

- I. Experiment Title : Analysis of Cations and Anions
- II. Experiment Date : October 18th, 2014 at 07.00 am
- III. End of The Experiment : October 18th, 2014 at 10.40 am
- IV. Experiment Purpose :
 - 1. To determine the cation which can be found in the analite
 - 2. To determine the anion which can be found in the analite

V. Basic Theory

A. Qualitative Analysis

Chemical analysis can be divided into two categories; qualitative analysis – what is present and quantitative analysis – how much is present. Qualitative analysis involves the detection of elements that are found in an organic compound. Qualitative analysis can only detect the presence of elements in the compound but cannot determine the percentage or amount of them in the compound. For example; carbon and hydrogen are detected with the help of Liebig's method. Some other common elements which can be determined are oxygen, halogen, sulphur, nitrogen, halogens, sulphur and phosphorus.

Qualitative analysis is a type of chemical analysis which is used to separate and detect cation and anions in a sample substance. The chemical properties of an unknown substance are determined in the qualitative analysis procedure by the reaction between the unknown substance and suitable reagents. The qualitative analysis is used for the identification of a simple salt or the identification of various cations present in a solution.

B. Cations

Cations are divided into five groups. A specific reagent for each group is used for their separation from the solution. This separation is done in a particular sequence because some ions of prior groups can also react with the reagent of later groups.

This can be cause of difficulty in their separation. The qualitative analysis of cations depends on the solubility products of the ions. The

Separation And Analysis Of Cations Practical Report

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