SOLUBILITY CURVES

Answer the following questions based on the solubility curve below.

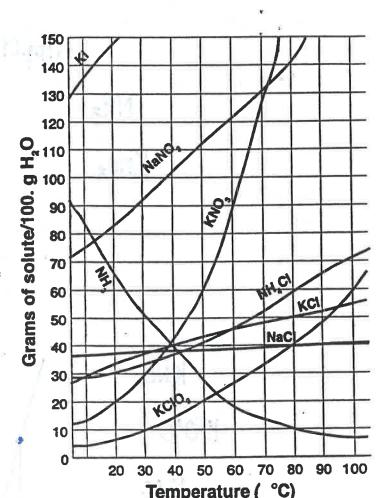
1. Which sait is least soluble in water at 20° C?

2. How many grams of potassium chloride can be dissolved in 200 g of water at 80° C2

3. At 40° C, how much potassium nitrate can be dissolved in 300 g of water? $4 g \times 3 = 123g$

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?



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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? 209 209

7. What compound shows a decrease in solubility from 0° to 100° C? NH3 (g)

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

10. Which salt is least soluble at 90° C? NH3 not a soit Answer: Noci