

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.

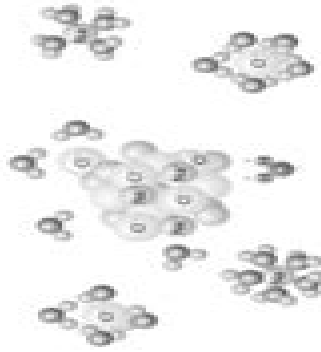
Use each of the terms below just once to complete the passage.

immiscible	liquid	solution	solute	solution
insoluble	miscible	solute	solute	solvent

Air is air! (1) solution of oxygen gas dissolved in nitrogen gas. The oxygen is air is the (2) solute and nitrogen is the (3) solvent. Because oxygen gas dissolves in a solvent, oxygen gas is air is (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?

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

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Chemistry: Matter and Change • Chapter 15

85

Name _____ Date _____ Class _____

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 orientation 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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Chemistry Study Guide For Content Mastery Key

Steven S. Zumdahl, Paul B. Kelter



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Table of Contents Chemistry Study Guide For Content Mastery Key

1. Understanding the eBook Chemistry Study Guide For Content Mastery Key
 - The Rise of Digital Reading Chemistry Study Guide For Content Mastery Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Study Guide For Content Mastery Key
 - 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 Chemistry Study Guide For Content Mastery Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Study Guide For Content Mastery Key
 - Personalized Recommendations
 - Chemistry Study Guide For Content Mastery Key User Reviews and Ratings
 - Chemistry Study Guide For Content Mastery Key and Bestseller Lists
5. Accessing Chemistry Study Guide For Content Mastery Key Free and Paid eBooks

- Chemistry Study Guide For Content Mastery Key Public Domain eBooks
 - Chemistry Study Guide For Content Mastery Key eBook Subscription Services
 - Chemistry Study Guide For Content Mastery Key Budget-Friendly Options
6. Navigating Chemistry Study Guide For Content Mastery Key eBook Formats
- ePub, PDF, MOBI, and More
 - Chemistry Study Guide For Content Mastery Key Compatibility with Devices
 - Chemistry Study Guide For Content Mastery Key Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Chemistry Study Guide For Content Mastery Key
 - Highlighting and Note-Taking Chemistry Study Guide For Content Mastery Key
 - Interactive Elements Chemistry Study Guide For Content Mastery Key
8. Staying Engaged with Chemistry Study Guide For Content Mastery Key
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chemistry Study Guide For Content Mastery Key
9. Balancing eBooks and Physical Books Chemistry Study Guide For Content Mastery Key
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chemistry Study Guide For Content Mastery Key
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chemistry Study Guide For Content Mastery Key
- Setting Reading Goals Chemistry Study Guide For Content Mastery Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chemistry Study Guide For Content Mastery Key
- Fact-Checking eBook Content of Chemistry Study Guide For Content Mastery Key
 - 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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