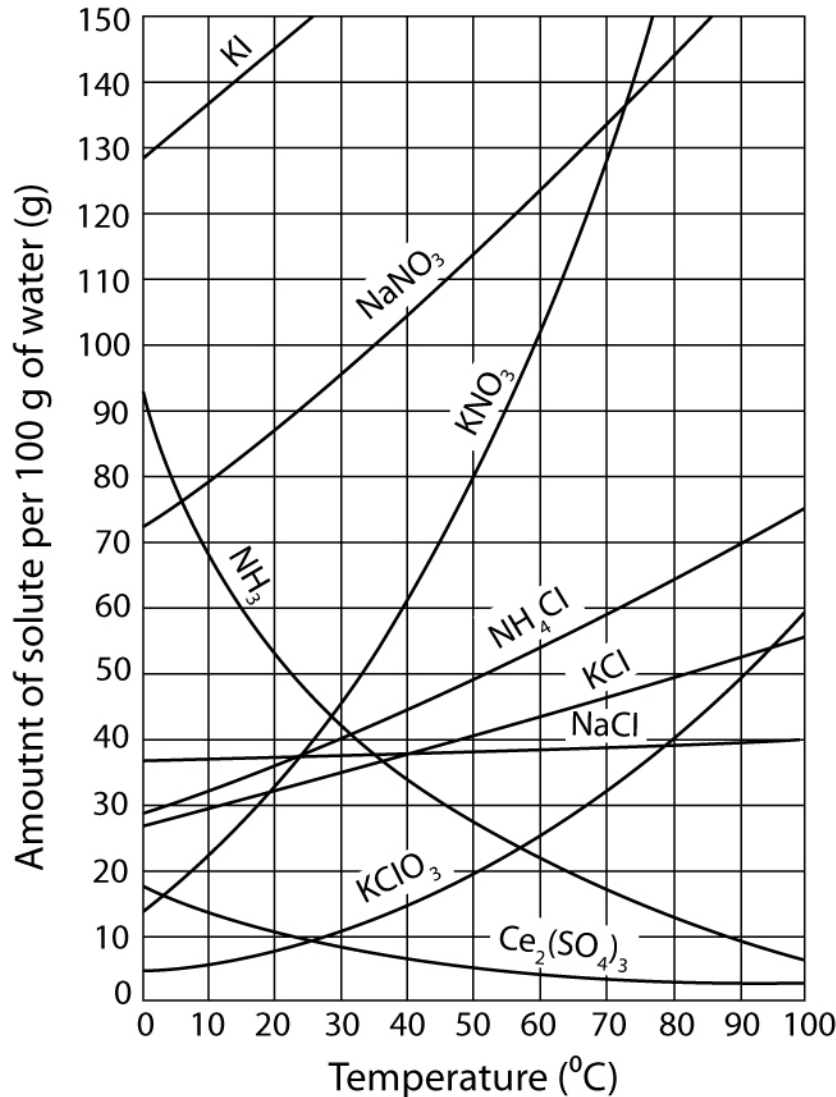


Solubility Curve Worksheet

Using the solubility curve below, answer the given questions.

