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Experiment - 3

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Objective Analysis of given inorganic mixture for the identification of Acidic radicals

Requirement:- Inorganic mixture, Concentrated H_2SO_4 , dil H_2SO_4 and other reagent.

Apparatus Test tube, test tube holder, measuring flask, graduated pipette, burner, test tube stand etc.

Procedure

Group 1: Test with dilute H_2SO_4 Preliminary Test:-

Experiment

Take a small amount of mixture in a dry test tube and add 2 ml of dil H_2SO_4

Observation
Small of vinegar

Inference

CH_3COO^-
(Acetate)
may be present

Confirmatory Test

1) Add Few drops of neutral $FeCl_3$ sol. into the aqueous extract of mixture. Blood red colour is obtained

CH_3COO^-
confirmed

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- 2) Rub a small amount of the mixture with oxalic Acid and Few drop of water glass small of vinegar

CH_3COO^-
confirmed

Group II: Test with concentrated H_2SO_4

Preliminary Test

- 1) Place a small amount of inorganic mixture and add 2 ml of conc. H_2SO_4

Confirmatory Test

- 1) Add nitric into the mixture dissolve in conc. H_2SO_4 the evolution brown fumes interest

Evolution of light brown fumes having pungent smell

NO_3^- (Nitrate) may be present

NO_3^-
confirmed

Result The given in-organic mixture contains CH_3COO^- And NO_3^- radicals.

butika

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