

Name: _____ Date: _____ Class: _____

Solubility Curve Worksheet and Lab



You'll notice that for most substances, solubility increases as temperature increases. As discussed earlier in solutions involving liquids and solids typically more solute can be dissolved at higher temperatures. Can you find any exceptions on the graph? _____

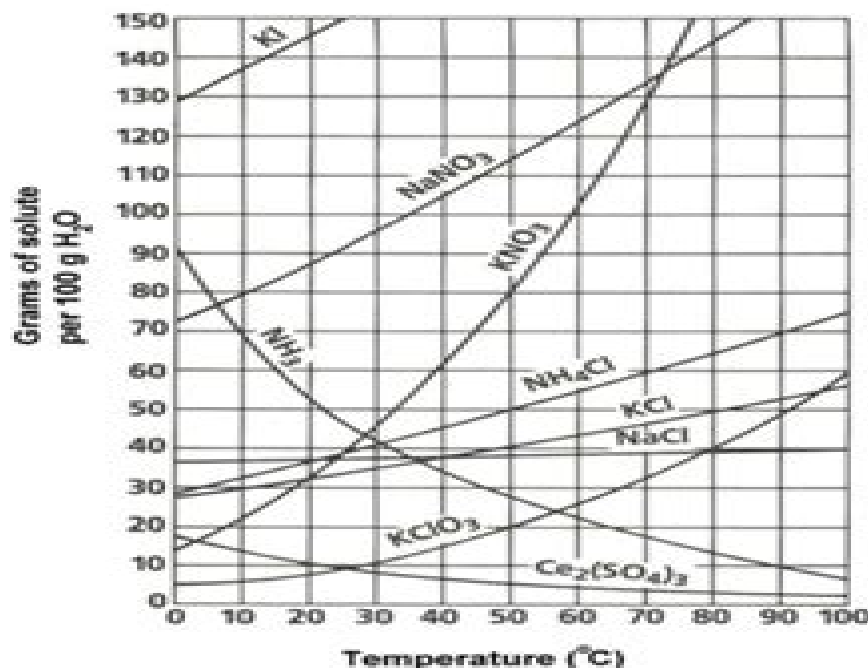
Here's an example of how to read the graph. Find the curve for KClO_3 .

At 30°C approximately 10g of KClO_3 will dissolve in 100g of water. If the temperature is increased to 80°C , approximately _____ of the substance will dissolve in 100g (or 100mL) of water.

Directions: Use the graph to answer the following questions. REMEMBER UNITS!

1) What mass of solute will dissolve in 100mL of water at the following temperatures?

- KNO_3 at 70°C = _____
- NaCl at 100°C = _____
- NH_4Cl at 90°C = _____
- Which of the above three substances is most soluble in water at 15°C . = _____



Lab Solubility Data Sheet Answer Key

J Elliott



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