

## Testing Ethanoic acid

1. **Odour:** Smell the distillate by carefully wafting some of the vapour towards your nose. Compare its smell to that of ethanol, and record your observations in a table of data copied into your practical report book from the table below.
  2. **Test with universal indicator paper:** Dip some universal indicator paper in the distillate and record your observations.
  3. **Test with magnesium:** Coil the 5 cm clean strip of magnesium loosely, drop it into one of the test tubes, and swirl. Record your observations.
  4. **Test with sodium carbonate** Add 1 g of anhydrous sodium carbonate powder into the second test tube, and swirl. Record your observations.
  5. **Esterification**
    - (i) With care add 2 drops of concentrated sulfuric acid to the third test tube.
    - (ii) Add 1 cm<sup>3</sup> of ethanol and warm gently. Carefully smell the reaction product. Record your observations.
- 6. Testing with NaOH .** Fill a test tube 1/4 full with CH<sub>3</sub>COOH and add 3 drops of universal indicator . Using a dropper add NaOH drop by drop until the solution changes colour.

<u>Test</u>	<u>Observation</u>	<u>Deduction using an equation where possible</u>
Odour		
Universal indicator paper		
Magnesium strip		
Anhydrous sodium carbonate		
Ethanol with concentrated sulfuric acid		
NaOH		