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# Solubility curve worksheet and lab report examples

Which solid has the same solubility as potassium nitrate at 52 °C? What mass of Ammonium Chloride will dissolve at 50°C in 100 g of water? Chemistry - Solubility Curves Virtual LabPart I: Construct a single graph with multiple solubility curves to clearly show the solubility of the four ionic compounds in the data table below. or unsaturated solution? g H<sub>2</sub>O]The X-axis should be labeled appropriately (with units) and a range of values to accommodate all the temperature values. The graph should have a descriptive title. 4. The solubility is given in grams of the solid that will dissolve in 100 grams of water. When saturation has been reached - Rate of dissolving = Rate of crystallisation. What temperature is necessary for 10 g of cerium sulfate to dissolve in 100 g of water? Temperature Thank you for your participation! The Effect of Temperature on the Solubility of Potassium NitrateWritten by May 29, 2018Purpose: The purpose of this investigation is to determine the solubility of potassium nitrate at different temperatures. Experimental Design: Different known volumes of water were added to 5.0 g of potassium nitrate, and these dilutions were heated until the potassium nitrate was dissolved. The solutions were then cooled and the temperature was recorded when crystals started to form. What mass of Potassium Nitrate will dissolve at 20°C in 100 g of water? Related Topics: More Lessons for IGCSE Chemistry Math Worksheets A series of free IGCSE Chemistry Activities and Experiments (Cambridge IGCSE Chemistry). For each question, select from the graph the letter A, B, C, D or E that represents the solid described. [ the temperature in celsius ] What axis does this variable go on? Will 100 g of potassium nitrate at 50°C in 100 g of water create a saturated solution? Show Step-by-step Solutions Questions: The solubility curves for potassium nitrate and five solids, A, B, C, D and E, are shown for the temperature range 0 °C to 100 °C. The dependent variable is the temperature. Figure 1: Experiment setupMaterials: Refer to lab sheet.Procedure: Refer to lab sheet.Observations:Volume of water added (mL) Temperature (°C) Solubility (g/100 mL)3.0 mL 82.7°C 1.7 x 102 g/100 mL6.0 mL 61.3°C 8.3 x 101 g/100 mL9.0 mL 42.4°C 5.6 x 101 g/100 mL12.0 mL 31.1°C 4.2 x 101 g/100 mL15.0 mL 25.8°C 3.3 x 101 g/100 mLTable 1: Solubilities for 5.0 g of potassium nitrate and their crystallization temperature with different volumes of water addedAnalysis:1.  $X \text{ g}/100 \text{ mL} = 5.0 \text{ g}/V \rightarrow X \text{ g} = 500/V \text{ g/mL}$   $V = \text{volume in mL}$ ,  $S = \text{solubility}$  For 82.7°C For 61.3°C For 42.4°C For 31.1°C: For 25.8°C: $X = 500/3.0X = 170 \text{ gS} = 1.7 \times 102 \text{ g}/100 \text{ mL} = 500/6.0X = 83 \text{ gS} = 8.3 \times 101 \text{ g}/100 \text{ mL} = 500/9.0X = 56 \text{ gS} = 5.6 \times 101 \text{ g}/100 \text{ mL} = 500/12.0X = 42 \text{ gS} = 4.2 \times 101 \text{ g}/100 \text{ mL} = 500/15.0X = 33 \text{ gS} = 3.3 \times 101 \text{ g}/100 \text{ mL}$  It should fill at least three-fourths of the graph paper. The Y-axis should be labeled appropriately (with units) and have an appropriate range to accommodate the solubility of each solute (Assume all the solutes are dissolved in 100. The independent variable is the amount of water added to the potassium nitrate. 1 y axis Solubility in grams of Solute dissolved in 100 grams of water vs. (Do not fill any data in that is missing, just wait until you answer the questions). [ the number of grams dissolved in 100g of H<sub>2</sub>O ] What axis does this variable go on? The following tips will help you make the best possible graph.- MY Graph]Make the graph LARGE. What is less soluble in 100 g of water at 10°C sodium nitrate or sodium chloride? What mass of Potassium Chromate will dissolve at 50°C in 200 g of water? 6. What temperature is necessary for 65 g of lead nitrate to dissolve in 100 g of water? 5. 3. Answers Show Solutions Try the free Mathway calculator and problem solver below to practice various math topics. Which solid has the lowest solubility at 60 °C? Which solid has a solubility that changes least with temperature? Exercise: Refer to graph to answer the following questions: 1. What is the dependent variable? [ x axis ]2. Please submit your feedback or enquiries via our Feedback page. (Each letter may be used once, more than once or not at all.) 1. (y-axis vs. What is the independent variable? Effects of Temperature on Solubility Saturated solution - When a maximum amount of the solute is dissolved. Try the given examples, or type in your own problem and check your answer with the step-by-step explanations. in 100 g of water at 60°C will 50 g of potassium chloride be saturated or unsaturated? What mass of Sodium Chloride will dissolve at 90°C in 100 g of water? Interpreting Solubility Curves How to read a solubility curve? The mass of potassium nitrate used is a controlled variable. 2. (see bottom of Data table)]Use the graph to extrapolate and/or interpolate numbers for the questions using the data table below. Which solid would be deposited in the greatest mass if a saturated solution in 100 g of water at 100 °C was cooled to 80 °C? 10 g of which substance will dissolve at 90°C in 100 g of water? x-axis]The solubility curve for each compound should be a different color, and make sure to write the compound's formula by the curve on the graph. Unsaturated solution - When less than a maximum amount of the solute is dissolved. Which solid would give a deposit of 20 g if a saturated solution in 100 g of water at 60 °C was cooled to 20 °C? Example: Refer to graph to answer the following questions: 1. We welcome your feedback, comments and questions about this site or page.



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