7450D+02
5440	2.3099D-03	9.8852D-01	9.7168D+02
5450	2.3063D-03	9.8873D-01	9.6887D+02

TRANSPORT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (PA-S)	EMISSIVITY	SPEED OF SOUND (M/S)
5460	2.3027D-03	9.8895D-01	9.6606D+02
5470	2.2991D-03	9.8915D-01	9.6324D+02
5480	2.2956D-03	9.8936D-01	9.6043D+02
5490	2.2921D-03	9.8956D-01	9.5762D+02
5500	2.2886D-03	9.8976D-01	9.5481D+02
5510	2.2851D-03	9.8996D-01	9.5200D+02
5520	2.2816D-03	9.9015D-01	9.4919D+02
5530	2.2782D-03	9.9034D-01	9.4638D+02
5540	2.2747D-03	9.9053D-01	9.4357D+02
5550	2.2713D-03	9.9072D-01	9.4077D+02
5560	2.2679D-03	9.9090D-01	9.3796D+02
5570	2.2645D-03	9.9108D-01	9.3515D+02
5580	2.2612D-03	9.9125D-01	9.3235D+02
5590	2.2578D-03	9.9142D-01	9.2954D+02
5600	2.2545D-03	9.9159D-01	9.2673D+02
5610	2.2512D-03	9.9176D-01	9.2392D+02
5620	2.2479D-03	9.9192D-01	9.2112D+02
5630	2.2446D-03	9.9209D-01	9.1831D+02
5640	2.2413D-03	9.9224D-01	9.1550D+02
5650	2.2381D-03	9.9240D-01	9.1269D+02
5660	2.2349D-03	9.9255D-01	9.0988D+02
5670	2.2317D-03	9.9270D-01	9.0707D+02
5680	2.2285D-03	9.9285D-01	9.0426D+02
5690	2.2253D-03	9.9300D-01	9.0145D+02
5700	2.2221D-03	9.9314D-01	8.9864D+02
5710	2.2190D-03	9.9328D-01	8.9583D+02

TRANSECT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (PA-S)	EMISSIVITY	SPEED OF SOUND (M/S)
5720	2.2158D-03	9.9342D-01	8.9302D+02
5730	2.2127D-03	9.9356D-01	8.9020D+02
5740	2.2096E-03	9.9369D-01	8.8738D+02
5750	2.2065D-03	9.9382E-01	8.8457D+02
5760	2.2034E-03	9.9395D-01	8.8175D+02
5770	2.2004D-03	9.9407D-01	8.7893D+02
5780	2.1973E-03	9.9420D-01	8.7611D+02
5790	2.1943D-03	9.9432D-01	8.7328D+02
5800	2.1913D-03	9.9444D-01	8.7046D+02
5810	2.1883D-03	9.9456E-01	8.6763D+02
5820	2.1853D-03	9.9467D-01	8.6480D+02
5830	2.1823D-03	9.9479D-01	8.6197D+02
5840	2.1793D-03	9.9490D-01	8.5914E+02
5850	2.1764E-03	9.9501D-01	8.5631D+02
5860	2.1735D-03	9.9511D-01	8.5347D+02
5870	2.1705D-03	9.9522D-01	8.5063D+02
5880	2.1676D-03	9.9532D-01	8.4779D+02
5890	2.1648E-03	9.9542D-01	8.4494D+02
5900	2.1619E-03	9.9552D-01	8.4209D+02
5910	2.1590D-03	9.9562D-01	8.3925D+02
5920	2.1562D-03	9.9572D-01	8.3639D+02
5930	2.1533E-03	9.9581D-01	8.3354D+02
5940	2.1505D-03	9.9590D-01	8.3068D+02
5950	2.1477D-03	9.9599D-01	8.2782D+02
5960	2.1449D-03	9.9608D-01	8.2495D+02
5970	2.1421D-03	9.9617D-01	8.2208D+02

TRANSPORT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (PA-S)	EMISSIVITY	SPEED OF SOUND (M/S)
5980	2.1394D-03	9.9625D-01	8.1921D+02
5990	2.1366D-03	9.9634D-01	8.1634D+02
6000	2.1338E-03	9.9642D-01	8.1346D+02

**THERMODYNAMIC PROPERTIES OF SOLID UO_2
IN CGS UNITS**

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMAV (ATM/K)
298	0.0	2.3552D-01	2.3293D-01	0.0	1.0970D+01	2.1711D-05	4.9637D-07	5.0188D-07	4.3259D+01
300	4.3638D-01	2.3624D-01	2.3363D-01	0.0	1.0970D+01	2.1739D-05	4.9648D-07	5.0202D-07	4.3304D+01
310	2.8176D+00	2.3996D-01	2.3722D-01	0.0	1.0967D+01	2.1893D-05	4.9704D-07	5.0276D-07	4.3546D+01
320	5.2346D+00	2.4341D-01	2.4055D-01	0.0	1.0965D+01	2.2048D-05	4.9760D-07	5.0351D-07	4.3788D+01
330	7.6850D+00	2.4662D-01	2.4364D-01	0.0	1.0962D+01	2.2202D-05	4.9817D-07	5.0427D-07	4.4028D+01
340	1.0166D+01	2.4962D-01	2.4651D-01	0.0	1.0960D+01	2.2356D-05	4.9874D-07	5.0503D-07	4.4267D+01
350	1.2677D+01	2.5242D-01	2.4918D-01	0.0	1.0958D+01	2.2511D-05	4.9931D-07	5.0581D-07	4.4505D+01
360	1.5214D+01	2.5505D-01	2.5167D-01	0.0	1.0955D+01	2.2666D-05	4.9988D-07	5.0659D-07	4.4742D+01
370	1.7777D+01	2.5751D-01	2.5399D-01	0.0	1.0953D+01	2.2821D-05	5.0045D-07	5.0737D-07	4.4978D+01
380	2.0364D+01	2.5982D-01	2.5617D-01	0.0	1.0950D+01	2.2976D-05	5.0102D-07	5.0817D-07	4.5213D+01
390	2.2973D+01	2.6199D-01	2.5820D-01	0.0	1.0948D+01	2.3131D-05	5.0160D-07	5.0897D-07	4.5447D+01
400	2.5603D+01	2.6404D-01	2.6010D-01	0.0	1.0945D+01	2.3287D-05	5.0217D-07	5.0978D-07	4.5680D+01
410	2.8254D+01	2.6598D-01	2.6189D-01	0.0	1.0943D+01	2.3442D-05	5.0275D-07	5.1059D-07	4.5912D+01
420	3.0923D+01	2.6781D-01	2.6357D-01	0.0	1.0940D+01	2.3598D-05	5.0333D-07	5.1142D-07	4.6143D+01
430	3.3609D+01	2.6954D-01	2.6516D-01	0.0	1.0938D+01	2.3754D-05	5.0391D-07	5.1225D-07	4.6372D+01
440	3.6312D+01	2.7119D-01	2.6665D-01	0.0	1.0935D+01	2.3910D-05	5.0449D-07	5.1308D-07	4.6601D+01
450	3.9033D+01	2.7275D-01	2.6805D-01	0.0	1.0933D+01	2.4066D-05	5.0507D-07	5.1393D-07	4.6829D+01
460	4.1768D+01	2.7424D-01	2.6938D-01	0.0	1.0930D+01	2.4223D-05	5.0565D-07	5.1478D-07	4.7055D+01
470	4.4518D+01	2.7566D-01	2.7064D-01	0.0	1.0927D+01	2.4380D-05	5.0624D-07	5.1564D-07	4.7281D+01
480	4.7281D+01	2.7702D-01	2.7183D-01	0.0	1.0925D+01	2.4536D-05	5.0683D-07	5.1650D-07	4.7505D+01
490	5.0058D+01	2.7831D-01	2.7295D-01	0.0	1.0922D+01	2.4693D-05	5.0741D-07	5.1737D-07	4.7728D+01
500	5.2847D+01	2.7955D-01	2.7402D-01	1.5849D-54	1.0919D+01	2.4851D-05	5.0800D-07	5.1825D-07	4.7951D+01
510	5.5648D+01	2.8073D-01	2.7503D-01	2.6719D-53	1.0917D+01	2.5008D-05	5.0859D-07	5.1914D-07	4.8172D+01
520	5.8461D+01	2.8187D-01	2.7599D-01	4.0407D-52	1.0914D+01	2.5165D-05	5.0918D-07	5.2003D-07	4.8392D+01
530	6.1286D+01	2.8297D-01	2.7691D-01	5.5155D-51	1.0911D+01	2.5323D-05	5.0978D-07	5.2093D-07	4.8611D+01
540	6.4121D+01	2.8402D-01	2.7778D-01	6.8339D-50	1.0908D+01	2.5481D-05	5.1037D-07	5.2184D-07	4.8829D+01

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMHAY (ATM/K)
550	6.6966D+01	2.8503D-01	2.7860D-01	7.7268D-49	1.0906D+01	2.5639D-05	5.1097D-07	5.2275D-07	4.9046D+01
560	6.9821D+01	2.8601D-01	2.7939D-01	8.0115D-48	1.0903D+01	2.5797D-05	5.1156D-07	5.2367D-07	4.9261D+01
570	7.2686D+01	2.8695D-01	2.8015D-01	7.6523D-47	1.0900D+01	2.5955D-05	5.1216D-07	5.2460D-07	4.9476D+01
580	7.5560D+01	2.8786D-01	2.8086D-01	6.7619D-46	1.0897D+01	2.6114D-05	5.1276D-07	5.2554D-07	4.9689D+01
590	7.8443D+01	2.8874D-01	2.8155D-01	5.5497D-45	1.0894D+01	2.6272D-05	5.1336D-07	5.2648D-07	4.9902D+01
600	8.1335D+01	2.8959D-01	2.8220D-01	4.2462D-44	1.0892D+01	2.6431D-05	5.1397D-07	5.2743D-07	5.0113D+01
610	8.4235D+01	2.9042D-01	2.8282D-01	3.0392D-43	1.0889D+01	2.6590D-05	5.1457D-07	5.2839D-07	5.0323D+01
620	8.7143D+01	2.9122D-01	2.8342D-01	2.0414D-42	1.0886D+01	2.6749D-05	5.1518D-07	5.2936D-07	5.0531D+01
630	9.0059D+01	2.9200D-01	2.8399D-01	1.2908D-41	1.0883D+01	2.6908D-05	5.1579D-07	5.3033D-07	5.0739D+01
640	9.2983D+01	2.9276D-01	2.8454D-01	7.7046D-41	1.0880D+01	2.7068D-05	5.1639D-07	5.3131D-07	5.0946D+01
650	9.5914D+01	2.9349D-01	2.8506D-01	4.3528D-40	1.0877D+01	2.7227D-05	5.1700D-07	5.3230D-07	5.1151D+01
660	9.8853D+01	2.9421D-01	2.8556D-01	2.3335D-39	1.0874D+01	2.7387D-05	5.1762D-07	5.3329D-07	5.1355D+01
670	1.0180D+02	2.9491D-01	2.8604D-01	1.1898D-38	1.0871D+01	2.7547D-05	5.1823D-07	5.3430D-07	5.1558D+01
680	1.0475D+02	2.9559D-01	2.8649D-01	5.7825D-38	1.0868D+01	2.7707D-05	5.1884D-07	5.3531D-07	5.1759D+01
690	1.0771D+02	2.9625D-01	2.8693D-01	2.6845D-37	1.0865D+01	2.7867D-05	5.1946D-07	5.3633D-07	5.1960D+01
700	1.1068D+02	2.9690D-01	2.8735D-01	1.1928D-36	1.0862D+01	2.8028D-05	5.2008D-07	5.3735D-07	5.2159D+01
710	1.1365D+02	2.9753D-01	2.8775D-01	5.0819D-36	1.0859D+01	2.8188D-05	5.2069D-07	5.3839D-07	5.2357D+01
720	1.1663D+02	2.9815D-01	2.8814D-01	2.0797D-35	1.0856D+01	2.8349D-05	5.2131D-07	5.3943D-07	5.2554D+01
730	1.1961D+02	2.9876D-01	2.8851D-01	8.1885D-35	1.0853D+01	2.8510D-05	5.2194D-07	5.4048D-07	5.2750D+01
740	1.2260D+02	2.9935D-01	2.8886D-01	3.1069D-34	1.0850D+01	2.8671D-05	5.2256D-07	5.4154D-07	5.2944D+01
750	1.2560D+02	2.9994D-01	2.8920D-01	1.1376D-33	1.0847D+01	2.8832D-05	5.2318D-07	5.4260D-07	5.3137D+01
760	1.2860D+02	3.0051D-01	2.8953D-01	4.0257D-33	1.0844D+01	2.8994D-05	5.2381D-07	5.4368D-07	5.3329D+01
770	1.3161D+02	3.0107D-01	2.8984D-01	1.3786D-32	1.0840D+01	2.9155D-05	5.2444D-07	5.4476D-07	5.3519D+01
780	1.3462D+02	3.0162D-01	2.9014D-01	4.5741D-32	1.0837D+01	2.9317D-05	5.2507D-07	5.4585D-07	5.3709D+01
790	1.3764D+02	3.0216D-01	2.9042D-01	1.4723D-31	1.0834D+01	2.9479D-05	5.2570D-07	5.4695D-07	5.3897D+01
800	1.4066D+02	3.0269D-01	2.9069D-01	4.6026D-31	1.0831D+01	2.9641D-05	5.2633D-07	5.4805D-07	5.4083D+01

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMAV (ATM/K)
810	1.4369D+02	3.0321D-01	2.9095D-01	1.3989D-30	1.0828D+01	2.9803D-05	5.2696D-07	5.4917D-07	5.4269D+01
820	1.4673D+02	3.0373D-01	2.9120D-01	4.1379D-30	1.0824D+01	2.9965D-05	5.2760D-07	5.5029D-07	5.4453D+01
830	1.4977D+02	3.0423D-01	2.9144D-01	1.1924D-29	1.0821D+01	3.0128D-05	5.2824D-07	5.5142D-07	5.4636D+01
840	1.5281D+02	3.0473D-01	2.9167D-01	3.3508D-29	1.0818D+01	3.0290D-05	5.2887D-07	5.5256D-07	5.4817D+01
850	1.5586D+02	3.0522D-01	2.9189D-01	9.1895D-29	1.0815D+01	3.0453D-05	5.2951D-07	5.5371D-07	5.4998D+01
860	1.5892D+02	3.0571D-01	2.9209D-01	2.4618D-28	1.0811D+01	3.0616D-05	5.3016D-07	5.5487D-07	5.5177D+01
870	1.6198D+02	3.0619D-01	2.9229D-01	6.4473D-28	1.0808D+01	3.0779D-05	5.3080D-07	5.5603D-07	5.5354D+01
880	1.6504D+02	3.0666D-01	2.9248D-01	1.6520D-27	1.0805D+01	3.0942D-05	5.3144D-07	5.5721D-07	5.5530D+01
890	1.6811D+02	3.0712D-01	2.9266D-01	4.1442D-27	1.0801D+01	3.1105D-05	5.3209D-07	5.5839D-07	5.5705D+01
900	1.7118D+02	3.0758D-01	2.9283D-01	1.0186D-26	1.0798D+01	3.1269D-05	5.3274D-07	5.5958D-07	5.5879D+01
910	1.7426D+02	3.0804D-01	2.9299D-01	2.4546D-26	1.0794D+01	3.1433D-05	5.3339D-07	5.6078D-07	5.6051D+01
920	1.7734D+02	3.0848D-01	2.9314D-01	5.8030D-26	1.0791D+01	3.1596D-05	5.3404D-07	5.6199D-07	5.6222D+01
930	1.8043D+02	3.0893D-01	2.9328D-01	1.3468D-25	1.0788D+01	3.1760D-05	5.3469D-07	5.6321D-07	5.6392D+01
940	1.8352D+02	3.0937D-01	2.9342D-01	3.0701D-25	1.0784D+01	3.1925D-05	5.3534D-07	5.6444D-07	5.6560D+01
950	1.8662D+02	3.0980D-01	2.9355D-01	6.8782D-25	1.0781D+01	3.2089D-05	5.3600D-07	5.6568D-07	5.6727D+01
960	1.8972D+02	3.1023D-01	2.9367D-01	1.5153D-24	1.0777D+01	3.2253D-05	5.3666D-07	5.6692D-07	5.6892D+01
970	1.9282D+02	3.1065D-01	2.9378D-01	3.2844D-24	1.0774D+01	3.2418D-05	5.3732D-07	5.6818D-07	5.7056D+01
980	1.9593D+02	3.1108D-01	2.9389D-01	7.0073D-24	1.0770D+01	3.2583D-05	5.3798D-07	5.6944D-07	5.7219D+01
990	1.9905D+02	3.1149D-01	2.9399D-01	1.4723D-23	1.0767D+01	3.2748D-05	5.3864D-07	5.7071D-07	5.7380D+01
1000	2.0216D+02	3.1191D-01	2.9408D-01	3.0479D-23	1.0763D+01	3.2913D-05	5.3930D-07	5.7200D-07	5.7540D+01
1010	2.0528D+02	3.1232D-01	2.9416D-01	6.2193D-23	1.0760D+01	3.3078D-05	5.3997D-07	5.7329D-07	5.7698D+01
1020	2.0841D+02	3.1272D-01	2.9424D-01	1.2514D-22	1.0756D+01	3.3243D-05	5.4063D-07	5.7459D-07	5.7855D+01
1030	2.1154D+02	3.1312D-01	2.9431D-01	2.4842D-22	1.0752D+01	3.3409D-05	5.4130D-07	5.7590D-07	5.8011D+01
1040	2.1467D+02	3.1352D-01	2.9438D-01	4.8667D-22	1.0749D+01	3.3574D-05	5.4197D-07	5.7722D-07	5.8165D+01
1050	2.1781D+02	3.1392D-01	2.9444D-01	9.4127D-22	1.0745D+01	3.3740D-05	5.4265D-07	5.7855D-07	5.8318D+01
1060	2.2095D+02	3.1431D-01	2.9449D-01	1.7980D-21	1.0742D+01	3.3906D-05	5.4332D-07	5.7989D-07	5.8469D+01