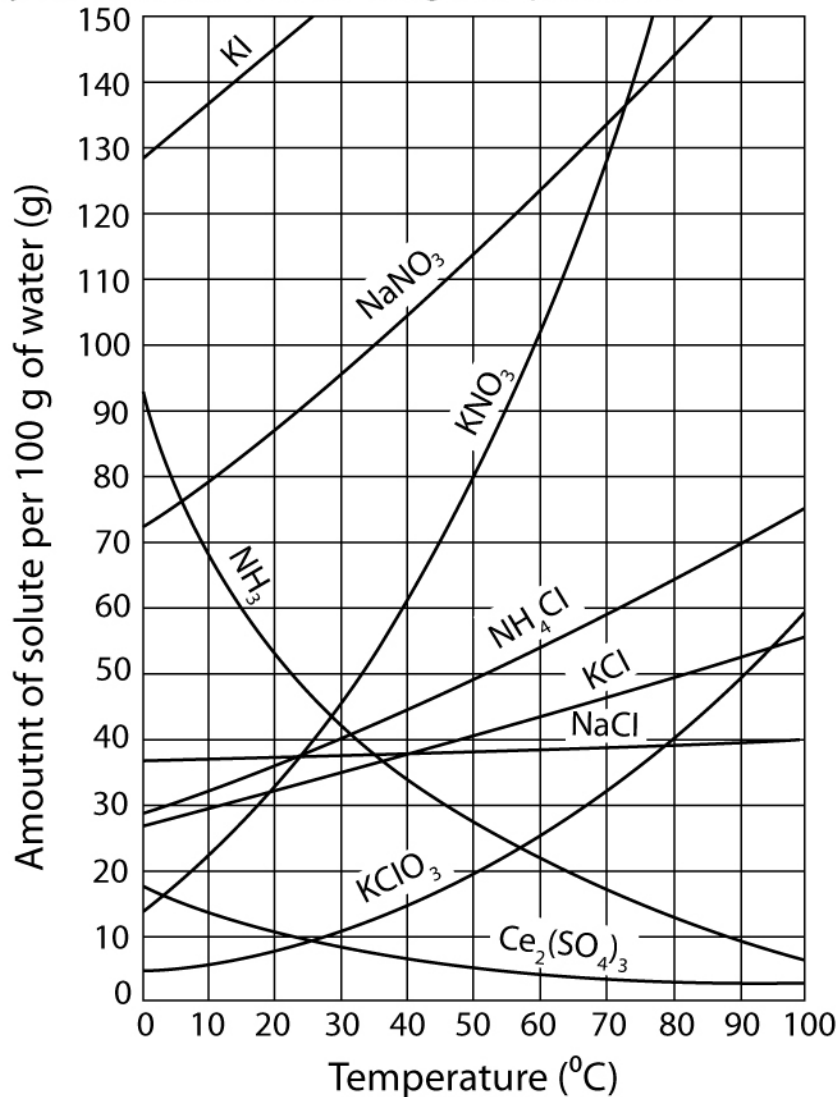


1. How many grams of ammonium chloride (NH₄Cl) at 50°C? _____
2. _____ and _____ have the same solubility at approximately 78°C.
3. Which compound is least soluble in water at 10°C? _____
4. How many grams of KNO₃ can be dissolved at 50°C? _____
5. Are the following solutions unsaturated, saturated, or supersaturated?
 - a. 45 g of NaNO₃ in 100 g of water at 30°C. _____
 - b. 60 g of KClO₃ in 100 g of water at 90°C. _____
6. What is the solubility of potassium nitrate at 30 °C? _____
7. How many grams of ammonia can I dissolve in 200 grams of water at a temperature of 45 °C? _____
8. At what temperature is sodium chloride's solubility the same as potassium chloride?

Solubility Curve Worksheet

Answers

Using the solubility curve below, answer the given questions.



- How many grams of ammonium chloride (NH₄Cl) at 50°C? 50g
- NaCl and KClO₃ have the same solubility at approximately 78°C.
- Which compound is least soluble in water at 10°C? KClO₃
- How many grams of KNO₃ can be dissolved at 50°C? 80g
- Are the following solutions unsaturated, saturated, or supersaturated?
 - 45 g of NaNO₃ in 100 g of water at 30°C. saturated
 - 60 g of KClO₃ in 100 g of water at 90°C. supersaturated
- What is the solubility of potassium nitrate at 30 °C? 46 g /100 g of H₂O
- How many grams of ammonia can I dissolve in 200 grams of water at a temperature of 45 °C? 2 x 32 grams = 64 grams
- At what temperature is sodium chloride's solubility the same as potassium chloride? 34 °C