Lesson 120: A Special Type of Mixture Notes Chemistry with Lab

Solutions

- Formed when substances _____ in other _____
- _____ mixtures
- _____ phase
- remain _____; particles do not _____ out
- cannot be separated by _____
    - solvent:
        - present in _____ amount
        - _____ the _____ to make the solution
    - solute:
        - present in _____ amount
        - _____ in the _____

Examples of Types of Solutions

Liquid - _____ solvent in which a _____, _____, or _____ is _____

- _____ dissolved in _____: _____ _____
- _____ in _____: _____ in water
    - _____: the two liquids mix
    - _____: the two liquids _____ mix
- _____ dissolved in _____: _____ water

Lesson 120: Special Type of Mixture (cont.)

Solid

- _____: solid mixtures of _____: (_____ is a mixture of _____ and _____)

Gas

- gases dissolved in _____ other: (_____ is most common example)

Aqueous: _____ is the _____

Tincture: _____ is the _____

Suspension

- a _____ mixture
- particles in the _____ are thousands of times _____ than _____ and _____
- particles will _____ out upon _____
- can be separated by _____
- exhibit the _____ _____ - the _____ of _____ in all directions

Colloid

- particles are _____ in size between those of _____ and true _____
- particles do not _____ out upon _____

- can not be separated by _____
- exhibit the _____ _____

Emulsion

- _____ dispersion of _____ in _____
- _____ agent is necessary for maintaining _____

(_____ is an example)

Electrolyte: dissolves in water to form a _____ that _____

_____

Nonelectrolyte: dissolves in water to form a _____ that does _____

conduct _____

Factors Affecting the Rate of Solution

1) _____ _____:

increasing the surface area of the _____ by _____

speeds up _____ by increasing the number of _____

between the _____ and the _____ surface.

2) _____:

_____ or _____ helps to disperse solute particles,

_____ the number of _____ between the

_____ and the _____ surface.

3) _____:

increases the average _____ _____ of the solvent molecules so that _____ between the solvent molecules and the _____ are more _____.

The Chemistry Quiz

CR1. _____ CR2. _____ 1. _____ 2. _____ 3. _____

4. _____ 5. _____