

15.3**HETEROGENEOUS AQUEOUS SYSTEMS****Section Review****Objectives**

- Distinguish between a suspension and a solution
- Identify the distinguishing characteristic of a colloid

Vocabulary

- suspension
- colloid
- Tyndall effect
- Brownian motion
- emulsion

Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

The component particles of a suspension are much 1 than those of a solution. Gravity or 2 will separate the suspended particles from a suspension. The particles in a colloid generally do not settle out under gravity, and they pass through ordinary filter paper unchanged. 3 are good at scattering light, as are suspensions, as evidenced by the 4. Colloidal dispersions also exhibit 5 motion. The particles in solutions are small 6 or 7. They cannot be trapped by filter paper, nor do they exhibit the Tyndall effect.

8 are colloidal dispersions of liquids in liquids.

Emulsifying agents maintain the 9 of an emulsion and allow the formation of 10 between liquids that do not ordinarily mix.

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

Part B True-False

Classify each of these statements as always true, AT; sometimes true, ST; or never true, NT.

- _____ 11. The scattering of light by colloidal particles is called Brownian motion.
- _____ 12. Heterogeneous aqueous systems can be separated by filtration.

Heterogeneous Aqueous Systems Answers

Daniel F McAuley



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