

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

R Barnett



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