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATH)	BETAT (1/ATH)	GAMHAY (ATH/K)
1070	2.2409D+02	3.1470D-01	2.9454D-01	3.3933D-21	1.0738D+01	3.4072D-05	5.4400D-07	5.8124D-07	5.8619D+01
1080	2.2724D+02	3.1509D-01	2.9458D-01	6.3290D-21	1.0734D+01	3.4238D-05	5.4467D-07	5.8260D-07	5.8768D+01
1090	2.3040D+02	3.1548D-01	2.9461D-01	1.1670D-20	1.0731D+01	3.4405D-05	5.4535D-07	5.8397D-07	5.8915D+01
1100	2.3355D+02	3.1586D-01	2.9464D-01	2.1281D-20	1.0727D+01	3.4571D-05	5.4603D-07	5.8535D-07	5.9061D+01
1110	2.3671D+02	3.1624D-01	2.9467D-01	3.8390D-20	1.0723D+01	3.4738D-05	5.4671D-07	5.8674D-07	5.9205D+01
1120	2.3988D+02	3.1662D-01	2.9469D-01	6.8526D-20	1.0719D+01	3.4905D-05	5.4740D-07	5.8813D-07	5.9348D+01
1130	2.4305D+02	3.1699D-01	2.9470D-01	1.2107D-19	1.0716D+01	3.5071D-05	5.4808D-07	5.8954D-07	5.9489D+01
1140	2.4622D+02	3.1736D-01	2.9471D-01	2.1178D-19	1.0712D+01	3.5239D-05	5.4877D-07	5.9096D-07	5.9629D+01
1150	2.4939D+02	3.1774D-01	2.9471D-01	3.6688D-19	1.0708D+01	3.5406D-05	5.4946D-07	5.9239D-07	5.9768D+01
1160	2.5257D+02	3.1811D-01	2.9471D-01	6.2956D-19	1.0704D+01	3.5573D-05	5.5015D-07	5.9383D-07	5.9905D+01
1170	2.5576D+02	3.1847D-01	2.9470D-01	1.0704D-18	1.0700D+01	3.5741D-05	5.5084D-07	5.9528D-07	6.0040D+01
1180	2.5894D+02	3.1884D-01	2.9469D-01	1.8036D-18	1.0697D+01	3.5908D-05	5.5154D-07	5.9674D-07	6.0174D+01
1190	2.6213D+02	3.1920D-01	2.9467D-01	3.0125D-18	1.0693D+01	3.6076D-05	5.5223D-07	5.9821D-07	6.0307D+01
1200	2.6533D+02	3.1957D-01	2.9465D-01	4.9888D-18	1.0689D+01	3.6244D-05	5.5293D-07	5.9969D-07	6.0438D+01
1210	2.6852D+02	3.1993D-01	2.9462D-01	8.1932D-18	1.0685D+01	3.6412D-05	5.5363D-07	6.0118D-07	6.0568D+01
1220	2.7172D+02	3.2029D-01	2.9459D-01	1.3347D-17	1.0681D+01	3.6580D-05	5.5433D-07	6.0268D-07	6.0696D+01
1230	2.7493D+02	3.2065D-01	2.9456D-01	2.1570D-17	1.0677D+01	3.6749D-05	5.5503D-07	6.0420D-07	6.0823D+01
1240	2.7814D+02	3.2100D-01	2.9452D-01	3.4591D-17	1.0673D+01	3.6917D-05	5.5574D-07	6.0572D-07	6.0948D+01
1250	2.8135D+02	3.2136D-01	2.9447D-01	5.5055D-17	1.0669D+01	3.7086D-05	5.5645D-07	6.0725D-07	6.1072D+01
1260	2.8456D+02	3.2172D-01	2.9442D-01	8.6982D-17	1.0665D+01	3.7255D-05	5.5715D-07	6.0880D-07	6.1194D+01
1270	2.8778D+02	3.2207D-01	2.9437D-01	1.3644D-16	1.0661D+01	3.7424D-05	5.5786D-07	6.1035D-07	6.1315D+01
1280	2.9101D+02	3.2242D-01	2.9432D-01	2.1251D-16	1.0657D+01	3.7593D-05	5.5858D-07	6.1192D-07	6.1434D+01
1290	2.9423D+02	3.2278D-01	2.9426D-01	3.2873D-16	1.0653D+01	3.7762D-05	5.5929D-07	6.1349D-07	6.1552D+01
1300	2.9746D+02	3.2313D-01	2.9420D-01	5.0511D-16	1.0649D+01	3.7931D-05	5.6001D-07	6.1508D-07	6.1669D+01
1310	3.0069D+02	3.2348D-01	2.9413D-01	7.7105D-16	1.0645D+01	3.8101D-05	5.6072D-07	6.1668D-07	6.1784D+01
1320	3.0393D+02	3.2384D-01	2.9406D-01	1.1695D-15	1.0641D+01	3.8270D-05	5.6144D-07	6.1829D-07	6.1897D+01

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATH)	BETAT (1/ATH)	GAMMAV (ATH/K)
1330	3.0717D+02	3.2419D-01	2.9399D-01	1.7628D-15	1.0637D+01	3.8440D-05	5.6216D-07	6.1991D-07	6.2009D+01
1340	3.1041D+02	3.2454D-01	2.9392D-01	2.6408D-15	1.0633D+01	3.8610D-05	5.6289D-07	6.2154D-07	6.2120D+01
1350	3.1366D+02	3.2490D-01	2.9384D-01	3.9325D-15	1.0629D+01	3.8780D-05	5.6361D-07	6.2318D-07	6.2229D+01
1360	3.1691D+02	3.2525D-01	2.9376D-01	5.8218D-15	1.0624D+01	3.8950D-05	5.6434D-07	6.2484D-07	6.2337D+01
1370	3.2017D+02	3.2560D-01	2.9368D-01	8.5697D-15	1.0620D+01	3.9121D-05	5.6507D-07	6.2650D-07	6.2443D+01
1380	3.2342D+02	3.2596D-01	2.9359D-01	1.2544D-14	1.0616D+01	3.9291D-05	5.6580D-07	6.2818D-07	6.2548D+01
1390	3.2669D+02	3.2632D-01	2.9350D-01	1.8261D-14	1.0612D+01	3.9462D-05	5.6653D-07	6.2987D-07	6.2651D+01
1400	3.2995D+02	3.2667D-01	2.9341D-01	2.6441D-14	1.0608D+01	3.9632D-05	5.6726D-07	6.3156D-07	6.2753D+01
1410	3.3322D+02	3.2703D-01	2.9332D-01	3.8086D-14	1.0604D+01	3.9803D-05	5.6800D-07	6.3327D-07	6.2853D+01
1420	3.3649D+02	3.2739D-01	2.9323D-01	5.4578D-14	1.0599D+01	3.9974D-05	5.6874D-07	6.3499D-07	6.2952D+01
1430	3.3977D+02	3.2775D-01	2.9314D-01	7.7817D-14	1.0595D+01	4.0145D-05	5.6948D-07	6.3673D-07	6.3050D+01
1440	3.4305D+02	3.2812D-01	2.9304D-01	1.1041D-13	1.0591D+01	4.0317D-05	5.7022D-07	6.3847D-07	6.3146D+01
1450	3.4633D+02	3.2849D-01	2.9295D-01	1.5589D-13	1.0586D+01	4.0488D-05	5.7096D-07	6.4022D-07	6.3241D+01
1460	3.4962D+02	3.2885D-01	2.9285D-01	2.1908D-13	1.0582D+01	4.0660D-05	5.7171D-07	6.4199D-07	6.3334D+01
1470	3.5291D+02	3.2923D-01	2.9276D-01	3.0646D-13	1.0578D+01	4.0831D-05	5.7246D-07	6.4376D-07	6.3426D+01
1480	3.5620D+02	3.2960D-01	2.9266D-01	4.2674D-13	1.0573D+01	4.1003D-05	5.7321D-07	6.4555D-07	6.3516D+01
1490	3.5950D+02	3.2998D-01	2.9257D-01	5.9160D-13	1.0569D+01	4.1175D-05	5.7396D-07	6.4735D-07	6.3605D+01
1500	3.6280D+02	3.3036D-01	2.9248D-01	8.1658D-13	1.0565D+01	4.1347D-05	5.7471D-07	6.4916D-07	6.3693D+01
1510	3.6611D+02	3.3075D-01	2.9238D-01	1.1223D-12	1.0560D+01	4.1519D-05	5.7547D-07	6.5098D-07	6.3779D+01
1520	3.6942D+02	3.3114D-01	2.9229D-01	1.5361D-12	1.0556D+01	4.1691D-05	5.7623D-07	6.5281D-07	6.3864D+01
1530	3.7273D+02	3.3153D-01	2.9220D-01	2.0938D-12	1.0552D+01	4.1864D-05	5.7699D-07	6.5466D-07	6.3948D+01
1540	3.7605D+02	3.3193D-01	2.9211D-01	2.8426D-12	1.0547D+01	4.2037D-05	5.7775D-07	6.5651D-07	6.4030D+01
1550	3.7937D+02	3.3234D-01	2.9203D-01	3.8439D-12	1.0543D+01	4.2209D-05	5.7851D-07	6.5837D-07	6.4111D+01
1560	3.8269D+02	3.3275D-01	2.9194D-01	5.1779D-12	1.0538D+01	4.2382D-05	5.7928D-07	6.6025D-07	6.4191D+01
1570	3.8602D+02	3.3317D-01	2.9186D-01	6.9484D-12	1.0534D+01	4.2555D-05	5.8005D-07	6.6213D-07	6.4270D+01
1580	3.8936D+02	3.3359D-01	2.9179D-01	9.2897D-12	1.0529D+01	4.2728D-05	5.8082D-07	6.6403D-07	6.4347D+01

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMAV (ATM/K)
1590	3.9269D+02	3.3402D-01	2.9172D-01	1.2375D-11	1.0525D+01	4.2901D-05	5.8159D-07	6.6593D-07	6.4423D+01
1600	3.9604D+02	3.3446D-01	2.9165D-01	1.6425D-11	1.0520D+01	4.3075D-05	5.8236D-07	6.6785D-07	6.4497D+01
1610	3.9938D+02	3.3491D-01		2.1724D-11	1.0516D+01	4.3248D-05			
1620	4.0274D+02	3.3536D-01		2.8634D-11	1.0511D+01	4.3422D-05			
1630	4.0609D+02	3.3583D-01		3.7615D-11	1.0506D+01	4.3595D-05			
1640	4.0945D+02	3.3630D-01		4.9248D-11	1.0502D+01	4.3769D-05			
1650	4.1282D+02	3.3678D-01		6.4269D-11	1.0497D+01	4.3943D-05			
1660	4.1619D+02	3.3728D-01		8.3602D-11	1.0493D+01	4.4117D-05			
1670	4.1956D+02	3.3778D-01		1.0841D-10	1.0488D+01	4.4292D-05			
1680	4.2294D+02	3.3830D-01		1.4014D-10	1.0483D+01	4.4466D-05			
1690	4.2633D+02	3.3883D-01		1.8062D-10	1.0479D+01	4.4640D-05			
1700	4.2972D+02	3.3937D-01		2.3208D-10	1.0474D+01	4.4815D-05			
1710	4.3312D+02	3.3992D-01		2.9735D-10	1.0469D+01	4.4990D-05			
1720	4.3652D+02	3.4049D-01		3.7986D-10	1.0464D+01	4.5164D-05			
1730	4.3993D+02	3.4107D-01		4.8391D-10	1.0460D+01	4.5339D-05			
1740	4.4334D+02	3.4167D-01		6.1474D-10	1.0455D+01	4.5514D-05			
1750	4.4676D+02	3.4229D-01		7.7880D-10	1.0450D+01	4.5690D-05			
1760	4.5019D+02	3.4292D-01		9.8401D-10	1.0445D+01	4.5865D-05			
1770	4.5362D+02	3.4357D-01		1.2400D-09	1.0441D+01	4.6040D-05			
1780	4.5706D+02	3.4424D-01		1.5585D-09	1.0436D+01	4.6216D-05			
1790	4.6050D+02	3.4493D-01		1.9539D-09	1.0431D+01	4.6392D-05			
1800	4.6396D+02	3.4564D-01		2.4434D-09	1.0426D+01	4.6567D-05			
1810	4.6742D+02	3.4637D-01		3.0481D-09	1.0421D+01	4.6743D-05			
1820	4.7088D+02	3.4712D-01		3.7931D-09	1.0416D+01	4.6919D-05			
1830	4.7436D+02	3.4789D-01		4.7089D-09	1.0411D+01	4.7096D-05			
1840	4.7784D+02	3.4869D-01		5.8321D-09	1.0406D+01	4.7272D-05			

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMAV (ATM/K)
1850	4.8133D+02	3.4951D-01		7.2066D-09	1.0401D+01	4.7448D-05			
1860	4.8483D+02	3.5036D-01		8.8847D-09	1.0397D+01	4.7625D-05			
1870	4.8834D+02	3.5123D-01		1.0929D-08	1.0392D+01	4.7801D-05			
1880	4.9186D+02	3.5213D-01		1.3414D-08	1.0387D+01	4.7978D-05			
1890	4.9538D+02	3.5306D-01		1.6429D-08	1.0382D+01	4.8155D-05			
1900	4.9892D+02	3.5402D-01		2.0079D-08	1.0377D+01	4.8332D-05			
1910	5.0246D+02	3.5500D-01		2.4487D-08	1.0372D+01	4.8509D-05			
1920	5.0602D+02	3.5602D-01		2.9802D-08	1.0366D+01	4.8686D-05			
1930	5.0958D+02	3.5707D-01		3.6197D-08	1.0361D+01	4.8864D-05			
1940	5.1316D+02	3.5816D-01		4.3876D-08	1.0356D+01	4.9041D-05			
1950	5.1675D+02	3.5928D-01		5.3079D-08	1.0351D+01	4.9218D-05			
1960	5.2034D+02	3.6043D-01		6.4088D-08	1.0346D+01	4.9396D-05			
1970	5.2395D+02	3.6162D-01		7.7232D-08	1.0341D+01	4.9574D-05			
1980	5.2758D+02	3.6285D-01		9.2897D-08	1.0336D+01	4.9752D-05			
1990	5.3121D+02	3.6412D-01		1.1153D-07	1.0331D+01	4.9930D-05			
2000	5.3486D+02	3.6543D-01		1.3366D-07	1.0326D+01	5.0108D-05			
2010	5.3852D+02	3.6678D-01		1.5989D-07	1.0320D+01	5.0286D-05			
2020	5.4220D+02	3.6817D-01		1.9093D-07	1.0315D+01	5.0464D-05			
2030	5.4588D+02	3.6960D-01		2.2759D-07	1.0310D+01	5.0643D-05			
2040	5.4959D+02	3.7108D-01		2.7084D-07	1.0305D+01	5.0821D-05			
2050	5.5331D+02	3.7261D-01		3.2175D-07	1.0299D+01	5.1000D-05			
2060	5.5704D+02	3.7418D-01		3.8159D-07	1.0294D+01	5.1179D-05			
2070	5.6079D+02	3.7581D-01		4.5181D-07	1.0289D+01	5.1358D-05			
2080	5.6456D+02	3.7748D-01		5.3409D-07	1.0284D+01	5.1537D-05			
2090	5.6834D+02	3.7920D-01		6.3035D-07	1.0278D+01	5.1716D-05			
2100	5.7214D+02	3.8098D-01		7.4277D-07	1.0273D+01	5.1895D-05			

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T (K)	H-R (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DENSITY (G/CC)	ALPHA (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMA (ATM/K)
2110	5.7596D+02	3.8281D-01		8.7390D-07	1.0268D+01	5.2074D-05			
2120	5.7980D+02	3.8470D-01		1.0266D-06	1.0262D+01	5.2253D-05			
2130	5.8365D+02	3.8664D-01		1.2041D-06	1.0257D+01	5.2433D-05			
2140	5.8753D+02	3.8864D-01		1.4103D-06	1.0252D+01	5.2613D-05			
2150	5.9143D+02	3.9070D-01		1.6493D-06	1.0246D+01	5.2792D-05			
2160	5.9534D+02	3.9282D-01		1.9260D-06	1.0241D+01	5.2972D-05			
2170	5.9928D+02	3.9500D-01		2.2460D-06	1.0235D+01	5.3152D-05			
2180	6.0324D+02	3.9725D-01		2.6154D-06	1.0230D+01	5.3332D-05			
2190	6.0723D+02	3.9956D-01		3.0414D-06	1.0224D+01	5.3512D-05			
2200	6.1124D+02	4.0194D-01		3.5318D-06	1.0219D+01	5.3692D-05			
2210	6.1527D+02	4.0438D-01		4.0958D-06	1.0213D+01	5.3873D-05			
2220	6.1932D+02	4.0690D-01		4.7436D-06	1.0208D+01	5.4053D-05			
2230	6.2341D+02	4.0948D-01		5.4866D-06	1.0202D+01	5.4234D-05			
2240	6.2751D+02	4.1214D-01		6.3377D-06	1.0197D+01	5.4414D-05			
2250	6.3165D+02	4.1487D-01		7.3114D-06	1.0191D+01	5.4595D-05			
2260	6.3581D+02	4.1768D-01		8.4241D-06	1.0186D+01	5.4776D-05			
2270	6.4000D+02	4.2056D-01		9.6940D-06	1.0180D+01	5.4957D-05			
2280	6.4422D+02	4.2352D-01		1.1142D-05	1.0174D+01	5.5138D-05			
2290	6.4847D+02	4.2657D-01		1.2790D-05	1.0169D+01	5.5319D-05			
2300	6.5275D+02	4.2969D-01		1.4664D-05	1.0163D+01	5.5500D-05			
2310	6.5707D+02	4.3289D-01		1.6794D-05	1.0158D+01	5.5681D-05			
2320	6.6141D+02	4.3618D-01		1.9210D-05	1.0152D+01	5.5863D-05			
2330	6.6579D+02	4.3956D-01		2.1948D-05	1.0146D+01	5.6044D-05			
2340	6.7020D+02	4.4302D-01		2.5048D-05	1.0141D+01	5.6226D-05			
2350	6.7465D+02	4.4657D-01		2.8554D-05	1.0135D+01	5.6408D-05			
2360	6.7914D+02	4.5021D-01		3.2514D-05	1.0129D+01	5.6589D-05			

THERMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMAV (ATM/K)
2370	6.8366D+02	4.5394D-01		3.6983D-05	1.0123D+01	5.6771D-05			
2380	6.8822D+02	4.5777D-01		4.2021D-05	1.0118D+01	5.6953D-05			
2390	6.9281D+02	4.6169D-01		4.7694D-05	1.0112D+01	5.7135D-05			
2400	6.9745D+02	4.6571D-01		5.4075D-05	1.0106D+01	5.7318D-05			
2410	7.0213D+02	4.6982D-01		6.1247D-05	1.0100D+01	5.7500D-05			
2420	7.0685D+02	4.7404D-01		6.9299D-05	1.0094D+01	5.7682D-05			
2430	7.1161D+02	4.7836D-01		7.8330D-05	1.0089D+01	5.7865D-05			
2440	7.1641D+02	4.8277D-01		8.8448D-05	1.0083D+01	5.8047D-05			
2450	7.2126D+02	4.8730D-01		9.9775D-05	1.0077D+01	5.8230D-05			
2460	7.2616D+02	4.9192D-01		1.1244D-04	1.0071D+01	5.8413D-05			
2470	7.3110D+02	4.9666D-01		1.2659D-04	1.0065D+01	5.8595D-05			
2480	7.3609D+02	5.0150D-01		1.4239D-04	1.0059D+01	5.8778D-05			
2490	7.4113D+02	5.0646D-01		1.6001D-04	1.0053D+01	5.8961D-05			
2500	7.4622D+02	5.1152D-01		1.7964D-04	1.0047D+01	5.9144D-05			
2510	7.5136D+02	5.1670D-01		2.0149D-04	1.0041D+01	5.9328D-05			
2520	7.5656D+02	5.2200D-01		2.2579D-04	1.0035D+01	5.9511D-05			
2530	7.6180D+02	5.2741D-01		2.5280D-04	1.0029D+01	5.9694D-05			
2540	7.6711D+02	5.3294D-01		2.8279D-04	1.0023D+01	5.9878D-05			
2550	7.7246D+02	5.3858D-01		3.1606D-04	1.0017D+01	6.0061D-05			
2560	7.7788D+02	5.4435D-01		3.5293D-04	1.0011D+01	6.0245D-05			
2570	7.8335D+02	5.5024D-01		3.9377D-04	1.0005D+01	6.0428D-05			
2580	7.8888D+02	5.5626D-01		4.3895D-04	9.9993D+00	6.0612D-05			
2590	7.9448D+02	5.6240D-01		4.8892D-04	9.9932D+00	6.0796D-05			
2600	8.0013D+02	5.6867D-01		5.4412D-04	9.9872D+00	6.0980D-05			
2610	8.0585D+02	5.7506D-01		6.0505D-04	9.9811D+00	6.1164D-05			
2620	8.1163D+02	5.8159D-01		6.7227D-04	9.9749D+00	6.1348D-05			

THEPMDYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMAV (ATM/K)
2630	8.1748D+02	5.8824D-01		7.4635D-04	9.9688D+00	6.1532D-05			
2640	8.2340D+02	5.9503D-01		8.2794D-04	9.9627D+00	6.1717D-05			
2650	8.2938D+02	6.0196D-01		9.1773D-04	9.9565D+00	6.1901D-05			
2660	8.3544D+02	6.0902D-01		1.0165D-03	9.9503D+00	6.2086D-05			
2670	8.4156D+02	6.1621D-01		1.1250D-03	9.9441D+00	6.2270D-05			
2680	8.4926D+02	6.1860D-01		1.2441D-03	9.9379D+00	6.2455D-05			
2690	8.5545D+02	6.1860D-01		1.3749D-03	9.9317D+00	6.2639D-05			
2700	8.6163D+02	6.1860D-01		1.5182D-03	9.9255D+00	6.2824D-05			
2710	8.6782D+02	6.1860D-01		1.6753D-03	9.9192D+00	6.3009D-05			
2720	8.7401D+02	6.1860D-01		1.8473D-03	9.9130D+00	6.3194D-05			
2730	8.8019D+02	6.1860D-01		2.0354D-03	9.9067D+00	6.3379D-05			
2740	8.8638D+02	6.1860D-01		2.2412D-03	9.9004D+00	6.3564D-05			
2750	8.9256D+02	6.1860D-01		2.4660D-03	9.8941D+00	6.3749D-05			
2760	8.9875D+02	6.1860D-01		2.7115D-03	9.8878D+00	6.3935D-05			
2770	9.0494D+02	6.1860D-01		2.9795D-03	9.8814D+00	6.4120D-05			
2780	9.1112D+02	6.1860D-01		3.2716D-03	9.8751D+00	6.4305D-05			
2790	9.1731D+02	6.1860D-01		3.5900D-03	9.8687D+00	6.4491D-05			
2800	9.2349D+02	6.1860D-01		3.9368D-03	9.8624D+00	6.4676D-05			
2810	9.2968D+02	6.1860D-01		4.3142D-03	9.8560D+00	6.4862D-05			
2820	9.3587D+02	6.1860D-01		4.7248D-03	9.8496D+00	6.5048D-05			
2830	9.4205D+02	6.1860D-01		5.1711D-03	9.8431D+00	6.5233D-05			
2840	9.4824D+02	6.1860D-01		5.6560D-03	9.8367D+00	6.5419D-05			
2850	9.5442D+02	6.1860D-01		6.1824D-03	9.8302D+00	6.5605D-05			
2860	9.6061D+02	6.1860D-01		6.7536D-03	9.8238D+00	6.5791D-05			
2870	9.6680D+02	6.1860D-01		7.3731D-03	9.8173D+00	6.5977D-05			
2880	9.7298D+02	6.1860D-01		8.0445D-03	9.8108D+00	6.6163D-05			

THEMODYNAMIC PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMA (ATM/K)
2890	9.7917D+02	6.1860D-01		8.7718D-03	9.8043D+00	6.6350D-05			
2900	9.8535D+02	6.1860D-01		9.5590D-03	9.7978D+00	6.6536D-05			
2910	9.9154D+02	6.1860D-01		1.0411D-02	9.7912D+00	6.6722D-05			
2920	9.9773D+02	6.1860D-01		1.1332D-02	9.7847D+00	6.6909D-05			
2930	1.0039D+03	6.1860D-01		1.2327D-02	9.7781D+00	6.7095D-05			
2940	1.0101D+03	6.1860D-01		1.3402D-02	9.7715D+00	6.7282D-05			
2950	1.0163D+03	6.1860D-01		1.4563D-02	9.7649D+00	6.7468D-05			
2960	1.0225D+03	6.1860D-01		1.5815D-02	9.7583D+00	6.7655D-05			
2970	1.0287D+03	6.1860D-01		1.7166D-02	9.7517D+00	6.7842D-05			
2980	1.0348D+03	6.1860D-01		1.8621D-02	9.7451D+00	6.8029D-05			
2990	1.0410D+03	6.1860D-01		2.0189D-02	9.7384D+00	6.8215D-05			
3000	1.0472D+03	6.1860D-01		2.1878D-02	9.7317D+00	6.8402D-05			
3010	1.0534D+03	6.1860D-01		2.3694D-02	9.7251D+00	6.8589D-05			
3020	1.0596D+03	6.1860D-01		2.5648D-02	9.7184D+00	6.8777D-05			
3030	1.0658D+03	6.1860D-01		2.7749D-02	9.7116D+00	6.8964D-05			
3040	1.0720D+03	6.1860D-01		3.0006D-02	9.7049D+00	6.9151D-05			
3050	1.0781D+03	6.1860D-01		3.2430D-02	9.6982D+00	6.9338D-05			
3060	1.0843D+03	6.1860D-01		3.5032D-02	9.6914D+00	6.9526D-05			
3070	1.0905D+03	6.1860D-01		3.7824D-02	9.6847D+00	6.9713D-05			
3080	1.0967D+03	6.1860D-01		4.0819D-02	9.6779D+00	6.9900D-05			
3090	1.1029D+03	6.1860D-01		4.4028D-02	9.6711D+00	7.0088D-05			
3100	1.1091D+03	6.1860D-01		4.7466D-02	9.6643D+00	7.0276D-05			
3110	1.1153D+03	6.1860D-01		5.1149D-02	9.6575D+00	7.0463D-05			
3120	1.1214D+03	6.1860D-01		5.5091D-02	9.6506D+00	7.0651D-05			

**TRANSPORT PROPERTIES OF SOLID UO_2
IN CGS UNITS**

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (CM**2/S)	CONDUCTIVITY (W/CM-K)	EMISSIVITY	ELECCOND (1/OHM-CM)
298	3.2003D-02	8.2685D-02	8.2381D-01	1.41D-03
300	3.1816D-02	8.2450D-02	8.2381D-01	1.46D-03
310	3.0856D-02	8.1202D-02	8.2386D-01	1.80D-03
320	2.9970D-02	7.9987D-02	8.2390D-01	2.19D-03
330	2.9148D-02	7.8805D-02	8.2394D-01	2.62D-03
340	2.8383D-02	7.7652D-02	8.2399D-01	3.12D-03
350	2.7668D-02	7.6530D-02	8.2403D-01	3.66D-03
360	2.6998D-02	7.5435D-02	8.2407D-01	4.27D-03
370	2.6368D-02	7.4368D-02	8.2412D-01	4.93D-03
380	2.5773D-02	7.3327D-02	8.2416D-01	5.65D-03
390	2.5211D-02	7.2312D-02	8.2420D-01	6.44D-03
400	2.4678D-02	7.1321D-02	8.2425D-01	7.28D-03
410	2.4172D-02	7.0354D-02	8.2429D-01	8.19D-03
420	2.3690D-02	6.9410D-02	8.2433D-01	9.16D-03
430	2.3230D-02	6.8487D-02	8.2438D-01	1.02D-02
440	2.2791D-02	6.7586D-02	8.2442D-01	1.13D-02
450	2.2370D-02	6.6706D-02	8.2446D-01	1.24D-02
460	2.1967D-02	6.5845D-02	8.2451D-01	1.36D-02
470	2.1580D-02	6.5004D-02	8.2455D-01	1.49D-02
480	2.1208D-02	6.4181D-02	8.2459D-01	1.62D-02
490	2.0849D-02	6.3376D-02	8.2464D-01	1.76D-02
500	2.0504D-02	6.2589D-02	8.2468D-01	1.91D-02
510	2.0171D-02	6.1818D-02	8.2472D-01	2.06D-02
520	1.9850D-02	6.1064D-02	8.2477D-01	2.21D-02
530	1.9539D-02	6.0326D-02	8.2481D-01	2.37D-02
540	1.9238D-02	5.9603D-02	8.2485D-01	2.54D-02

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (CM**2/S)	CONDUCTIVITY (W/CM-K)	EMISSIVITY	ELECCOND (1/OHM-CM)
550	1.8947D-02	5.8895D-02	8.2490D-01	2.71D-02
560	1.8664D-02	5.8201D-02	8.2494D-01	2.88D-02
570	1.8391D-02	5.7522D-02	8.2498D-01	3.06D-02
580	1.8125D-02	5.6856D-02	8.2502D-01	3.24D-02
590	1.7867D-02	5.6203D-02	8.2507D-01	3.43D-02
600	1.7616D-02	5.5564D-02	8.2511D-01	3.62D-02
610	1.7372D-02	5.4936D-02	8.2515D-01	3.82D-02
620	1.7135D-02	5.4321D-02	8.2520D-01	4.02D-02
630	1.6904D-02	5.3718D-02	8.2524D-01	4.22D-02
640	1.6679D-02	5.3126D-02	8.2528D-01	4.43D-02
650	1.6460D-02	5.2545D-02	8.2533D-01	4.64D-02
660	1.6246D-02	5.1975D-02	8.2537D-01	4.85D-02
670	1.6038D-02	5.1416D-02	8.2541D-01	5.07D-02
680	1.5834D-02	5.0866D-02	8.2546D-01	5.28D-02
690	1.5635D-02	5.0327D-02	8.2550D-01	5.51D-02
700	1.5441D-02	4.9798D-02	8.2554D-01	5.73D-02
710	1.5252D-02	4.9278D-02	8.2559D-01	5.96D-02
720	1.5067D-02	4.8767D-02	8.2563D-01	6.18D-02
730	1.4886D-02	4.8265D-02	8.2567D-01	6.42D-02
740	1.4709D-02	4.7772D-02	8.2572D-01	6.65D-02
750	1.4535D-02	4.7288D-02	8.2576D-01	6.88D-02
760	1.4366D-02	4.6812D-02	8.2580D-01	7.12D-02
770	1.4200D-02	4.6344D-02	8.2585D-01	7.36D-02
780	1.4037D-02	4.5884D-02	8.2589D-01	7.60D-02
790	1.3878D-02	4.5432D-02	8.2593D-01	7.84D-02
800	1.3722D-02	4.4987D-02	8.2598D-01	8.08D-02

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (CM**2/S)	CONDUCTIVITY (W/CM-K)	EMISSIVITY	ELECCOND (1/OHM-CM)
810	1.3569D-02	4.4549D-02	8.2602D-01	8.32D-02
820	1.3420D-02	4.4119D-02	8.2606D-01	8.57D-02
830	1.3273D-02	4.3696D-02	8.2610D-01	8.81D-02
840	1.3129D-02	4.3279D-02	8.2615D-01	9.06D-02
850	1.2987D-02	4.2870D-02	8.2619D-01	9.31D-02
860	1.2849D-02	4.2467D-02	8.2623D-01	9.56D-02
870	1.2713D-02	4.2070D-02	8.2628D-01	9.81D-02
880	1.2579D-02	4.1679D-02	8.2632D-01	1.01D-01
890	1.2448D-02	4.1295D-02	8.2636D-01	1.03D-01
900	1.2320D-02	4.0917D-02	8.2641D-01	1.06D-01
910	1.2193D-02	4.0544D-02	8.2645D-01	1.08D-01
920	1.2069D-02	4.0177D-02	8.2649D-01	1.11D-01
930	1.1947D-02	3.9816D-02	8.2654D-01	1.13D-01
940	1.1828D-02	3.9460D-02	8.2658D-01	1.16D-01
950	1.1710D-02	3.9110D-02	8.2662D-01	1.18D-01
960	1.1594D-02	3.8764D-02	8.2667D-01	1.21D-01
970	1.1480D-02	3.8424D-02	8.2671D-01	1.23D-01
980	1.1369D-02	3.8089D-02	8.2675D-01	1.26D-01
990	1.1259D-02	3.7759D-02	8.2680D-01	1.28D-01
1000	1.1151D-02	3.7434D-02	8.2684D-01	1.31D-01
1010	1.1044D-02	3.7113D-02	8.2688D-01	1.33D-01
1020	1.0940D-02	3.6797D-02	8.2693D-01	1.36D-01
1030	1.0837D-02	3.6485D-02	8.2697D-01	1.38D-01
1040	1.0735D-02	3.6178D-02	8.2701D-01	1.41D-01
1050	1.0636D-02	3.5876D-02	8.2706D-01	1.43D-01
1060	1.0538D-02	3.5577D-02	8.2710D-01	1.46D-01

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (CM**2/S)	CONDUCTIVITY (W/CM-K)	EMISSIVITY	ELECCOND (1/OHM-CM)
1070	1.0441D-02	3.5283D-02	8.2714D-01	1.48D-01
1080	1.0346D-02	3.4993D-02	8.2719D-01	1.51D-01
1090	1.0253D-02	3.4707D-02	8.2723D-01	1.53D-01
1100	1.0160D-02	3.4425D-02	8.2727D-01	1.56D-01
1110	1.0070D-02	3.4147D-02	8.2731D-01	1.58D-01
1120	9.9804D-03	3.3873D-02	8.2736D-01	1.61D-01
1130	9.8925D-03	3.3602D-02	8.2740D-01	1.63D-01
1140	9.8059D-03	3.3336D-02	8.2744D-01	1.66D-01
1150	9.7205D-03	3.3072D-02	8.2749D-01	1.68D-01
1160	9.6365D-03	3.2813D-02	8.2753D-01	1.71D-01
1170	9.5537D-03	3.2557D-02	8.2757D-01	1.73D-01
1180	9.4722D-03	3.2305D-02	8.2762D-01	1.75D-01
1190	9.3918D-03	3.2056D-02	8.2766D-01	1.78D-01
1200	9.3126D-03	3.1810D-02	8.2770D-01	1.80D-01
1210	9.2346D-03	3.1568D-02	8.2775D-01	1.83D-01
1220	9.1578D-03	3.1329D-02	8.2779D-01	1.85D-01
1230	9.0820D-03	3.1093D-02	8.2783D-01	1.87D-01
1240	9.0074D-03	3.0860D-02	8.2788D-01	1.90D-01
1250	8.9339D-03	3.0631D-02	8.2792D-01	1.92D-01
1260	8.8614D-03	3.0405D-02	8.2796D-01	1.95D-01
1270	8.7900D-03	3.0182D-02	8.2801D-01	1.97D-01
1280	8.7196D-03	2.9962D-02	8.2805D-01	1.99D-01
1290	8.6502D-03	2.9745D-02	8.2809D-01	2.02D-01
1300	8.5818D-03	2.9531D-02	8.2814D-01	2.04D-01
1310	8.5145D-03	2.9320D-02	8.2818D-01	2.06D-01
1320	8.4480D-03	2.9111D-02	8.2822D-01	2.09D-01

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (CM**2/S)	CONDUCTIVITY (W/CM-K)	EMISSIVITY	ELECCOND (1/OHM-CM)
1330	8.3826D-03	2.8906D-02	8.2827D-01	2.11D-01
1340	8.3181D-03	2.8704D-02	8.2831D-01	2.13D-01
1350	8.2546D-03	2.8505D-02	8.2835D-01	2.15D-01
1360	8.1919D-03	2.8308D-02	8.2840D-01	2.18D-01
1370	8.1302D-03	2.8114D-02	8.2844D-01	2.20D-01
1380	8.0694D-03	2.7924D-02	8.2848D-01	2.22D-01
1390	8.0095D-03	2.7736D-02	8.2852D-01	2.24D-01
1400	7.9504D-03	2.7550D-02	8.2857D-01	2.58D-01
1410	7.8923D-03	2.7368D-02	8.2861D-01	2.76D-01
1420	7.8350D-03	2.7188D-02	8.2865D-01	2.95D-01
1430	7.7785D-03	2.7011D-02	8.2870D-01	3.15D-01
1440	7.7229D-03	2.6837D-02	8.2874D-01	3.36D-01
1450	7.6681D-03	2.6666D-02	8.2878D-01	3.58D-01
1460	7.6142D-03	2.6497D-02	8.2883D-01	3.81D-01
1470	7.5611D-03	2.6331D-02	8.2887D-01	4.06D-01
1480	7.5088D-03	2.6168D-02	8.2891D-01	4.32D-01
1490	7.4573D-03	2.6008D-02	8.2896D-01	4.59D-01
1500	7.4066D-03	2.5850D-02	8.2900D-01	4.87D-01
1510	7.3567D-03	2.5696D-02	8.2904D-01	5.16D-01
1520	7.3076D-03	2.5544D-02	8.2909D-01	5.47D-01
1530	7.2593D-03	2.5394D-02	8.2913D-01	5.80D-01
1540	7.2117D-03	2.5248D-02	8.2917D-01	6.13D-01
1550	7.1650D-03	2.5104D-02	8.2922D-01	6.49D-01
1560	7.1190D-03	2.4963D-02	8.2926D-01	6.85D-01
1570	7.0737D-03	2.4825D-02	8.2930D-01	7.24D-01
1580	7.0292D-03	2.4690D-02	8.2935D-01	7.64D-01

