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MBBS

1) a) CH_3OCH_3 - Methoxymethane
b) $CH_3CH_2OCH_2CH_3$ - Ethoxyethane
c) $(CH_3CH_2CH_2CH_2)_2O$ - Butoxymethane
d) $CH_3CH_2OCH_3$ - Methoxyethane
e) $CH_3CH_2CH_2OCH_2CH_3$ - Ethoxypropane.

2. - Physical States: Ethers are neutral, colourless liquids with pleasant odour at room temperature. The low aliphatic ethers are highly flammable gases or volatile liquids.
- Solubility: Ethers are less soluble in water than the corresponding alcohols.
- Density: Most of the simple ethers are less dense than water, although the density increases with increasing relative molecular mass and some of the aromatic ethers are in fact denser than water.
- Reactivity: Ethers are inert at moderate temperature. Their inertness at moderate temperatures lead to their wide use as a reaction media.
- Boiling point: Low molecular mass ethers have a lower

boiling point than the corresponding alcohols but these ethers containing alkyl radicals larger than four carbon atoms, the reverse is true.