

熱力学データに関する蔵書リスト

当施設には、数は少ないですが熱力学に関するデータ集が所蔵されています。多くの方々に御利用いただくため、主だった図書のリストを掲げます。今後も少しずつ増やしていく予定であり、折に触れお知らせします。なお[1]のデータ集は、化学熱学実験施設の発足を祝し、モスクワ大学の V. P. Kolesov 教授から贈与されたものです。露語で書かれていますが、データ集なのでそれほど困難なく利用できます。

- [1] “Thermodynamic Properties of Pure Substances” editor-in-chief V. P. Glushko, Nauka, Moscow.
- Vol. I (1965) : O, H(D, T), F, Cl, Br, I, At, ³He, He, Ne, Ar, Kr, Xe, Rn.
- Vol. I, Part 1 (1978); Vol. I, Part 2 (1978) : O, H(D, T), F, Cl, Br, I, He, Ne, Ar, Kr, Xe, Rn, S, N, P.
- Vol. II (1966) : S, Se, Te, Po.
- Vol. II, Part 1 (1979); Vol. II, Part 2 (1979) : C, Si, Ge, Sn, Pb.
- Vol. III (1968) : N, P, As, Sb, Bi.
- Vol. III, Part 1 (1981); Vol. III, Part 2 (1981) : B, Al, Ga, In, Tl, Be, Mg, Ca, Sr, Ba.
- Vol. IV, Part 1 (1970); Vol. IV, Part 2 (1971) : C, Si, Ge, Sn, Pb.
- Vol. V (1971) : B, Al, Ga, In, Tl.
- Vol. VI, Part 1 (1972); Vol. VI, Part 2 (1973) : Zn, Cd, Hg, Cu, Ag, Au, Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt.
- Vol. VII, Part 1 (1974); Vol. VII, Part 2 (1974) : Mn, Tc, Re, Cr, Mo, W, V, Nb, Ta, Ti, Zr, Hf.
- Vol. IX (1979) : Be, Mg, Ca, Sr, Ba, Ra.
- Vol. X, Part 1 (1981) : Li, Na.
- Vol. X, Part 2 (1981) : K, Rb, Cs, Fr.
- Vol. X, Part 3 (1982) : Li, Na, K, Rb, Cs, Fr.
- [2] “Journal of Chemical Thermodynamics”, Academic Press.
- Vol. 1 (1969)~Vol. 20 (1988) +
- [3] “Journal of Physical and Chemical Reference Data”, published by the Am. Chem. Soc. and the Am. Inst. Phys. for the NBS.
- Vol. 1, No. 2 (pp. 221-277) (1972) : Selected Values of Heats of Combustion and Heats of Formation of Organic Compounds Containing the Elements C, H, N, O, P, and S.
- Vol. 2, Supplement No. 1 (1973) : Physical and Thermodynamic Properties of Aliphatic Alcohols.
- Vol. 2, No. 2 (pp. 427-438) (1973) : Ideal Gas Thermodynamic Properties of Ethane and Propane.
- Vol. 3, No. 1 (pp. 117-140) (1974) : Ideal Gas Thermodynamic Properties of Eight Chloro- and Fluoromethanes.