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (CM**2/S)	CONDUCTIVITY (W/CM-K)	EMISSIVITY	ELECCOND (1/OHM-CM)
1590	6.9855D-03	2.4557D-02	8.2939D-01	8.06D-01
1600	6.9425D-03	2.4428D-02	8.2943D-01	8.49D-01
1610	6.9003D-03	2.4301D-02	8.2948D-01	8.94D-01
1620	6.8588D-03	2.4177D-02	8.2952D-01	9.41D-01
1630	6.8181D-03	2.4056D-02	8.2956D-01	9.90D-01
1640	6.7781D-03	2.3938D-02	8.2960D-01	1.04D+00
1650	6.7388D-03	2.3823D-02	8.2965D-01	1.09D+00
1660	6.7002D-03	2.3711D-02	8.2969D-01	1.15D+00
1670	6.6624D-03	2.3602D-02	8.2973D-01	1.20D+00
1680	6.6253D-03	2.3496D-02	8.2978D-01	1.26D+00
1690	6.5889D-03	2.3393D-02	8.2982D-01	1.32D+00
1700	6.5533D-03	2.3293D-02	8.2986D-01	1.39D+00
1710	6.5183D-03	2.3197D-02	8.2991D-01	1.45D+00
1720	6.4841D-03	2.3103D-02	8.2995D-01	1.52D+00
1730	6.4506D-03	2.3013D-02	8.2999D-01	1.59D+00
1740	6.4178D-03	2.2925D-02	8.3004D-01	1.66D+00
1750	6.3857D-03	2.2842D-02	8.3008D-01	1.74D+00
1760	6.3543D-03	2.2761D-02	8.3012D-01	1.81D+00
1770	6.3236D-03	2.2683D-02	8.3017D-01	1.89D+00
1780	6.2936D-03	2.2609D-02	8.3021D-01	1.97D+00
1790	6.2644D-03	2.2539D-02	8.3025D-01	2.06D+00
1800	6.2358D-03	2.2471D-02	8.3030D-01	2.15D+00
1810	6.2079D-03	2.2408D-02	8.3034D-01	2.24D+00
1820	6.1807D-03	2.2347D-02	8.3038D-01	2.33D+00
1830	6.1541D-03	2.2290D-02	8.3043D-01	2.42D+00
1840	6.1283D-03	2.2237D-02	8.3047D-01	2.52D+00

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (CM**2/S)	CONDUCTIVITY (W/CM-K)	EMISSIVITY	ELECCOND (1/OHM-CM)
1850	6.1032D-03	2.2188D-02	8.3051D-01	2.62D+00
1860	6.0787D-03	2.2142D-02	8.3056D-01	2.73D+00
1870	6.0549D-03	2.2099D-02	8.3060D-01	2.83D+00
1880	6.0318D-03	2.2061D-02	8.3064D-01	2.94D+00
1890	6.0094D-03	2.2026D-02	8.3069D-01	3.05D+00
1900	5.9876D-03	2.1995D-02	8.3073D-01	3.17D+00
1910	5.9665D-03	2.1968D-02	8.3077D-01	3.29D+00
1920	5.9461D-03	2.1945D-02	8.3081D-01	3.41D+00
1930	5.9263D-03	2.1926D-02	8.3086D-01	3.54D+00
1940	5.9072D-03	2.1911D-02	8.3090D-01	3.66D+00
1950	5.8888D-03	2.1900D-02	8.3094D-01	3.80D+00
1960	5.8710D-03	2.1893D-02	8.3099D-01	3.93D+00
1970	5.8538D-03	2.1891D-02	8.3103D-01	4.07D+00
1980	5.8373D-03	2.1892D-02	8.3107D-01	4.21D+00
1990	5.8214D-03	2.1898D-02	8.3112D-01	4.36D+00
2000	5.8062D-03	2.1908D-02	8.3116D-01	4.50D+00
2010	5.7916D-03	2.1923D-02	8.3120D-01	4.66D+00
2020	5.7776D-03	2.1942D-02	8.3125D-01	4.81D+00
2030	5.7642D-03	2.1965D-02	8.3129D-01	4.97D+00
2040	5.7514D-03	2.1993D-02	8.3133D-01	5.13D+00
2050	5.7393D-03	2.2026D-02	8.3138D-01	5.30D+00
2060	5.7277D-03	2.2063D-02	8.3142D-01	5.47D+00
2070	5.7168D-03	2.2105D-02	8.3146D-01	5.64D+00
2080	5.7064D-03	2.2151D-02	8.3151D-01	5.82D+00
2090	5.6966D-03	2.2203D-02	8.3155D-01	6.00D+00
2100	5.6874D-03	2.2259D-02	8.3159D-01	6.19D+00

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (CM**2/S)	CONDUCTIVITY (W/CM-K)	EMISSIVITY	ELECCOND (1/OHM-CM)
2110	5.6787D-03	2.2321D-02	8.3164D-01	6.38D+00
2120	5.6706D-03	2.2387D-02	8.3168D-01	6.57D+00
2130	5.6631D-03	2.2458D-02	8.3172D-01	6.77D+00
2140	5.6561D-03	2.2535D-02	8.3177D-01	6.97D+00
2150	5.6496D-03	2.2616D-02	8.3181D-01	7.18D+00
2160	5.6436D-03	2.2703D-02	8.3185D-01	7.39D+00
2170	5.6382D-03	2.2795D-02	8.3190D-01	7.60D+00
2180	5.6333D-03	2.2892D-02	8.3194D-01	7.82D+00
2190	5.6288D-03	2.2995D-02	8.3198D-01	8.04D+00
2200	5.6249D-03	2.3103D-02	8.3202D-01	8.26D+00
2210	5.6214D-03	2.3217D-02	8.3207D-01	8.49D+00
2220	5.6184D-03	2.3336D-02	8.3211D-01	8.73D+00
2230	5.6158D-03	2.3461D-02	8.3215D-01	8.97D+00
2240	5.6137D-03	2.3592D-02	8.3220D-01	9.21D+00
2250	5.6120D-03	2.3728D-02	8.3224D-01	9.46D+00
2260	5.6108D-03	2.3870D-02	8.3228D-01	9.71D+00
2270	5.6099D-03	2.4018D-02	8.3233D-01	9.96D+00
2280	5.6095D-03	2.4172D-02	8.3237D-01	1.02D+01
2290	5.6094D-03	2.4332D-02	8.3241D-01	1.05D+01
2300	5.6098D-03	2.4498D-02	8.3246D-01	1.08D+01
2310	5.6104D-03	2.4670D-02	8.3250D-01	1.10D+01
2320	5.6115D-03	2.4848D-02	8.3254D-01	1.13D+01
2330	5.6129D-03	2.5032D-02	8.3259D-01	1.16D+01
2340	5.6146D-03	2.5223D-02	8.3263D-01	1.19D+01
2350	5.6166D-03	2.5420D-02	8.3267D-01	1.22D+01
2360	5.6189D-03	2.5624D-02	8.3272D-01	1.25D+01

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (CM**2/S)	CONDUCTIVITY (W/CM-K)	EMISSIVITY	ELECCOND (1/OHM-CM)
2370	5.6216D-03	2.5834D-02	8.3276D-01	1.28D+01
2380	5.6245D-03	2.6050D-02	8.3280D-01	1.31D+01
2390	5.6277D-03	2.6273D-02	8.3285D-01	1.34D+01
2400	5.6311D-03	2.6503D-02	8.3289D-01	1.37D+01
2410	5.6348D-03	2.6739D-02	8.3293D-01	1.40D+01
2420	5.6387D-03	2.6982D-02	8.3298D-01	1.43D+01
2430	5.6429D-03	2.7232D-02	8.3302D-01	1.47D+01
2440	5.6473D-03	2.7489D-02	8.3306D-01	1.50D+01
2450	5.6518D-03	2.7753D-02	8.3310D-01	1.53D+01
2460	5.6566D-03	2.8024D-02	8.3315D-01	1.57D+01
2470	5.6615D-03	2.8301D-02	8.3319D-01	1.60D+01
2480	5.6666D-03	2.8586D-02	8.3323D-01	1.64D+01
2490	5.6719D-03	2.8879D-02	8.3328D-01	1.68D+01
2500	5.6773D-03	2.9178D-02	8.3332D-01	1.71D+01
2510	5.6828D-03	2.9485D-02	8.3336D-01	1.75D+01
2520	5.6885D-03	2.9799D-02	8.3341D-01	1.79D+01
2530	5.6943D-03	3.0120D-02	8.3345D-01	1.82D+01
2540	5.7001D-03	3.0449D-02	8.3349D-01	1.86D+01
2550	5.7061D-03	3.0786D-02	8.3354D-01	1.90D+01
2560	5.7122D-03	3.1130D-02	8.3358D-01	1.94D+01
2570	5.7184D-03	3.1482D-02	8.3362D-01	1.98D+01
2580	5.7246D-03	3.1841D-02	8.3367D-01	2.02D+01
2590	5.7309D-03	3.2209D-02	8.3371D-01	2.06D+01
2600	5.7372D-03	3.2584D-02	8.3375D-01	2.10D+01
2610	5.7436D-03	3.2967D-02	8.3380D-01	2.14D+01
2620	5.7500D-03	3.3358D-02	8.3384D-01	2.19D+01

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (CM**2/S)	CONDUCTIVITY (W/CM-K)	EMISSIVITY	ELECCOND (1/OHM-CM)
2630	5.7565D-03	3.3757D-02	8.3388D-01	2.23D+01
2640	5.7630D-03	3.4164D-02	8.3393D-01	2.27D+01
2650	5.7695D-03	3.4579D-02	8.3397D-01	2.32D+01
2660	5.7760D-03	3.5002D-02	8.3401D-01	2.36D+01
2670	5.7825D-03	3.5433D-02	8.3406D-01	2.40D+01
2680	5.7599D-03	3.5410D-02	8.3410D-01	2.45D+01
2690	5.7598D-03	3.5387D-02	8.3414D-01	2.50D+01
2700	5.7597D-03	3.5364D-02	8.3419D-01	2.54D+01
2710	5.7597D-03	3.5342D-02	8.3423D-01	2.59D+01
2720	5.7596D-03	3.5319D-02	8.3427D-01	2.64D+01
2730	5.7596D-03	3.5296D-02	8.3431D-01	2.68D+01
2740	5.7595D-03	3.5274D-02	8.3436D-01	2.73D+01
2750	5.7595D-03	3.5251D-02	8.3440D-01	2.78D+01
2760	5.7595D-03	3.5228D-02	8.3444D-01	2.83D+01
2770	5.7594D-03	3.5206D-02	8.3449D-01	2.88D+01
2780	5.7594D-03	3.5183D-02	8.3453D-01	2.93D+01
2790	5.7594D-03	3.5160D-02	8.3457D-01	2.98D+01
2800	5.7594D-03	3.5138D-02	8.3462D-01	3.03D+01
2810	5.7595D-03	3.5115D-02	8.3466D-01	3.09D+01
2820	5.7595D-03	3.5092D-02	8.3470D-01	3.14D+01
2830	5.7595D-03	3.5070D-02	8.3475D-01	3.19D+01
2840	5.7596D-03	3.5047D-02	8.3479D-01	3.24D+01
2850	5.7596D-03	3.5024D-02	8.3483D-01	3.30D+01
2860	5.7597D-03	3.5002D-02	8.3488D-01	3.35D+01
2870	5.7597D-03	3.4979D-02	8.3492D-01	3.41D+01
2880	5.7598D-03	3.4956D-02	8.3496D-01	3.46D+01

TRANSPORT PROPERTIES OF SOLID URANIUM DIOXIDE

T (K)	DIFFUSIVITY (CM**2/S)	CONDUCTIVITY (W/CM-K)	EMISSIVITY	ELECCOND (1/OHM-CM)
2890	5.7599D-03	3.4934D-02	8.3501D-01	3.52D+01
2900	5.7600D-03	3.4911D-02	8.3505D-01	3.58D+01
2910	5.7601D-03	3.4888D-02	8.3509D-01	3.63D+01
2920	5.7602D-03	3.4865D-02	8.3514D-01	3.69D+01
2930	5.7603D-03	3.4843D-02	8.3518D-01	3.75D+01
2940	5.7605D-03	3.4820D-02	8.3522D-01	3.81D+01
2950	5.7606D-03	3.4797D-02	8.3527D-01	3.87D+01
2960	5.7608D-03	3.4775D-02	8.3531D-01	3.92D+01
2970	5.7609D-03	3.4752D-02	8.3535D-01	3.98D+01
2980	5.7611D-03	3.4729D-02	8.3540D-01	4.05D+01
2990	5.7612D-03	3.4707D-02	8.3544D-01	4.11D+01
3000	5.7614D-03	3.4684D-02	8.3548D-01	4.17D+01
3010	5.7616D-03	3.4661D-02	8.3552D-01	4.23D+01
3020	5.7618D-03	3.4639D-02	8.3557D-01	4.29D+01
3030	5.7620D-03	3.4616D-02	8.3561D-01	4.36D+01
3040	5.7622D-03	3.4593D-02	8.3565D-01	4.42D+01
3050	5.7625D-03	3.4571D-02	8.3570D-01	4.48D+01
3060	5.7627D-03	3.4548D-02	8.3574D-01	4.55D+01
3070	5.7629D-03	3.4525D-02	8.3578D-01	4.61D+01
3080	5.7632D-03	3.4503D-02	8.3583D-01	4.68D+01
3090	5.7634D-03	3.4480D-02	8.3587D-01	4.74D+01
3100	5.7637D-03	3.4457D-02	8.3591D-01	4.81D+01
3110	5.7640D-03	3.4435D-02	8.3596D-01	4.88D+01
3120	5.7643D-03	3.4412D-02	8.3600D-01	4.95D+01

**THERMODYNAMIC PROPERTIES OF LIQUID UO_2
IN CGS UNITS**

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	PH (J/G)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMAV (1/ATM)
3120	1.3986D+03	4.8495D-01	3.9174D-01	5.5175D-02	1.9347D+03	8.8600D+00	1.0339D-04	3.3054D-06	4.0918D-06	2.5268D+01
3130	1.4034D+03	4.8495D-01	3.9181D-01	5.8839D-02	1.9329D+03	8.8508D+00	1.0349D-04	3.3294D-06	4.1208D-06	2.5114D+01
3140	1.4083D+03	4.8495D-01	3.9189D-01	6.2719D-02	1.9312D+03	8.8417D+00	1.0360D-04	3.3537D-06	4.1501D-06	2.4963D+01
3150	1.4131D+03	4.8495D-01	3.9196D-01	6.6823D-02	1.9295D+03	8.8325D+00	1.0371D-04	3.3783D-06	4.1797D-06	2.4812D+01
3160	1.4180D+03	4.8495D-01	3.9204D-01	7.1162D-02	1.9277D+03	8.8234D+00	1.0382D-04	3.4030D-06	4.2095D-06	2.4662D+01
3170	1.4228D+03	4.8495D-01	3.9212D-01	7.5750D-02	1.9260D+03	8.8142D+00	1.0392D-04	3.4281D-06	4.2396D-06	2.4512D+01
3180	1.4277D+03	4.8495D-01	3.9220D-01	8.0597D-02	1.9243D+03	8.8050D+00	1.0403D-04	3.4534D-06	4.2700D-06	2.4363D+01
3190	1.4325D+03	4.8495D-01	3.9228D-01	8.5716D-02	1.9225D+03	8.7959D+00	1.0414D-04	3.4789D-06	4.3007D-06	2.4215D+01
3200	1.4374D+03	4.8495D-01	3.9237D-01	9.1120D-02	1.9208D+03	8.7867D+00	1.0425D-04	3.5047D-06	4.3317D-06	2.4066D+01
3210	1.4422D+03	4.8495D-01	3.9245D-01	9.6822D-02	1.9191D+03	8.7776D+00	1.0436D-04	3.5308D-06	4.3629D-06	2.3919D+01
3220	1.4471D+03	4.8495D-01	3.9254D-01	1.0284D-01	1.9173D+03	8.7684D+00	1.0447D-04	3.5572D-06	4.3945D-06	2.3772D+01
3230	1.4519D+03	4.8495D-01	3.9264D-01	1.0918D-01	1.9156D+03	8.7592D+00	1.0458D-04	3.5838D-06	4.4264D-06	2.3626D+01
3240	1.4568D+03	4.8495D-01	3.9273D-01	1.1586D-01	1.9138D+03	8.7501D+00	1.0468D-04	3.6107D-06	4.4585D-06	2.3480D+01
3250	1.4616D+03	4.8495D-01	3.9282D-01	1.2290D-01	1.9121D+03	8.7409D+00	1.0479D-04	3.6379D-06	4.4910D-06	2.3334D+01
3260	1.4665D+03	4.8495D-01	3.9292D-01	1.3032D-01	1.9104D+03	8.7318D+00	1.0490D-04	3.6653D-06	4.5238D-06	2.3189D+01
3270	1.4713D+03	4.8495D-01	3.9302D-01	1.3813D-01	1.9086D+03	8.7226D+00	1.0501D-04	3.6931D-06	4.5569D-06	2.3045D+01
3280	1.4762D+03	4.8495D-01	3.9312D-01	1.4634D-01	1.9069D+03	8.7134D+00	1.0512D-04	3.7211D-06	4.5903D-06	2.2901D+01
3290	1.4810D+03	4.8495D-01	3.9323D-01	1.5498D-01	1.9052D+03	8.7043D+00	1.0524D-04	3.7495D-06	4.6241D-06	2.2758D+01
3300	1.4859D+03	4.8495D-01	3.9333D-01	1.6407D-01	1.9034D+03	8.6951D+00	1.0535D-04	3.7781D-06	4.6582D-06	2.2615D+01
3310	1.4907D+03	4.8495D-01	3.9344D-01	1.7361D-01	1.9017D+03	8.6860D+00	1.0546D-04	3.8071D-06	4.6926D-06	2.2473D+01
3320	1.4956D+03	4.8495D-01	3.9355D-01	1.8365D-01	1.8999D+03	8.6768D+00	1.0557D-04	3.8364D-06	4.7273D-06	2.2332D+01
3330	1.5004D+03	4.8495D-01	3.9366D-01	1.9418D-01	1.8982D+03	8.6676D+00	1.0568D-04	3.8659D-06	4.7624D-06	2.2190D+01
3340	1.5053D+03	4.8495D-01	3.9377D-01	2.0524D-01	1.8965D+03	8.6585D+00	1.0579D-04	3.8958D-06	4.7979D-06	2.2050D+01
3350	1.5101D+03	4.8495D-01	3.9389D-01	2.1685D-01	1.8947D+03	8.6493D+00	1.0590D-04	3.9261D-06	4.8337D-06	2.1910D+01
3360	1.5150D+03	4.8495D-01	3.9401D-01	2.2903D-01	1.8930D+03	8.6402D+00	1.0602D-04	3.9566D-06	4.8698D-06	2.1770D+01
3370	1.5198D+03	4.8495D-01	3.9413D-01	2.4181D-01	1.8913D+03	8.6310D+00	1.0613D-04	3.9875D-06	4.9064D-06	2.1631D+01

