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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 columns 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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