

# Journal of Physical and Chemical Reference Data (JPCRD)

The JPCRD is published jointly by the National Institute of Standards and Technology and the American Institute of Physics. The objective of the Journal is to provide critically evaluated physical and chemical property data, fully documented as to the original sources and the criteria used for evaluation.

Critical reviews of measurement techniques, whose aim is to assess the accuracy of available data in a given technical area, are also included. Papers which report new estimation or prediction techniques and test these techniques against existing databases are also accepted.

The journal is not intended as a publication outlet for original experimental measurements such as those that are normally reported in the primary research literature, nor for review articles of a descriptive or primarily theoretical nature.

One source of contributions to the Journal is The National Standard Reference Data System (NSRDS). The Standard Reference Data Program of NIST coordinates a complex of data evaluation centers, located in university, industrial, and other Government laboratories as well as within the National Institute of Standards and Technology.

The primary focus of the NSRDS is on well-defined physical and chemical properties of well-characterized materials or systems. An effort is made to assess the accuracy of data reported in the primary research literature and to prepare compilations of critically evaluated data which will serve as reliable and convenient reference sources for the scientific and technical community.

Indexes are provided for both properties (Activity Coefficients) and classes of materials (Atmospheric Gases) and are cumulated (v.1-10, v.11-20, v.21-29). Beginning with the cumulated index for v.21-30, only a classified property index (AIP classification) is provided.

In addition to the journal, a series of monographic supplements has also appeared.

Journal of Physical and Chemical Reference Data (JPCRD)  
Monographs & Supplements  
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<http://www.nist.gov/srd/monogr.htm>

## Monographs (1989-2000)

SPECTRAL DATA FOR HIGHLY IONIZED ATOMS: Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Kr, and Mo. JPCRD Monograph 8

NIST-JANAF THERMOCHEMICAL TABLES, 4th Edition, Monograph 9.

ATOMIC TRANSITION PROBABILITIES OF CARBON, NITROGEN, AND OXYGEN. Monograph No. 7

HEAT CAPACITY OF LIQUIDS. Monograph No. 6

ATLAS OF SURFACE STRUCTURES. Monograph No. 5

ATLAS OF THE VUV EMISSION SPECTRUM OF MOLECULAR HYDROGEN. Monograph No. 4

VIBRATIONAL AND ELECTRONIC ENERGY LEVELS OF POLYATOMIC TRANSIENT MOLECULES. Monograph No. 3

GAS-PHASE TROPOSPHERIC CHEMISTRY OF ORGANIC COMPOUNDS. Monograph No. 2

KINETICS AND MECHANISMS ... GAS-PHASE REACTIONS ... OH RADICAL WITH ORGANIC COMPOUNDS. Monograph No. 1)

## Supplements (1973-1988)

ATOMIC TRANSITION PROBABILITIES IRON THROUGH NICKEL. V. 17, supp.4

ATOMIC TRANSITION PROBABILITIES SCANDIUM THROUGH MANGANESE. V.17,supp.3

THERMODYNAMIC AND TRANSPORT PROPERTIES FOR MOLTEN SALTS. V.17, supp.2

GAS-PHASE ION AND NEUTRAL THERMOCHEMISTRY. V.17,supp.1

ATOMIC AND IONIC SPECTRUM LINES BELOW 2000 ANGSTROMS; H Thru Kr. V.16,supp.1

ATOMIC ENERGY LEVELS OF THE IRON-PERIOD ELEMENTS, K THRU Ni. V.14,supp.2

JANAF THERMOCHEMICAL TABLES, Third Edition, v.14,supp.1

HEAT CAPACITIES AND ENTROPIES OF ORGANIC COMPOUNDS IN THE CONDENSED PHASE. V.13,supp.1

THERMOPHYSICAL PROPERTIES OF FLUIDS, 1. Ar, ETHYLENE, PARA-H<sub>2</sub>, N<sub>2</sub>, NF<sub>3</sub>, AND O<sub>2</sub>. V.11,supp.1

NBS TABLES OF CHEMICAL THERMODYNAMIC PROPERTIES ... INORGANIC AND C1 C2 ORGANIC ... V.11,supp.2

EVALUATED KINETIC DATA FOR HIGH TEMPERATURE REACTIONS; VOLUME 4: HOMOGENEOUS GAS PHASE REACTIONS OF HALOGEN AND CYANIDE ...SPECIES. V.10,supp.1

ENERGETICS OF GASEOUS IONS. V.6,supp.1

THERMAL CONDUCTIVITY OF THE ELEMENTS: A COMPREHENSIVE REVIEW. V.3,supp.1

PHYSICAL AND THERMODYNAMIC PROPERTIES OF ALIPHATIC ALCOHOLS. V.2,supp.1