



# Handbook of Infrared and Raman Spectra of Inorganic Compounds and Organic Salts, Four-Volume Set

By Richard A. Nyquist, Ronald O. Kagel, Curtis L. Putzig, M. Anne Leugers

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This four-volume handbook presents unique data of infrared and Raman spectra that are extremely useful for the analysis of inorganic compounds and organic salts. The spectra charts as presented in the volumes may be used to facilitate spectra-structure identification of most compounds, while cross-indexing of data allows for easy comparison of infrared and Raman spectra of the same compound. This comprehensive four-volume set, based on the authors' extensive lifetime research, is an essential reference for industrial and academic researchers and their libraries. Analytical chemists, molecular spectroscopists, materials scientists (especially polymer scientists), chemical engineers, environmentalists, geologists, and others involved in analyzing a wide range of inorganic compounds and organic salts will want to keep the **Handbook** within easy reach. This set is a "must" for pharmaceutical and chemical companies, as well as for industrial and academic libraries.

### Key Features

- \* Four-Volume Set
- \* Indices provide a guide to both infrared and Raman spectra
- \* Includes unique IR and Raman spectral correlation charts
- \* Contains indices of spectra by alphabetical order, chemical class, and chemical formula to facilitate ease of use
- \* Cross-referenced to allow comparisons of the IR and Raman spectra of the same compound
- \* 19 pages of figures; 46 pages of tables
- \* 92 pages of Raman spectral charts; 481 pages of infrared spectral charts



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## **Editorial Review**

### **Review**

This excellent resource on infrared and Raman spectra of a very large number of inorganic compounds and organic salts, including some nonionic inorganic compounds, is especially important since it has a compendium of Raman spectra that is otherwise not available. The first volume contains a well-written discussion of the experimental and theoretical aspects as well as vibrational assignments....An excellent, first-class publication. It should be useful to upper-division undergraduates; graduate students; and researchers and faculty.

--W.H. Hohman, Marietta College, Ohio, in CHOICE

### **From the Back Cover**

Infrared and Raman Spectral Atlas of Inorganic Compounds and Organic Salts. Vol. 1. Spectral Atlas. Text and Explanations. Vol. 2. Spectral Atlas. Raman Spectra. Vol. 3. Spectral Atlas. Infrared Spectra. Vol. 4. Infrared Spectra of Inorganic Compounds. (3800-45cm<sup>-1</sup>)

### **About the Author**

Richard A. Nyquist has been recognized for his contributions to the field of Spectroscopy and Analytical Chemistry with the following awards: Williams-Wright Award from the Coblentz Society, ANACHEM Award from the Association of Analytical Chemists, V.A. Stenger Award and Water Graf European Award from Dow Chemical Company, and the ASTM Award of Appreciation. He was also named an honorary member of the Coblentz Society, and was a national tour speaker for the Society of Applied Spectroscopy. Nyquist received his B.S. in Chemistry from Augustan College, Rock Island, Illinois, his M.S. from Oklahoma State University, and his Ph.D. from Utrecht University, The Netherlands. He is currently president of Nyquist Associates, and is the author or co-author of over 160 scientific articles including books, book chapters, and patents.

Curtis L. Putzig is a Research Leader in the Spectroscopy Group of the Analytical Sciences Laboratory at The Dow Chemical Company. He joined this organization in 1973, and has been the author or co-author of 27 scientific publications. His research interests include the elucidation of molecular structure, polymer characterization, separation sciences, and the computer analysis of spectroscopic data. Putzig received his B.S. degree in Chemistry from Wayne State University, and his M.S. degree in Analytical Chemistry from Purdue University.

M. Anne Leugers is a Research Leader in the Spectroscopy Group of the Analytical Sciences Laboratory at The Dow Chemical Company. She received her B.S. degree in chemistry from Xavier University, and her Ph.D. in physical chemistry from the University of Cincinnati in 1981. She performed postdoctoral research at Syracuse University and at the University of Arizona before taking a research position in the paper industry studying the material science of paper. She joined the Dow Chemical Company in 1984, where she began working in the area of fiber-optic and Raman spectroscopy. Anne's research interests include application of Raman and fiber-optic spectroscopy to the chemical and morphological characterization of synthetic polymers. Anne is the holder of two U.S. patents, and has filed several other patent disclosures. She has also authored eight publications in the area of high-resolution, laser spectroscopy, and IR spectroscopy reviews.

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