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Ionisation Constants of Inorganic Acids and Bases in Aqueous Solution

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

Hydrates in Aqueous Solution

1907

the best available collection of thermodynamic data the first of its kind in over thirty years this up to date book presents the current knowledge on standard potentials in aqueous solution written by leading international experts and initiated by the iupac commissions on electrochemistry and electroanalytical chemistry this remarkable work begins with a thorough review of basic concepts and methods for determining standard electrode potentials building upon this solid foundation this convenient source proceeds to discuss the various redox couples for every known element the chapters of this practical time saving guide are organized in order of the groups of elements on the periodic table for easy reference to vital material and each chapter also contains the fundamental chemistry of elements numerous equations of chemical reactions easy to read tables of thermodynamic data and useful oxidation state diagrams standard potentials in aqueous solution is an ideal handy reference for analytical and physical chemists electrochemists electroanalytical chemists chemical engineers biochemists inorganic and organic chemists and spectroscopists needing information on reactions and thermodynamic data in inorganic chemistry and it is a valuable supplementary text for undergraduate and graduate level chemistry students

Standard Potentials in Aqueous Solution

2017-11-22

contents aqueous solution chemistry acids and bases solute solvent interactions chemistry in protonic solvents liquid ammonia liquid hydrogen fluoride sulphuric acid liquid hydrogen cyanide acetic acid and liquid hydrogen sulphide non protonic solvents liquid dinitrogen tetroxide liquid sulphur dioxide and liquid halides

Hydrates in Aqueous Solution

1907

excerpt from hydrates in aqueous solution evidence for the existence of hydrates in solution their approximate composition and certain spectroscopic investigations bearing upon the hydrate problem this investigation is the outcome of an observation made in this laboratory in connection with an entirely different line of work a japanese ota was working on the condition of certain double salts in the presence of water to ascertain whether they existed as such to any appreciable extent or were broken down by the solvent into the constituent molecules as soon as he began to work with concentrated solutions he found that these solutions froze abnormally low the molecular lowering passing through a well defined minimum with change in concentration similar results were obtained a little later by dr knight also working in this laboratory there was nothing in the theory of solutions then in vogue to account for such results the molecular lowering should decrease continually from the most dilute to the most concentrated solution this was obviously a remarkable phenomenon especially if it should be shown to manifest itself in the case of any large number of substances about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

Chemistry in Aqueous and Non-aqueous Solvents

2001

many industrial formulations such as detergents paints foodstuff and cosmetics contain both surfactants and polymers and their interaction govern many of the properties this book is unique in that it discusses the solution chemistry of both surfactants and polymers and also the interactions between the two the book which is based on successful courses given by the authors since 1992 is a revised and extended version of the first edition that became a market success with six reprints since 1998

surfactants and polymers in aqueous solution is broad in scope providing both theoretical insights and practical help for those active in the area this book contains a thorough discussion of surfactant types and gives information of main routes of preparation a chapter on novel surfactants has been included in the new edition physicochemical phenomena such as self assembly in solution adsorption gel formation and foaming are discussed in detail particular attention is paid to the solution behaviour of surfactants and polymers containing polyoxyethylene chains surface active polymers are presented and their interaction with surfactants is a core topic of the book protein surfactant interaction is also important and a new chapter deals with this issue microemulsions are treated in depth and several important applications such as detergency and their use as media for chemical reactions are presented emulsions and the choice of emulsifier is discussed in some detail the new edition also contains chapters on rheology and wetting surfactants and polymers in aqueous solution is aimed at those dealing with surface chemistry research at universities and with surfactant formulation in industry

Qualitative Analysis & the Properties of Ions in Aqueous Solution

1997

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Oxidation of Sulfite Ion by Oxygen in Aqueous Solution--a Bibliography

1982

selected constants oxidation reduction potentials of inorganic substances in aqueous solution presents tables that will aid chemists in finding the best or most probable value of the normal or formal oxidation reduction potential of oxidation reduction systems the book first presents numerical calculations that show the degree of oxidation and real oxidation reduction

systems including the value of the potential temperature nature and composition of the medium and the method of determination used the text then takes a look at the choice of data as well as intensity potential curves an

Hydrates in Aqueous Solution

2017-10-15

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The Oxidation States of the Elements and Their Potentials in Aqueous Solutions

