## **Experiment no.1:**

## Preparation of approximately 0.1N HCl( hydrochloric acid) Solution 250 mL

## Theory:

HCl is not primary standard substance because HCl gas is vaporized during opening the bottle

## Procedure •

1- By using this rule:

 $\frac{N_{HCl} = sp.gr \times \% \times 1000}{eq.mass_{HCl}}$ 

We can determine the concentration(N) of HCl in the bottle

2- By using the diluting rule:

 $N_1V_1 = N_2V_2$ 

We can determine the volume of HCl required for preparation  $\cong 0.1$  N HCl solution.