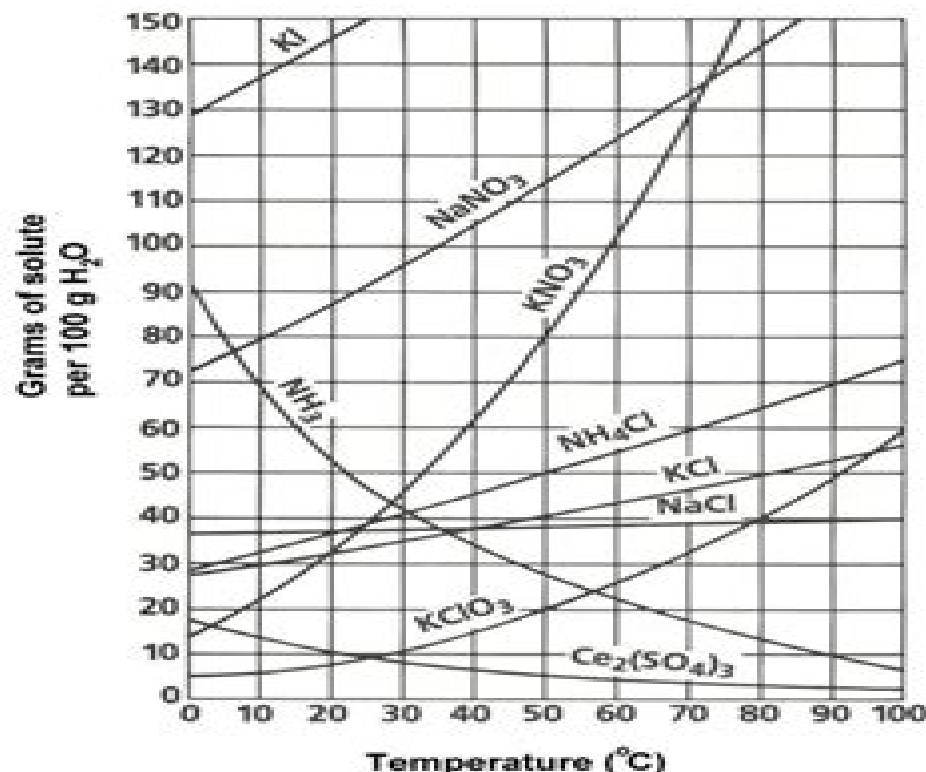


Reading a Solubility Chart

- 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. $\times$ Solubility/100mL at set temp. = amount of Solute needed to saturate

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

Solubility Curves Practice Problems

J Ma

A decorative red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located on the right side of the light blue horizontal bar.

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Table of Contents Solubility Curves Practice Problems

1. Understanding the eBook Solubility Curves Practice Problems
 - The Rise of Digital Reading Solubility Curves Practice Problems
 - Advantages of eBooks Over Traditional Books
2. Identifying Solubility Curves Practice Problems
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solubility Curves Practice Problems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solubility Curves Practice Problems
 - Personalized Recommendations
 - Solubility Curves Practice Problems User Reviews and Ratings
 - Solubility Curves Practice Problems and Bestseller Lists
5. Accessing Solubility Curves Practice Problems Free and Paid eBooks
 - Solubility Curves Practice Problems Public Domain eBooks
 - Solubility Curves Practice Problems eBook Subscription Services
 - Solubility Curves Practice Problems Budget-Friendly Options
6. Navigating Solubility Curves Practice Problems eBook Formats

- ePub, PDF, MOBI, and More
 - Solubility Curves Practice Problems Compatibility with Devices
 - Solubility Curves Practice Problems Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solubility Curves Practice Problems
 - Highlighting and Note-Taking Solubility Curves Practice Problems
 - Interactive Elements Solubility Curves Practice Problems
 8. Staying Engaged with Solubility Curves Practice Problems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solubility Curves Practice Problems
 9. Balancing eBooks and Physical Books Solubility Curves Practice Problems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solubility Curves Practice Problems
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Solubility Curves Practice Problems
 - Setting Reading Goals Solubility Curves Practice Problems
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Solubility Curves Practice Problems
 - Fact-Checking eBook Content of Solubility Curves Practice Problems
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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