- Vol. 3, No. 1 (pp. 141-162) (1974) : Ideal Gas Thermodynamic Properties of Six Chloroethanes.
- Vol. 3, No. 2 (pp. 311-480) (1974) : JANAF Thermochemical Tables, 1974 Supplement.
- Vol. 4, No. 1 (pp. 1-175) (1975) : JANAF Thermochemical Tables, 1975 Supplement.
- Vol. 4, No. 1 (pp. 251-261) (1975) : Ideal Gas Thermodynamic Properties of Ethylene and Propylene.
- Vol. 4, No. 2 (pp. 441-456) (1975) : Ideal Gas Thermodynamic Properties of Six Fluoroethanes.
- Vol. 4, No. 2 (pp. 457-470) (1975) : Ideal Gas Thermodynamic Properties of the Eight Bromo- and Iodomethanes.
- Vol. 4, No. 4 (pp. 859-869) (1975) : Ideal Gas Thermodynamic Properties and Isomerization of *n*-Butane and Isobutane.
- Vol. 5, No. 2 (pp. 319-328) (1976) : Ideal Gas Thermodynamic Properties of Propanone and 2-Butanone.
- Vol. 5, No. 3 (pp. 571-580) (1976) : Ideal Gas Thermodynamic Properties of Six Chlorofluoromethanes.
- Vol. 6, No. 1 (pp. 105-112) (1977) : Thermodynamic Properties of Normal and Deuterated Methanols.
- Vol. 6, Supplement No. 1 (1977) : Energetics of Gaseous Ions.
- Vol. 6, No. 3 (pp. 993-1102) (1977) : Tables of Molecular Vibrational Frequencies. Consolidated Volume II.
- Vol. 7, No. 1 (pp. 363-377) (1978) : Ideal Gas Thermodynamic Properties of Methanoic and Ethanoic Acids.
- Vol. 7, No. 2 (pp. 417-423) (1978) : Ideal Gas Thermodynamic Properties of Phenol and Cresols.
- Vol. 7, No. 3 (pp. 793-940) (1978) : JANAF Thermochemical Tables, 1978 Supplement.
- Vol. 7, No. 4 (pp. 1285-1307) (1978) : Ideal Gas Thermodynamic Properties of $\text{CH}_4-(a+b+c+d)\text{F}_a\text{Cl}_b\text{Br}_c\text{I}_d$ Halomethanes.
- Vol. 7, No. 4 (pp. 1323-1443) (1978) : Tables of Molecular Vibrational Frequencies, Part 9.
- Vol. 11, Supplement No. 2 (1982) : The NBS Tables of Chemical Thermodynamic Properties. Selected Values for Inorganic and C_1 and C_2 Organic Substances in SI Unit.
- Vol. 11, No. 3 (pp. 695-940) (1982) : JANAF Thermochemical Tables, 1982 Supplement.
- Vol. 13, Supplement No. 1 (1984) : Heat Capacities and Entropies of Organic Compounds in the Condensed Phase

[4] "National Standard Reference Data Series of National Bureau of Standards", U. S. Department of Commerce/National Bureau of Standards.
 NSRDS-NBS 37 (1971) : JANAF Thermochemical Tables, 2nd edition.

- NSRDS-NBS 39 (1972) : Tables of Molecular Vibrational Frequencies, Consolidated Volume I.
- NSRDS-NBS 66, Part 1 (1980) : Ion Energetics Measurements, Part 1, 1971-1973.
- [5] **“NBS Special Publication”**, U. S. Department of Commerce/National Bureau of Standards.
 No. 260-53 (1975) : Standardization of pH Measurements.
 No. 561, Vol. 1 (1979); No. 561, Vol. 2 (1979) : 10th Materials Research Symposium on Characterization of High Temperature Vapors and Gases.
 No. 580 (1980) : The State-of-the-Art of Thermal Analysis.
 No. 590 (1980) : The Technological Importance of Accurate Thermophysical Property Information.
- [6] **“NBS Technical Note”**, U. S. Department of Commerce/National Bureau of Standards.
 No. 1115 (1980) : A Report on the Relevance of the Second Law of Thermodynamics to Energy Conservation.
- [7] **“The Vapour Pressures of Pure Substances”**, edited by T. Boublik, V. Fried and E. Hala, Elsevier (1973).
- [8] **“Chemical Thermodynamics Vol. 2 : A Review of the Recent Literature”**, A Specialist Periodical Report, edited by M. L. McGlashan, The Chemical Society (1978).
- [9] **“International Thermodynamic Tables of the Fluid State-6, Nitrogen”**, IUPAC Chemical Data Series No. 20, Pergamon Press (1979).
- [10] **“Heats of Phase Change of Pure Components and Mixtures : A Literature Guide”**, Physical Science Data 14, edited by A. Tamir, E. Tamir and K. Stephan, Elsevier (1983).
- [11] **“Temperature; Its Measurement and Control in Science and Industry”**, edited by J. F. Schooley, American Institute of Physics.
 Vol. 5, Part 1 (1982) and Vol. 5, Part 2 (1982).
- [12] **“Temperature”**, by T. J. Quinn, Academic Press (1983).
- [13] **“Thermochemical Data of Organic Compounds”**, 2nd Edition, by J. B. Pedley, R. D. Naylor and S. P. Kirby, Chapman and Hall (1986).
- [14] **“JANAF Thermochemical Tables : Third Edition”** edited by M. W. Chase, Jr., C. A. Davies, J. R. Downey, Jr., D. J. Frutkin, R. A. McDonald and A. N. Syverud, ACS and AIP for NBS (1986).
- [15] **“Thermodynamic Data for Biochemistry and Biotechnology”** edited by H. J. Hinz, Springer Verlag (1986).