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NIST Standard Reference Database 13 Last Update to Data Content: 1998 DOI: 10.18434/T42S31

### NIST-JANAF Thermochemical Tables

NIST-JANAF Thermochemical Tables, 4th Edition. Published. August 1, 1998. Author(s) M W. Chase. Citation. NIST-JANAF Thermochemical Tables 2 Volume-Set (Journal of Physical and Chemical Reference Data Monographs) Publisher Info. American Institute of Physics, -1. Pub Type. Books. Chemistry and Reference data. Created August 1, 1998, Updated ...

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### Janaf Thermochemical Tables Fourth Edition

NIST-JANAF Thermochemical Tables. Chase M.W. 4th Edition. Monograph No.9 — New York: American Chemical Society and the American Institute of Physics for the National Institute of Standards and Technology, 1998, 1961 p. — 2 volumes. — (Journal of physical and chemical reference data). — ISBN 1-56396-831-2 set. Part I: Al-Co. - 1998. - xi, 957 p.

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If you are interested in background information on the content of the NIST-JANAF Thermochemical Tables, you might find the introduction to Volume 1 of the Fourth Edition to be a great resource. If you are interested in finding the most up-to-date thermochemical data, the Active Thermochemical Tables (ATcT) project hosted by Argonne National Laboratories (ANL) under the supervision of Dr. Branko Ruscic may be helpful.

### NIST-JANAF Thermochemical Tables

NIST-JANAF Thermochemical Tables. I. Ten Organic Molecules Related to Atmospheric Chemistry Olga Dorofeevaa- Physical and Chemical Properties Division, Chemical Science and Technology Laboratory, National Institute of Standards and Technology, Gaithersburg, Maryland 20899 Vladimir P. Novikov

### NIST-JANAF Thermochemical Tables. I. Ten Organic Molecules ...

This latest edition of the NIST-JANAF Thermochemical Tables gathers in one resource new and meticulously revised key temperature-dependent thermochemical properties including heat capacity, enthalpy, entropy, Gibbs energy function, enthalpy of formation, Gibbs (free) energy of formation, transition data, fusion data, vaporization data, sublimation data, and the logarithm of the equilibrium constant of formation for over 47 elements and their associated compounds.

### Chase M.W. NIST-JANAF Thermochemical Tables [PDF] - Bce ...

Oxygen (O<sub>2</sub>): O<sub>2</sub> (ref): Enthalpy Reference Temperature = T<sub>r</sub> = 298.15 K Standard State Pressure = p° = 0.1 MPa J·K<sup>-1</sup> mol<sup>-1</sup> kJ·mol<sup>-1</sup>; T/K C p° S°-[G°-H°(T<sub>r</sub>)]/TH-H°(T<sub>r</sub>) f H° f G° log K f; 0: 0. 0. INFINITE-8.683: 0. 0. 0. 100: 29.106: 173.307: 231.094

### **NIST-JANAF Thermochemical Tables**

NIST-JANAF THERMOCHEMICAL TABLES, Fourth Edition, Monograph 9 (Part I and Part II) (1998), 1963 pp. by M. W. Chase, Jr. (228.40 MB) ATOMIC TRANSITION PROBABILITIES OF CARBON, NITROGEN, AND OXYGEN, by W. L. Wiese, J. R. Fuhr, and T. M. Deters. (Monograph No. 7) 1996, 522 pp. (54.19 MB)

### **Journal of Physical and Chemical Reference Data Monographs ...**

NIST-JANAF Thermochemical Tables Formula index JCODE FORMULA NAME \*\* JANAF INDEX SORTED BY FORMULA PAGE 1 Al1(ref) Aluminum (Al) 61 2 Al1(cr) Aluminum (Al) 62 3 Al1(l) Aluminum (Al) 63 1759 Al1(cr,l) Aluminum (Al) 64 4 Al1(g) Aluminum (Al) 65 843 Al1+(g) Aluminum, ion (Al+) 66 1521 Al1-(g) Aluminum, ion (Al-) 67 887 Al1B1O2(g) Aluminum borate ...

### **NIST-JANAF Thermochemical Tables**

This table gives the standard state chemical thermodynamic properties of about 2400 individual substances in the crystalline, liquid, and gaseous states. Substances are listed by molecular formula in a modified Hill order; all compounds not containing carbon appear first, followed by those that contain carbon. The properties tabulated are:

### **STANDARD THERMODYNAMIC PROPERTIES OF CHEMICAL SUBSTANCES**

This is the 4th revised edition of the classical JANAF Thermochemical Tables. As a researcher working on thermodynamics and statistical thermodynamics of non-stoichiometric interstitial solution systems, I have been using the earlier version of this table published in 1965 in which the data were compiled in cal. unit.

### **Nist-Janaf Thermochemical Tables Set 4th Edition**

This is the revised, extended, up-to-date third edition of the acclaimed reference book 'Thermochemical Data of Pure Substances'. The introductory section discusses thermodynamic theory and applications concisely and explains how best to use the tables; it has also been expanded to refer to ores, coal, waste and residues.

### **Thermochemical Data of Pure Substances | Wiley Online Books**

NIST-JANAF thermochemical tables / Malcolm W. Chase, Jr. edition. 4th ed. imprint. Washington, DC : American Chemical Society ; New York : American Institute of Physics for the National Institute of Standards and Technology, c1998. description.

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### **Explosion Dynamics Laboratory - Joseph Shepherd**

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The JANAF (Joint Army-Navy-Air Force) Tables tabulate temperature-dependent thermochemical properties for over 47 elements and their associated compounds. The 1800+ tables cover the crystal, liquid, or ideal gas states for single and multi-phases of many inorganic substances and organic substances with one or two carbon atoms.

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