

Paramagnetic Transition Metal Ions

Electron Configuration

Introduction

Several transition metal salts are affected by a strong magnet. Students are generally familiar with the fact that metallic iron is magnetic, but the science behind this observation is not necessarily understood. Paramagnetic salts generally contain transition metal ions that have at least one unpaired electron in their electron configuration. In this demonstration, a neodymium magnet is used to deflect small v-shaped chambers, containing paramagnetic transition metal salts.

Concepts

- Paramagnetism
- Diamagnetism
- Electron configuration
- Orbitals

Materials

Calcium sulfate, $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$, 4 g
Copper(II) sulfate, $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$, 4 g
Manganese(II) sulfate, $\text{MnSO}_4 \cdot \text{H}_2\text{O}$, 4 g
Zinc sulfate, $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$, 4 g
Dowel rod with hooks, 2
Ion Identification Card Sheet
Mega magnet

Pipet elbows, 4
Pipets, plastic, 8
Ring stand
Scissors
Thread, 6-in., 4
Utility clamps, 2
Wetco® dots, 4 sets

Safety Precautions

Copper(II) sulfate is a skin and respiratory irritant and is moderately toxic by ingestion and inhalation. Manganese(II) sulfate is a body tissue irritant. Zinc sulfate is an irritant and is slightly toxic. Wear chemical splash goggles, chemical-resistant gloves, and a chemical-resistant apron. Please review current Material Safety Data Sheets for additional safety, handling, and disposal information. Wash hands thoroughly with soap and water before leaving the laboratory.

Preparation

1. Use scissors to cut the stems of two pipets 1" from the tip of the pipet. The pipets should fit snugly around the pipet elbow (see Figure 1).
2. Fill each bulb of the two pipets with 2 g of copper(II) sulfate, CuSO_4 .
3. Slip the filled pipet stems over the plastic elbow (see Figure 2).
4. Repeat steps 1–3 using manganese(II) sulfate, $\text{MnSO}_4 \cdot \text{H}_2\text{O}$, zinc sulfate, ZnSO_4 , and calcium sulfate, CaSO_4 .
5. Cut four six-inch pieces of thread. Tie a piece of thread around the elbow of each pipet assembly.
6. Clamp the dowel rods to the utility clamps (see Figure 3).
7. Attach the utility clamps (with dowel rods) to the ring stand (see Figure 4).



Figure 1.

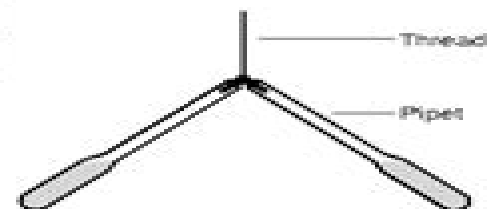


Figure 2.

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