

Solubility Rules for Common Ionic Compounds in Water

Some Soluble Compounds

Group 1A cations (Li^+ , Na^+ , K^+ , Rb^+ , Cs^+), NH_4^+

NO_3^- , ClO_4^- , CH_3COO^- , ClO_3^-

Cl^- , Br^- , I^-

SO_4^{2-}

Exceptions

No Exceptions

No Exceptions

Halides of Ag^+ , Hg_2^{2+} , Pb^{2+}

Sulfates of Sr^{2+} , Ba^{2+} , Hg_2^{2+} , Pb^{2+}

Some Insoluble Compounds

S^{2-}

Sulfides of Group 1A cations, NH_4^+ , Ca^{2+} , Sr^{2+} , Ba^{2+}

CO_3^{2-}

Carbonates of Group 1A cations and NH_4^+

OH^-

Hydroxides of Group 1A cations, NH_4^+ , Ca^{2+} , Sr^{2+} , Ba^{2+}

PO_4^{3-}

Phosphates of Group 1A cations and NH_4^+

Model 1 Rules Of Solubility In Aqueous Solutions Pogil

Atherton Seidell, William F. Linke



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The Experimental Determination of Solubilities G. T. Hefter, R. P. T. Tomkins, 2003-08-01 In diesem Band werden vielfältige experimentelle Verfahren zur Bestimmung von Löslichkeiten beschrieben Commission on Solubility Data der IUPAC beschloß die Qualität der Löslichkeitsdaten international anzugleichen und zu verbessern indem veröffentlichte Verfahren zur Ermittlung dieser Daten zusammengefaßt veröffentlicht werden alle Datentypen wurden hier berücksichtigt ausführliche Angaben zur Zuverlässigkeit der einzelnen Verfahren und zur Auswahl der jeweils geeigneten Methode **Handbook of Aqueous Solubility Data** Samuel H. Yalkowsky, 2003-03-26 Over the years researchers have reported solubility data in the chemical pharmaceutical engineering and environmental literature for several thousand organic compounds Until now this information has been scattered throughout the literature Containing over 16 000 solubility data points for more than 4 000 organic compounds *Handbook of Aqueous Developments and Applications in Solubility* Trevor M Letcher, 2007-10-31 Solubility is fundamental to most areas of chemistry and is one of the most basic of thermodynamic properties It underlies most industrial processes Bringing together the latest developments and ideas *Developments and Applications in Solubility* covers many varied and disparate topics The book is a collection of work from leading experts in their fields and covers the theory of solubility modelling and simulation industrial applications and new data and recent developments relating to solubility Of particular interest are sections on experimental calculated and predicted solubilities solubility phenomena in green quaternary mixtures involving ionic liquids molecular simulation approaches to solubility solubility impurities in cryogenic liquids and carbon dioxide in chemical processes The book is a definitive and comprehensive reference to what is new in solubility and is ideal for researcher scientists industrialists and academics **A Study of the Solubility of Certain Organic Substances in Aqueous Solutions** John Henry Saylor, 1930 **Handbook of Aqueous Solubility Data** Parijat Jain, 2019-08-30 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

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Solubilities of Inorganic and Organic Substances ,1907 **Solubilities of Inorganic and Organic Substances** ,1907 **Solubility Behavior of Pharmaceuticals in Aqueous Solutions** Mohit Chandra Gupta,1952

Principles of Solution and Solubility Kōzō Shinoda,1978 **Solubility and Solubilization in Aqueous Media** Samuel Hyman Yalkowsky,1999 This book aims to provide the reader with a working knowledge of the various means of controlling the solubility or dissolution rate of a drug or other solute in an aqueous medium The book begins with the factors which govern solubility in general and then looks at aqueous solubility in particular including the properties of liquid mixtures and the thermodynamics of solutions formed from mixing two components The bulk of the book is then devoted to techniques for altering solubility and dissolution rate of organic compounds in aqueous media It discusses in detail the most commonly used solubility enhancers buffers cosolvents surfactants and complexants Each chapter is self contained and emphasizes the details for applying the techniques

Solubilities of inorganic and organic compounds Atherton Seidell,William F. Linke,1952

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