

Read Online Properties
Aqueous Solutions

Properties Aqueous Solutions

This Volume, the last of the series, is devoted to water in its metastable forms, especially at sub-zero

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temperatures. The past few years have witnessed an increasing interest in supercooled water and amorphous ice. If the properties of liquid water in the normal temperature range are already eccentric,

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then they become exceedingly so below the normal freezing point, in the metastable temperature range. Water can be supercooled to -39°C without too much effort, and most of its physical properties show a re

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markable temperature dependence under these conditions. Although adequate explanations are still lacking, the time has come to review available knowledge. The study of amorphous ice, that is, the

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solid formed when water vapor is condensed on a very cold surface, is of longer standing. It has achieved renewed interest because it may serve as a model for the liquid state. There is currently a debate whether

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or not a close structural relationship exists between amorphous ice and supercooled water. The nucleation and growth of ice in supercooled water and aqueous solutions is also still one of those grey

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areas of research, although these topics have received considerable attention from chemists and physicists over the past two decades. Even now, the relationships between degree of supercooling, nucleation

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kinetics, crystal growth kinetics, cooling rate and solute concentration are somewhat obscure.

Nevertheless, at the empirical level much progress has been made, because these topics are of

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considerable importance to biologists, technologists, atmospheric physicists and glaciologists.

Some Physical Properties of Aqueous Solutions of Sodium Chloride in the Alkali Earths

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Properties Model for Aqueous
Sodium Chloride Solutions
Near the Critical Point of
Water
Qualitative Analysis and the
Properties of Ions in
Aqueous Solution
Physical Properties,

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Estimation and Correlation
Methods

Thermodynamic Properties of
Aqueous Solutions Organic
Substances

***This book forms the
proceedings of the 11th***

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***International Conference
of the Properties of
Steam, conducted in 1989
in Czechoslovakia. The
session provided an
international forum for
the dissemination of***

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information on recent progress in experiment, theory and formulation of the properties of steam and aqueous systems in the power industry during the past five years. The

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***papers reflect present
knowledge of the
thermophysical
properties of pure
ordinary and heavy water
to the properties of
aqueous solutions, to the***

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***power cycle chemistry, to
corrosion in power plants.
Some Physico-chemical
Properties of Aqueous
Solutions of Sodium
Diethylbarbiturate
Dielectric Properties of***

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***Polyelectrolytes
Dielectric Properties of
Aqueous Solutions at
Microwave Frequencies
Thermodynamic
Properties of High
Temperature Aqueous***

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Solutions Some Thermodynamic Properties of Aqueous Solutions of Terbium

This inexpensive qualitative analysis supplement offers maximum flexibility and can accompany general chemistry

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texts. Works well with any general chemistry text, where the instructor wants more qualitative analysis in conjunction with regular class work. Tables of Properties of Aqueous Solutions Related to Index of Refraction

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Some Properties of Proteins in Non-
aqueous Solutions

Proceedings of the 11th International
Conference

Thermodynamic Properties

Chemistry in Quantitative Language

This book provides a thorough

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discussion of the thermodynamics of aqueous solutions and presents tools for analyzing and solving scientific and practical problems arising in this area. It also presents methods that can be used to deal with ionic and nonionic aqueous

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solutions under sub- or supercritical conditions. Illustrations and tables give examples of procedures employed to predict thermodynamic quantities of the solutions, and an appendix summarizing statistical

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mechanical equations used to describe the systems is also provided. High-Temperature Aqueous Solutions: Thermodynamic Properties contains essential information for physical chemists, geochemists,

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*geophysicists, chemical
technicians, and scientists involved
in electric power generation.*

*Some Physico-chemical Properties
of Aqueous Solutions of Sodium
2,4-dichlorophenoxyacetate
Molecular Theory of Water and*

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*Aqueous Solutions: Understanding
water*

*Aqueous Solutions of Linear
Polyelectrolytes*

*The Investigation of Some Physico-
chemical Properties of Aqueous
Solutions of Certain Carboxylic*

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Acids and Their Salts :
The Structure and Properties of
Water and Aqueous Solutions
Properties of Aqueous
Solutions of
Electrolytes is a
handbook that

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systematizes the information on physico-chemical parameters of multicomponent aqueous electrolyte solutions. This important data collection will be

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invaluable for
developing new methods
for more efficient
chemical technologies,
choosing optimal
solutions for more
effective methods of

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using raw materials and energy resources, and other such activities. This edition, the first available in English, has been substantially revised and augmented.

