

EXPERIMENT NUMBER : 9 ✓

TEST FOR CARBOXYLIC ACID GROUP.

EXPERIMENT	OBSERVATION	INFERENCE.
1. <u>LITMUS TEST:</u> Dip the blue litmus paper into the organic compound	Blue litmus changes to red.	Carboxylic acid group is present.
2. <u>NaHCO₃ TEST:</u> To the aqueous solution of the organic compound, add a little NaHCO ₃ powder.	Brisk effervescence of a colourless, odourless gas which can turn limewater milky.	Carboxylic acid group is present.
3. <u>ESTER FORMATION TEST:</u> To 1ml of the organic compound in a clean dry test tube, add 1ml of ethanol and 2 drops of conc. H ₂ SO ₄ . Warm the mixture in a water bath for 10-15 minutes. Cool and pour the contents to an aqueous solution of Na ₂ CO ₃ in a beaker. Smell it.	Pleasant fruity smell due to the presence of an ester.	Carboxylic acid group is present.

→ RESULT: The given compound contains carboxylic acid group.

20/10/17