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## Additional Publication

### Ion Exchange Equilibrium Constants

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Butterworths

# Ion Exchange Equilibrium Constants D G Howery

**J. Stary**



## **Ion Exchange Equilibrium Constants D G Howery:**

Ion Exchange Equilibrium Constants Y. Marcus, D. G. Howery, 2013-10-22 *Ion Exchange Equilibrium Constants* focuses on the best compilation of equilibrium constants for ion exchange reactions. The book first underscores the scope of the compilation, equilibrium constants symbols used, and arrangement of the table. The manuscript then presents the table of equilibrium constants including polystyrene sulfonate cation exchanger, polyacrylate cation exchanger, polymethacrylate cation exchanger, polystyrene phosphate cation exchanger, and zirconium phosphate cation exchanger. The text highlights zirconium oxide anion exchanger, zeolite type 13Y cation exchanger, and zeolite type 4A cation exchanger. The book also presents references for mineral exchangers and polymeric ion exchangers. The book is a valuable reference for readers interested in equilibrium constants.

*Ion Exchangers* Konrad Dorfner, 2011-06-15. No detailed description available for *Ion Exchangers*.

*Critical Evaluation of Equilibrium Constants Involving 8-Hydroxyquinoline and Its Metal Chelates* J. Stary, 2013-10-22. *Critical Evaluation of Equilibrium Constants Involving 8-Hydroxyquinoline and Its Metal Chelates* presents and evaluates the published data on the solubility, dissociation, and liquid-liquid distribution of oxine and its metal chelates to recommend the most reliable numerical data. This book explores the dissociation constants of oxine in aqueous solutions. Organized into four chapters, this book begins with an overview of the characteristics of 8-hydroxyquinoline oxine. This text then examines the total solubility of oxine in aqueous solution at different pH values. Other chapters consider the distribution of oxine between an aqueous phase and an organic solvent, which can be generally described by an equation where the bar indicates the organic phase species. This book discusses as well the overall extraction constant involving metal chelate formation. The final chapter deals with the overall stability constants of metal oxinate. This book is a valuable resource for geochemists, chemists, scientists, and research workers.

**Principles of Ion Exchange Technology** M.J. Slater, 2013-10-22. *The Principles of Ion Exchange Technology* covers the fundamental properties of ion exchange resins and the chemical engineering principles of plant design to aid process and equipment evaluation, choice, and design. This text is composed of 12 chapters and begins with a discussion of the equilibrium concept and the calculation of diffusion coefficients and mass transfer coefficients, as well as the rate constants in ion exchange. The succeeding chapters deal with the kinetics of ion exchange in solution and in resin beads. These topics are followed by reviews of axial mixing, flow abnormalities, design equations, fixed bed performance, calculation, and multi-component ion exchange. The final chapters explore the choices of continuous and countercurrent design techniques and the practical procedures for packed beds. This book is of great value to chemical engineers.

**Interfacial Chemistry of Rocks and Soils** Noemi M. Nagy, Jozsef Konya, 2009-12-23. Knowledge of the basic interactions that take place between geological materials and different substances is the first step in understanding the effects of adsorption and other interfacial processes on the quality of rocks and soils and on driving these processes towards a beneficial or neutral result. *Interfacial Chemistry of Rocks and Soils* examines

*Ionisation Constants of Inorganic*

*Acids and Bases in Aqueous Solution* D. D. Perrin, 2016-09-14 Ionisation Constants of Inorganic Acids and Bases in Aqueous Solution Second Edition provides a compilation of tables that summarize relevant data recorded in the literature up to the end of 1980 for the ionization constants of inorganic acids and bases in aqueous solution This book includes references to acidity functions for strong acids and bases as well as details about the formation of polynuclear species This text then explains the details of each column of the tables wherein column 1 gives the name of the substance and the negative logarithm of the ionization constant and column 2 gives the temperature of measurements in degree Celsius This book presents as well the method of measurement and the literature references that are listed alphabetically at the end of the tables Chemists will find this book useful The Publishers' Trade List Annual ,1985 *Books in Print* ,1991 **Chlorine**

S. Angus, B. Armstrong, K. M. de Reuck, 2015-09-03 Chlorine International Thermodynamic Tables of the Fluid State 8 is a four chapter book that covers available and estimated data on chlorine estimation of the element's properties the correlating equations for the element and how the tabulated properties are calculated from chosen equation The tables in this book give the volume entropy enthalpy isobaric heat capacity compression factor fugacity pressure ratio Joule Thomson coefficient ratio of the heat capacities and speed of sound as a function of pressure and temperature Given in the tables as well are the pressure entropy internal energy and isochoric heat capacity as functions of density and temperature for the gas and liquid states from 0.025 MPa to 25 MPa at temperatures from 180 K to 900 K Interfacial Chemistry of Rocks and Soils Noémi M. Nagy, József Kónya, 2021-10-27 Knowledge of the basic interactions that take place between geological materials and different substances is the first step in understanding the effects of adsorption and other interfacial processes on the quality of rocks and soils and on driving these processes towards a beneficial or neutral result Interfacial Chemistry of Rocks and Soils examines the different processes at solid and liquid interfaces of soil and rock presenting a complete analysis that emphasizes the importance of chemical species on these interactions This Second Edition features novel results in the field and expanded coverage of the kinetics of interfacial processes New content includes models of heterogeneous isotope exchange sorption isotherms for heterovalent cation exchange as well as sorption of anions by chemically modified clays Summarizing the results and knowledge of the authors' research in this field over several decades this volume Explores the individual components of the studied systems the solid the solution and the interface Discusses the characteristics and thermodynamics of the interface Profiles the most important analytical methods in the study of interfacial processes Demonstrates transformations initiated by interfacial processes Outlines avenues of treatment that may solve geological soil science and environmental problems Drawn chiefly from the authors' years of research at the Imre Lajos Isotope Laboratory in the Department of Physical Chemistry at the University of Debrecen in Hungary this book discusses chemical reactions on the surfaces interfaces of soils and rocks examines the role of these processes in environmental colloid and geochemistry and explores the effects on agricultural environmental and industrial applications **Ion Exchange Technology** Michael

Streat,1984      *International Thermodynamic Tables of the Fluid State* S. Angus,B. Armstrong,K. M. De Reuck,2013-10-22  
 International Thermodynamic Tables of the Fluid State 7 Propylene Propene is a compilation of internationally agreed values of the equilibrium thermodynamic properties of propylene This book is composed of three chapters and begins with the presentation of experimental result of thermodynamic studies compared with the equations used to generate the tables The succeeding chapter deals with correlating equations for thermodynamic property determination of propylene The last chapter provides the tabulations of the propylene s thermodynamic properties and constants This book will prove useful to physical chemists      *Information Bulletin* International Union of Pure and Applied Chemistry,1977      *Subject Catalog* Library of Congress,      *Library of Congress Catalogs* Library of Congress,1978      **The British Library General Catalogue of Printed Books 1976 to 1982** British Library,1983      **Library of Congress Name Headings with References** Library of Congress,1980      National Union Catalog ,1973 Includes entries for maps and atlases      **Subject Catalog, 1976** Library of Congress,1976      **Handbooks and Tables in Science and Technology** Russell Powell,1994-08-15 The bibliography covers physics chemistry engineering mathematics astronomy biology geology agriculture medicine environment energy equations manufacturing materials measurement carcinogens and pesticides

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