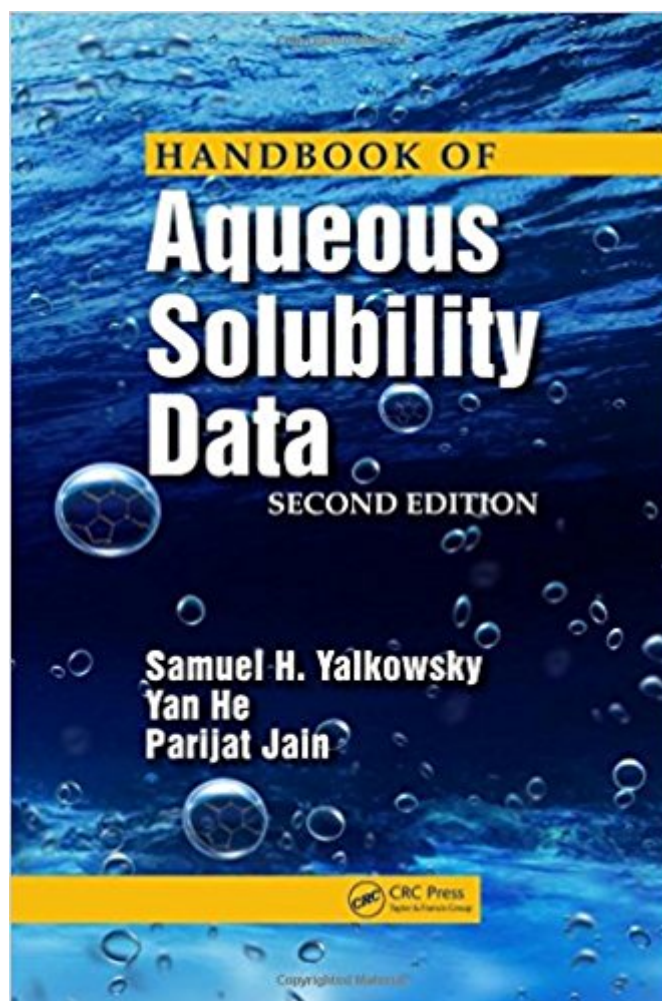




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Handbook Of Aqueous Solubility Data, Second Edition



Synopsis

Over the years, researchers have reported solubility data in the chemical, pharmaceutical, engineering, and environmental literature for several thousand organic compounds. Until the first publication of the Handbook of Aqueous Solubility Data, this information had been scattered throughout numerous sources. Now newly revised, the second edition of this landmark volume continues the tradition of providing an extensive compilation of published aqueous solubility data for a wide variety of organic nonelectrolytes and unionized weak electrolytes. Adds data on 500 more organic compounds. This latest edition adds 2000 new solubility values, bringing the total count to over 18,000 data points. Almost 500 organic compounds have been added, increasing the total number to 4661. This volume includes data for pharmaceuticals, pollutants, nutrients, herbicides, and pesticides as well as agricultural, industrial, and energy-related compounds. The same convenient format Each compound is identified by a sequential number along with molecular formula, compound name, synonyms, molecular weight, Chemical Abstracts Service Registry Number, melting point, and boiling point if available. Each entry has a five-point evaluation score for the quality of the reporting of the data, along with the full citation, and comments from the authors when necessary. The user-friendly format gives a clear depiction of each piece of solubility data with enough information to estimate its validity. The Handbook of Aqueous Solubility Data gives scientists in a broad range of fields a portable, accessible resource for solubility data of numerous compounds and a single system for the evaluation of the data supplied.

Book Information

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Customer Reviews

The alphabetization of chemical names and plenty of entries offer completely extensive information of aqueous solubility data expediently | suitable for the researchers in the fields of chemistry and related areas. -Carbohydrate Polymers an indispensable reference for workers in many scientific fields- Chromatographia The authors have done an excellent job of compiling this information. | This is a valuable handbook for any scientific laboratory that has to dissolve organic compounds into aqueous solutions. This type of information is often difficult to find so it is nice to have so many compounds listed in a single source. •Thomas L. Pazdernik, Ph.D., University of Kansas Medical Center

Dr. Samuel Yalkowsky is professor of Pharmaceutical Sciences at the University of Arizona. He is currently involved in basic research on the relationships between chemical structure and physical phenomena such as solubility, partitioning, and melting. He has also made progress in the development of the state of the art algorithm for the estimation of the melting points, aqueous solubility and other physicochemical properties of organic compounds. Dr. Yan He earned her B.S. in biology from Wuhan University in 1992, her M.S. and Ph.D. degrees in pharmaceutical sciences from the University of Arizona in 1999 and 2005. She is a senior research investigator in the pharmaceutical sciences department at Sanofi-Aventis. Her research interests include performing "druggability" assessment, providing formulation for preclinical studies, and preparing preformulation package for preclinical drug candidates. She also conducted basic research on the relationships between chemical structure and physical properties of organic compounds. Dr. Parijat Jain received his Ph.D. from University of Arizona in 2008. Currently, he is a formulation scientist in the Pharmaceutical Development Unit at Novartis Pharmaceutical Corporation in New Jersey.

This is the best repository there is of measured solubility values of molecules. The electronic edition must be what most users would require, since searching via the traditional index is so slow. Suggestions for future versions: (1) including the SMILES for each compound would be very welcome; (2) including the log of the molarity units would be very helpful; (3) notations of whether the molecule is uncharged in the pH 1-12 region would be handy; (4) a two-volume set would have been helpful, since the 1608 page book is heavy to lug around to Starbucks, etc.; (5) an Excel spreadsheet of the values would be priceless.

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