

ATEMIE - HART KEVIA

MBBS

CHEM 102

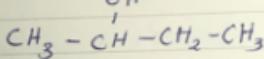
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1) The two major classifications of alkanols are primary and secondary alkanols.

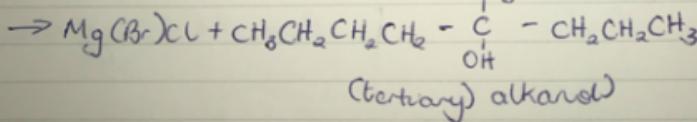
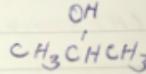
Secondary alcohols  
 ii) Primary alcohols: It is that which has the hydroxyl group connected to a primary carbon atom. It can be denoted as  $^1\text{°}$  alcohol.  
 Its general formula is  $\text{C}_n\text{H}_{2n+1}\text{OH}$ .  
 Eg. methanol      ethanol  $(\text{CH}_3\text{CH}_2\text{OH})$ , butanol  $(\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3)$

i) Secondary alkanoic acids: It is that which the carbon with one -OH group attached is joined directly to two alkyl groups which may be the same or different. It can also be denoted as 2° alkanoic acid. Its general formula is  $\text{C}_n\text{H}_{2n-2}\text{O}_2$

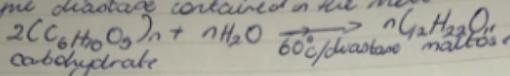
E.g butan-2-ol



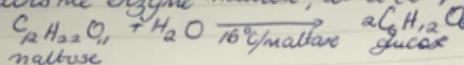
propan-2-ol



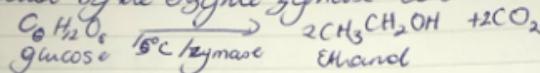
3. The starch containing materials by warming with melt to  $60^{\circ}\text{C}$  for a specific period of time are converted into maltose by the enzyme diastase contained in the melt.



The maltose is broken down into glucose on addition of yeast which contains the enzyme maltase, at a temperature of  $15^{\circ}\text{C}$

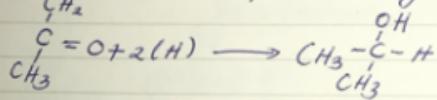


The glucose at constant temperature of  $15^{\circ}\text{C}$  is then converted into alcohol by the enzyme zymase contained also in yeast.



#### 4) The Reduction of a ketone

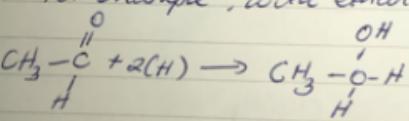
For example, with propanone you get propan-2-ol:



*Handwritten note: Product (Secondary alcohol)*

#### The Reduction of an aldehyde

For example, with ethanol you get ethanol



*Handwritten note: Product (Primary alcohol)*