

Solutions



Solution

- ▶ Solution: a mixture of two or more substances that is identical throughout (homogeneous)
- ▶ can be physically separated
- ▶ composed of solutes and solvents

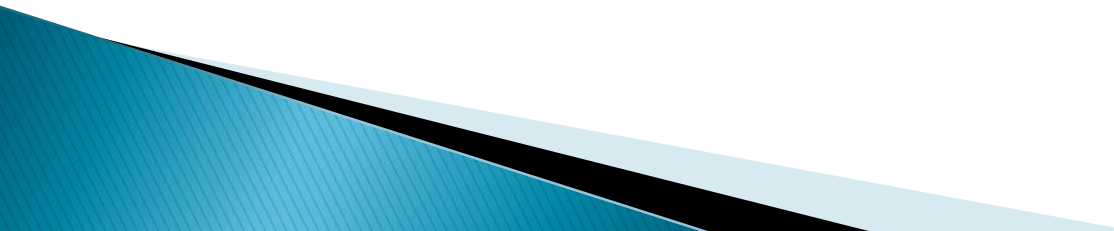


the substance being dissolved



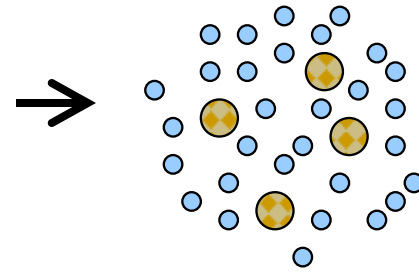
the substance that dissolves the solute

Types of Solutions

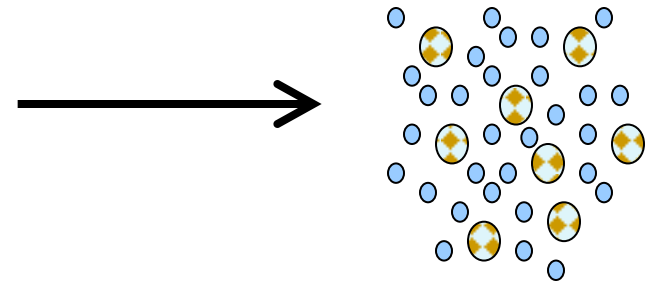
- ▣ Gaseous solutions - Gas in Liquid
 - ▣ Liquid solutions - Liquid in liquid
 - ▣ Solid solutions - Solid in Liquid
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Concentration

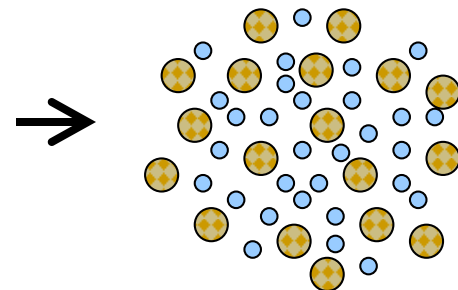
• Unsaturated - has a less than the maximum concentration of solute dissolved



• Saturated - has the maximum concentration of solute dissolved (can see solid in bottom of solution)



• Supersaturated - contains more dissolved solute than normally possible (usually requires an increase in temperature followed by cooling)



- ▶ Miscible liquids can easily dissolve in one another.
- ▶ Immiscible liquids are not soluble in each other.