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**COLLEGE - MHS**

**DEPARTMENT - PHARMACY**

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**COURSE CODE - CHEM 102**

1. Alcohol are classified into two

A. Based on the number of hydrogen atoms attached to the carbon atom containing the hydroxyl group. If the number of hydrogen atoms attached to the carbon atoms containing the hydroxyl group are 3 or 2 it is called a primary alcohol If it is 1 hydrogen atom aresolubleinwaterbecausetheycanformhydrogenbonwith watermolecules.AllMonohydricalcoholsaresolubleinOrganic solvents.

3.IndustrialManufactureofEthanol

Starchcontainingfoodscanbemadetoyieldethanolthrougha biologicalprocesscalledfermentation

A.theethanolcontainingmaterialiswrmedwithmaltto60.Cfora periodoftime.Thisconvertsitintomaltosebytheenzyme diastosecontainedinthemalt.

2(C6H10O5)n+nH20DiatosenC6H12011

Carbohydrate 60.CMaltose

B.Themaltoseisbrokendownintoglucosewhenyeastisadded whichcontainsenzymemaltoseat15.C C6H22O11+H20Maltase2C6H12O6

Maltose 16CGlucose

C.Theglucoseat15.Cisconvertedintoalcoholbyenzyme zymasecontainedinyeast.

C6H12O6 Zymase2CH3H2OH+2CO2

Glucose 15CEthanol Carbondioxide



