

# Chapter 12: Solutions

Georgia Gwinnett College

Chem 1212K

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# Solutions

- Mixture: Different types of atoms or molecules. Not definite proportions.
  - Heterogeneous: Observable boundaries between components. Often represented by different phases (but not always). Not uniform
  - Homogeneous: No observable boundaries. Uniform. Solutions (not just liquid)
- Solubility

# Solutions and Solvation

- **Solution:** A homogenous mixture of two or more substances that has no visible boundaries among its components. The substances disperse into each other at the level of individual atoms/molecules/ions.
- Two major components of a solution:
  - **Solvent:** The substance present in the greater amount.
  - **Solute:** The substance present in the lesser amount.
    - We say the solute dissolves in the solvent
- **Solvation (also dissolution):** The process of surrounding solute particles with solvent particles.

