

Exercise - To identify the functional group in given organic sample.

Experiment

Observation

Inference

1.

Litmus Test

Sample + Blue Litmus Solution.

Blue litmus change to red.

-COOH group is present.

2.

Esterification Test-

Org. sample + 2ml of ethanol + 2-3 drops of conc.  $H_2SO_4$ , warm the solution & pour the solution in water.

Fruity smell is observed.

-COOH group Confirmed.

3.

Sodium bicarbonate test -

Org. sample +  $NaHCO_3$

Brisk effervescence of  $CO_2$  evolved.

-COOH group Confirmed.

Result - The given organic sample is containing carboxylic acid.