

CHEMISTRY Ch. 13 Notes: Water and Its Solutions

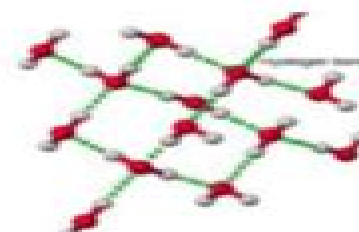
NOTE: Vocabulary terms are in **boldface and underlined**. Supporting details are in *italics*.

13.1 Notes

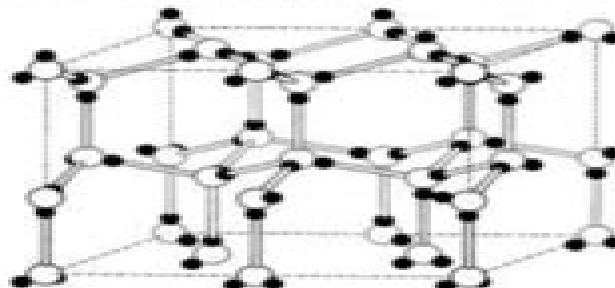
I. Water Molecule Characteristics



POLAR molecule (a dipole)



HYDROGEN BONDING in water



ICE CRYSTAL

- A) colorless and odorless
- B) neutral pH of 7
- C) *triatomic* (three atoms)
- D) *angular shape* with two unshared electron pairs
- E) *polar* (δ^+ and δ^- areas)
- F) **hydrogen bonds**—*an attraction between hydrogen and an unshared pair of an electronegative element on a neighboring molecule*
- G) **surface tension**—*attraction between molecules on the surface of a liquid*
 - 1) surface tension makes water bead
 - 2) **surfactants**—*“wetting agents” which decrease surface tension by breaking hydrogen bonds (soaps)*
- H) **capillarity (capillary action)**—*moving upward, against gravity (up through roots, etc.)*
- I) hexagonal crystals
- J) *high specific heat: 4.184 J/g°C*
- K) *high boiling point: 100 °C*

II. Heat Capacity of Water

- A) **heat capacity**—*amount of heat required to change a substance’s temperature by exactly 1 °C*

Water And Aqueous Systems Chemistry Answer Key

Harry Levine



Water And Aqueous Systems Chemistry Answer Key:

Aqueous Systems at Elevated Temperatures and Pressures Roberto Fernandez-Prini,A.H. Harvey,D.A. Palmer,2004-07-06 The International Association for the Properties of Water and Steam IAPWS has produced this book in order to provide an accessible up to date overview of important aspects of the physical chemistry of aqueous systems at high temperatures and pressures These systems are central to many areas of scientific study and industrial application including electric power generation industrial steam systems hydrothermal processing of materials geochemistry and environmental applications The authors goal is to present the material at a level that serves both the graduate student seeking to learn the state of the art and also the industrial engineer or chemist seeking to develop additional expertise or to find the data needed to solve a specific problem The wide range of people for whom this topic is important provides a challenge Advanced work in this area is distributed among physical chemists chemical engineers geochemists and other specialists who may not be aware of parallel work by those outside their own specialty The particular aspects of high temperature aqueous physical chemistry of interest to one industry may be irrelevant to another yet another industry might need the same basic information but in a very different form To serve all these constituencies the book includes several chapters that cover the foundational thermophysical properties such as gas solubility phase behavior thermodynamic properties of solutes and transport properties that are of interest across numerous applications The presentation of these topics is intended to be accessible to readers from a variety of backgrounds Other chapters address fundamental areas of more specialized interest such as critical phenomena and molecular level solution structure Several chapters are more application oriented addressing areas such as power cycle chemistry and hydrothermal synthesis As befits the variety of interests addressed some chapters provide more theoretical guidance while others such as those on acid base equilibria and the solubilities of metal oxides and hydroxides emphasize experimental techniques and data analysis Covers both the theory and applications of all Hydrothermal solutions Provides an accessible up to date overview of important aspects of the physical chemistry of aqueous systems at high temperatures and pressures The presentation of the book is understandable to readers from a variety of backgrounds

The Physical Chemistry of Aqueous Systems Robert Kay,2012-12-06 Conformation and Hydration of Sugars and Related Compounds in Dilute Aqueous Solution Studies of Hydrophobic Bonding in Aqueous Alcohols Enthalpy Measurements and Model Calculations Structure in Aqueous Solutions of Nonpolar Solutes from the Standpoint of Scaled Particle Theory Raman Spectra from Partially Deuterated Water and Ice VI to 10 1 kbar at 28 C Solvation Equilibria in Very Concentrated Electrolyte Solutions Ionic Association in Hydrogen Bonding Solvents The Role of Solvent Structure in Ligand Substitution and Solvent Exchange at Some Divalent Transition Metal Cations N **Nanochemistry** Geoffrey A Ozin,André Arsenault,2023-01-17 International interest in nanoscience research has flourished in recent years as it becomes an integral part in the development of future technologies The diverse interdisciplinary nature of nanoscience means effective

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