## 16 Ksp Lab (1241116)

Question

1 2 3 4 5 6 7 8

Description

Solubility Product of Silver Acetate Lab

## Instructions

Purpose: To determine the solubility product of silver acetate. Equipment: one 150 mL beaker, saturated silver acetate solution, one approx 20 cm piece copper wire, balance.

Procedure:

1. Using a clean graduated cylinder, carefully measure 50.0 mL of saturated silver acetate solution and pour it into a clean 150 mL beaker.

2. Obtain a bare copper wire and coil it several times around a medium test tube.

Leave the top portion uncoiled as a handle.

3. Find the mass of the copper coil and record it in the data table. Place the coil into the beaker containing the saturated silver acetate solution. Allow the system to stand overnight so all the silver ions will have an opportunity to react.

4. Shake the silver crystals free from the copper wire into the beaker. Straighten the wire and gently scrape any adhering crystals into the beaker. Dry the copper wire and find its mass.

5. Decant the solution off the silver crystals into the sink and place the silver in a container designated by your instructor so that it can be recycled.

## 1. Question Details

Objective and procedure summary [3413760]

Restate the objective in your own words using complete sentences. Summarize the steps in your procedure. (Be sure and include any safety concerns).

## 2. Question Details

Upload Lab Photo [3413757]

Ksp Lab #1 [1406454]

Upload a photo of the lab apparatus with your face in the photo as you perform some part of the lab. Title the image with a unique file name before you upload it.(Maybe use your initials and part of the lab title) Choose File no file selected It must be less than 5 MB in size.

3. Question Details

Write the balanced net ionic equation for the reaction taking place.

	Question Details Ksp Lab #2 [1406455			
	Enter the mass of the copper wire before the experiment:			
	Calculate the moles of silver which reacted.			
	Using U.UU194 as the accepted value for the Ksp of silver acetate, calculate the percent of error.			
	Question Details Ksp Lab #3 [1406543			
	Why do you think the method employed in this experiment called for using the difference in copper mass rather than the mas of the silver produced?			
	Question Details Ksp Lab #4 [1406544			
	Question Details Ksp Lab #4 [1406544 Which of the following could be a cause of a high positive percent error?			
	Question Details       Ksp Lab #4 [1406544]         Which of the following could be a cause of a high positive percent error?       Mis-measuring the volume of the solution of silver acetate.			
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	Question Details       Ksp Lab #4 [1406544]         Which of the following could be a cause of a high positive percent error?       Mis-measuring the volume of the solution of silver acetate.         Mis-measuring the volume of the copper       Mis-measuring the copper completely after removal from the solution			
	Question Details       Ksp Lab #4 [1406544         Which of the following could be a cause of a high positive percent error?       Mis-measuring the volume of the solution of silver acetate.         Mis-measuring the volume of the copper       Mis-measuring the mass of the copper         Failure to dry the copper completely after removal from the solution         Removing the copper from the solution too soon.			
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	Question Details	AP Ch. 15 Precipitation [2064903]	
	Choose the combinations that will form a preci	ipitate:	
	Ksp of $PbCl_2 = 1.6 \times 10^{-5}$		
	$\Box$ 50.0 mL 0.080 M Pb(NO <sub>3</sub> ) <sub>2</sub> and 100.0 r	ml 0.080 M NaCl	
	100.0 mL 0.070 M Pb(NO <sub>3</sub> ) <sub>2</sub> and 100.0	ml 0.060 M NaCl	
	100.0 mL 0.060 M Pb(NO <sub>3</sub> ) <sub>2</sub> and 100.0	ml 0.060 M NaCl	
	100.0 mL 0.080 M Pb(NO <sub>3</sub> ) <sub>2</sub> and 50.0 r	ml 0.040 M NaCl	
	<ul> <li>50.0 mL 0.060 M Pb(NO<sub>3</sub>)<sub>2</sub> and 100.0 ml 0.040 M NaCl</li> <li>50.0 mL 0.080 M Pb(NO<sub>3</sub>)<sub>2</sub> and 50.0 ml 0.040 M NaCl</li> <li>100.0 mL 0.040 M Pb(NO<sub>3</sub>)<sub>2</sub> and 100.0 ml 0.040 M NaCl</li> <li>100.0 ml 0.080 M Pb(NO<sub>3</sub>)<sub>2</sub> and 100.0 ml 0.080 M NaCl</li> </ul>		
	Question Details	Observations, Skills utilized and learning [3413764]	
	Question Details What observations did you make during the la lab? What did you learn or re-learn? Use comp	Observations, Skills utilized and learning [3413764] b? What chemistry concepts, laws, and/or skills were necessary to complete th plete sentences.	
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Jur Jur Jur Jur Jur Jur Jur Jur Jur Jur	Question Details What observations did you make during the lai lab? What did you learn or re-learn? Use comp  nent Details (AID): 16 Ksp Lab (1241116) ssions Allowed: 5 rry: Homework	Observations, Skills utilized and learning [3413764] b? What chemistry concepts, laws, and/or skills were necessary to complete th olete sentences.           Feedback Settings           Before due date           Question Score           Assignment Score	

Last Saved: **Mar 6, 2016 09:03 PM CST** Permission: **Protected** Randomization: **Person** Which graded: **Last**  Question Score Assignment Score Publish Essay Scores Question Part Score Mark Help/Hints Response Save Work After due date Question Score Assignment Score Publish Essay Scores Key Question Part Score Mark Help/Hints Response