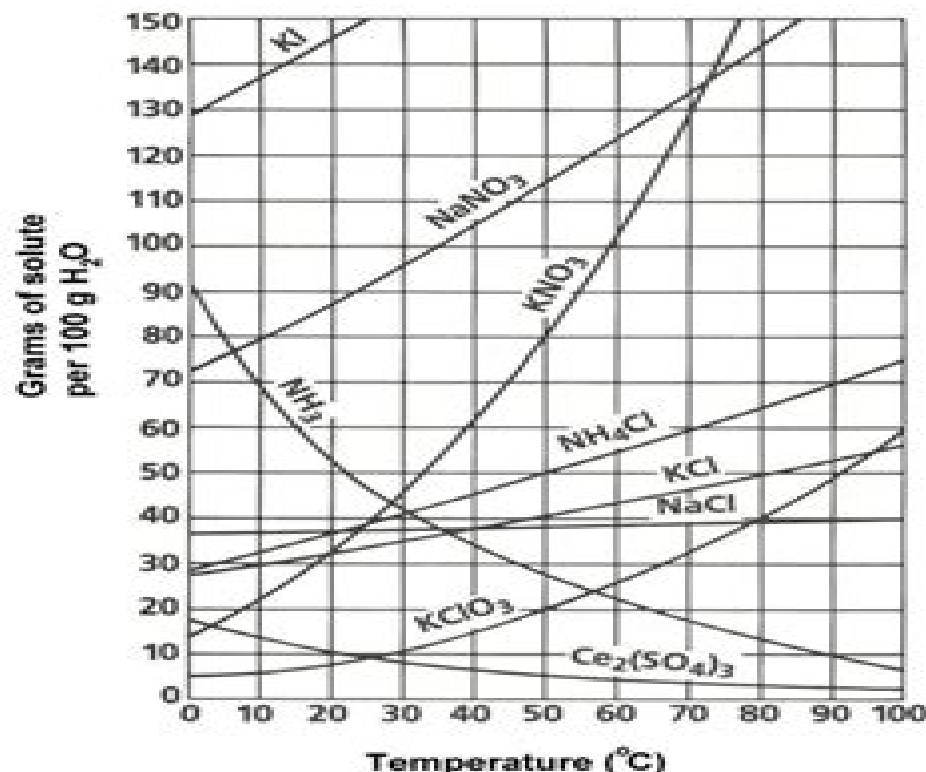


Reading a Solubility Chart

- 1) The **curve** shows the # of grams of solute in a **saturated solution** containing 100 mL or 100 g of water at a certain temperature. (remember: 1 mL H₂O = 1 g H₂O)
- 2) Any amount of solute **below** the line indicates an **unsaturated solution** at a certain temperature
- 3) Any amount of solute **above** the line in which all of the solute has dissolved indicates a **supersaturated solution**.
- 4) If the amount of solute is above the line but has not all dissolved, the solution is saturated and the # grams of solute settled on the bottom of the container = total # g in solution – # g of a saturated solution at that temperature. (according to the curve)
- 5) Solutes whose curves move upward w/ increased temperature are typically solids b/c the solubility of solids increases w/ increased temperature.
- 6) Solutes whose curves move downward w/ increased temperature are typically gases b/c the solubility of gases decreases with increased temperature.



Solubility Problems example (Many may be done by reading the solubility table)

1. At 10°C, 80 g of NaNO₃ will dissolve in 100 mL (a saturated solution)
2. To find the # grams needed to saturate a solution when the volume is NOT 100 mL use the following strategy to find answer: (e. g., 60 mL of H₂O will be saturated with how many grams of NaNO₃ ?)

Start w/ known vol. x Solubility/100mL at set temp. = amount of Solute needed to saturate

Ex. 60 mL H₂O x $\frac{80 \text{ g NaNO}_3}{100 \text{ mL H}_2\text{O}}$ = 48 g NaNO₃ needed to saturate solution

or if the chart is in units of 100 g of H₂O use the density of water conversion 1mL H₂O= 1 g H₂O

Ex. 60 mL H₂O x $\frac{1 \text{ g H}_2\text{O}}{1 \text{ mL H}_2\text{O}}$ x $\frac{80 \text{ g NaNO}_3}{100 \text{ g H}_2\text{O}}$ = 48 g NaNO₃

Solubility Curves Practice Problems

Rosina Ehmann

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Solubility Curves Practice Problems:

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Solubility Curves Practice Problems**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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