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MATRIC NO: 19/MHS01/260

Assignment.

1) CH_3OCH_3 – Methoxymethane

$\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_3$ - Ethoxyethane

$(\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2)_2\text{O}$ - Butoxymethane

$\text{CH}_3\text{CH}_2\text{OCH}_3$ - Methoxyethane

$\text{CH}_3\text{CH}_2\text{CH}_2\text{OCH}_2\text{CH}_3$ - Ethoxypropane

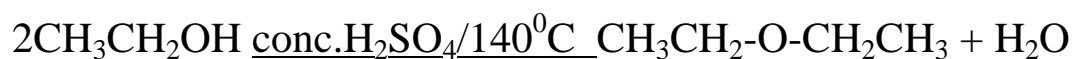
2) Properties of Ethers:

- At room temperature, ethers are colourless and have pleasant aromas.
- Ethers are less soluble in water than corresponding alcohols.
- Ethers are less dense than water.
- Ethers are inert at moderate temperature.

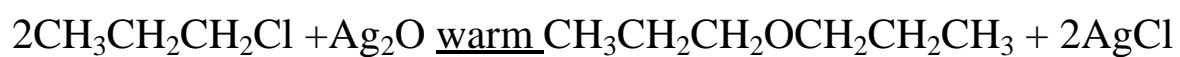
3) Preparation of ethers:

- Partial Dehydration of alcohols-

The alcohol in excess and conc. Tetraoxosulphate (vi) acid is heated at a carefully maintained temperature of 140°C . This process is known as continuous etherification.



- From Haloalkanes and dry silver (i) oxide



4) Uses of ethylene oxide:

- Used in making fumigants and pesticides
- Used in sterilizing agents for medical equipment
- Used in making antifreeze, adhesives, polyester etc.