

## Identifying Unknown Solutions Chemistry Lab Report

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### Identifying Unknown Solutions Chemistry Lab

8: Identification of Unknowns (Experiment) Solubility Tests. For these tests, you should use approx. 30 mg of your compound in 1 mL of solution to give you a 3%... Class tests. All class tests must be done in triplicate: known, unknown, and blank. The known gives you a positive test... UNKNOWN ...

### 8: Identification of Unknowns (Experiment) - Chemistry ...

Procedure: Predetermine that Solution F is Copper due to its initial blue coloration. Place each unknown solution in a well plate and place Ph paper. The solution that causes the Paper to turn red is... Place the solution that was found to be Hydrochloric Acid to each solution to find any at all ...

### Identifying Unknown Solutions - Junior Year

One of the most common general chemistry lab experiments, both in advanced high school classes as well as introductory college courses, is the identification of a series of unknown chemicals. As a chemistry tutor in Cambridge, I am well equipped to break it down for you.

### Advice from a Chemistry Tutor: Identifying the Unknown ...

You may use more than one table if you combined solutions together in different ways. 4. Discussion and Conclusion. Identify what your unknown solutions were (claims) and describe the evidence you used to support these claims. You should also use this section to talk about how any questions that you had the beginning of the lab were answered, any

### Identification of Unknown Solutions

Many chemicals involved in this lab are corrosive to metals or skin. Since the unknown could be an acid or a base, make sure to handle all spills with care. Wear gloves, goggles and aprons at all...

### Determining the Identity of an Unknown Solution - Ms. Smith

1. Perform each of the above tests (Parts 1-4) on your unknown solution and record your results. 2. You should be able to identify your unknown solution after comparing the results of your unknown with those of the known solutions. If any ambiguities occur or you are unable to identify your unknown repeat as many of the tests as you find necessary.

### Laboratory 4: Determining the Identity of an Unknown ...

Mystery Solutions Lab - Duration: ... HSC Study Lab: Y12 Chemistry: ... Lab 2: Identification of an Unknown Liquid by Boiling Point and Refractive Index - Duration: ...

### Determining Unknown Solutions

In this experiment, you will combine both spectroscopy and qualitative tests to identify an unknown organic compound. For this experiment, the possible categories of the unknown are alkane, alkene, alkyl halide, alcohol, phenol, amine, aldehyde, ketone, and carboxylic acid.

### Identifying an Unknown Compound by Solubility, Functional ...

You can identify some chemicals that are in an aqueous solution by adding additional chemicals and observing what precipitate forms. For transition metals, we often use sodium hydroxide. So, go...

### How to Identify Chemicals in Solution: Test Methods ...

Purpose: The purpose of this lab is to determine the identity of an unknown liquid by measuring its density, melting point, boiling point, and solubility in both water and alcohol, and then comparing the results to the values for known substances. Procedure: 1) Density determination Obtain a 10mL sample of the unknown liquid using a graduated cylinder Determine the mass of the 10mL sample Save the sample for further use.

### Determination of the Identity of an unknown liquid

To identify the ions in an unknown solution through the application of chemical tests. Time Required 50 minutes for Part A 50 minutes for Part B  
BACKGROUND Objectives • Perform simple chemical tests for common anions and cations in aqueous solutions. • Draw conclusions and make predictions about the ions present in an unknown solution.

### IDENTIFICATION OF ANIONS AND CATIONS IN SOLUTION ...

If no ppt, then you have KCl. To confirm, test the sample for chloride by adding an aqueous solution of AgNO<sub>3</sub>: KCl(aq) + AgNO<sub>3</sub>(aq) -> AgCl(s) + KNO<sub>3</sub>(aq) To further confirm, perform a flame test with the unknown. Dissolve a sample in water, dip a Q-tip in the solution, place into the flame of a bunsen burner.

### Identify Unknown Solutions | Wyzant Ask An Expert

Identifying unknown substances is an important skill for forensic scientist, environmentalists, doctors and health workers. Fish dying in a lake, an ill child or a suspicious death all lead to investigations on the cause. Reactions between specific chemicals are unique and can be used to identify various elements and compounds.

### Identification of Unknown Anions in Solution

Students may react the unknown solutions with various metals and use an activity series to try to identify the metal cation in the unknown solutions. 6. Lab safety equipment should be used, and safety protocols followed. Goggles should be worn at all times.

### CHEMISTRY NOW: Mystery Solution Identification (Grades 9-12)

If they collect an unknown substance they can perform a series of test in the lab that can help them identify what the substance was. By determining the identity of the substance, they are adding another piece to solving a crime. Another example would be NASA trying to identify a substance on the moon or on another planet.

### Project 1 Lab Report - Grade: A - USF - StuDocu

It's usually not used to identify an unknown substance, but to figure out the long-range structures of known materials. If you have a protein and want to know how it folds, or if you want to know what the structure of a crystal is, this will do the job.

### Identifying Unknown Substances | The Cavalcade o' Chemistry

Identifying Unknown Solutions In this activity you will use a simulation of conductivity measurements and a simulation of a pH meter to identify solutions. The solutions you will observe: strong acids, strong bases, weak acids, weak bases and salts (neutral, acidic or basic). Part I - The

Conductivity Simulation Choose a solution.

### **Identifying Unknown Solutions - CCSF Home Page**

HSC Study Lab: Y12 Chemistry: Testing for ions and determining ions in unknown samples HSC Study Lab. ... Identifying unknown organic compounds: solubility, functional group and spectra tests.

### **HSC Study Lab: Y12 Chemistry: Testing for ions and determining ions in unknown samples**

Qualitative analysis is used to identify and separate cations and anions in a sample substance. Unlike quantitative analysis, which seeks to determine the quantity or amount of sample, qualitative analysis is a descriptive form of analysis. In an educational setting, the concentrations of the ions to be identified are approximately 0.01 M in an aqueous solution.

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