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DEPARTMENT: Medicine and Surgery

1. CH3OCH3 – Methoxymethane CH3CH2OCH2CH3- Ethoxyethane

(CH3CH2CH2CH2)2O- Butoxymethane CH3CH2OCH3- Methoxyethane

CH3CH2CH2OCH2CH3- Ethoxypropane

1. a. ethers are colourless, neutral liquids with pleasant odours

b. ethers are less soluble in water than are the corresponding alcohols.

c. most of the simple ethers are less dense than water

d. low molecular mass ethers have a lower boiling point than the corresponding alcohols but those ethers containing alkyl radicals larger than four carbon atoms, the reverse is true.

e. ethers are inert at moderate temperature.

3. a. Controlled catalytic hydration of olefins:

 2CH3CH=CH2 + H2O (CH3)2CH-O-CH(CH3)2

b. From Haloalkanes and dry silver(I)oxide:

 2RX + Ag2O R-O-X + 2AgX

4. a. Used as an intermediate in the production of several industrial chemicals.

 b. Used as a fumigant in certain agricultural product.

 c. Used as a sterilant for medical equipment and supplies.