1959

properties of aqueous solutions of electrolytes is a handbook that systematizes the information on physico chemical parameters of multicomponent aqueous electrolyte solutions this important data collection will be invaluable for developing new methods for more efficient chemical technologies choosing optimal solutions for more effective methods of using raw materials and energy resources and other such activities this edition the first available in english has been substantially revised and augmented many new tables have been added because of a significantly larger list of electrolytes and their properties electrical conductivity boiling and freezing points pressure of saturated vapors activity and diffusion coefficients the book is divided into two sections the first section provides tables that list the properties of binary aqueous solutions of electrolytes while the second section deals with the methods for calculating their properties in multicomponent systems all values are given in psi units or fractional and multiple units metrological characteristics of the experimental methods used for the determination of physico chemical parameters are indicated as a relative error and those of the computational methods as a relative error or a root mean square deviation

Absorption Spectra of Plutonium in Aqueous Solution

1947

this volume is a comprehensive treatment of the aqueous solution chemistry of all the elements and a pH diagram for each element sets the context for the chemistry of that element

Complex Ions in Aqueous Solutions

1914

a unique book which discusses the solution chemistry of surfactants and polymers presenting both the theory of surfactant and polymer interactions and also giving practical help for workers in this area surfactants are used together with polymers in a wide range of applications such as detergents paints paper coatings food pharmacy and cosmetics together the surfactant and polymer provide the stability rheology etc needed for specific application hence the need for knowledge about physicochemical properties of both surfactants and polymers and polymer surfactant interactions to enhance formulation work this book based on successful courses run by the authors brings the two topics together to enable readers to gain a good understanding of the solution behaviour of surfactant polymer combinations it includes a thorough description of surfactant types including their main synthetic routes and discusses physicochemical phenomena such as self assembly adsorption gel formation and foaming particular attention is paid to the solution behaviour of surfactants and polymers containing polyoxyethylene chains surface active polymers are then presented and their interaction with surfactants is a core topic of the book the choice of surfactant for emulsions and microemulsions is treated in depth and important applications of microemulsions such as detergency and enhanced oil recovered are presented this book will be invaluable for scientists and engineers involved in surfactant production and formulation as well as students

Adsorption from Aqueous Solution

1968

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Dissociation Constants of Organic Bases in Aqueous Solution

1969

this book has been considered by academicians and scholars of great significance and value to literature this forms a part of the knowledge base for future generations so that the book is never forgotten we have represented this book in a print format as the same form as it was originally first published hence any marks or annotations seen are left intentionally to preserve its true nature

Surfactants and Polymers in Aqueous Solution

2018-08-20

excerpt from a study of the conductivity and dissociation of organic acids in aqueous solution between zero and thirty five degrees dissertation white and jones in their work on the conductivity and dissociation of organic acids in aqueous solution give a survey of the data obtained up to that time and a large amount of the earlier work is discussed in full it is not necessary to repeat all of this discussion but a short summary of the results as a whole will be given as an introduction to this work about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

Hydrates in Aqueous Solution

2019-03-08

stability constants are fundamental to understanding the behavior of metal ions in aqueous solution such understanding is important in a wide variety of areas such as metal ions in biology biomedical applications metal ions in the environment extraction metallurgy food chemistry and metal ions in many industrial processes in spite of this importance it appears that many inorganic chemists have lost an appreciation for the importance of stability constants and the thermodynamic aspects of complex formation with attention focused over the last thirty years on newer areas such as organometallic chemistry this book is an attempt to show the richness of chemistry that can be revealed by stability constants when measured as part of an overall strategy aimed at understanding the complexing properties of a particular ligand or metal ion thus for example there are numerous crystal structures of the li ion with crown ethers what do these indicate to us about the chemistry of li with crown ethers in fact most of these crystal structures are in a sense misleading in that the li ion forms no complexes or at best very weak complexes with familiar crown ethers such as 12 crown 4 in any known solvent thus without the stability constants our understanding of the chemistry of a metal ion with any particular ligand must be regarded as incomplete in this book we attempt to show how stability constants can reveal factors in ligand design which could not readily be deduced from any other physical technique

Qualitative Analysis and the Properties of Ions in Aqueous Solution

1971-01-01

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Dissociation Constants of Inorganic Acids and Bases in Aqueous Solution

