

SOLUBILITY CURVES

Name _____

Answer the following questions based on the solubility curve below.

1. Which salt is least soluble in water at 20° C? _____

2. How many grams of potassium chloride can be dissolved in 200 g of water at 80° C?

3. At 40° C, how much potassium nitrate can be dissolved in 300 g of water? _____

4. Which salt shows the least change in solubility from 0° – 100° C?

5. At 30° C, 90 g of sodium nitrate is dissolved in 100 g of water. Is this solution saturated, unsaturated or supersaturated?

6. A saturated solution of potassium chlorate is formed from one hundred grams of water. If the saturated solution is cooled from 80° C to 50° C, how many grams of precipitate are formed? _____

7. What compound shows a decrease in solubility from 0° to 100° C? _____

8. Which salt is most soluble at 10° C? _____

9. Which salt is least soluble at 50° C? _____

10. Which salt is least soluble at 90° C? _____

