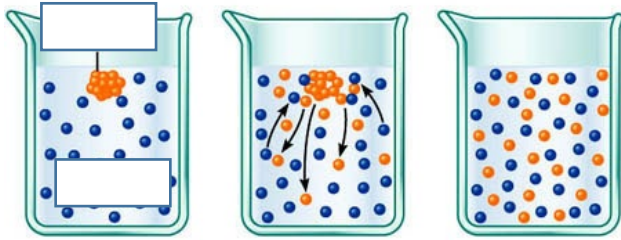


A **solution** is a _____ in which one or more substances are distributed uniformly throughout another substance so the _____ is _____ at the molecular or ionic level.



Component Parts:

A _____ solution contains a _____ amount of _____ relative to the volume of _____

A _____ solution contains a _____ amount of _____ relative to the volume of _____



Solvation

- _____ - a solution in which the maximum amount of solute has dissolved in the solvent at a given temperature
- _____ - a solution in which the solute has completely dissolved (and more could dissolve)
- _____ - a solution in which more solute is dissolved than could be under normal circumstances

Types of Mixtures

Particle size less than 10^{-7} cm	Particle size between 10^{-7} cm and 10^{-5} cm	Particles size greater than 10^{-5} cm
10^{-7} cm	10^{-5} cm	
<input type="text"/>	<input type="text"/>	<input type="text"/>

Factors Affecting Solvation Rate:

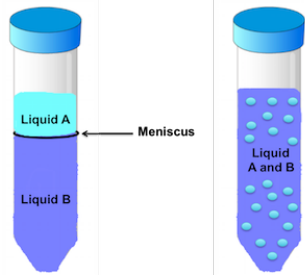
- 1)
- 2)
- 3)
- 4)
- 5)

unsaturated solution
more solute dissolves

saturated solution
no more solute dissolves

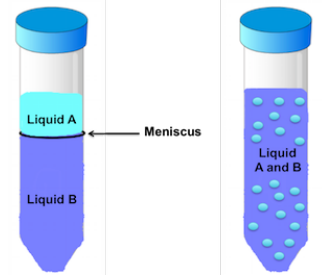
supersaturated solution
added crystals grow

Miscible:



Immiscible:

Miscible:

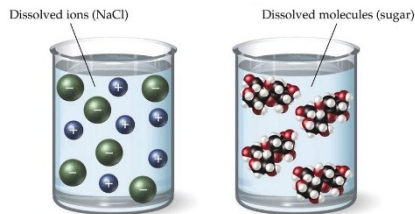


Immiscible:

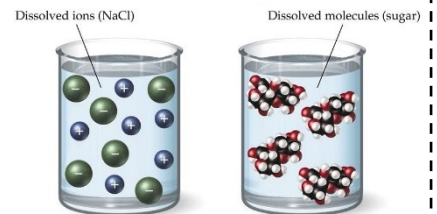
Electrolyte:

Electrolyte:

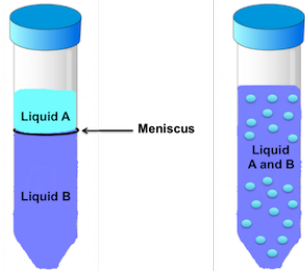
Nonelectrolyte:



Nonelectrolyte:

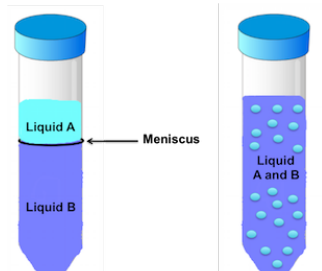


Miscible:



Immiscible:

Miscible:

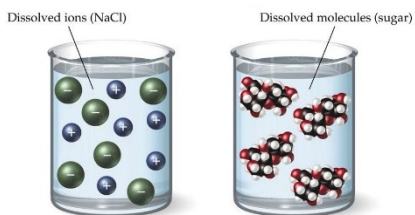


Immiscible:

Electrolyte:

Electrolyte:

Nonelectrolyte:



Nonelectrolyte:

