

SOLUBILITY CURVE WORKSHEET KEY

Use your solubility curve graphs provided to answer the following questions.

1. What are the customary units of solubility on solubility curves? Degress Celsius and grams of solute/100g of water
2. Define solubility. A measure of how much solute can dissolve in a given amount of solvent.
3. According to the graph, the solubility of any substance changes as temperature changes.
4. List the substances whose solubility decreases as temperature increases. NH_3 and $\text{Ce}_2(\text{SO}_4)_3$
5. Which substance is least affected by temperature changes? NaCl
6. How many grams of ammonium chloride (NH_4Cl) at 50°C ? 50g
7. NaCl and KClO_3 have the same solubility at approximately 78°C .
8. Which compound is least soluble in water at 10°C ? KClO_3
9. How many grams of KNO_3 can be dissolved at 50°C ? 80g
10. Are the following solutions unsaturated, saturated, or supersaturated?
 - a. 45g of NaNO_3 in 100 g of water at 30°C . saturated
 - b. 60g of KClO_3 in 100 g of water at 90°C . supersaturated
11. How many grams of sodium chloride, NaCl are required to saturate 100 grams of water at 100°C ? 40g
12. How many grams of NaNO_3 are required to saturate 100 grams of water at 75°C ? 140g
13. How many grams of KI will saturate water at 20°C ? 33g
14. At what temperature would 25g of potassium chlorate (KClO_3) dissolve? 60°C
15. At what temperature would 60g of NH_4Cl dissolve? 70°C
16. 89 g NaNO_3 is prepared at 30°C .
 - a) Will all of the salt dissolve? No
 - b) What mass of NaNO_3 will dissolve at this temperature? 95g
17. If 50 grams of NH_4Cl is dissolved at 50°C , how many additional grams NH_4Cl would be needed to make the solution saturated at 80°C ? 15g
18. At 50°C , how many grams of KNO_3 will dissolve? 80g
19. At 70°C , how many grams of cerium (III) sulfate ($\text{Ce}_2(\text{SO}_4)_3$) dissolve? 5g
20. Determine if each of the following is unsaturated, saturated, or supersaturated.
 - a. 55g of NH_3 at 20°C . supersaturated
 - b. 10g of $\text{Ce}_2(\text{SO}_4)_3$ at 10°C . unsaturated
 - c. 110g of KNO_3 at 60°C . supersaturated
 - d. 65g of NH_4Cl at 80°C . saturated
 - e. 12g of NH_3 at 90°C . supersaturated
 - f. 78g of NaNO_3 at 10°C . saturated
 - g. 145g of NaNO_3 at 80°C . saturated
 - h. 35g of NaCl at 100°C . unsaturated

Solubility Practice Answer Key

Career Point Kota

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'Career Point Kota' text.

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Table of Contents Solubility Practice Answer Key

1. Understanding the eBook Solubility Practice Answer Key
 - The Rise of Digital Reading Solubility Practice Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Solubility Practice Answer Key
 - 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 Practice Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solubility Practice Answer Key
 - Personalized Recommendations
 - Solubility Practice Answer Key User Reviews and Ratings
 - Solubility Practice Answer Key and Bestseller Lists
5. Accessing Solubility Practice Answer Key Free and Paid eBooks
 - Solubility Practice Answer Key Public Domain eBooks
 - Solubility Practice Answer Key eBook Subscription Services

- Solubility Practice Answer Key Budget-Friendly Options
- 6. Navigating Solubility Practice Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Solubility Practice Answer Key Compatibility with Devices
 - Solubility Practice Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solubility Practice Answer Key
 - Highlighting and Note-Taking Solubility Practice Answer Key
 - Interactive Elements Solubility Practice Answer Key
- 8. Staying Engaged with Solubility Practice Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solubility Practice Answer Key
- 9. Balancing eBooks and Physical Books Solubility Practice Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solubility Practice Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solubility Practice Answer Key
 - Setting Reading Goals Solubility Practice Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solubility Practice Answer Key
 - Fact-Checking eBook Content of Solubility Practice Answer Key
 - 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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