

Ekwueme EBUKA Valentine

161 Eng 021 014

Computer Engineering

CHM 102

Ethers

1) CH_3OCH_3

Methoxy methane

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

Butoxy butane

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

Propoxy ethane

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

Ethoxy ethane

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

Ethoxy methane

2) - At room temperature ethers are colorless, odorless

pleasant-smelling

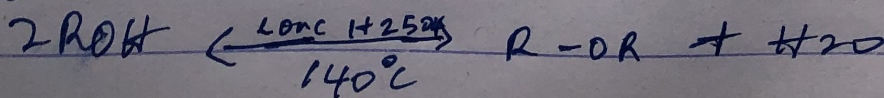
- they are less soluble than their corresponding alcohols

- they are less dense than water

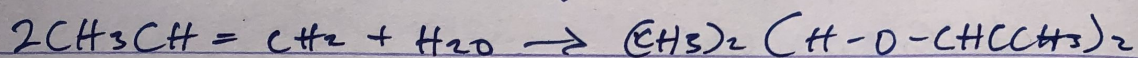
- they are inert at moderate temperatures

- lower boiling points than corresponding alcohols

3) i) By the catalytic dehydration of alcohol



2) Controlled catalytic hydration of olefins



4) i) Ethylene oxide is used as a gaseous sterilizing agent.

ii) Ethylene oxide is used as an intermediate in the hydrolytic manufacture of ethylene