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	h-h (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DB (J/G)	DENSITY (G/CC)	ALPHA P (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMA V (1/ATM)
3380	1.5247E+03	4.8495D-01	3.9425D-01	2.5520D-01	1.8895D+03	8.6218D+00	1.0624D-04	4.0187D-06	4.9432E-06	2.1492D+01
3390	1.5295E+03	4.8495D-01	3.9437D-01	2.6923D-01	1.8878D+03	8.6127D+00	1.0635D-04	4.0502D-06	4.9805D-06	2.1354D+01
3400	1.5344D+03	4.8455D-01	3.9450D-01	2.8393D-01	1.8861D+03	8.6035D+00	1.0647D-04	4.0821D-06	5.0181D-06	2.1217D+01
3410	1.5392E+03	4.8455D-01	3.9458D-01	2.9933D-01	1.8843D+03	8.5944D+00	1.0658D-04	4.1118D-06	5.0536D-06	2.1090D+01
3420	1.5441E+03	4.8455D-01	3.9466D-01	3.1545D-01	1.8826D+03	8.5852D+00	1.0670D-04	4.1417D-06	5.0892D-06	2.0965D+01
3430	1.5489E+03	4.8495D-01	3.9474D-01	3.3232D-01	1.8808D+03	8.5760D+00	1.0681D-04	4.1716D-06	5.1250D-06	2.0841D+01
3440	1.5537D+03	4.8495D-01	3.9482D-01	3.4996D-01	1.8791D+03	8.5669D+00	1.0692D-04	4.2017D-06	5.1609D-06	2.0718D+01
3450	1.5586E+03	4.8495D-01	3.9490D-01	3.6842D-01	1.8774D+03	8.5577D+00	1.0704D-04	4.2320D-06	5.1971D-06	2.0596D+01
3460	1.5634D+03	4.8495D-01	3.9497D-01	3.8772D-01	1.8756D+03	8.5486D+00	1.0715D-04	4.2624D-06	5.2334D-06	2.0475D+01
3470	1.5683D+03	4.8495D-01	3.9505D-01	4.0789D-01	1.8739D+03	8.5394D+00	1.0727D-04	4.2930D-06	5.2699D-06	2.0355D+01
3480	1.5731E+03	4.8495D-01	3.9512D-01	4.2896D-01	1.8722D+03	8.5302D+00	1.0738D-04	4.3237D-06	5.3066D-06	2.0236D+01
3490	1.5780D+03	4.8495D-01	3.9520D-01	4.5097D-01	1.8704D+03	8.5211D+00	1.0750D-04	4.3545D-06	5.3434D-06	2.0118D+01
3500	1.5828D+03	4.8495D-01	3.9527D-01	4.7396D-01	1.8687D+03	8.5119D+00	1.0761D-04	4.3855D-06	5.3805D-06	2.0001D+01
3510	1.5877D+03	4.8495D-01	3.9535D-01	4.9795D-01	1.8670D+03	8.5028D+00	1.0773D-04	4.4167D-06	5.4177D-06	1.9885D+01
3520	1.5925D+03	4.8495D-01	3.9542D-01	5.2298D-01	1.8652D+03	8.4936D+00	1.0785D-04	4.4480D-06	5.4551D-06	1.9770D+01
3530	1.5974E+03	4.8495D-01	3.9549D-01	5.4910E-01	1.8635D+03	8.4844D+00	1.0796D-04	4.4795D-06	5.4927D-06	1.9656D+01
3540	1.6022D+03	4.8495D-01	3.9556D-01	5.7633D-01	1.8617D+03	8.4753D+00	1.0808D-04	4.5111D-06	5.5305D-06	1.9542D+01
3550	1.6071E+03	4.8495D-01	3.9563D-01	6.0473E-01	1.8600D+03	8.4661D+00	1.0820D-04	4.5429D-06	5.5685D-06	1.9430D+01
3560	1.6119D+03	4.8495D-01	3.9570D-01	6.3432E-01	1.8583D+03	8.4570D+00	1.0831D-04	4.5748D-06	5.6067D-06	1.9319D+01
3570	1.6168D+03	4.8495D-01	3.9577D-01	6.6515D-01	1.8565D+03	8.4478D+00	1.0843D-04	4.6069D-06	5.6451D-06	1.9208D+01
3580	1.6216D+03	4.8495D-01	3.9583D-01	6.9727E-01	1.8548D+03	8.4386D+00	1.0855D-04	4.6392D-06	5.6836E-06	1.9098D+01
3590	1.6265D+03	4.8495D-01	3.9590D-01	7.3071D-01	1.8531D+03	8.4295D+00	1.0867D-04	4.6716D-06	5.7224D-06	1.8990D+01
3600	1.6313D+03	4.8495D-01	3.9597E-01	7.6553D-01	1.8513D+03	8.4203D+00	1.0878D-04	4.7042D-06	5.7614E-06	1.8882D+01
3610	1.6362D+03	4.8495D-01	3.9603D-01	8.0176D-01	1.8496D+03	8.4112D+00	1.0890D-04	4.7370D-06	5.8005D-06	1.8775E+01
3620	1.6410D+03	4.8495D-01	3.9610D-01	8.3945D-01	1.8479D+03	8.4020D+00	1.0902D-04	4.7699D-06	5.8399D-06	1.8668D+01
3630	1.6459D+03	4.8495D-01	3.9616D-01	8.7866D-01	1.8461D+03	8.3928D+00	1.0914D-04	4.8030D-06	5.8794D-06	1.8563D+01

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CF (J/G-K)	CV (J/G-K)	P (ATM)	DH (J/G)	DENSITY (G/CC)	ALPHA P (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMA V (1/ATM)
3640	1.6507E+03	4.8495D-01	3.9622D-01	9.1943D-01	1.8444D+03	8.3837D+00	1.0926D-04	4.8363D-06	5.9192D-06	1.6459D+01
3650	1.6556E+03	4.8495D-01	3.9629D-01	9.6181D-01	1.8426D+03	8.3745D+00	1.0938D-04	4.8697D-06	5.9592D-06	1.8355D+01
3660	1.6604E+03	4.8495D-01	3.9635D-01	1.0059D+00	1.8409D+03	8.3654D+00	1.0950D-04	4.9033D-06	5.9994D-06	1.8252D+01
3670	1.6653E+03	4.8495D-01	3.9641D-01	1.0516D+00	1.8392D+03	8.3562D+00	1.0962D-04	4.9371D-06	6.0397D-06	1.8150D+01
3680	1.6701D+03	4.8495D-01	3.9647D-01	1.0991D+00	1.8374D+03	8.3470D+00	1.0974D-04	4.9710D-06	6.0803D-06	1.8048D+01
3690	1.6750E+03	4.8495D-01	3.9653D-01	1.1485D+00	1.8357D+03	8.3379D+00	1.0986D-04	5.0051D-06	6.1212D-06	1.7948D+01
3700	1.6798E+03	4.8495D-01	3.9659D-01	1.1997D+00	1.8340D+03	8.3287D+00	1.0998D-04	5.0394D-06	6.1622D-06	1.7848D+01
3710	1.6847D+03	4.8495D-01	3.9665D-01	1.2529D+00	1.8322D+03	8.3196D+00	1.1010D-04	5.0739D-06	6.2034D-06	1.7749D+01
3720	1.6895D+03	4.8495D-01	3.9671D-01	1.3081D+00	1.8305D+03	8.3104D+00	1.1022D-04	5.1086D-06	6.2449D-06	1.7650D+01
3730	1.6944E+03	4.8495D-01	3.9677D-01	1.3653D+00	1.8287D+03	8.3012D+00	1.1034D-04	5.1434D-06	6.2865D-06	1.7553D+01
3740	1.6992D+03	4.8495D-01	3.9682D-01	1.4247D+00	1.8270D+03	8.2921D+00	1.1047D-04	5.1784D-06	6.3284D-06	1.7456D+01
3750	1.7041D+03	4.8495D-01	3.9688D-01	1.4862D+00	1.8253D+03	8.2829D+00	1.1059D-04	5.2136D-06	6.3705D-06	1.7355D+01
3760	1.7089D+03	4.8495D-01	3.9694D-01	1.5500D+00	1.8235D+03	8.2738D+00	1.1071D-04	5.2490D-06	6.4129D-06	1.7264D+01
3770	1.7138D+03	4.8495D-01	3.9699D-01	1.6161D+00	1.8218D+03	8.2646D+00	1.1083D-04	5.2846D-06	6.4554D-06	1.7169D+01
3780	1.7186E+03	4.8495D-01	3.9705D-01	1.6846E+00	1.8201D+03	8.2554D+00	1.1096D-04	5.3204D-06	6.4982D-06	1.7075D+01
3790	1.7235D+03	4.8495D-01	3.9710D-01	1.7555E+00	1.8183D+03	8.2463D+00	1.1108D-04	5.3563D-06	6.5412D-06	1.6982D+01
3800	1.7283D+03	4.8495D-01	3.9716D-01	1.8289E+00	1.8166D+03	8.2371D+00	1.1120D-04	5.3925D-06	6.5845D-06	1.6889D+01
3810	1.7332D+03	4.8495D-01	3.9721E-01	1.9050D+00	1.8149D+03	8.2280D+00	1.1133D-04	5.4288D-06	6.6279D-06	1.6797D+01
3820	1.7380D+03	4.8495D-01	3.9727D-01	1.9837D+00	1.8131D+03	8.2188D+00	1.1145D-04	5.4654D-06	6.6716D-06	1.6705D+01
3830	1.7429D+03	4.8495D-01	3.9732D-01	2.0651D+00	1.8114D+03	8.2096D+00	1.1158D-04	5.5021D-06	6.7156E-06	1.6615D+01
3840	1.7477D+03	4.8495D-01	3.9737D-01	2.1493D+00	1.8096D+03	8.2005D+00	1.1170D-04	5.5390D-06	6.7598E-06	1.6524E+01
3850	1.7526D+03	4.8495D-01	3.9742D-01	2.2364D+00	1.8079D+03	8.1913D+00	1.1183D-04	5.5761D-06	6.8042E-06	1.6435D+01
3860	1.7574D+03	4.8495D-01	3.9748D-01	2.3265D+00	1.8062D+03	8.1822D+00	1.1195D-04	5.6135D-06	6.8488E-06	1.6346D+01
3870	1.7623D+03	4.8495D-01	3.9753D-01	2.4197D+00	1.8044D+03	8.1730D+00	1.1208D-04	5.6510D-06	6.8937E-06	1.6258D+01
3880	1.7671D+03	4.8495D-01	3.9758D-01	2.5159D+00	1.8027D+03	8.1638D+00	1.1220D-04	5.6887D-06	6.9389D-06	1.6170D+01
3890	1.7720E+03	4.8495D-01	3.9763D-01	2.6154D+00	1.8010D+03	8.1547D+00	1.1233D-04	5.7267D-06	6.9843D-06	1.6083D+01

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DH (J/G)	DENSITY (G/CC)	ALPHA P (1/K)	BETA S (1/ATM)	BETA I (1/ATM)	GAMMA V (1/ATM)
3900	1.7768E+03	4.8495D-01	3.9768D-01	2.7181D+00	1.7992D+03	8.1455D+00	1.1245D-04	5.7648D-06	7.0299D-06	1.5997D+01
3910	1.7817E+03	4.8455D-01	3.9773D-01	2.8242D+00	1.7975D+03	8.1364D+00	1.1258D-04	5.8032D-06	7.0758D-06	1.5911D+01
3920	1.7865D+03	4.8455D-01	3.9778D-01	2.9338D+00	1.7958D+03	8.1272D+00	1.1271D-04	5.8417D-06	7.1219D-06	1.5825D+01
3930	1.7914E+03	4.8495D-01	3.9783D-01	3.0470D+00	1.7940D+03	8.1180D+00	1.1284D-04	5.8805D-06	7.1683D-06	1.5741D+01
3940	1.7962E+03	4.8495D-01	3.9787D-01	3.1638D+00	1.7923D+03	8.1089D+00	1.1296D-04	5.9195D-06	7.2150D-06	1.5657D+01
3950	1.8011D+03	4.8495D-01	3.9792D-01	3.2843D+00	1.7905D+03	8.0997D+00	1.1309D-04	5.9587D-06	7.2619D-06	1.5573D+01
3960	1.8059D+03	4.8495D-01	3.9797D-01	3.4086D+00	1.7888D+03	8.0906D+00	1.1322D-04	5.9981D-06	7.3090D-06	1.5490D+01
3970	1.8108E+03	4.8495D-01	3.9802D-01	3.5368D+00	1.7871D+03	8.0814D+00	1.1335D-04	6.0378D-06	7.3565D-06	1.5408D+01
3980	1.8156E+03	4.8495D-01	3.9807D-01	3.6691D+00	1.7853D+03	8.0722D+00	1.1348D-04	6.0777D-06	7.4042D-06	1.5326D+01
3990	1.8205D+03	4.8495D-01	3.9811D-01	3.8055D+00	1.7836D+03	8.0631D+00	1.1360D-04	6.1177D-06	7.4521D-06	1.5245D+01
4000	1.8253D+03	4.8455D-01	3.9816D-01	3.9461D+00	1.7819D+03	8.0539D+00	1.1373D-04	6.1581D-06	7.5004D-06	1.5164D+01
4010	1.8302D+03	4.8495D-01	3.9821D-01	4.0910D+00	1.7801D+03	8.0448D+00	1.1386D-04	6.1986D-06	7.5489D-06	1.5083D+01
4020	1.8350D+03	4.8495D-01	3.9825D-01	4.2403E+00	1.7784D+03	8.0356D+00	1.1399D-04	6.2394D-06	7.5976D-06	1.5004D+01
4030	1.8399D+03	4.8495D-01	3.9830D-01	4.3941E+00	1.7767D+03	8.0264D+00	1.1412D-04	6.2804D-06	7.6467D-06	1.4924D+01
4040	1.8447D+03	4.8495D-01	3.9834D-01	4.5525D+00	1.7749D+03	8.0173D+00	1.1425D-04	6.3216D-06	7.6960D-06	1.4846D+01
4050	1.8496D+03	4.8495D-01	3.9839D-01	4.7157D+00	1.7732D+03	8.0081D+00	1.1438D-04	6.3631D-06	7.7456D-06	1.4768D+01
4060	1.8544D+03	4.8495D-01	3.9843D-01	4.8837D+00	1.7714D+03	7.9990D+00	1.1451D-04	6.4048D-06	7.7955D-06	1.4690E+01
4070	1.8593D+03	4.8495D-01	3.9848D-01	5.0566D+00	1.7697D+03	7.9898D+00	1.1465D-04	6.4468D-06	7.8457D-06	1.4613D+01
4080	1.8641D+03	4.8495D-01	3.9852D-01	5.2346D+00	1.7680D+03	7.9806D+00	1.1478D-04	6.4889D-06	7.8962D-06	1.4536D+01
4090	1.8690D+03	4.8495D-01	3.9857D-01	5.4178D+00	1.7662D+03	7.9715D+00	1.1491D-04	6.5314D-06	7.9469D-06	1.4460D+01
4100	1.8738D+03	4.8495D-01	3.9861D-01	5.6062D+00	1.7645D+03	7.9623D+00	1.1504D-04	6.5740D-06	7.9979D-06	1.4384D+01
4110	1.8787E+03	4.8495D-01	3.9866D-01	5.8001D+00	1.7628D+03	7.9532D+00	1.1517D-04	6.6170D-06	8.0493D-06	1.4309D+01
4120	1.8835E+03	4.8495D-01	3.9870D-01	5.9994D+00	1.7610D+03	7.9440D+00	1.1531D-04	6.6601D-06	8.1009D-06	1.4234D+01
4130	1.8884E+03	4.8495D-01	3.9874E-01	6.2044D+00	1.7593D+03	7.9348D+00	1.1544D-04	6.7036D-06	8.1528D-06	1.4160D+01
4140	1.8932E+03	4.8495D-01	3.9879D-01	6.4151D+00	1.7575D+03	7.9257D+00	1.1557D-04	6.7473D-06	8.2051D-06	1.4086D+01
4150	1.8981D+03	4.8495D-01	3.9883D-01	6.6317D+00	1.7558D+03	7.9165D+00	1.1571D-04	6.7912D-06	8.2576D-06	1.4012D+01

