

Chemistry Lab Report

Hydrate Analysis:

1. An analytical balance is placed on the lab counter.
2. A crucible is placed inside the analytical balance and the balance is zeroed.
3. 2.4406 grams of metal hydrate is scooped into the crucible that is on the analytical balance.
4. The top of the crucible is placed on it to prevent substances from flying out or getting in.
5. A burner is set up underneath the crucible.
6. The crucible is heated for 10 minutes.
7. The crucible is placed into a desiccator (the desiccator has materials in the bottom that will prevent any water from being picked up by the hydrate).
8. The desiccator is closed with the crucible inside.
9. The crucible is let alone to cool for 10 minutes.
10. The crucible is placed on the analytical balance.
11. The weight is read and recorded below.

Paper Chromatography:

1. A cylindrical porous paper is placed into a beaker with a solution of butanol, water, and acetic acid.
2. The beaker is covered with aluminum foil.
3. The paper is left inside the beaker with solution for approximately 1 hour. This allows the mobile phase to climb the stationary phase, moving each of the samples up the paper.
4. The distance the samples travel is then measured from the starting line to the ending point.
5. The distance is recorded below.
6. The paper is allowed to dry.
7. The paper is sprayed with Ninhydrin reacts with amino acids.
8. Each spot where there is a reaction is marked.
9. The distance is measured and recorded.
10. The R_F values are calculated and recorded.

Elemental Analysis of an Alloy (SEM/EDX):

1. A sample is applied to carbon adhesive tape.
2. Sputter coat chamber (process of covering the specimen with at in but sporadic layer of conducting material to make the specimen conductive and to prevent charging of the specimen by the electron beam). Carbon coatings are often used.
3. The sample on the pad is placed in the sputter coat chamber.
4. Sputter coated samples are removed from the chamber.
5. Carbon rods are mounted in the sputter coat chamber.
6. A vacuum is created in the sputter coat chamber.
7. Create a vacuum in SEM/EDX

Lab Report Learning Guides

JG Myers



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