

Trial 3

Mass of flask = 108.245g

Volume Vinegar = 10 ml

M.F + Vinegar = 118.414g

Mass Vinegar = 10.169g

Density of Vinegar =

$$\frac{10.169g}{10ml} = 1.0169 \text{ g/ml}$$

 $V_i = 0 \text{ ml}$  $V_f = 14.9 \text{ ml}$  $V_T = 14.9 \text{ ml} \Rightarrow V_T = 0.0149$ 

3 Drops of phenolphthalein

Molarity of NaOH = 0.5343 mol/L

Moles of NaOH =

0.00796107 moles