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DH (J/G)	DENSITY (G/CC)	ALPHA P (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMA V (1/ATM)
4160	1.9029E+03	4.8495D-01	3.9887D-01	6.8543D+00	1.7541D+03	7.9074D+00	1.1584D-04	6.8354D-06	8.3104D-06	1.3939D+01
4170	1.9078D+03	4.8495D-01	3.9891D-01	7.0830D+00	1.7523D+03	7.8982D+00	1.1598D-04	6.8798D-06	8.3636D-06	1.3867D+01
4180	1.9126E+03	4.8495D-01	3.9896D-01	7.3180D+00	1.7506D+03	7.8890D+00	1.1611D-04	6.9246D-06	8.4171D-06	1.3795D+01
4190	1.9175E+03	4.8495D-01	3.9900D-01	7.5593D+00	1.7489D+03	7.8799D+00	1.1625D-04	6.9695D-06	8.4708D-06	1.3723D+01
4200	1.9223D+03	4.8495D-01	3.9904D-01	7.8071D+00	1.7471D+03	7.8707D+00	1.1638D-04	7.0148D-06	8.5249D-06	1.3652D+01
4210	1.9272D+03	4.8495D-01	3.9908D-01	8.0616D+00	1.7454D+03	7.8616D+00	1.1652D-04	7.0603D-06	8.5794D-06	1.3581D+01
4220	1.9320D+03	4.8495D-01	3.9913D-01	8.3228D+00	1.7437D+03	7.8524D+00	1.1665D-04	7.1061D-06	8.6341D-06	1.3511D+01
4230	1.9369D+03	4.8495D-01	3.9917D-01	8.5909D+00	1.7419D+03	7.8432D+00	1.1679D-04	7.1522D-06	8.6892D-06	1.3441D+01
4240	1.9417E+03	4.8495D-01	3.9921D-01	8.8661D+00	1.7402D+03	7.8341D+00	1.1693D-04	7.1985D-06	8.7445D-06	1.3371D+01
4250	1.9466D+03	4.8495D-01	3.9925D-01	9.1484D+00	1.7384D+03	7.8249D+00	1.1706D-04	7.2452D-06	8.8003D-06	1.3302D+01
4260	1.9514E+03	4.8495D-01	3.9929D-01	9.4381E+00	1.7367D+03	7.8158D+00	1.1720D-04	7.2921D-06	8.8563D-06	1.3233D+01
4270	1.9562D+03	4.8495D-01	3.9934D-01	9.7351D+00	1.7350D+03	7.8066D+00	1.1734D-04	7.3393D-06	8.9127D-06	1.3165D+01
4280	1.9611D+03	4.8495D-01	3.9938D-01	1.0040E+01	1.7332D+03	7.7974D+00	1.1747D-04	7.3867D-06	8.9694D-06	1.3097D+01
4290	1.9660D+03	4.8495D-01	3.9942D-01	1.0352D+01	1.7315D+03	7.7883D+00	1.1761D-04	7.4345D-06	9.0265D-06	1.3030D+01
4300	1.9708D+03	4.8495D-01	3.9946D-01	1.0672D+01	1.7298D+03	7.7791D+00	1.1775D-04	7.4826D-06	9.0839D-06	1.2963D+01
4310	1.9757D+03	4.8495D-01	3.9950D-01	1.1001D+01	1.7280D+03	7.7700D+00	1.1789D-04	7.5309D-06	9.1417D-06	1.2896D+01
4320	1.9805D+03	4.8495D-01	3.9954D-01	1.1337D+01	1.7263D+03	7.7608D+00	1.1803D-04	7.5796D-06	9.1998E-06	1.2829D+01
4330	1.9854D+03	4.8495D-01	3.9958D-01	1.1682D+01	1.7246D+03	7.7516D+00	1.1817D-04	7.6286D-06	9.2583D-06	1.2764D+01
4340	1.9902D+03	4.8495D-01	3.9962D-01	1.2035D+01	1.7228D+03	7.7425D+00	1.1831D-04	7.6778D-06	9.3171D-06	1.2698D+01
4350	1.9951D+03	4.8495D-01	3.9966D-01	1.2397D+01	1.7211D+03	7.7333D+00	1.1845D-04	7.7274D-06	9.3763E-06	1.2633D+01
4360	1.9999D+03	4.8495D-01	3.9971D-01	1.2768D+01	1.7193D+03	7.7242D+00	1.1859D-04	7.7773D-06	9.4359D-06	1.2568D+01
4370	2.0048E+03	4.8495D-01	3.9975D-01	1.3147D+01	1.7176D+03	7.7150D+00	1.1873D-04	7.8275D-06	9.4958E-06	1.2503D+01
4380	2.0096E+03	4.8495D-01	3.9979D-01	1.3536D+01	1.7159D+03	7.7058D+00	1.1887D-04	7.8780D-06	9.5561D-06	1.2439D+01
4390	2.0144E+03	4.8495D-01	3.9983D-01	1.3934D+01	1.7141D+03	7.6967D+00	1.1901D-04	7.9288D-06	9.6168D-06	1.2375D+01
4400	2.0193E+03	4.8495D-01	3.9987D-01	1.4341D+01	1.7124D+03	7.6875D+00	1.1915D-04	7.9800D-06	9.6778D-06	1.2312D+01
4410	2.0241E+03	4.8495D-01	3.9991D-01	1.4758D+01	1.7107D+03	7.6784D+00	1.1930D-04	8.0314D-06	9.7393D-06	1.2249D+01

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CF (J/G-K)	CV (J/G-K)	P (ATM)	DH (J/G)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMAV (1/ATM)
4420	2.0290E+03	4.8495D-01	3.9995D-01	1.5184D+01	1.7089D+03	7.6692D+00	1.1944D-04	8.0832D-06	9.8011D-06	1.2186D+01
4430	2.0338D+03	4.8495D-01	3.9999D-01	1.5620D+01	1.7072D+03	7.6600D+00	1.1958D-04	8.1354D-06	9.8633D-06	1.2124D+01
4440	2.0387D+03	4.8495D-01	4.0003D-01	1.6067D+01	1.7055D+03	7.6509D+00	1.1972D-04	8.1878D-06	9.9259D-06	1.2062D+01
4450	2.0435D+03	4.8495D-01	4.0007D-01	1.6523D+01	1.7037D+03	7.6417D+00	1.1987D-04	9.2407D-06	9.9889D-06	1.2000D+01
4460	2.0484E+03	4.8495D-01	4.0011D-01	1.6930D+01	1.7020D+03	7.6326D+00	1.2001D-04	8.2938D-06	1.0052D-05	1.1939D+01
4470	2.0532D+03	4.8495D-01	4.0016D-01	1.7468D+01	1.7002D+03	7.6234D+00	1.2016D-04	8.3473D-06	1.0116D-05	1.1878D+01
4480	2.0581E+03	4.8495D-01	4.0020D-01	1.7956D+01	1.6985D+03	7.6142D+00	1.2030D-04	8.4011D-06	1.0180D-05	1.1817D+01
4490	2.0629E+03	4.8495D-01	4.0024D-01	1.8455D+01	1.6968D+03	7.6051D+00	1.2045D-04	8.4553D-06	1.0245D-05	1.1757D+01
4500	2.0678D+03	4.8495D-01	4.0028D-01	1.8965D+01	1.6950D+03	7.5959D+00	1.2059D-04	8.5099D-06	1.0310D-05	1.1697D+01
4510	2.0726E+03	4.8495D-01	4.0032E-01	1.9486D+01	1.6933D+03	7.5868D+00	1.2074D-04	8.5648D-06	1.0375D-05	1.1637D+01
4520	2.0775D+03	4.8495E-01	4.0036E-01	2.0018E+01	1.6916D+03	7.5776D+00	1.2088D-04	8.6200D-06	1.0441D-05	1.1577D+01
4530	2.0823D+03	4.8495D-01	4.0040D-01	2.0562E+01	1.6898D+03	7.5684D+00	1.2103D-04	8.6757D-06	1.0508D-05	1.1518D+01
4540	2.0872D+03	4.8495D-01	4.0044D-01	2.1118D+01	1.6881D+03	7.5593D+00	1.2118D-04	8.7317D-06	1.0574D-05	1.1460D+01
4550	2.0920D+03	4.8495D-01	4.0049D-01	2.1686D+01	1.6863D+03	7.5501D+00	1.2132D-04	8.7880D-06	1.0641D-05	1.1401D+01
4560	2.0969D+03	4.8495D-01	4.0053D-01	2.2266D+01	1.6846D+03	7.5410D+00	1.2147D-04	8.8448D-06	1.0709D-05	1.1343D+01
4570	2.1017D+03	4.8495D-01	4.0057D-01	2.2858D+01	1.6829D+03	7.5318D+00	1.2162D-04	8.9019D-06	1.0777E-05	1.1285D+01
4580	2.1066D+03	4.8495D-01	4.0061D-01	2.3462D+01	1.6811D+03	7.5226D+00	1.2177D-04	8.9594D-06	1.0846E-05	1.1227D+01
4590	2.1114D+03	4.8495D-01	4.0065D-01	2.4079D+01	1.6794D+03	7.5135D+00	1.2191D-04	9.0173D-06	1.0914D-05	1.1170D+01
4600	2.1163D+03	4.8495D-01	4.0070D-01	2.4709D+01	1.6777D+03	7.5043D+00	1.2206D-04	9.0756D-06	1.0984D-05	1.1113D+01
4610	2.1211E+03	4.8495D-01	4.0074D-01	2.5351D+01	1.6759D+03	7.4952D+00	1.2221D-04	9.1342D-06	1.1054D-05	1.1056D+01
4620	2.1260E+03	4.8495E-01	4.0078D-01	2.6007D+01	1.6742D+03	7.4860D+00	1.2236D-04	9.1933D-06	1.1124D-05	1.1000D+01
4630	2.1308D+03	4.8495D-01	4.0082D-01	2.6677D+01	1.6725D+03	7.4768D+00	1.2251D-04	9.2528D-06	1.1195D-05	1.0944D+01
4640	2.1357E+03	4.8495D-01	4.0087D-01	2.7359D+01	1.6707D+03	7.4677D+00	1.2266D-04	9.3127D-06	1.1266D-05	1.0888D+01
4650	2.1405E+03	4.8495D-01	4.0091D-01	2.8056D+01	1.6690D+03	7.4585D+00	1.2281D-04	9.3730D-06	1.1338D-05	1.0832D+01
4660	2.1454E+03	4.8495D-01	4.0095D-01	2.8766D+01	1.6672D+03	7.4494D+00	1.2296D-04	9.4337D-06	1.1410D-05	1.0777D+01
4670	2.1502D+03	4.8495D-01	4.0100D-01	2.9490D+01	1.6655D+03	7.4402D+00	1.2311D-04	9.4949D-06	1.1483D-05	1.0722E+01

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CF (J/G-K)	CV (J/G-K)	P (ATM)	CH (J/G)	DENSITY (G/CC)	ALPHA P (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAHHAV (1/ATM)
4680	2.1551D+03	4.8495D-01	4.0104D-01	3.0229D+01	1.6638D+03	7.4310D+00	1.2327D-04	9.5564D-06	1.1556D-05	1.0667D+01
4690	2.1599D+03	4.8495D-01	4.0108D-01	3.0982D+01	1.6620D+03	7.4219D+00	1.2342D-04	9.6184D-06	1.1630D-05	1.0613D+01
4700	2.1648D+03	4.8495D-01	4.0113D-01	3.1749D+01	1.6603D+03	7.4127D+00	1.2357D-04	9.6808D-06	1.1704D-05	1.0558D+01
4710	2.1696D+03	4.8495D-01	4.0117D-01	3.2532D+01	1.6586D+03	7.4036D+00	1.2372D-04	9.7437D-06	1.1778D-05	1.0504D+01
4720	2.1745D+03	4.8495D-01	4.0122D-01	3.3329D+01	1.6568D+03	7.3944D+00	1.2388D-04	9.8070D-06	1.1854D-05	1.0451D+01
4730	2.1793D+03	4.8495D-01	4.0126D-01	3.4142D+01	1.6551D+03	7.3852D+00	1.2403D-04	9.8708D-06	1.1929D-05	1.0397D+01
4740	2.1842D+03	4.8495D-01	4.0131D-01	3.4970D+01	1.6534D+03	7.3761D+00	1.2419D-04	9.9350D-06	1.2006D-05	1.0344D+01
4750	2.1890D+03	4.8495D-01	4.0135D-01	3.5814D+01	1.6516D+03	7.3669D+00	1.2434D-04	9.9996D-06	1.2082D-05	1.0291D+01
4760	2.1939D+03	4.8495D-01	4.0140D-01	3.6673D+01	1.6499D+03	7.3578D+00	1.2449D-04	1.0065D-05	1.2160D-05	1.0238D+01
4770	2.1987D+03	4.8495D-01	4.0144D-01	3.7548D+01	1.6481D+03	7.3486D+00	1.2465D-04	1.0130D-05	1.2238D-05	1.0186D+01
4780	2.2036D+03	4.8495D-01	4.0149D-01	3.8440D+01	1.6464D+03	7.3394D+00	1.2481D-04	1.0196D-05	1.2316D-05	1.0134D+01
4790	2.2084D+03	4.8495D-01	4.0153D-01	3.9347D+01	1.6447D+03	7.3303D+00	1.2496D-04	1.0263D-05	1.2395D-05	1.0082D+01
4800	2.2133D+03	4.8495D-01	4.0158D-01	4.0272D+01	1.6429D+03	7.3211D+00	1.2512D-04	1.0330D-05	1.2474D-05	1.0030D+01
4810	2.2181D+03	4.8495D-01	4.0163D-01	4.1213D+01	1.6412D+03	7.3120D+00	1.2527D-04	1.0397D-05	1.2554D-05	9.9784D+00
4820	2.2230D+03	4.8495D-01	4.0167D-01	4.2171D+01	1.6395D+03	7.3028D+00	1.2543D-04	1.0465D-05	1.2635D-05	9.9272D+00
4830	2.2278D+03	4.8495D-01	4.0172D-01	4.3146D+01	1.6377D+03	7.2936D+00	1.2559D-04	1.0534D-05	1.2716D-05	9.8762D+00
4840	2.2327D+03	4.8495D-01	4.0177D-01	4.4138D+01	1.6360D+03	7.2845D+00	1.2575D-04	1.0603D-05	1.2798D-05	9.8254D+00
4850	2.2375D+03	4.8495D-01	4.0182D-01	4.5148D+01	1.6342D+03	7.2753D+00	1.2591D-04	1.0672D-05	1.2880D-05	9.7749D+00
4860	2.2424D+03	4.8495D-01	4.0187D-01	4.6176D+01	1.6325D+03	7.2662D+00	1.2606D-04	1.0743D-05	1.2963D-05	9.7246D+00
4870	2.2472D+03	4.8495D-01	4.0191D-01	4.7221D+01	1.6308D+03	7.2570D+00	1.2622D-04	1.0813D-05	1.3047D-05	9.6745D+00
4880	2.2521D+03	4.8495D-01	4.0196D-01	4.8285D+01	1.6290D+03	7.2478D+00	1.2638D-04	1.0884D-05	1.3131D-05	9.6246D+00
4890	2.2569D+03	4.8495D-01	4.0201D-01	4.9366D+01	1.6273D+03	7.2387D+00	1.2654D-04	1.0956D-05	1.3216D-05	9.5750D+00
4900	2.2618D+03	4.8495D-01	4.0206D-01	5.0467D+01	1.6256D+03	7.2295D+00	1.2670D-04	1.1028D-05	1.3301D-05	9.5256D+00
4910	2.2666D+03	4.8495D-01	4.0211D-01	5.1586D+01	1.6238D+03	7.2204D+00	1.2686D-04	1.1101D-05	1.3387D-05	9.4764D+00
4920	2.2715D+03	4.8495D-01	4.0216D-01	5.2724D+01	1.6221D+03	7.2112D+00	1.2702D-04	1.1174D-05	1.3474D-05	9.4274D+00
4930	2.2763D+03	4.8495D-01	4.0221D-01	5.3881D+01	1.6204D+03	7.2020D+00	1.2719D-04	1.1248D-05	1.3561D-05	9.3787D+00

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	Ch (J/G)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMAV (1/ATM)
4940	2.2812D+03	4.8495D-01	4.0226D-01	5.5057D+01	1.6186D+03	7.1929D+00	1.2735D-04	1.1322D-05	1.3649D-05	9.3301D+00
4950	2.2860D+03	4.8495D-01	4.0232D-01	5.6253E+01	1.6169D+03	7.1837D+00	1.2751D-04	1.1397D-05	1.3738D-05	9.2818D+00
4960	2.2909D+03	4.8495D-01	4.0237D-01	5.7468E+01	1.6151D+03	7.1746D+00	1.2767D-04	1.1472D-05	1.3827D-05	9.2336D+00
4970	2.2957D+03	4.8495D-01	4.0242D-01	5.8704E+01	1.6134D+03	7.1654D+00	1.2784D-04	1.1549D-05	1.3917D-05	9.1857D+00
4980	2.3006D+03	4.8495D-01	4.0247D-01	5.9959D+01	1.6117D+03	7.1562D+00	1.2800D-04	1.1625D-05	1.4007E-05	9.1380D+00
4990	2.3054D+03	4.8495D-01	4.0253D-01	6.1235D+01	1.6099D+03	7.1471D+00	1.2816D-04	1.1702D-05	1.4099D-05	9.0905D+00
5000	2.3103D+03	4.8495D-01	4.0258D-01	6.2531D+01	1.6082D+03	7.1379D+00	1.2833D-04	1.1780D-05	1.4191D-05	9.0432D+00
5010	2.3151D+03	4.8495D-01	4.0263D-01	6.3847D+01	1.6065D+03	7.1288D+00	1.2849D-04	1.1859D-05	1.4283D-05	8.9961D+00
5020	2.3200E+03	4.8495D-01	4.0269D-01	6.5185D+01	1.6047D+03	7.1196D+00	1.2866D-04	1.1938D-05	1.4377D-05	8.9492D+00
5030	2.3248D+03	4.8495D-01	4.0274D-01	6.6544D+01	1.6030D+03	7.1104D+00	1.2882D-04	1.2018D-05	1.4471D-05	8.9025D+00
5040	2.3297E+03	4.8495D-01	4.0280D-01	6.7923D+01	1.6013D+03	7.1013D+00	1.2899D-04	1.2098D-05	1.4565D-05	8.8560D+00
5050	2.3345E+03	4.8495D-01	4.0285D-01	6.9325D+01	1.5995D+03	7.0921D+00	1.2916D-04	1.2179D-05	1.4661D-05	8.8097D+00
5060	2.3394D+03	4.8495D-01	4.0291D-01	7.0748D+01	1.5978D+03	7.0830D+00	1.2932D-04	1.2261D-05	1.4757D-05	8.7635D+00
5070	2.3442E+03	4.8495D-01	4.0297D-01	7.2193D+01	1.5960D+03	7.0738E+00	1.2949D-04	1.2343D-05	1.4854D-05	8.7176D+00
5080	2.3491E+03	4.8495D-01	4.0302D-01	7.3659D+01	1.5943D+03	7.0646D+00	1.2966D-04	1.2426D-05	1.4952D-05	8.6718D+00
5090	2.3539D+03	4.8495D-01	4.0308D-01	7.5148D+01	1.5926D+03	7.0555D+00	1.2983D-04	1.2510D-05	1.5050D-05	8.6263D+00
5100	2.3586D+03	4.8495D-01	4.0314D-01	7.6660D+01	1.5908D+03	7.0463D+00	1.3000D-04	1.2594D-05	1.5150D-05	8.5809D+00
5110	2.3636D+03	4.8495D-01	4.0320D-01	7.8194D+01	1.5891D+03	7.0372D+00	1.3017D-04	1.2679D-05	1.5250D-05	8.5357D+00
5120	2.3685E+03	4.8495D-01	4.0326D-01	7.9751D+01	1.5874D+03	7.0280D+00	1.3034D-04	1.2765D-05	1.5350D-05	8.4907D+00
5130	2.3732E+03	4.8495D-01	4.0332D-01	8.1331D+01	1.5856D+03	7.0188D+00	1.3051D-04	1.2851D-05	1.5452D-05	8.4458D+00
5140	2.3782D+03	4.8495D-01	4.0338D-01	8.2934D+01	1.5839D+03	7.0097D+00	1.3068D-04	1.2938D-05	1.5555D-05	8.4012D+00
5150	2.3830D+03	4.8495D-01	4.0344D-01	8.4560D+01	1.5822D+03	7.0005D+00	1.3085D-04	1.3026D-05	1.5658D-05	8.3567E+00
5160	2.3879E+03	4.8495D-01	4.0350D-01	8.6210D+01	1.5804D+03	6.9914D+00	1.3102D-04	1.3115D-05	1.5762D-05	8.3124D+00
5170	2.3927D+03	4.8495E-01	4.0356D-01	8.7884D+01	1.5787D+03	6.9822D+00	1.3119D-04	1.3204D-05	1.5867D-05	8.2683D+00
5180	2.3976D+03	4.8495D-01	4.0363D-01	8.9582D+01	1.5769D+03	6.9730D+00	1.3136D-04	1.3294D-05	1.5973D-05	8.2243D+00
5190	2.4024D+03	4.8455D-01	4.0369D-01	9.1304E+01	1.5752D+03	6.9639D+00	1.3154D-04	1.3385D-05	1.6079D-05	8.1805D+00

