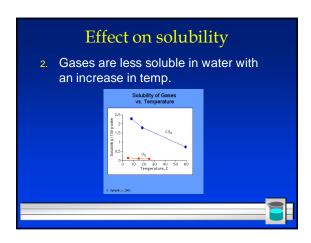
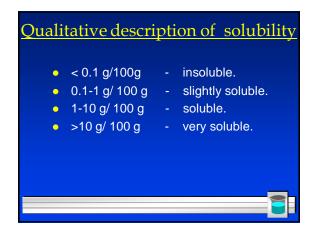
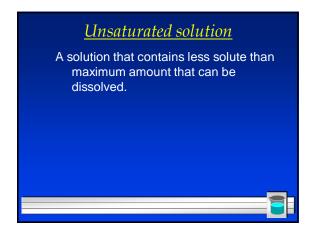


Effect on solubility 1. Solids are more soluble in water with an increase in temp. Solubility in boiling water with an increase in temp. Solubility in boiling water with an increase in temp. Solubility in boiling water with an increase in temp. Solubility in boiling water with an increase in temp.

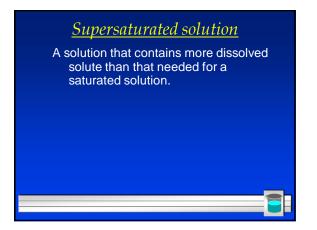


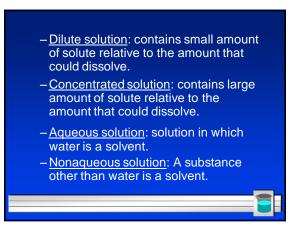
Effect on solubility 2. Pressure does not affect solubility of solids or liquids, but affects the solubility of gases. As pressure increases solubility increases.



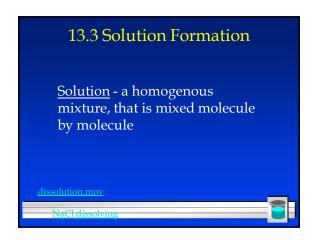


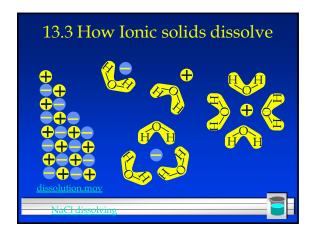




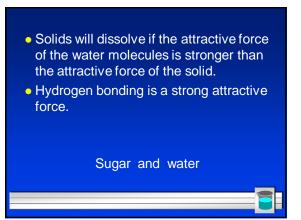


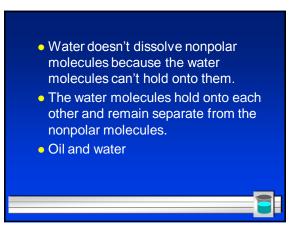
Summary Solvents and Solutes Solvent - the dissolving medium Solute - the dissolved particles Aqueous solution - a solution with water as the solvent.

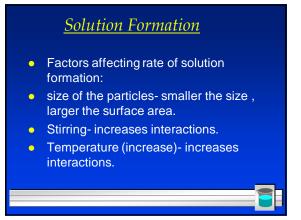


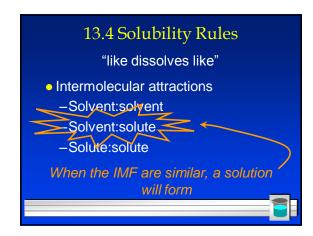


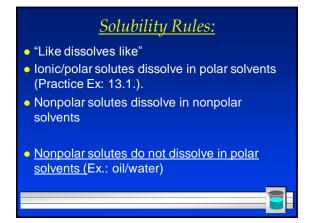














Electrolytes and NonelectrolytesElectrolytes- compounds that

- Electrolytes- compounds that conduct an electric current in aqueous solution, or in the molten state
 - –all ionic compounds are electrolytes (they are also salts)
- barium sulfate- will conduct when molten, but is insoluble in water!

Electrolytes and Nonelectrolytes Not all electrolytes conduct to the same degree there are <u>strong</u> electrolytes and <u>weak</u> electrolytes degree of ionization Nonelectrolytes do not conduct. Many molecular materials, because they do not have ions

Electrolyte Summary

- Substances that conduct electricity when dissolved in water, or molten.
- Must have charged particles that can move.
- Ionic compounds break into charged ions:
 - NaCl → Na¹+ and Cl¹- in water
- These ions can conduct electricity.

- Strong electrolytes ionize completely.
- Weak electrolytes don't fall completely apart into ions.
- Nonelectrolytes do not conduct electricity when dissolved in water or molten
- Polar covalent molecules such as methanol (CH₃OH) don't fall apart into ions when they dissolve.

http://cwx.prenhall.com/petrucci/medialib/media portiolio/text_images/III5_ELECTANDINON_MOV_

