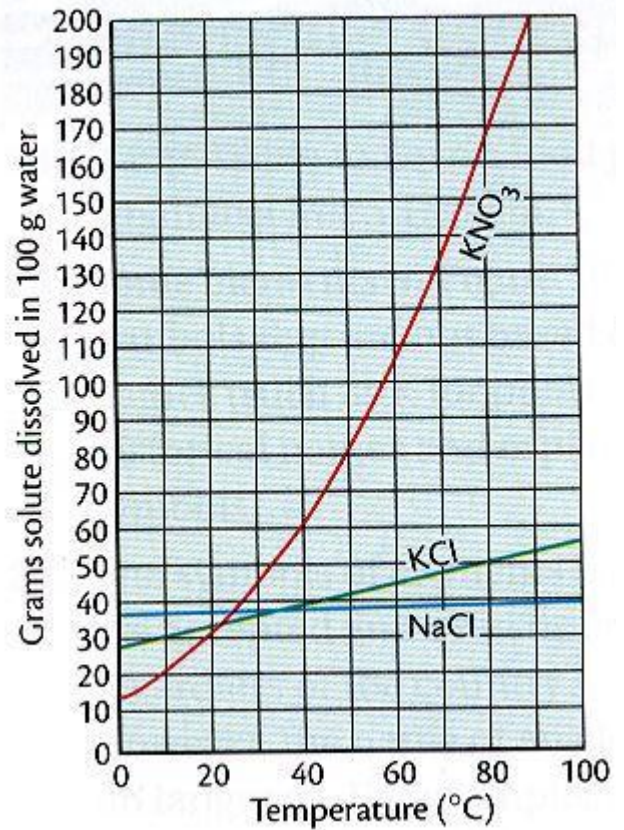


Solubility Curves

Name _____

- 1) At what temperature will the solubility of potassium nitrate be 25 g per 100 g water?
- 2) How much potassium nitrate will dissolve in 100 g water at 40°C?
- 3) What mass (in grams) of potassium nitrate (KNO_3) will dissolve in 100 g water at 60°C?
- 4) What mass (in grams) of potassium chloride (KCl) will dissolve in 100 g water at 60°C?
- 5) You dissolve 25 g potassium nitrate in 100 g water at 30°C, producing an unsaturated solution. How much more potassium nitrate (in grams) must be added to form a saturated solution at 30°C?



- 6) What is the minimum mass (in grams) of 30°C water needed to dissolve 25 g potassium nitrate?
- 7) You place 50 g NaCl in 100 g water at 30°C.
 - a) Classify the solution as unsaturated or saturated.
 - b) Of the 50 g NaCl, about what mass will dissolve?
 - c) Describe what you would see in the beaker.
- 8) At 80°C, more KCl can dissolve in 100 g of water than at 10°C. How many more grams of KCl can dissolve in the warmer water than the colder water?