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CF (J/G-K)	CV (J/G-K)	P (ATM)	DH (J/G)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMAV (1/ATM)
5200	2.4073D+03	4.8495D-01	4.0375D-01	9.3050D+01	1.5735D+03	6.9547D+00	1.3171D-04	1.3477D-05	1.6187D-05	8.1369D+00
5210	2.4121D+03	4.8495D-01	4.0382D-01	9.4821D+01	1.5717D+03	6.9456D+00	1.3188D-04	1.3569D-05	1.6295D-05	8.0935D+00
5220	2.4170D+03	4.8495D-01	4.0388D-01	9.6616D+01	1.5700D+03	6.9364D+00	1.3206D-04	1.3662D-05	1.6404D-05	8.0502D+00
5230	2.4218D+03	4.8495D-01	4.0395D-01	9.8437D+01	1.5683D+03	6.9272D+00	1.3223D-04	1.3756D-05	1.6514D-05	8.0071D+00
5240	2.4267D+03	4.8495D-01	4.0402D-01	1.0028D+02	1.5665D+03	6.9181D+00	1.3241D-04	1.3851D-05	1.6625D-05	7.9641D+00
5250	2.4315D+03	4.8495D-01	4.0408D-01	1.0215D+02	1.5646D+03	6.9089D+00	1.3258D-04	1.3946D-05	1.6737D-05	7.9213D+00
5260	2.4364D+03	4.8495D-01	4.0415D-01	1.0405D+02	1.5630D+03	6.8998D+00	1.3276D-04	1.4043D-05	1.6850D-05	7.8787D+00
5270	2.4412D+03	4.8495D-01	4.0422D-01	1.0597D+02	1.5613D+03	6.8906D+00	1.3293D-04	1.4140D-05	1.6964D-05	7.8362D+00
5280	2.4461D+03	4.8495D-01	4.0429D-01	1.0792D+02	1.5596D+03	6.8814D+00	1.3311D-04	1.4238D-05	1.7079D-05	7.7939D+00
5290	2.4509D+03	4.8495D-01	4.0436D-01	1.0989D+02	1.5578D+03	6.8723D+00	1.3329D-04	1.4337D-05	1.7195D-05	7.7517D+00
5300	2.4556D+03	4.8495D-01	4.0443D-01	1.1189D+02	1.5561D+03	6.8631D+00	1.3347D-04	1.4437D-05	1.7311D-05	7.7097D+00
5310	2.4606D+03	4.8495D-01	4.0450D-01	1.1392D+02	1.5544D+03	6.8540D+00	1.3365D-04	1.4538D-05	1.7429D-05	7.6679D+00
5320	2.4655D+03	4.8495D-01	4.0457D-01	1.1597D+02	1.5526D+03	6.8448D+00	1.3382D-04	1.4640D-05	1.7548D-05	7.6262D+00
5330	2.4703D+03	4.8495D-01	4.0465D-01	1.1805D+02	1.5509D+03	6.8356D+00	1.3400D-04	1.4742D-05	1.7668D-05	7.5846D+00
5340	2.4752D+03	4.8495D-01	4.0472D-01	1.2016D+02	1.5492D+03	6.8265D+00	1.3418D-04	1.4846D-05	1.7789D-05	7.5432D+00
5350	2.4800D+03	4.8495D-01	4.0480D-01	1.2229D+02	1.5474D+03	6.8173D+00	1.3436D-04	1.4950D-05	1.7910D-05	7.5020D+00
5360	2.4848D+03	4.8495D-01	4.0487D-01	1.2445D+02	1.5457D+03	6.8082D+00	1.3454D-04	1.5056D-05	1.8033D-05	7.4609D+00
5370	2.4897D+03	4.8495D-01	4.0495D-01	1.2664D+02	1.5439D+03	6.7990D+00	1.3473D-04	1.5162D-05	1.8157D-05	7.4199D+00
5380	2.4945D+03	4.8495D-01	4.0502D-01	1.2886D+02	1.5422D+03	6.7898D+00	1.3491D-04	1.5269D-05	1.8282D-05	7.3791D+00
5390	2.4994D+03	4.8495D-01	4.0510D-01	1.3110D+02	1.5405D+03	6.7807D+00	1.3509D-04	1.5378D-05	1.8409D-05	7.3384D+00
5400	2.5042D+03	4.8495D-01	4.0518D-01	1.3337D+02	1.5387D+03	6.7715D+00	1.3527D-04	1.5487D-05	1.8536D-05	7.2979D+00
5410	2.5091D+03	4.8495D-01	4.0526D-01	1.3567D+02	1.5370D+03	6.7624D+00	1.3546D-04	1.5597D-05	1.8664D-05	7.2575D+00
5420	2.5139D+03	4.8495D-01	4.0534D-01	1.3800D+02	1.5353D+03	6.7532D+00	1.3564D-04	1.5709D-05	1.8794D-05	7.2173D+00
5430	2.5188D+03	4.8495D-01	4.0542D-01	1.4036D+02	1.5335D+03	6.7440D+00	1.3582D-04	1.5821D-05	1.8924D-05	7.1771D+00
5440	2.5236D+03	4.8495D-01	4.0550D-01	1.4274D+02	1.5318D+03	6.7349D+00	1.3601D-04	1.5934D-05	1.9056D-05	7.1372D+00
5450	2.5285D+03	4.8495D-01	4.0558D-01	1.4516D+02	1.5301D+03	6.7257D+00	1.3619D-04	1.6049D-05	1.9189D-05	7.0973D+00

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CF (J/G-K)	CV (J/G-K)	P (ATM)	DH (J/G)	DENSITY (G/CC)	ALPHAP (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMAV (1/ATM)
5460	2.5333D+03	4.8495D-01	4.0567D-01	1.4760D+02	1.5283D+03	6.7166D+00	1.3638D-04	1.6165D-05	1.9324D-05	7.0576D+00
5470	2.5382D+03	4.8495D-01	4.0575D-01	1.5007D+02	1.5266D+03	6.7074D+00	1.3657D-04	1.6281D-05	1.9459D-05	7.0180D+00
5480	2.5430D+03	4.8495D-01	4.0584D-01	1.5257D+02	1.5248D+03	6.6982D+00	1.3675D-04	1.6399D-05	1.9596D-05	6.9786D+00
5490	2.5479D+03	4.8495D-01	4.0592D-01	1.5510D+02	1.5231D+03	6.6891D+00	1.3694D-04	1.6518D-05	1.9734D-05	6.9393D+00
5500	2.5527D+03	4.8495D-01	4.0601D-01	1.5766D+02	1.5214D+03	6.6799D+00	1.3713D-04	1.6638D-05	1.9873D-05	6.9001D+00
5510	2.5576D+03	4.8495D-01	4.0610D-01	1.6025D+02	1.5196D+03	6.6708D+00	1.3732D-04	1.6760D-05	2.0014D-05	6.8610D+00
5520	2.5624D+03	4.8495D-01	4.0619D-01	1.6287D+02	1.5179D+03	6.6616D+00	1.3750D-04	1.6882D-05	2.0156D-05	6.8221D+00
5530	2.5673D+03	4.8495D-01	4.0628D-01	1.6552D+02	1.5162D+03	6.6524D+00	1.3769D-04	1.7006D-05	2.0299D-05	6.7833D+00
5540	2.5721D+03	4.8495D-01	4.0637D-01	1.6820D+02	1.5144D+03	6.6433D+00	1.3788D-04	1.7131D-05	2.0444D-05	6.7446D+00
5550	2.5770D+03	4.8495D-01	4.0646D-01	1.7091D+02	1.5127D+03	6.6341D+00	1.3807D-04	1.7257D-05	2.0590D-05	6.7060D+00
5560	2.5818D+03	4.8495D-01	4.0655D-01	1.7366D+02	1.5110D+03	6.6250D+00	1.3826D-04	1.7385D-05	2.0737D-05	6.6676D+00
5570	2.5867D+03	4.8495D-01	4.0665D-01	1.7643D+02	1.5092D+03	6.6158D+00	1.3846D-04	1.7513D-05	2.0886D-05	6.6293D+00
5580	2.5915D+03	4.8495D-01	4.0674D-01	1.7923D+02	1.5075D+03	6.6066D+00	1.3865D-04	1.7643D-05	2.1036D-05	6.5911D+00
5590	2.5964D+03	4.8495D-01	4.0684D-01	1.8206D+02	1.5057D+03	6.5975D+00	1.3884D-04	1.7775D-05	2.1187D-05	6.5530D+00
5600	2.6012D+03	4.8495D-01	4.0693D-01	1.8493D+02	1.5040D+03	6.5883D+00	1.3903D-04	1.7907D-05	2.1340D-05	6.5150D+00
5610	2.6061D+03	4.8495D-01	4.0703D-01	1.8782D+02	1.5023D+03	6.5792D+00	1.3923D-04	1.8042D-05	2.1495D-05	6.4772D+00
5620	2.6109D+03	4.8495D-01	4.0713D-01	1.9075D+02	1.5005D+03	6.5700D+00	1.3942D-04	1.8177D-05	2.1651D-05	6.4395D+00
5630	2.6158D+03	4.8495D-01	4.0723D-01	1.9371D+02	1.4988D+03	6.5608D+00	1.3962D-04	1.8314D-05	2.1809D-05	6.4018D+00
5640	2.6206D+03	4.8495D-01	4.0733D-01	1.9670D+02	1.4971D+03	6.5517D+00	1.3981D-04	1.8452D-05	2.1968D-05	6.3643D+00
5650	2.6255D+03	4.8495D-01	4.0744D-01	1.9972D+02	1.4953D+03	6.5425D+00	1.4001D-04	1.8592D-05	2.2129D-05	6.3269D+00
5660	2.6303D+03	4.8495D-01	4.0754D-01	2.0278D+02	1.4936D+03	6.5334D+00	1.4020D-04	1.8733D-05	2.2291D-05	6.2897D+00
5670	2.6352D+03	4.8495D-01	4.0764D-01	2.0586D+02	1.4918D+03	6.5242D+00	1.4040D-04	1.8876D-05	2.2455D-05	6.2525D+00
5680	2.6400D+03	4.8495D-01	4.0775D-01	2.0898D+02	1.4901D+03	6.5150D+00	1.4060D-04	1.9020D-05	2.2621D-05	6.2154D+00
5690	2.6449D+03	4.8495D-01	4.0786D-01	2.1213D+02	1.4884D+03	6.5059D+00	1.4080D-04	1.9166D-05	2.2788D-05	6.1785D+00
5700	2.6497D+03	4.8495D-01	4.0797D-01	2.1532D+02	1.4866D+03	6.4967D+00	1.4099D-04	1.9313D-05	2.2957D-05	6.1416D+00
5710	2.6546D+03	4.8495D-01	4.0808D-01	2.1853D+02	1.4849D+03	6.4876D+00	1.4119D-04	1.9462D-05	2.3128D-05	6.1049D+00

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DH (J/G)	DENSITY (G/CC)	ALPHA P (1/K)	BETA S (1/ATM)	BETA T (1/ATM)	GAMMA H (1/ATM)
5720	2.6594D+03	4.8495D-01	4.0819D-01	2.2178D+02	1.4832D+03	6.4784D+00	1.4139D-04	1.9612D-05	2.3301D-05	6.0682D+00
5730	2.6643D+03	4.8495D-01	4.0830D-01	2.2506D+02	1.4814D+03	6.4692D+00	1.4159D-04	1.9765D-05	2.3475D-05	6.0317D+00
5740	2.6691D+03	4.8495D-01	4.0841D-01	2.2838D+02	1.4797D+03	6.4601D+00	1.4179D-04	1.9918D-05	2.3651D-05	5.9953D+00
5750	2.6740D+03	4.8455D-01	4.0853D-01	2.3173D+02	1.4780D+03	6.4509D+00	1.4200D-04	2.0074D-05	2.3829D-05	5.9589D+00
5760	2.6788D+03	4.8455D-01	4.0864D-01	2.3511D+02	1.4762D+03	6.4418D+00	1.4220D-04	2.0231D-05	2.4009D-05	5.9227D+00
5770	2.6837D+03	4.8455D-01	4.0876D-01	2.3852D+02	1.4745D+03	6.4326D+00	1.4240D-04	2.0390D-05	2.4191D-05	5.8866D+00
5780	2.6885D+03	4.8495D-01	4.0888D-01	2.4197D+02	1.4727D+03	6.4234D+00	1.4260D-04	2.0551D-05	2.4374D-05	5.8505D+00
5790	2.6934D+03	4.8495D-01	4.0900D-01	2.4545D+02	1.4710D+03	6.4143D+00	1.4281D-04	2.0714D-05	2.4560D-05	5.8146D+00
5800	2.6982D+03	4.8455D-01	4.0912D-01	2.4896D+02	1.4693D+03	6.4051D+00	1.4301D-04	2.0878D-05	2.4748D-05	5.7787D+00
5810	2.7031D+03	4.8495D-01	4.0924D-01	2.5251D+02	1.4675D+03	6.3960D+00	1.4322D-04	2.1045D-05	2.4937D-05	5.7430D+00
5820	2.7079D+03	4.8495D-01	4.0937D-01	2.5609D+02	1.4658D+03	6.3868D+00	1.4342D-04	2.1213D-05	2.5129D-05	5.7073D+00
5830	2.7128D+03	4.8495D-01	4.0949D-01	2.5971D+02	1.4641D+03	6.3776D+00	1.4363D-04	2.1383D-05	2.5323D-05	5.6718D+00
5840	2.7176D+03	4.8495D-01	4.0962D-01	2.6336D+02	1.4623D+03	6.3685D+00	1.4383D-04	2.1555D-05	2.5519D-05	5.6363D+00
5850	2.7225D+03	4.8455D-01	4.0975D-01	2.6704D+02	1.4606D+03	6.3593D+00	1.4404D-04	2.1729D-05	2.5717D-05	5.6009D+00
5860	2.7273D+03	4.8495D-01	4.0988D-01	2.7076D+02	1.4589D+03	6.3502D+00	1.4425D-04	2.1906D-05	2.5918D-05	5.5656D+00
5870	2.7322D+03	4.8495D-01	4.1001D-01	2.7452D+02	1.4571D+03	6.3410D+00	1.4446D-04	2.2084D-05	2.6120D-05	5.5304D+00
5880	2.7370D+03	4.8495D-01	4.1014D-01	2.7830D+02	1.4554D+03	6.3318D+00	1.4467D-04	2.2265D-05	2.6325D-05	5.4953D+00
5890	2.7419D+03	4.8495D-01	4.1028D-01	2.8213D+02	1.4536D+03	6.3227D+00	1.4488D-04	2.2447D-05	2.6532D-05	5.4603D+00
5900	2.7467D+03	4.8455D-01	4.1041D-01	2.8598D+02	1.4519D+03	6.3135D+00	1.4509D-04	2.2632D-05	2.6742D-05	5.4254D+00
5910	2.7516D+03	4.8495D-01	4.1055D-01	2.8987D+02	1.4502D+03	6.3044D+00	1.4530D-04	2.2819D-05	2.6954D-05	5.3905D+00
5920	2.7564D+03	4.8495D-01	4.1069D-01	2.9380D+02	1.4484D+03	6.2952D+00	1.4551D-04	2.3008D-05	2.7169D-05	5.3557D+00
5930	2.7613D+03	4.8495D-01	4.1083D-01	2.9776D+02	1.4467D+03	6.2860D+00	1.4572D-04	2.3200D-05	2.7385D-05	5.3211D+00
5940	2.7661D+03	4.8495D-01	4.1097D-01	3.0176D+02	1.4450D+03	6.2769D+00	1.4593D-04	2.3394D-05	2.7605D-05	5.2865D+00
5950	2.7710D+03	4.8495D-01	4.1112D-01	3.0579D+02	1.4432D+03	6.2677D+00	1.4615D-04	2.3591D-05	2.7827D-05	5.2519D+00
5960	2.7758D+03	4.8495D-01	4.1126D-01	3.0985D+02	1.4415D+03	6.2586D+00	1.4636D-04	2.3790D-05	2.8052D-05	5.2175D+00
5970	2.7807D+03	4.8495D-01	4.1141D-01	3.1395D+02	1.4398D+03	6.2494D+00	1.4657D-04	2.3991D-05	2.8279D-05	5.1831D+00

THERMODYNAMIC PROPERTIES OF LIQUID URANIUM DIOXIDE

T (K)	H-H (298) (J/G)	CP (J/G-K)	CV (J/G-K)	P (ATM)	DE (J/G)	DENSITY (G/CC)	ALPHA P (1/K)	BETAS (1/ATM)	BETAT (1/ATM)	GAMMA V (1/ATM)
5960	2.7855E+03	4.8495E-01	4.1156E-01	3.1809E+02	1.4380E+03	6.2402E+00	1.4679E-04	2.4195E-05	2.8509E-05	5.1488E+00
5990	2.7904E+03	4.8495E-01	4.1171E-01	3.2226E+02	1.4363E+03	6.2311E+00	1.4701E-04	2.4401E-05	2.8742E-05	5.1146E+00
6000	2.7952E+03	4.8495E-01	4.1186E-01	3.2647E+02	1.4345E+03	6.2219E+00	1.4722E-04	2.4611E-05	2.8978E-05	5.0805E+00

TRANSPORT PROPERTIES AND SPEED OF SOUND OF LIQUID UO_2
IN CGS UNITS

TRANSPORT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (CP)	EMISSIVITY	SPEED OF SOUND (CM/S)
3120	4.3436D+00	8.3904D-01	1.8601D+05
3130	4.3231D+00	8.3965D-01	1.8543D+05
3140	4.3028D+00	8.4028D-01	1.8485D+05
3150	4.2827D+00	8.4091D-01	1.8428D+05
3160	4.2629D+00	8.4154D-01	1.8370D+05
3170	4.2433D+00	8.4219D-01	1.8312D+05
3180	4.2239D+00	8.4284D-01	1.8255D+05
3190	4.2047D+00	8.4350D-01	1.8197D+05
3200	4.1857D+00	8.4417D-01	1.8139D+05
3210	4.1669D+00	8.4485D-01	1.8082D+05
3220	4.1483D+00	8.4553D-01	1.8024D+05
3230	4.1300D+00	8.4622D-01	1.7966D+05
3240	4.1118D+00	8.4692D-01	1.7908D+05
3250	4.0938D+00	8.4762D-01	1.7851D+05
3260	4.0760D+00	8.4833D-01	1.7793D+05
3270	4.0583D+00	8.4905D-01	1.7735D+05
3280	4.0409D+00	8.4977D-01	1.7678D+05
3290	4.0236D+00	8.5050D-01	1.7620D+05
3300	4.0065D+00	8.5124D-01	1.7562D+05
3310	3.9896D+00	8.5198D-01	1.7505D+05
3320	3.9729D+00	8.5273D-01	1.7447D+05
3330	3.9563D+00	8.5348D-01	1.7389D+05
3340	3.9399D+00	8.5424D-01	1.7332D+05
3350	3.9237D+00	8.5501D-01	1.7274D+05
3360	3.9076D+00	8.5578D-01	1.7216D+05
3370	3.8917D+00	8.5655D-01	1.7158D+05

