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[Cobalt Chloride Equilibrium Lab Report](#)

Materials:

- Goggles
- Lab apron
- Latex gloves
- Six by four well plate
- White paper
- 12.0 M hydrochloric solution (HCl)
- Distilled Water(H₂O)
- Silver nitrate solution (AgNO₃)
- Cobalt (II) Chloride (CoCl₂)
- A dropper
- Stirring rod
- Test Tube
- Hot plate
- 2 Beakers
- Ice

All steps below were taken with necessary precautions:

- 1) Goggles, lab apron, and latex gloves were obtained as safety precautions.
- 2) Beaker was filled with 100mL of water and set to heat (not boil) on hot plate. Set aside until further notice.
- 3) A six by four well plate was obtained and labeled: Columns, 1-6 and Rows, A-D.
- 4) Well plate was placed on white paper.
- 5) Five drops of the CoCl₂ solution were placed in each of the 24 wells inside the well plate.
- 6) Two drops of hydrochloric acid were put in each well in column 1. For each column after the first one two drops were to exceed that of the previous one. Ex. Column 1 – 2 drops, Column 2- 4 drops, and Column 3 – 6 drops.
- 7) Contents were stirred with the stirring rod, and stirring rod was rinsed.
- 8) An additional drop of HCl was placed on every well in row B.
- 9) Contents were stirred, and stirring rod was rinsed.
- 10) Using the dropper, five drops of H₂O were placed on each well in row C.
- 11) Step 6 was repeated.
- 12) Five drops of AgNO₃ were placed on each well in row D.
- 13) Step 6 was repeated.
- 14) 5 mL of CoCl₂ placed inside test tube.
- 15) HCl was added to test tube until it turned to a purple color.
- 16) Test tube placed inside beaker on hot plate from step 1. It remained until it changed color.
- 17) Hot plate was turned off
- 18) Ice bath was prepared by placing ice cubed in a beaker and adding water.
- 19) Test tube placed in the ice bath. Remained until changed color.
- 20) Chemicals disposed of accordingly.

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by L. Greenspan · Cited by 3887 — uncertainties in the correlated results. Key words: aqueous solution; equilibrium; humidity; relative humidity; salt; saturated salt solution; vapor pressure.

experiment by reading about chemical equilibria and Le Chatelier's Principle (Chapter 15 in your ... equilibrium mixture of Fe³⁺, NCS⁻, and the complex ion FeNCS²⁺ is formed (equation 1) ... Make notes to help you report back to the client on.

cobalt chloride equilibrium lab report

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In this experiment you will form several equilibrium systems. ... When cobalt (II) chloride hexahydrate (CoCl₂ • 6H₂O) is dissolved in ethyl alcohol, three ... choices in the following statements to summarize the answers to Questions #2 and 3. Results 344 - 426 — The results showed that the CoCl₂ supplementation had no effect on cell viability, while the ... An update to the thermochromic cobalt(II) chloride equilibrium ... Describes an experiment involving the product from the reaction The equilibrium is shown below. Le Chatlier's Principle Lab Write-up (February 7,2013 - Lab Date) (February 15, 2013 : ... and COCl₂ (cobalt (II) chloride).

cobalt chloride equilibrium lab report ... If an aqueous solution contains both cobalt(II) and chloride ions, the blue ion CoCl₄ ... For a limited time, find answers Cobalt Complex Ions continued 3 21 lim cientic Inc ll its esere rium for a reversible chemical reaction is expressed intuitively in LeChâtelier's Principle: "If the WORKSHEET 5.7 Solubility equilibrium—calculating ... and the experiment report. ... 2 Using the spatula, add a small amount of cobalt chloride to the crucible. Lab Aids 84 Identification Of Chemical Reactions Kit Answers. For the following lab, ... Chemical equilibrium is a dynamic state. The same chemical ... Heat one scoop of hydrated cobalt chloride in a test tube over a Bunsen burner. Record any ...

... to the Experiment in your lab manual, or in your chemistry textbook, thursday, september 21, ... these have no charge. regents 2009 kinetics equilibrium and thermo. ... PUNALUR CHEMISTRY PROJECT REPORT 2009-2010 Name : Class : Reg. ... such as Carbonate, Silicate, Sulphite, and Vanadate are unique to Cobalt.. This Virtual Lab: Cobalt Chloride and Le Chatelier's Principle Interactive is ... Chemical Equilibrium Lab and Concept Test (take screen shots of answers) Allow the system to reach thermal equilibrium (constant temperature). Use the ... Cobalt Chloride and LeChatelier's Principle. Subject ... Tags: lab report chemistry where C is the concentration of dissolved gas at equilibrium, P is the partial ... and its dissociation into ions results in a much higher solubility than expected for a neutral ... Anhydrous cobalt chloride (upper left) and it's crystal lattice structure (lower left) ... An experiment required 200.0 mL of a 0.330 M solution of Na₂C₂O₄. Organic chemistry is a branch of chemistry that studies the structure, properties and reactions of ... but especially the transition metals zinc, copper, palladium, nickel, cobalt, titanium and chromium. ... decreases with an increase in pka, acyl chloride components with the lowest ... Photochemistry · Equilibrium chemistry. the association of the chloride ions with the cobalt is also influenced by endothermic equilibrium. Page 2. Materials: • Cobalt (II) Chloride Hexahydrate. • 95 ... NO₂ N₂O₄ Gas Equilibrium- LeChatelier's Principle Lab Part 4. Help us caption ... Information for lab report requirements and instructive notes on calculations associated with lab data. 3 months ago ... le chatelier's principle cobalt chloride ... 167bd3b6fa

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