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Many new tables have been added because of a significantly larger list of electrolytes and their properties (electrical conductivity, boiling

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and freezing points, pressure of saturated vapors, activity and diffusion coefficients). The book is divided into two sections. The first section provides tables

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that list the properties of binary aqueous solutions of electrolytes, while the second section deals with the methods for calculating their

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properties in
multicomponent systems.
All values are given in
PSI units or fractional
and multiple units.
Metrological
characteristics of the

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experimental methods used for the determination of physico-chemical parameters are indicated as a relative error and those of the computational methods as

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a relative error or a
root-mean square
deviation.

Physical Properties of
Aqueous Solutions Under
High Pressures and
Temperatures

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Thermodynamic Properties
of Aqueous Solutions,
Etc

Properties Of Water And
Steam: Proceedings Of
The 11th International
conference

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Investigation of the
Surface Properties of
Aqueous Solutions
Thermodynamic Properties
of Non-aqueous Solutions
Traditional excess Gibbs energy
models in terms of temperature,

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pressure, and concentration become progressively less effective in describing the thermodynamics of aqueous solutions at temperatures above 300 °C, and are totally inadequate in the critical region of water. This deficiency is due to the

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strong ion association and the large property fluctuations (such as density) with small variations in pressure, temperature, and solute concentration around the critical point of water.

Physicochemical Properties of
Aqueous Solutions of Poly(maleic

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Acid)

The Properties of Beryllium Acetate in
Aqueous Solutions

Electrocapillary Properties of Aqueous
Solutions of Polyelectrolytes

High-Temperature Aqueous Solutions

Surface Properties of Aqueous

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Solutions of Cetylpyridium Chloride
***Thermodynamic Properties
of Aqueous Solutions of
Organic Substances
discusses the structure
of aqueous solutions of
organic substances and***

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*the intermolecular
reactions in them,
presenting experimental
data, modern concepts
concerning the
properties of these
solutions, and the*

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results of computer simulation. The book offers an in-depth study of the properties of maximally dilute aqueous solutions of polar and nonpolar organic

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molecules as well as the specific enthalpies of mixing. The Addendum contains experimental data on the thermodynamic properties of infinitely dilute

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solutions.

***Water and Aqueous
Solutions at Subzero
Temperatures***

***Handbook of Aqueous
Electrolyte Solutions
Properties of Aqueous***

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***Solutions of
Electrolytes
Properties of Water and
Aqueous Solutions at
High Pressures and
Temperatures
Properties of Dilute***

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Aqueous Solutions of Organic Solutes

Chemistry in Quantitative Language, second edition is an invaluable guide to solving chemical equations and calculations. It provides readers

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with intuitive and systematic strategies to carry out the many kinds of calculations they will meet in general chemistry.

Equilibrium Properties of Aqueous
Solutions of Single Strong
Electrolytes

Fundamentals of General Chemistry

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Calculations

Xenon NMR Investigations of Some
Properties of Myoglobin in Aqueous
Solutions

Effect of Concentration Upon the
Properties of Aqueous Solutions

The Electrocapillary Properties of
Aqueous Solutions of

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Polyelectrolytes

The aim of this book is to explain the unusual properties of both pure liquid water and simple aqueous solutions, in terms of the properties of single molecules and

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interactions among small numbers of water molecules. It is mostly the result of the author's own research spanning over 40 years in the field of aqueous solutions. An understanding of the

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properties of liquid water is a prelude to the understanding of the role of water in biological systems and for the evolvment of life. The book is targeted at anyone who is interested in the outstanding

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properties of water and its role in biological systems. It is addressed to both students and researchers in chemistry, physics and biology.

***Structure and Properties of
Water and Aqueous Solution***

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Aqueous Solutions

***[with Bibliographies]
Rheological Properties of
Aqueous Solutions of Milling
Yellow Dye
Thermodynamic and Hydration
Properties of Aqueous
Solutions of 2:1 Electrolytes***