1969

the aqueous chemistry of oxides is a single volume text that encapsulates all of the critical issues associated with how oxide materials interact with aqueous solutions it serves as a central reference for academics working with oxides in the contexts of geology various types of inorganic chemistry and materials science the text also has utility for professionals working with industrial applications in which oxides are either prepared or must perform in aqueous environments the volume is organized into five key sections part one features two introductory chapters intended to introduce the mutual interests of engineers chemists geologists and industrial scientists in the physical and chemical properties of oxide materials part two provides the essential and fundamental principles that are critical to understanding most of the major reactions between water and oxides part three deals with the synthesis of oxide materials in aqueous media part four deals with oxide water reactions and their environmental and technological impacts and part five is devoted to other types of relevant reactions the aqueous chemistry of oxides is the first book that provides a comprehensive summary of all of the critical reactions between oxides and water in a single volume as such it ties together a wide range of existing books and literature into a central location that provides a key reference for understanding and accessing a broad range of more specialized topics the book contain over 300 figures and tables

Selected Constants: Oxidation-reduction Potentials of Inorganic Substances in Aqueous Solution

1971

inorganic chemistry in aqueous solution reviews the chemistry of the elements in all their oxidation states in an aqueous environment the nature of ions in solution is described in some detail and enthalpies and entropies of hydration of many ions are defined and recalculated from the best data available these values are used to provide an understanding of the periodicities of standard reduction potentials standard reduction potential data for all of the elements group by group covering the s and p d and f blocks of the periodic table is also included major sections are devoted to the acid base behaviour and the solubilities of inorganic compounds in water inorganic chemistry in aqueous solution is aimed at undergraduate chemistry students but will also be welcomed by geologists interested in this field ideal for the needs of undergraduate chemistry students tutorial chemistry texts is a major series consisting of short single topic or modular texts concentrating on the fundamental areas of chemistry taught in undergraduate science courses each book provides a concise

account of the basic principles underlying a given subject embodying an independent learning philosophy and including worked examples

Hydrates in Aqueous Solution

2016-05-20

the chapters making up this volume had originally been planned to form part of a single volume covering solid hydrates and aqueous solutions of simple molecules and ions however during the preparation of the manuscript it became apparent that such a volume would turn out to be very unwieldy and i reluctantly decided to recommend the publication of separate volumes the most sensible way of dividing the subject matter seemed to lie in the separation of simple ionic solutions the emphasis in the present volume is placed on ion solvent effects since a number of excellent texts cover the more general aspects of electrolyte solutions based on the classical theories of Debye Huckel on Sager and Fuoss it is interesting to speculate as to when a theory becomes classical perhaps this occurs when it has become well known well liked and much adapted the above mentioned theories of ionic equilibria and transport certainly fulfill these criteria there comes a time when the refinements and modifications can no longer be related to physical significance and can no longer hide the fact that certain fundamental assumptions made in the development of the theory are untenable especially in the light of information obtained from the application of sophisticated molecular and thermodynamic techniques

Properties of Aqueous Solutions of Electrolytes

1992-08-24

Constantes de Dissociation Des Acides Et Des Bases Inorganiques en Solution Aqueuse

1969

The Aqueous Chemistry of the Elements

2010-01-14

Surfactants and Polymers in Aqueous Solution

2000-01-24

HYDRATES IN AQUEOUS SOLUTION E

2016-08-26

Dissociation Constants of Organic Bases in Aqueous Solution

1976-01-01

Hydrates in Aqueous Solution. Evidence for the Existence of Hydrates in Solution, Their Approximate Composition, and Certain Spectroscopic Investigations Bearing Upon the Hydrate Problem

2020-09-24

A Study of the Conductivity and Dissociation of Organic Acids in Aqueous Solution

Between Zero and Thirty-Five Degrees

2017-10-31

Metal Complexes in Aqueous Solutions

2013-05-31

Hydrates in Aqueous Solution

1907

**A Study of the Conductivity and Dissociation of Organic Acids in Aqueous Solution
Between Zero and Thirty-Five Degrees**

2016-05-20

Kinetics of the Decomposition of Trivalent Uranium Ion in Aqueous Solution

1947

The Equilibrium Between Arsenious Acid and Iodine in Aqueous Solution

1913

Primary Salt-Effect in Aqueous Solutions

1971-09-01

The Aqueous Chemistry of Oxides

2016-02-02

The Oxidation States of the Elements and Their Potentials in Aqueous Solutions

1961

Selected Constants

1971

Inorganic Chemistry in Aqueous Solution

2003

Aqueous Solutions of Simple Electrolytes

2012-12-06

The Reactions of Glass Surfaces with Ions in Aqueous Solution

1949

Zirconium Ions in Aqueous Solution

1951

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