

### EXPERIMENT No.13

**AIM:** To test the presence of carboxylic acid group in the given organic compound.

**PROCEDURE:**

S.No	EXPERIMENT	OBSERVATION	INFERENCE
1	<u>LITMUS TEST</u> Organic compound + blue litmus	Blue litmus turns red	Carboxylic acid may be present.
2	<u>SODIUM BICARBONATE TEST</u> Organic compound + aq. NaHCO <sub>3</sub>	Brisk effervescence is obtained.	Carboxylic acid group present.
3	<u>ESTER TEST</u> Organic compound + few drops of alcohol + 2-3 drops of conc. H <sub>2</sub> SO <sub>4</sub> + heat on a water bath. Cool the contents and pour them into cold water.	A fruity smell is obtained.	Carboxylic acid group present.

**EQUATIONS: (ON BLANK SIDE USING A PENCIL)**



**RESULT: : (ON RULED SIDE)** Carboxylic acid present in the given organic compound.