TRANSPORT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (CP)	EMISSIVITY	SPEED OF SOUND (CM/S)
3380	3.8760E+00	8.5733D-01	1.7101D+05
3390	3.8604D+00	8.5812D-01	1.7043D+05
3400	3.8449E+00	8.5891D-01	1.6985D+05
3410	3.8296E+00	8.5971D-01	1.6933D+05
3420	3.8145D+00	8.6051E-01	1.6881D+05
3430	3.7995E+00	8.6131D-01	1.6829D+05
3440	3.7846D+00	8.6212D-01	1.6778D+05
3450	3.7699E+00	8.6293D-01	1.6727D+05
3460	3.7554E+00	8.6375D-01	1.6676D+05
3470	3.7409D+00	8.6457D-01	1.6625D+05
3480	3.7267D+00	8.6540D-01	1.6575D+05
3490	3.7125E+00	8.6623D-01	1.6525D+05
3500	3.6985D+00	8.6706D-01	1.6475D+05
3510	3.6846D+00	8.6790D-01	1.6426D+05
3520	3.6709D+00	8.6873D-01	1.6377D+05
3530	3.6572D+00	8.6958D-01	1.6328D+05
3540	3.6437E+00	8.7042D-01	1.6279D+05
3550	3.6304D+00	8.7127D-01	1.6231D+05
3560	3.6171D+00	8.7212D-01	1.6183D+05
3570	3.6040D+00	8.7298D-01	1.6135D+05
3580	3.5910D+00	8.7383D-01	1.6088D+05
3590	3.5781D+00	8.7469D-01	1.6041D+05
3600	3.5653D+00	8.7555D-01	1.5994D+05
3610	3.5527D+00	8.7642D-01	1.5947D+05
3620	3.5402D+00	8.7728D-01	1.5901D+05
3630	3.5277D+00	8.7815D-01	1.5854D+05

TRANSPORT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (CP)	EMISSIVITY	SPEED OF SOUND (CM/S)
3640	3.5154D+00	8.7902D-01	1.5808D+05
3650	3.5032D+00	8.7989D-01	1.5763D+05
3660	3.4911D+00	8.8076D-01	1.5717D+05
3670	3.4791D+00	8.8164D-01	1.5672D+05
3680	3.4673D+00	8.8251D-01	1.5627D+05
3690	3.4555D+00	8.8339D-01	1.5582D+05
3700	3.4438D+00	8.8427D-01	1.5537D+05
3710	3.4322D+00	8.8514D-01	1.5493D+05
3720	3.4208D+00	8.8602D-01	1.5449D+05
3730	3.4094D+00	8.8690D-01	1.5405D+05
3740	3.3981D+00	8.8778D-01	1.5361D+05
3750	3.3869D+00	8.8866D-01	1.5318D+05
3760	3.3759D+00	8.8955D-01	1.5275D+05
3770	3.3649D+00	8.9043D-01	1.5231D+05
3780	3.3540D+00	8.9131D-01	1.5189D+05
3790	3.3432D+00	8.9219D-01	1.5146D+05
3800	3.3325D+00	8.9307D-01	1.5103D+05
3810	3.3219D+00	8.9395D-01	1.5061D+05
3820	3.3113D+00	8.9483D-01	1.5019D+05
3830	3.3009D+00	8.9571D-01	1.4977D+05
3840	3.2905D+00	8.9659D-01	1.4936D+05
3850	3.2803D+00	8.9747D-01	1.4894D+05
3860	3.2701D+00	8.9835D-01	1.4853D+05
3870	3.2600D+00	8.9923D-01	1.4812D+05
3880	3.2500D+00	9.0010D-01	1.4771D+05
3890	3.2400D+00	9.0098D-01	1.4730D+05

TRANSCAT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (CP)	EMISSIVITY	SPEED OF SOUND (CM/S)
3900	3.2302D+00	9.0185D-01	1.4689D+05
3910	3.2204D+00	9.0272D-01	1.4649D+05
3920	3.2107D+00	9.0359D-01	1.4609D+05
3930	3.2011D+00	9.0446D-01	1.4569D+05
3940	3.1916D+00	9.0533D-01	1.4529D+05
3950	3.1821D+00	9.0620D-01	1.4489D+05
3960	3.1727D+00	9.0706D-01	1.4450D+05
3970	3.1634D+00	9.0792D-01	1.4410D+05
3980	3.1542D+00	9.0878D-01	1.4371D+05
3990	3.1450D+00	9.0964D-01	1.4332D+05
4000	3.1359D+00	9.1050D-01	1.4293D+05
4010	3.1269D+00	9.1135D-01	1.4255D+05
4020	3.1180D+00	9.1220D-01	1.4216D+05
4030	3.1091D+00	9.1305D-01	1.4178D+05
4040	3.1003D+00	9.1389D-01	1.4139D+05
4050	3.0915D+00	9.1474D-01	1.4101D+05
4060	3.0829D+00	9.1558D-01	1.4063D+05
4070	3.0743D+00	9.1642D-01	1.4026D+05
4080	3.0657D+00	9.1725D-01	1.3988D+05
4090	3.0572D+00	9.1808D-01	1.3950D+05
4100	3.0488D+00	9.1891D-01	1.3913D+05
4110	3.0405D+00	9.1974D-01	1.3876D+05
4120	3.0322D+00	9.2056D-01	1.3839D+05
4130	3.0240D+00	9.2138D-01	1.3802D+05
4140	3.0158D+00	9.2219D-01	1.3765D+05
4150	3.0077D+00	9.2301D-01	1.3728D+05

TRANSECT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (CP)	EMISSIVITY	SPEED OF SOUND (CM/S)
4160	2.9997D+00	9.2382D-01	1.3692D+05
4170	2.9917D+00	9.2462D-01	1.3655D+05
4180	2.9838D+00	9.2542E-01	1.3619D+05
4190	2.9759E+00	9.2622D-01	1.3583D+05
4200	2.9681D+00	9.2702E-01	1.3547D+05
4210	2.9604D+00	9.2781D-01	1.3511D+05
4220	2.9527D+00	9.2859E-01	1.3475D+05
4230	2.9451D+00	9.2938E-01	1.3440D+05
4240	2.9375D+00	9.3015D-01	1.3404D+05
4250	2.9300D+00	9.3093D-01	1.3369D+05
4260	2.9225D+00	9.3170D-01	1.3334D+05
4270	2.9151D+00	9.3247D-01	1.3298D+05
4280	2.9077E+00	9.3323D-01	1.3263D+05
4290	2.9004D+00	9.3398D-01	1.3229D+05
4300	2.8932D+00	9.3474D-01	1.3194D+05
4310	2.8859D+00	9.3549D-01	1.3159D+05
4320	2.8788E+00	9.3623D-01	1.3124D+05
4330	2.8717D+00	9.3697E-01	1.3090D+05
4340	2.8646E+00	9.3771D-01	1.3056D+05
4350	2.8576D+00	9.3844D-01	1.3021D+05
4360	2.8507D+00	9.3917D-01	1.2987D+05
4370	2.8438D+00	9.3989D-01	1.2953D+05
4380	2.8369D+00	9.4060D-01	1.2919D+05
4390	2.8301D+00	9.4132D-01	1.2886D+05
4400	2.8234D+00	9.4202D-01	1.2852D+05
4410	2.8166D+00	9.4273D-01	1.2818D+05

TRANSPORT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (CP)	EMISSIVITY	SPEED OF SOUND (CM/S)
4420	2.8100D+00	9.4343D-01	1.2785D+05
4430	2.8034D+00	9.4412D-01	1.2751D+05
4440	2.7968D+00	9.4481D-01	1.2718D+05
4450	2.7902D+00	9.4549D-01	1.2685D+05
4460	2.7838D+00	9.4617D-01	1.2652D+05
4470	2.7773D+00	9.4684D-01	1.2619D+05
4480	2.7709D+00	9.4751D-01	1.2586D+05
4490	2.7646D+00	9.4817D-01	1.2553D+05
4500	2.7582D+00	9.4883D-01	1.2520D+05
4510	2.7520D+00	9.4949D-01	1.2487D+05
4520	2.7457D+00	9.5013D-01	1.2455D+05
4530	2.7396D+00	9.5078D-01	1.2422D+05
4540	2.7334D+00	9.5142D-01	1.2390D+05
4550	2.7273D+00	9.5205D-01	1.2358D+05
4560	2.7212D+00	9.5268D-01	1.2325D+05
4570	2.7152D+00	9.5330D-01	1.2293D+05
4580	2.7092D+00	9.5392D-01	1.2261D+05
4590	2.7033D+00	9.5453D-01	1.2229D+05
4600	2.6974D+00	9.5514D-01	1.2197D+05
4610	2.6915D+00	9.5574D-01	1.2166D+05
4620	2.6857D+00	9.5634D-01	1.2134D+05
4630	2.6799D+00	9.5693D-01	1.2102D+05
4640	2.6741D+00	9.5751D-01	1.2071D+05
4650	2.6684D+00	9.5809D-01	1.2039D+05
4660	2.6627D+00	9.5867D-01	1.2008D+05
4670	2.6571D+00	9.5924D-01	1.1976D+05

TRANSPORT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (CP)	EMISSIVITY	SPEED OF SOUND (CM/S)
4680	2.6515D+00	9.5981D-01	1.1945D+05
4690	2.6459D+00	9.6037D-01	1.1914D+05
4700	2.6403D+00	9.6092E-01	1.1883D+05
4710	2.6348D+00	9.6147D-01	1.1852D+05
4720	2.6294D+00	9.6201D-01	1.1821D+05
4730	2.6239D+00	9.6255D-01	1.1790D+05
4740	2.6185D+00	9.6309D-01	1.1759D+05
4750	2.6132D+00	9.6362D-01	1.1728D+05
4760	2.6078D+00	9.6414D-01	1.1697D+05
4770	2.6025D+00	9.6466D-01	1.1667D+05
4780	2.5973D+00	9.6517D-01	1.1636D+05
4790	2.5920D+00	9.6568D-01	1.1605D+05
4800	2.5868D+00	9.6618D-01	1.1575D+05
4810	2.5816D+00	9.6668D-01	1.1545D+05
4820	2.5765D+00	9.6717D-01	1.1514D+05
4830	2.5714D+00	9.6766D-01	1.1484D+05
4840	2.5663D+00	9.6814D-01	1.1454D+05
4850	2.5613D+00	9.6862D-01	1.1424D+05
4860	2.5563D+00	9.6909D-01	1.1393D+05
4870	2.5513D+00	9.6955D-01	1.1363D+05
4880	2.5463D+00	9.7002D-01	1.1333D+05
4890	2.5414D+00	9.7047D-01	1.1303D+05
4900	2.5365D+00	9.7092D-01	1.1273D+05
4910	2.5316D+00	9.7137D-01	1.1244D+05
4920	2.5268D+00	9.7181D-01	1.1214D+05
4930	2.5220D+00	9.7225D-01	1.1184D+05

TRANSPORT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (CP)	EMISSIVITY	SPEED OF SOUND (CM/S)
4940	2.5172E+00	9.7266E-01	1.1154E+05
4950	2.5125E+00	9.7310E-01	1.1125E+05
4960	2.5077E+00	9.7353E-01	1.1095E+05
4970	2.5030E+00	9.7394E-01	1.1066E+05
4980	2.4984E+00	9.7435E-01	1.1036E+05
4990	2.4937E+00	9.7476E-01	1.1007E+05
5000	2.4891E+00	9.7516E-01	1.0977E+05
5010	2.4845E+00	9.7556E-01	1.0948E+05
5020	2.4800E+00	9.7595E-01	1.0919E+05
5030	2.4754E+00	9.7634E-01	1.0889E+05
5040	2.4709E+00	9.7672E-01	1.0860E+05
5050	2.4664E+00	9.7710E-01	1.0831E+05
5060	2.4620E+00	9.7748E-01	1.0802E+05
5070	2.4576E+00	9.7785E-01	1.0773E+05
5080	2.4532E+00	9.7821E-01	1.0744E+05
5090	2.4488E+00	9.7857E-01	1.0715E+05
5100	2.4444E+00	9.7892E-01	1.0686E+05
5110	2.4401E+00	9.7928E-01	1.0657E+05
5120	2.4358E+00	9.7962E-01	1.0628E+05
5130	2.4315E+00	9.7996E-01	1.0599E+05
5140	2.4273E+00	9.8030E-01	1.0570E+05
5150	2.4230E+00	9.8063E-01	1.0541E+05
5160	2.4188E+00	9.8096E-01	1.0512E+05
5170	2.4146E+00	9.8129E-01	1.0484E+05
5180	2.4105E+00	9.8161E-01	1.0455E+05
5190	2.4063E+00	9.8192E-01	1.0426E+05

TRANSPORT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (CP)	EMISSIVITY	SPEED OF SOUND (CM/S)
5200	2.4022D+00	9.8223D-01	1.0398D+05
5210	2.3981D+00	9.8254D-01	1.0369D+05
5220	2.3940D+00	9.6284E-01	1.0340D+05
5230	2.3900D+00	9.8314D-01	1.0312D+05
5240	2.3860D+00	9.8344E-01	1.0283D+05
5250	2.3820D+00	9.8373D-01	1.0255D+05
5260	2.3780D+00	9.8401D-01	1.0226D+05
5270	2.3740D+00	9.8429E-01	1.0198D+05
5280	2.3701D+00	9.8457E-01	1.0169D+05
5290	2.3662D+00	9.8485D-01	1.0141D+05
5300	2.3623D+00	9.8512D-01	1.0112D+05
5310	2.3584E+00	9.8539D-01	1.0084E+05
5320	2.3545E+00	9.8565D-01	1.0056D+05
5330	2.3507D+00	9.8591D-01	1.0027D+05
5340	2.3469D+00	9.8616D-01	9.9991D+04
5350	2.3431D+00	9.8641D-01	9.9708D+04
5360	2.3393E+00	9.8666D-01	9.9425D+04
5370	2.3356D+00	9.8691E-01	9.9142D+04
5380	2.3319E+00	9.8715E-01	9.8860D+04
5390	2.3281D+00	9.8738D-01	9.8578D+04
5400	2.3244E+00	9.8762D-01	9.8295D+04
5410	2.3208D+00	9.8785D-01	9.8013D+04
5420	2.3171E+00	9.8807E-01	9.7732D+04
5430	2.3135D+00	9.8830D-01	9.7450D+04
5440	2.3099D+00	9.8852D-01	9.7168D+04
5450	2.3063D+00	9.8873D-01	9.6887D+04

TRANSPORT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (CP)	EMISSIVITY	SPEED OF SOUND (CM/S)
5460	2.3027E+00	9.8895D-01	9.6606D+04
5470	2.2991D+00	9.8915D-01	9.6324D+04
5480	2.2956D+00	9.8936D-01	9.6043D+04
5490	2.2921D+00	9.8956D-01	9.5762D+04
5500	2.2886D+00	9.8976D-01	9.5481D+04
5510	2.2851D+00	9.8996D-01	9.5200D+04
5520	2.2816D+00	9.9015D-01	9.4919D+04
5530	2.2782E+00	9.9034D-01	9.4638D+04
5540	2.2747D+00	9.9053D-01	9.4357D+04
5550	2.2713E+00	9.9072D-01	9.4077D+04
5560	2.2679D+00	9.9090D-01	9.3796D+04
5570	2.2645E+00	9.9108D-01	9.3515D+04
5580	2.2612D+00	9.9125D-01	9.3235D+04
5590	2.2578D+00	9.9142E-01	9.2954D+04
5600	2.2545E+00	9.9159D-01	9.2673D+04
5610	2.2512D+00	9.9176E-01	9.2392D+04
5620	2.2479D+00	9.9192D-01	9.2112D+04
5630	2.2446D+00	9.9209D-01	9.1831D+04
5640	2.2413D+00	9.9224D-01	9.1550D+04
5650	2.2381D+00	9.9240D-01	9.1269D+04
5660	2.2349D+00	9.9255D-01	9.0988D+04
5670	2.2317D+00	9.9270D-01	9.0707D+04
5680	2.2285D+00	9.9285D-01	9.0426D+04
5690	2.2253D+00	9.9300D-01	9.0145D+04
5700	2.2221D+00	9.9314D-01	8.9864D+04
5710	2.2190D+00	9.9328D-01	8.9583D+04

TRANSFET PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (CP)	EMISSIVITY	SPEED OF SOUND (CM/S)
5720	2.2158D+00	9.9342D-01	8.9302D+04
5730	2.2127D+00	9.9356D-01	8.9020D+04
5740	2.2096D+00	9.9369D-01	8.8738D+04
5750	2.2065D+00	9.9382D-01	8.8457D+04
5760	2.2034D+00	9.9395D-01	8.8175D+04
5770	2.2004D+00	9.9407D-01	8.7893D+04
5780	2.1973D+00	9.9420D-01	8.7611D+04
5790	2.1943D+00	9.9432D-01	8.7328D+04
5800	2.1913D+00	9.9444D-01	8.7046D+04
5810	2.1883D+00	9.9456D-01	8.6763D+04
5820	2.1853D+00	9.9467D-01	8.6480D+04
5830	2.1823D+00	9.9479D-01	8.6197D+04
5840	2.1793D+00	9.9490D-01	8.5914D+04
5850	2.1764D+00	9.9501D-01	8.5631D+04
5860	2.1735D+00	9.9511D-01	8.5347D+04
5870	2.1705D+00	9.9522D-01	8.5063D+04
5880	2.1676D+00	9.9532D-01	8.4779D+04
5890	2.1648D+00	9.9542D-01	8.4494D+04
5900	2.1619D+00	9.9552D-01	8.4209D+04
5910	2.1590D+00	9.9562D-01	8.3925D+04
5920	2.1562D+00	9.9572D-01	8.3639D+04
5930	2.1533D+00	9.9581D-01	8.3354D+04
5940	2.1505D+00	9.9590D-01	8.3068D+04
5950	2.1477D+00	9.9599D-01	8.2782D+04
5960	2.1449D+00	9.9608D-01	8.2495D+04
5970	2.1421D+00	9.9617D-01	8.2208D+04

TRANSPORT PROPERTIES & SPEED OF SOUND OF LIQUID URANIUM DIOXIDE

T (K)	VISCOSITY (CP)	EMISSIVITY	SPEED OF SOUND (CM/S)
5980	2.1394D+00	9.9625D-01	8.1921D+04
5990	2.1366D+00	9.9634D-01	8.1634D+04
6000	2.1338D+00	9.9642D-01	8.1346D+04

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