

Name _____ Date _____ Class _____

CHAPTER 15 **STUDY GUIDE FOR CONTENT MASTERY**

Solutions

Section 15.1 What are solutions?

In your textbook, read about the characteristics of solutions.

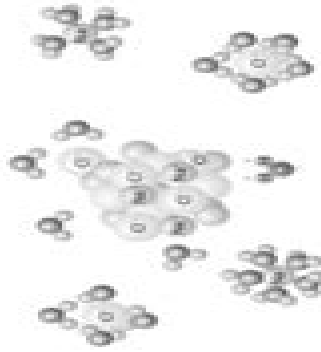
Use each of the terms below just once to complete the passage.

immiscible	liquid	soluble	solution
insoluble	miscible	solvent	solvent

Air is air! (1) solution of oxygen gas dissolved in nitrogen gas. The oxygen is air is the (2) solvent and nitrogen is the (3) solvent. Because oxygen gas dissolves in a solvent, oxygen gas is air! (4) soluble substances. A substance that does not dissolve is (5) insoluble. (6) liquid solutions are the most common type of solutions. If one liquid is soluble in another liquid, such as acetic acid in water, the two liquids are (7) miscible. However, if one liquid is insoluble in another, the liquids are (8) immiscible.

Read about solvation in aqueous solutions in your textbook.

The diagram shows the hydration of solid sodium chloride to form an aqueous solution. Use the diagram to answer the following questions.



8. Hydration is solvation in which the solvent is water. What is solvation?

Solvation is the process of surrounding solute particles with solvent particles to form a solution.

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85

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CHAPTER 15 **STUDY GUIDE FOR CONTENT MASTERY**

Section 15.1 continued

10. As sodium chloride dissolves in water, what happens to the sodium and chloride ions?

The sodium and chloride ions are separated and surrounded by the water molecules.

11. Explain the attraction of the water molecules around the sodium ions and chloride ions.

Because the sodium ion is positively charged, it attracts the negatively charged portion of the water molecule (the oxygen atom) and repels the positively charged portion of the water molecule (the hydrogen atoms). Because the chloride ion is negatively charged, it attracts the positively charged portion of the water molecule and repels the negatively charged portion.

12. How does the strength of the attraction between water molecules and sodium and chloride ions compare with the strength of the attraction between the sodium ions and chloride ions? How do you know?

The attraction between the water molecules and the sodium and chloride ions is greater than the attraction between the sodium and chloride ions. The greater strength of attraction between the water molecules and the ions is what causes the solvation process to occur.

13. List three ways that the rate of solvation may be increased.

stirring or shaking the solution, breaking the solute into smaller pieces, and heating the solvent

In your textbook, read about heat of solution, solubility, and factors that affect solubility.

For each statement below, write true or false.

true 14. The overall energy change that occurs when a solution forms is called the heat of solution.

false 15. Solubility is a measure of the maximum amount of solute that dissolves in a given amount of solvent at a specified temperature and pressure.

false 16. Solvation continues as long as the solvation rate is less than the crystallization rate.

true 17. In a saturated solution, solvation and crystallization are in equilibrium.

true 18. Additional solute can be dissolved in an unsaturated solution.

true 19. The solubility of a gas dissolved in a liquid decreases as the temperature of the solution increases.

86 Chemistry: Matter and Change • Chapter 15

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Table of Contents Key Study Guide For Content Mastery

1. Understanding the eBook Key Study Guide For Content Mastery
 - The Rise of Digital Reading Key Study Guide For Content Mastery
 - Advantages of eBooks Over Traditional Books
2. Identifying Key Study Guide For Content Mastery
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Key Study Guide For Content Mastery
 - User-Friendly Interface
4. Exploring eBook Recommendations from Key Study Guide For Content Mastery
 - Personalized Recommendations
 - Key Study Guide For Content Mastery User Reviews and Ratings
 - Key Study Guide For Content Mastery and Bestseller Lists
5. Accessing Key Study Guide For Content Mastery Free and Paid eBooks
 - Key Study Guide For Content Mastery Public Domain eBooks
 - Key Study Guide For Content Mastery eBook Subscription Services
 - Key Study Guide For Content Mastery Budget-Friendly Options

6. Navigating Key Study Guide For Content Mastery eBook Formats
 - ePub, PDF, MOBI, and More
 - Key Study Guide For Content Mastery Compatibility with Devices
 - Key Study Guide For Content Mastery Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Key Study Guide For Content Mastery
 - Highlighting and Note-Taking Key Study Guide For Content Mastery
 - Interactive Elements Key Study Guide For Content Mastery
8. Staying Engaged with Key Study Guide For Content Mastery
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Key Study Guide For Content Mastery
9. Balancing eBooks and Physical Books Key Study Guide For Content Mastery
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Key Study Guide For Content Mastery
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Key Study Guide For Content Mastery
 - Setting Reading Goals Key Study Guide For Content Mastery
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Key Study Guide For Content Mastery
 - Fact-Checking eBook Content of Key Study Guide For Content Mastery
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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