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EQUILIBRIUM CONSTANTS

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# Ion Exchange Equilibrium Constants D G Howery

**Michael Streat**



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

Ion Exchange Equilibrium Constants Y. Marcus, Darryl G. Howery, International Union of Pure and Applied Chemistry. Commission on Equilibrium Data, 1975 Ion Exchange Equilibrium Constants focuses on the test 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 Ion Exchangers Konrad Dorfner, 2011-06-15 No detailed description available for Ion Exchangers

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**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

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** Noemi M. Nagy, József 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** exam

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

**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

Principles of Ion Exchange Technology M. J. Slater, 1991

**Stability Constants of Metal-ion Complexes**, 1971

*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 **Stability Constants of Metal-ion Complexes** International Union of Pure and Applied Chemistry. Commission on Equilibrium Data,1979 **Guide to Basic Information Sources in Chemistry** Arthur Antony,1979 Primarily intended for the student of chemistry from college freshman through graduate level Pref This is not an exhaustive compilation of chemical information sources but does cover the basics Gives a description often evaluative of each reference work covered Author title and subject indexes Published 1979 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 Research Report ,1971 **Natural Zeolites** David L. Bish,Douglas W. Ming,2018-12-17 Volume 45 of Reviews in Mineralogy and Geochemistry is a new and expanded update of Volume 4 from 1977 Most of the material in this volume is entirely new and Natural Zeolites Occurrence Properties Applications presents a fresh and expanded look at many of the subjects contained in Volume 4 There has been an explosion in our knowledge of the crystal chemistry and structures of natural zeolites Chapters 1 and 2 due in part to the now common Rietveld method that allows treatment of powder diffraction data Studies on the geochemistry of natural zeolites have also greatly increased partly as a result of the interests related to the disposal of radioactive wastes and Chapters 3 4 5 13 and 14 detail the latest results in this important area Until the latter part of the 20th century zeolites were often looked upon as a geological curiosity but they are now known to be widespread throughout the world in sedimentary and igneous deposits and in soils Chapters 6 12 The application of natural zeolites has greatly expanded since the first zeolite volume Chapter 15 details the use of natural zeolites for removal of ammonium ions heavy metals radioactive cations and organic molecules from natural waters wastewaters and soils Similarly Chapter 16 describes the use of natural zeolites as building blocks and cements in the building industry Chapter 17 outlines their use in solar energy storage heating and cooling applications and Chapter 18 describes their use in a variety of agricultural applications including as soil conditioners slow release fertilizers soil less substrates carriers for insecticides and pesticides and remediation agents in contaminated soils Ion Exchange Technology Michael Streat,1984 **Ionisation Constants of Organic Acids in Aqueous Solution** International Union of Pure and Applied Chemistry. Commission on Equilibrium Data,1979 **CODATA Bulletin** CODATA.,1982 **Computer Handling and Dissemination of Data** National Research Council Canada,Royal Society of Canada,1987

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