

CHAPTER 14 STUDY GUIDE

Mixtures and Solutions

Section 14.1 Heterogeneous and Homogeneous Mixtures

In your textbook, read about suspensions and colloids.

For each statement below, write *true* or *false*.

- _____ 1. A solution is a mixture containing particles that settle out of the mixture if left undisturbed.
- _____ 2. The most abundant substance in a colloid is the dispersion medium.
- _____ 3. A colloid can be separated by filtration.
- _____ 4. A solid emulsion consists of a liquid dispersed in a solid.
- _____ 5. Whipped cream is an example of a foam.
- _____ 6. In an aerosol, the dispersing medium is a liquid.
- _____ 7. Brownian motion results from the collisions of particles of the dispersion medium with the dispersed particles.
- _____ 8. Dispersed particles in a colloid do not tend to settle out because they have polar or charged atomic groups on their surfaces.
- _____ 9. Stirring an electrolyte into a colloid stabilizes the colloid.
- _____ 10. Colloids demonstrate the Tyndall effect.

The table below lists the characteristics of particles in colloids, solutions, and suspensions. Place a check in the column of each mixture whose particles have a particular characteristic.

Characteristics of Particles	Colloid	Solution	Suspension
11. Less than 1 nm in diameter			
12. Between 1 nm and 1000 nm in diameter			
13. More than 1000 nm in diameter			
14. Settle out if undisturbed			
15. Pass through standard filter paper			
16. Lower vapor pressure			
17. Scatter light			

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M Walker



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Table of Contents Mixtures And Solutions Study Guide Chemistry

1. Understanding the eBook Mixtures And Solutions Study Guide Chemistry
 - The Rise of Digital Reading Mixtures And Solutions Study Guide Chemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying Mixtures And Solutions Study Guide Chemistry
 - 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 Mixtures And Solutions Study Guide Chemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mixtures And Solutions Study Guide Chemistry
 - Personalized Recommendations
 - Mixtures And Solutions Study Guide Chemistry User Reviews and Ratings
 - Mixtures And Solutions Study Guide Chemistry and Bestseller Lists
5. Accessing Mixtures And Solutions Study Guide Chemistry Free and Paid eBooks
 - Mixtures And Solutions Study Guide Chemistry Public Domain eBooks
 - Mixtures And Solutions Study Guide Chemistry eBook Subscription Services
 - Mixtures And Solutions Study Guide Chemistry Budget-Friendly Options

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