

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*.

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

Heterogeneous Mixtures Study Guide Teacher Eddition

RC Schank



Heterogeneous Mixtures Study Guide Teacher Eddition:

The book delves into Heterogeneous Mixtures Study Guide Teacher Edition. Heterogeneous Mixtures Study Guide Teacher Edition is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Heterogeneous Mixtures Study Guide Teacher Edition, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Heterogeneous Mixtures Study Guide Teacher Edition
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 - Chapter 4: Heterogeneous Mixtures Study Guide Teacher Edition in Specific Contexts
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