

# CHEMICAL THERMODYNAMICS

BASIC THEORY AND METHODS

FIFTH EDITION



IRVING M. KLOTZ  
ROBERT M. ROSENBERG

# Chemical Thermodynamics Basic Theory 4ed

**National Research Council (U.S.).  
Panel on Theoretical Chemistry**



## **Chemical Thermodynamics Basic Theory 4ed:**

**Chemical Thermodynamics** Irving M. Klotz, 1960      **Chemical Thermodynamics: Basic Theory and Methods** Irving Myron KLOTZ, 1958      *Octanol-Water Partition Coefficients* James M. Sangster, 1997-05-28 The octanol water partition coefficient is a laboratory measured property of a substance. It provides a thermodynamic measure of the tendency of the substance to prefer a non aqueous or oily milieu rather than water i.e. its hydrophilic/lipophilic balance. Partition coefficients are used extensively in medicinal chemistry, drug design, ecotoxicology and environmental chemistry. The partition coefficient is recognized by governmental and international agencies (U.S. Environmental Protection Agency, OECD) as a physical property of organic pollutants equal in importance to vapour pressure, water solubility and toxicity. *Octanol-Water Partition Coefficients* is a comprehensive and up to date survey of the thermodynamics of partitioning and of the octanol-water pair. In addition, all current methods of measurement are reviewed, strengths and weaknesses are noted and recommendations for particular applications are given. Current methods of calculation of partition coefficients are similarly surveyed and described. Five of the most popular computerized methods are tested for predictive accuracy for drugs, pollutants, amino acids etc. The book will be of interest not only to solution chemists but to any chemists who use partition coefficients. It provides a thorough understanding of the fundamentals and offers clear guidance on the choice of methods of measurement and calculation. Contents: Introduction, Thermodynamics and Extrathermodynamics of Partitioning, Experimental Methods of Measurement, Discussion of Measurement Methods, Methods of Calculating Partitioning Coefficients, Discussion of LogKow Predictive Methods. The Wiley Series in Solution Chemistry fills the increasing need to present authoritative, comprehensive and fully up to date accounts of the many aspects of solution chemistry. Internationally recognized experts from research or teaching institutions in various countries are invited to contribute to the series.

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Fundamentals and Applications of Chemical Engineering Dr. Kirubanandan Shanmugam,2025-09-25 It s with great happiness that I would like to acknowledge a great deal of people that get helped me extremely through the entire difficult challenging but a rewarding and interesting path towards some sort of Edited Book without having their help and support none of this work could have been possible *Engineering and Chemical Thermodynamics* Milo D. Koretsky,2012-12-11

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