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19/ENG06/033 CHM 102
MECHANICAL ENGINEERING

1i. Primary alkanols/alcohols: are those alcohols where the carbon atom of the hydroxyl group (OH) is attached to only one single alkyl group. e.g Ethanol, Butanol

ii. Secondary alkanols/alcohols: are those where the carbon atom of the hydroxyl group is attached to two alkyl groups on either side. e.g propan-2-ol, butan-2-ol

2 $CH_3CH_2CH_2CH_2C{=}OCH_2CH_2CH_3$

Sol

$CH_3CH_2CH_2MgCl + CH_3CH_2CH_2CH_2C = OCH_2CH_2$

Propyl Magnesium Chloride

4-Octanone

Octan-4one

$CH_3CH_2CH_2MgCl + CH_3CH_2CH_2CH_2C = OCH_2CH_2CH_3$

$CH_2CH_2CH_3$

dim ethyl ethene

3. Carbohydrates such as starch one major group of natural components that can be made to yield ethanol by the biological process. The biological catalyst enzyme found in yeast breakdown the carbohydrate molecule into ethanol to give a yield it is to the starch containing materials include molasses, Potatoes. and cereals and on warming with malt to 60°C for a specific period of time are converted to maltose by the enzyme diastase contained in malt.

$$2(C_6H_{10}O_5)_n + nH_2O \xrightarrow[\text{diastase}]{60^\circ} nC_{12}H_{22}O_{11}$$

Carbohydrate maltose