Class X

EXPERIMENT No: 1

AIM: To sturdy the following properties of Acetic Acid ethanoic acid:

    i.   Odour

    ii.   Solubility in water

    iii.   Effect on litmus (blue)

    iv.   Effect on litmus (red)

Materials Required : 5% acid (Acetic acid), sodium hydrogen carbonate (solid), blue, & red litmus paper strips, distilled water, two beaker (100 ml), Four test tubes with stand, a dropper, lime water & passing tube.

Procedure : Study the pretties of acetic acid (according to the following table.

Sr. No.	Experiment		ObservationInference
1.	**Odour :** Smell the sample of acetic acid carefully taken in a test tube.	It smells like vinegar	Acetic acid has vinegar
2.	**Solubility :** a. Add 1 ml of the given sample of acetic acid in 2 ml of water.	Acetic acid dissolves in water	Acetic acid is soluble in in water
	b. Add more acetic acid in the above test tube	It also dissolves	Acetic acid is soluble in water in all proportions.
3.	**Effect on litmus :** With the help of dropper of acetic acid on (i) blue and (ii) red litmus paper	Only blue litmus paper turn red. Red litmus gives no colour change	Acetic acid is acidic in nature.
4.	**Reaction with sodium hydrogen Carbonate :** a. Take 1 ml of the acetic acid and add to it a pinch of sodium hydrogen. Carbonate	A brisk effervescence produces with a clourless gas	Acetic acid produce CO2 gas with sodium hydrogen carbonate.

b. Pass CO_2 gas in Lime water.	Lime water turns milky.	Milky colour of lime water is insoluble in calcium carbonate.

Result :

Acetic acid (ethanoicatid) has following properties :

a.   It has vemigar like smell.

b.   It is highly soluble in water

c.   It turns blue litmus to red.

d.   It produces CO_2 gas with sodium hydrogen.

Precautions :

1.   Handle ethanoic acid very car fully.

2.   Small mount of sodium hydrogen carbonate should be added in smell mouth of acetic acid to contemp intensity of CO_2 evolution.