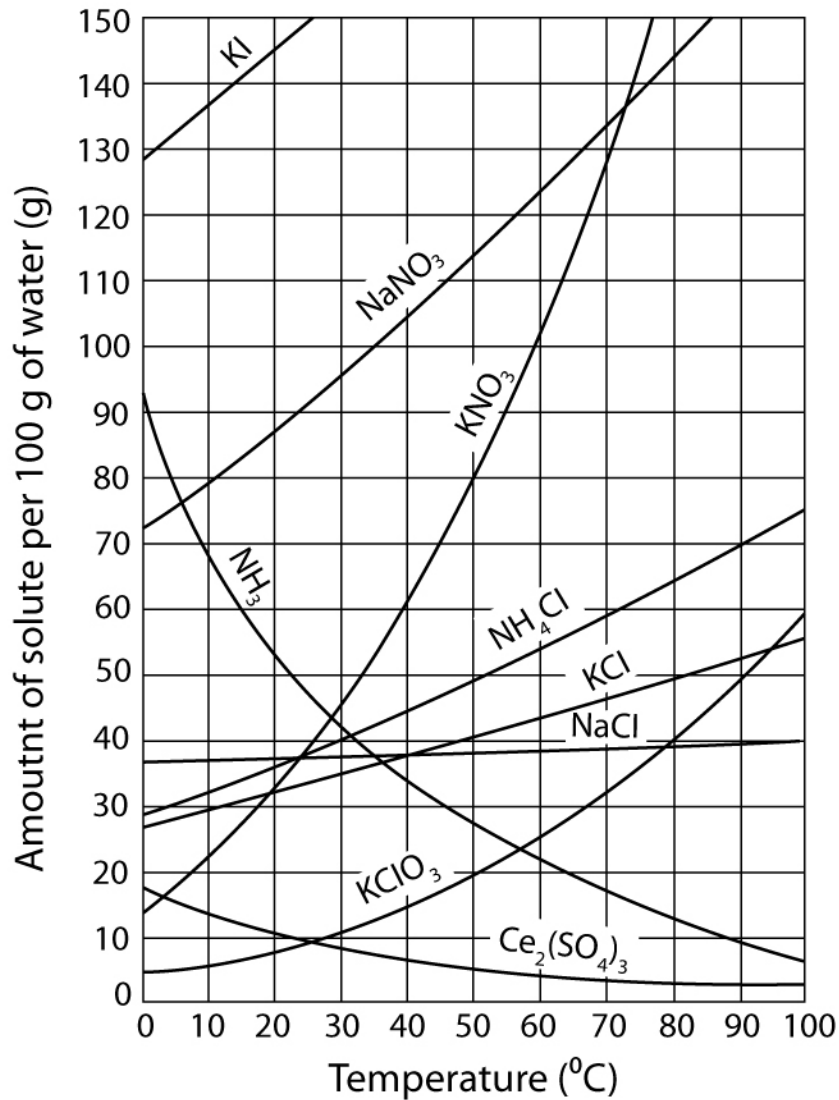


Solubility Curve Worksheet

1. Define solubility:

2. Look at the solubility curve below and answer the given questions



a. In general, how does the temperature affect solubility?

b. Which compound is least soluble at 10 °C? _____

c. How many grams of KCl can be dissolved in 100 g of water at 80 °C? _____

d. How many grams of NaCl can be dissolved in 100 g of water at 90 °C? _____

e. How many grams of KNO₃ can be dissolved in 100 g of water at 40 °C? _____

f. Which salt shows the least change in solubility from 0 °C to 100 °C? _____

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

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

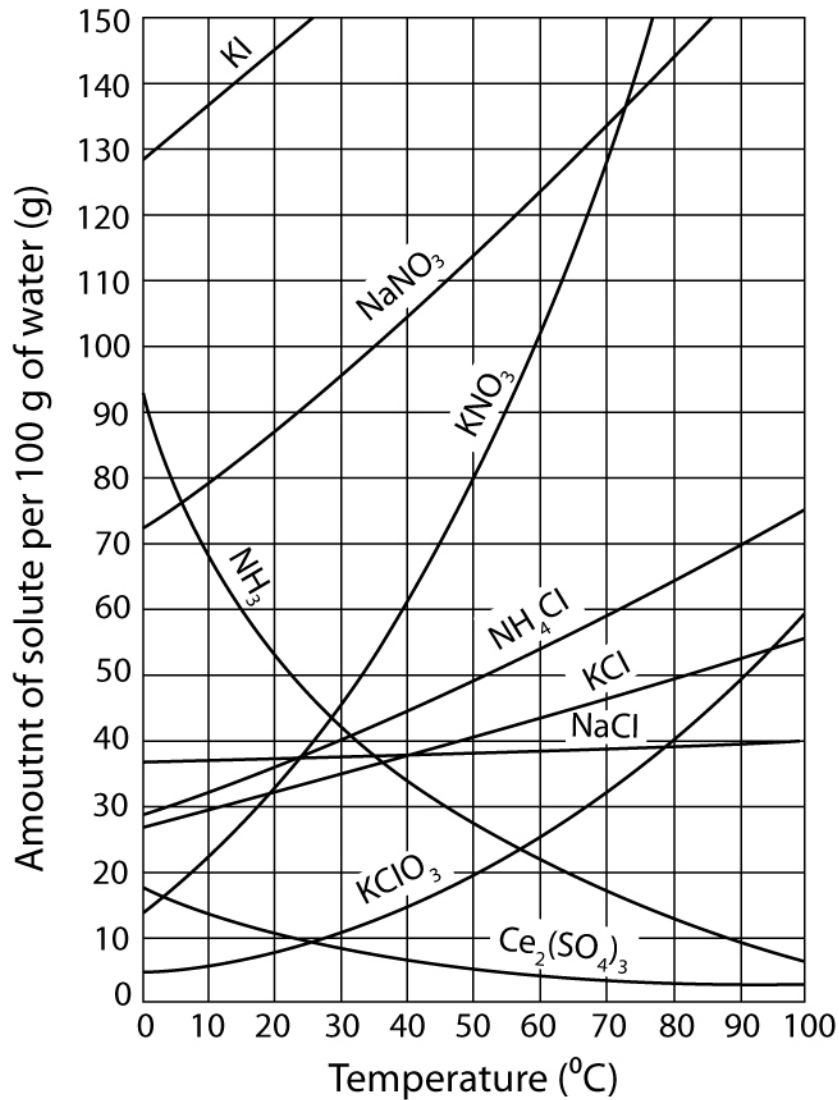
Solubility Curve Worksheet

1. Define solubility:

Answers

The maximum amount of solute that can dissolve in a solvent at a given temperature.

2. Look at the solubility curve below and answer the given questions



a. In general, how does the temperature affect solubility?

The solubility decreases with temperature

b. Which compound is least soluble at 10 °C? KClO₃

c. How many grams of KCl can be dissolved in 100 g of water at 80 °C? 50 g

d. How many grams of NaCl can be dissolved in 100 g of water at 90 °C? 40 g

e. How many grams of KNO₃ can be dissolved in 100 g of water at 40 °C? 62 g

f. Which salt shows the least change in solubility from 0 °C to 100 °C? NaCl

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

h. Which salt is most soluble at 10 °C? KI