



Handbook of Inorganic Compounds, Second Edition

By Dale L. Perry

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This updated edition of the **Handbook of Inorganic Compounds** is the perfect reference for anyone that needs property data for compounds, CASRN numbers for computer or other searches, a consistent tabulation of molecular weights to synthesize inorganic materials on a laboratory scale, or data related to physical and chemical properties. Fully revised, the second edition includes new data on inorganic optical materials, radiation detection inorganics, thermochromic compounds, piezochromic compounds, catalysts, superconductors, and luminescent (fluorescent and phosphorescent) inorganics.

Compiled for chemists, chemical engineers, materials scientists, and other scientists, this handbook provides:

- Basic, essential property data for compounds that they wish to use in their database compilations, research, and applications work
- American Chemical Society (ACS) *Chemical Abstract Registry Numbers (RNs, or CAS numbers)* for computer and other searches. An effort has been made to include *CAS numbers* for both hydrated chemical compounds and their parent anhydrous compounds
- A tabulation of molecular weights for calculations. In this handbook, molecular weights have been calculated to three decimal places in all cases
- Textbook and inorganic chemistry resource books

The **Handbook of Inorganic Compounds: Second Edition** consists of data for 3,326 selected gas, liquid, and solid compounds, including representative compounds of several different classes of compounds. Choices of compounds were based on criteria such as inclusion of the compounds in various handbooks of laboratory chemicals, discussion in recent research publications, compounds important to inorganic materials chemistry, and comments of the Advisory Committee guiding the production of the first edition of the handbook.

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Editorial Review

Review

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About the Author

Dale L. Perry received his PhD in inorganic chemistry from the University of Houston, Houston, Texas. He was a Welch Postdoctoral Fellow and a National Science Postdoctoral Fellow at Rice University. He was a Miller Fellow in chemistry at the University of California, Berkeley, California. He has been on the scientific staff in chemistry at Lawrence Berkeley National Laboratory, University of California, being appointed a Senior Scientist in chemistry at the same institution. He has edited and authored several books, including *Instrumental Surface Analysis of Geologic Materials*, *Applications of Analytical Techniques to the Characterization of Materials*, and *Applications of Synchrotron Radiation Techniques to Materials Science*.

In addition to research, he has been an adviser and a member of several ad hoc panels in the area of instrumentation related to heavy metals, their chemistry, and materials science for several U.S. Government agencies. He is an organizer of symposia and workshops concerning inorganic and materials research that includes the synthesis and characterization of inorganic materials and the application of various types of spectroscopy to those materials

In addition to research, he has been a member of several ad hoc panels for the U.S. Department of Energy related to instrumentation needs in both heavy metal chemical research and research as it pertains to heavy metals, their chemistry, and materials science related to them. He is an organizer of symposia concerning the application of spectroscopy to materials research, synthesis and characterization of inorganic materials, and the application of surface spectroscopy to materials studies.

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