

Reviewing Content

42. The solvent is the substance in which the solute is dissolved.
43. Random collisions of the solvent molecules with the solute particles provide enough force to overcome gravity.
44. **solubility**: the amount of a substance that dissolves in a given quantity of solvent at specified conditions of temperature and pressure to produce a saturated solution.
saturated solution: a solution containing the maximum amount of solute for a given amount of solvent at a constant temperature and pressure. **unsaturated solution**: a solution that contains less solute than a saturated solution at a given temperature and pressure. **miscible**: describes liquids that dissolve in each other. **immiscible**: describes liquids that are insoluble in each other.
45. Particles of solute crystallize.
46. No; if there were undissolved solute, the excess solute would come out of a supersaturated solution.
47. 5.55×10^2 g AgNO_3
48. Solubility increases with pressure.
49. a. 1.6×10^{-2} g/L
b. 4.7×10^{-2} g/L
50. Dilute and concentrated are relative terms and are not quantitative. Molarity provides the exact number of moles of solute per liter of solution.
51. Molarity is the number of moles of solute dissolved in one liter of solution.
a. 1.3M KCl
b. 3.3×10^{-1} M MgCl_2
52. 2.00×10^3 mL
53. a. 5.0×10^{-1} mol NaCl, 29 g NaCl
b. 1.0 mol KNO_3 , 1.0×10^2 g KNO_3
c. 2.5×10^3 mol CaCl_2 , 2.8 g CaCl_2
54. a. 2.3×10^3 g NaCl
b. 2.0 g MgCl_2
55. a. 16% (v/v) ethanol
b. 63.6% (v/v) isopropyl alcohol
56. Colligative properties are properties of a solution that depend only on the number of solute particles; boiling-point elevation, freezing-point depression, and vapor-pressure lowering. Boiling points are elevated because shells of solvent form around solute particles, reducing the amount of solvent molecules that have sufficient energy to escape the solution; relative to the pure solvent, the amount of energy required to cause vaporization or boiling increases. Solutes disrupt the ordering of the solvent structure, so more kinetic energy must be withdrawn from a solution for it to solidify. This lowers the freezing point of the solution.
57. a. sea water
b. 1.5M KNO_3
c. 0.100M MgCl_2
58. The effective molality of the $\text{Ca}(\text{NO}_3)_2$ solution is 3m. The effective molality of the NaNO_3 solution is 2m.
59. When vapor pressure is lowered relative to pure solvent, more energy must be supplied to reach the boiling point; thus the boiling point is increased relative to pure solvent.
60. The salt lowers the freezing point of the ice-water cooling mixture.
61. 1M solution: 1 mol of solute in 1 L of solution; 1m solution: 1 mol of solute in 1000 g of solvent
62. Add 27.0 g H_2O to 32.0 g CH_3OH .
63. a. 100.26°C
b. 101.54°C
64. a. -4.46°C
b. -2.2°C
65. a. -1.1°C
b. -0.74°C
c. -1.5°C

Understanding Concepts

66. a. The freezing-point depression is twice as great for solute B; solute B must provide twice as many particles in solution.

Mastering Chemistry Chapter 8 Answer Key

G Thomas



Mastering Chemistry Chapter 8 Answer Key:

This book delves into Mastering Chemistry Chapter 8 Answer Key. Mastering Chemistry Chapter 8 Answer Key is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mastering Chemistry Chapter 8 Answer Key, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Mastering Chemistry Chapter 8 Answer Key
- Chapter 2: Essential Elements of Mastering Chemistry Chapter 8 Answer Key
- Chapter 3: Mastering Chemistry Chapter 8 Answer Key in Everyday Life
- Chapter 4: Mastering Chemistry Chapter 8 Answer Key in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Mastering Chemistry Chapter 8 Answer Key. This chapter will explore what Mastering Chemistry Chapter 8 Answer Key is, why Mastering Chemistry Chapter 8 Answer Key is vital, and how to effectively learn about Mastering Chemistry Chapter 8 Answer Key.

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6. In chapter 5, the author will draw a conclusion about Mastering Chemistry Chapter 8 Answer Key. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Mastering Chemistry Chapter 8 Answer Key.

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Table of Contents Mastering Chemistry Chapter 8 Answer Key

1. Understanding the eBook Mastering Chemistry Chapter 8 Answer Key
 - The Rise of Digital Reading Mastering Chemistry Chapter 8 Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Chemistry Chapter 8 Answer 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 Mastering Chemistry Chapter 8 Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Chemistry Chapter 8 Answer Key
 - Personalized Recommendations
 - Mastering Chemistry Chapter 8 Answer Key User Reviews and Ratings
 - Mastering Chemistry Chapter 8 Answer Key and Bestseller Lists
5. Accessing Mastering Chemistry Chapter 8 Answer Key Free and Paid eBooks
 - Mastering Chemistry Chapter 8 Answer Key Public Domain eBooks
 - Mastering Chemistry Chapter 8 Answer Key eBook Subscription Services
 - Mastering Chemistry Chapter 8 Answer Key Budget-Friendly Options
6. Navigating Mastering Chemistry Chapter 8 Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Mastering Chemistry Chapter 8 Answer Key Compatibility with Devices
 - Mastering Chemistry Chapter 8 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mastering Chemistry Chapter 8 Answer Key
 - Highlighting and Note-Taking Mastering Chemistry Chapter 8 Answer Key
 - Interactive Elements Mastering Chemistry Chapter 8 Answer Key

8. Staying Engaged with Mastering Chemistry Chapter 8 Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastering Chemistry Chapter 8 Answer Key
9. Balancing eBooks and Physical Books Mastering Chemistry Chapter 8 Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mastering Chemistry Chapter 8 Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mastering Chemistry Chapter 8 Answer Key
 - Setting Reading Goals Mastering Chemistry Chapter 8 Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mastering Chemistry Chapter 8 Answer Key
 - Fact-Checking eBook Content of Mastering Chemistry Chapter 8 Answer 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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