

Review solutions...

Solute: substance that is dissolved in a solution



SOLUTE



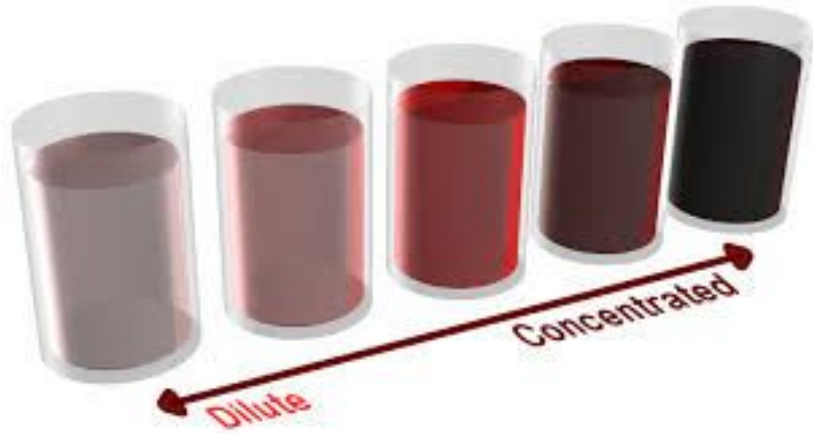
SOLVENT



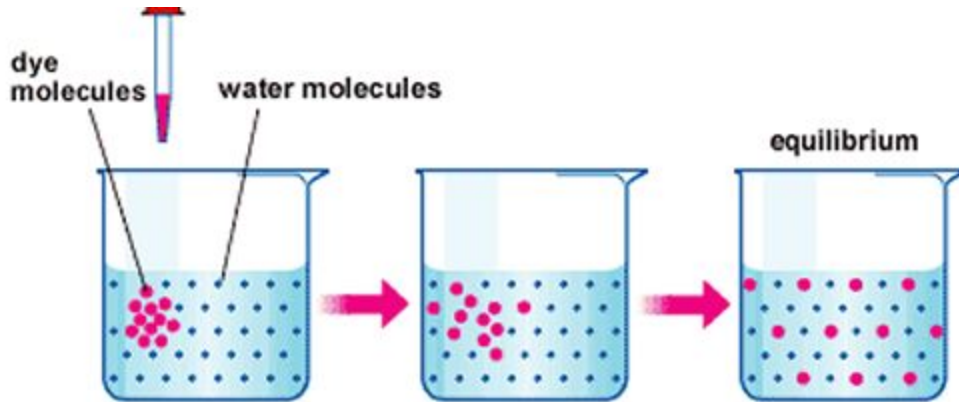
SOLUTION

Solvent: substance in which the solute is dissolved

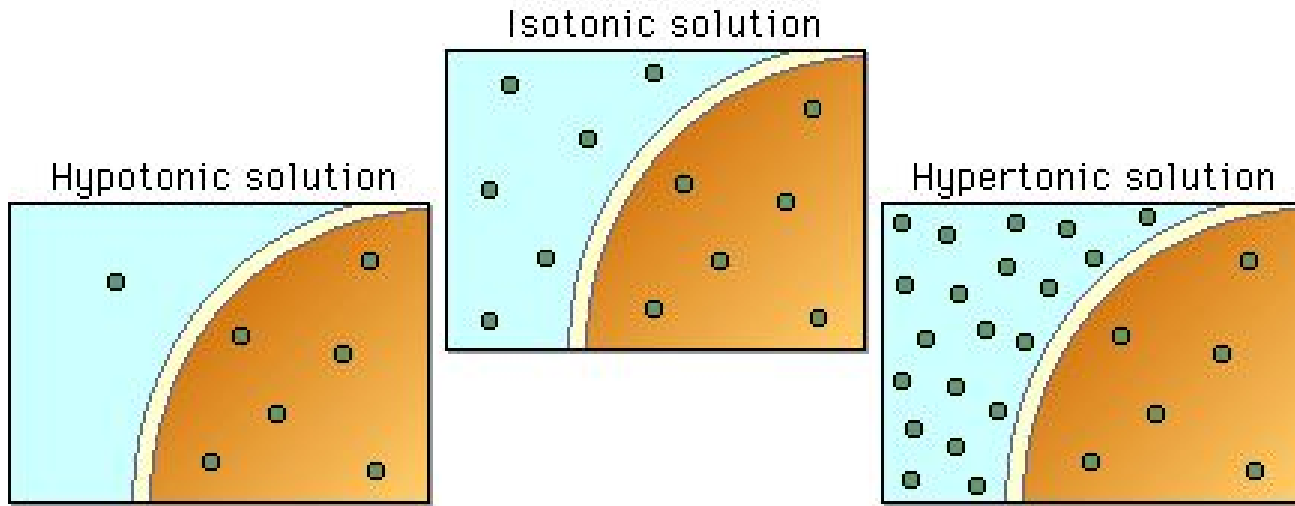
Concentration: the mass of the solute in a given volume (mass/volume)



Diffusion: when materials move from areas where they are *more* concentrated to areas where they are *less* concentrated.



Equilibrium: the state when a concentration has equalized



Isotonic solution: two solutions have the same solute concentration

Hypertonic solution: a solution has a higher solute concentration

Hypotonic solution: a solution has a lower solute concentration

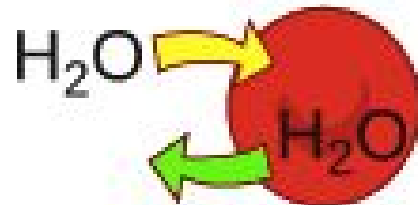
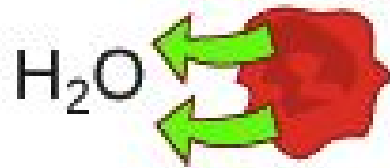
Hypertonic
solution



Isotonic
solution



Hypotonic
solution



Most membranes are selectively permeable, or *semipermeable* (Some substances can pass through, while other cannot.)

Osmosis: the diffusion of water across a membrane, to areas of less concentration.

