

## 5. Preparation of ethanal & distillation from reaction mixture

### (a) Oxidation (partial)

Alcohol +  $H_2SO_4$  +  $K_2Cr_2O_7$   
 Salt lumps granules - prevent vigorous boiling

(Gloves for safety)

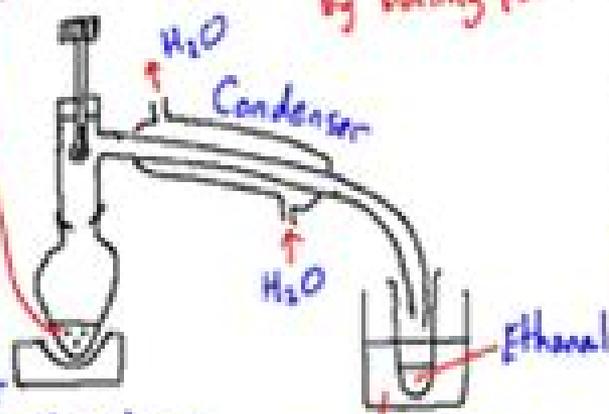
Hot plate or water bath at  $\sim 60^\circ C$  **Not a Bunsen burner.**

safer - flammable alcohol  
 Easier to control the temp.



### (b) distillation

Immediately separates by boiling point



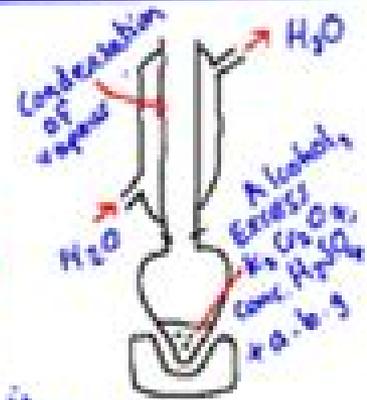
Cold water bath - prevent the ethanal from evaporating (minimise loss)

Organic liquid	BP / $^\circ C$	Strongest intermolecular force
Ethanal	21	dipole-dipole
Ethanol	78	hydrogen bonding
Ethanoic acid	118	H-bonding $\leftrightarrow$ 2 H-bonds per molecule i.e. dimer

Notes: Do not reflux.  $\therefore$  Full oxidation to carboxylic acid.

Reflux lets you heat to the BP of reactants for a prolonged time.

Vapour that escapes is turned back into a liquid in the vertical condenser & is oxidised



### (c) Testing the distillate (proving ethanal formation)

$AgNO_3 + NaOH + \text{dilute } NH_3$  make Tollens'



Silver mirror

\* Hot water bath to warm solution (no flame)

\* dilute with water & neutralise with dil.  $H_2SO_4$  to dispose chemicals

# Level Chemistry Paper 5 Practical Notes

**Terry C. Jones**



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