

SOLUBILITY OF GASES AND LIQUIDS

**A Graphic Approach
Data - Causes - Prediction**

W. Gerrard

Solubility Of Gases And Liquids A Graphic Approach Data Causes Prediction

Arturo Cuomo



Solubility Of Gases And Liquids A Graphic Approach Data Causes Prediction:

Solubility of Gases and Liquids W. Gerrard, 2013-11-11 The solubility of gases and liquids in liquids is of great importance in large areas of operations based on chemical concepts Phenomena have appeared to be so varied that even experts have from time to time remarked on the difficulty of seeing a consistent pattern Now for the first time the essential pattern of all known gas solubility data is set out in a graphic form for all to see The continuous merging of the gas liquid systems and the liquid liquid systems is also illustrated The pattern opens the way to rational predictions The new data given for the lower alkanes and alkenes the three methylamines ammonia bromomethane and chloroethane together with my previously reported data on hydrogen sulfide dimethyl ether chloromethane and sulfur dioxide have been obtained by a bubbler manometer procedure which is fully described Not only are these data of significance in many chemical processes but they have also been vital to the development of the overall essential pattern covering all gases The book is for chemists chemical engineers biotechnologists certain physicists and teachers and students in these disciplines It is a book for all those who are concerned with the use and inculcation of the fundamental even rudimentary principles of chemistry

Solubility Behavior of Organic Compounds David J. W. Grant, Takeru Higuchi, 1990-06-26 The role of specific molecular interactions in influencing the solubility behavior of organic compounds are examined particularly the role of hydrogen bonding Shows how specific interactions can be used to elicit preferential solubility Emphasizes interactions occurring in environments of low polarity and explains and predicts solubility phenomena in self associated solvents Also considers the kinetics of diffusion and dissolution *A Guide to Sources of Physical Property Data Held by the Science Reference and Information Service* British Library. Science Reference and Information Service, John M. Sweeney, 1988

Techniques of Chemistry, 1971 *Bulletin of Chemical Thermodynamics*, 1981 *Data compilations in physics* Heinrich Behrens, Gerhard Ebel, 1976 *Mechanistic Studies of Palladium-catalyzed Aerobic Alcohol Oxidation* Bradley A. Steinhoff, 2005 *Indian Journal of Chemistry*, 1997 **American Book Publishing Record**, 1976 *Solubility of Gases and Liquids* William Gerrard, 1976-07 The solubility of gases and liquids in liquids is of great importance in large areas of operations based on chemical concepts Phenomena have appeared to be so varied that even experts have from time to time remarked on the difficulty of seeing a consistent pattern Now for the first time the essential pattern of all known gas solubility data is set out in a graphic form for all to see The continuous merging of the gas liquid systems and the liquid liquid systems is also illustrated The pattern opens the way to rational predictions The new data given for the lower alkanes and alkenes the three methylamines ammonia bromomethane and chloroethane together with my previously reported data on hydrogen sulfide dimethyl ether chloromethane and sulfur dioxide have been obtained by a bubbler manometer procedure which is fully described Not only are these data of significance in many chemical processes but they have also been vital to the development of the overall essential pattern covering all gases The book is for chemists chemical engineers

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