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13 April 2020 at 10:25 PM

Ajibola Taofeek Oluwatoba 19/mhs11/022 Pharmacy

CH3OH ---> methanol

(monohydric)

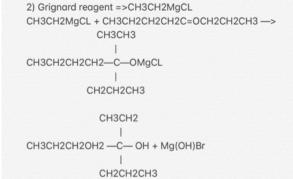
diol(dihydric)

CH3CH(OH)CH3 ---->propan-2-ol

a)
Classification based on the number of atoms attached to the carbon atoms concerning the hydroxyl group: if the number of hydrogen atoms attached to the carbon atoms bearing the hydroxyl group are two or three they are called the primary alcohol. If there is one, it's called the secondary alcohol and if there is non it is called the tertiary alcohol. Eg

b)
Classification based on the the number of hydroxyl groups they possess. Monohydric alcohols have one hydroxyl group present in its alcohol structure, dihydric alcohols have two present and trihydric have three present.Eg
CH3CH2CH2OH —> propanol

HOCH2CH2OH -> Ethan-1,2-



3). Manufacturing ethanol Carbohydrates can be made to yield ethanol by fermentation.

The enzymes found in yeast break down the carbohydrates into ethanol to give a yield. The starch containing materials are warmed with malt to 60°C and are converted into maltose by

-> C12H22O11

Maltose is broken down into glucose by addition of yeast which contains

The glucose at constant temperature of 15°C is then converted to alcohol

Maltose

<u>Diastase</u>

2(C6H10O5)n + nH2O -

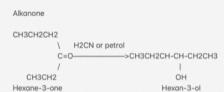
by the enzyme zymase.

enzymes.

which contains the enzyme Maltase at 15°C. $\label{eq:Maltase} \text{Maltose}$

60°C

Zymase C6H12O6 ——>2CH3CH2OH + 2CO2 (Glucose) (Ethanol)



4). Using Meerwein-Ponndorf's reaction:

