Topic 7 – Solutions

Lesson 3 – Descriptions of Solutions and the Solubility Curves

Terms to Know

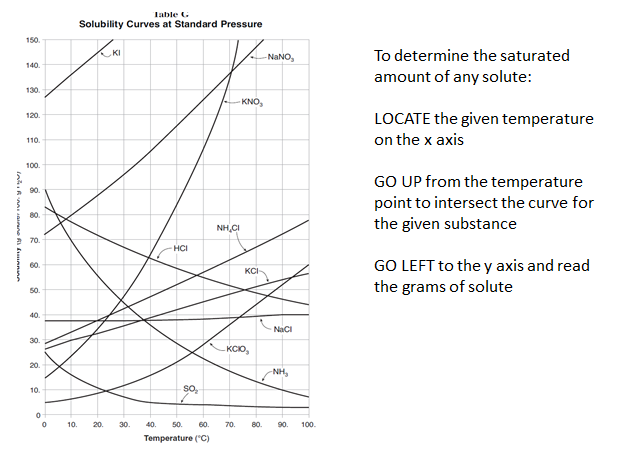
Saturated –

Unsaturated –

Supersaturated –

Dilute –

Concentrated –



**Determine the Saturated Amount**

* locate the temperature in question
* go up the temperature line until you hit the curve of the substance in question
* go left to read grams of solute
* make adjustments for different amounts of water (halve amount for 50 g water; double amount for 200 g water)

**Type of a Solution**

* locate the temperature in question
* go up the temperature line
* stop when you have gone as high as the grams of solute in question
* solution is saturated if you stop on the curve of the substance
* solution is supersaturated if you stop above the curve
* solution is unsaturated if you stop below the curve

**Difference of Solute to be added = grams to saturate at temp – grams of solute given**

**Grams of Solute Precipitated = saturated amount at temp – saturated amount at low temp**

Substances that are most soluble, most concentrated, least dilute are closest to the top of Table G

Substances that are least soluble, least concentrated, most dilute are closest to the bottom of Table G