

**15.2****HOMOGENEOUS AQUEOUS SYSTEMS****Section Review****Objectives**

- Distinguish between a solvent and a solute
- Describe what happens in the solution process
- Explain why all ionic compounds are electrolytes
- Demonstrate how to write the formula for a hydrate

**Vocabulary**

- |                    |                  |                      |
|--------------------|------------------|----------------------|
| • aqueous solution | • solvation      | • strong electrolyte |
| • solvent          | • electrolyte    | • weak electrolyte   |
| • solute           | • nonelectrolyte | • hydrate            |

**Key Equation**

- Percent  $\text{H}_2\text{O} = \frac{\text{mass of water}}{\text{mass of hydrate}} \times 100\%$

**Part A Completion**

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

Water is a polar liquid and an excellent 1 for many substances. Aqueous solutions are 2 mixtures of ions or molecules in water. The solubility of a solute depends on solute-solvent interactions. A good rule to remember is 3.

Substances that dissolve as ions are known as 4. A solute that is completely ionized in solution is a 5 electrolyte. A weak electrolyte is only 6 ionized. A solution of an electrolyte will 7 an electric current, whereas a solution of a 8 is nonconducting.

Many crystals are 9; they contain water of hydration. In the process called 10, the water of hydration is lost from a hydrate that is exposed to air.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
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9. \_\_\_\_\_
10. \_\_\_\_\_

# Homogeneous Aqueous Systems Section Review Answers

**Richard W. Horobin**



## Homogeneous Aqueous Systems Section Review Answers:

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Water and Aqueous Solutions at Subzero Temperatures Felix Franks, 2013-11-11 This Volume the last of the series is devoted to water in its metastable forms especially at sub zero 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 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 remarkable 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 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 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 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 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 considerable importance to biologists technologists atmospheric physicists and glaciologists **MCAT**

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**Histochemistry** Richard W. Horobin, 2014-05-16 Histochemistry An Explanatory Outline of Histochemistry and Biophysical Staining describes the histochemical staining of cells and tissues as a major tool applied in biological and medical investigations both in basic research and in practical applications such as clinical diagnosis The book may be considered as a guide to understanding the scientific basis of staining procedures and alternate actions to take when common methods do not proceed as expected The first chapter gives general theoretical ideas from which most part of the book is largely organized around As the book considers the arts and crafts making up the practice of histochemistry and biological staining emphasis is given to the common physicochemical aspects of the technically diverse methodologies involved Hence the author has drawn ideas and information from physicochemically and biochemically related fields such as chromatography pharmacology photography tanning and textile dyeing The bulk of the book is structured around groups of practical procedures such as fixation staining with dyestuffs metal impregnation and selective extraction as a test of significance Lastly general essays on the usefulness of staining theories and on the problems arising from reagent impurities are given as examples The text is suitable for students and researchers in the fields of physiology biochemistry and pharmacology Clinical laboratory scientists and those involved in the life sciences and biotechnology will benefit from reading the book

Essentials of Chemistry Dennis D. Staley, Antony C. Wilbraham, 1984

**Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.), 1987

*Emerging Nanomaterials* Hamid R. Taghiyari, Jeffrey J. Morrell, Azamal Husen, 2022-12-05 Bio based materials including those containing wood will become increasingly important as we move to a bio based economy Among their many attributes it is vitally important that these materials are renewable sustainable with proper management and environmentally benign Wood remains one of our most important bio based materials While it is an amazing material wood still has negative attributes and drawbacks that can affect performance including dimensional instability when wetted vulnerability to fire and high temperatures and susceptibility to biodeterioration A variety of

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