**Solubility Curves Practice**



**Solubility - the amount that can be dissolved.**

**Salt - Ionic Compound**

1. For the salts (solids), the overall trend is that as temperature
increases, solubility [increases or decreases?] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. For the gases, the overall trend is that as temperature increases,
solubility [increases or decreases?] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Which salt (solid) is the most soluble at 10oC? \_\_\_\_\_\_\_\_
4. Which salt (solid) is the least soluble at 50oC? \_\_\_\_\_\_\_\_
5. Which salt shows the least increase in solubility as temperature
increases? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Which salt shows the greatest increase in solubility as
temperature increases? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. How much KNO3 can be dissolved in 100 grams of water at
60oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. How much potassium chloride can be dissolved in 100 g of
water at 30oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. How much NH4Cl can be dissolved into **200 g of water** at
70oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. How much NaCl can be dissolved into **200 g of water**  at
90oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. How much potassium iodide can be dissolved in **300 g of water**
at OoC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
12. **Is the solution saturated, unsaturated, or supersaturated?**
	1. 85 g of KNO3 at 55oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. 100 g of NaNO3 at 30oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. 110 g of KNO3 at 60oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	4. 10 g of SO2 at 40oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	5. 62 g of NH3 at 10oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_