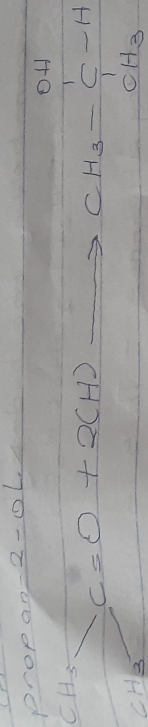


To read

Answer

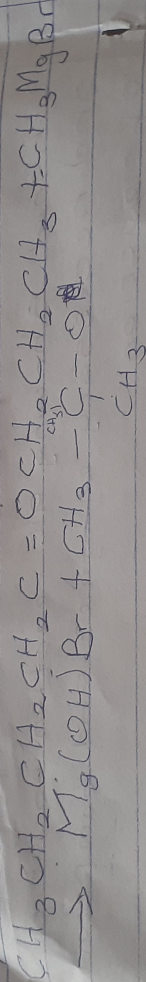
In the reduction of an aldehyde or ketone, we get an ethanal
 $C_2H_5 - C(=O) - H + 2[H] \rightarrow C_2H_5 - CH_2 - OH$

In the reduction of an alkanone, we get



In the Grignard Synthesis of alkanols react a named Grignard reagent with $CH_3CH_2CH_2CH_2C(=O)CH_3$ show the reaction

Answer



Name: Afolabi Fiyinfolowa Precious
Matriatric No: 19/Amhs09/005
Department: Dentistry
course: chm 102

1) Discuss the two major classification of Alkanol Give two examples each for each class

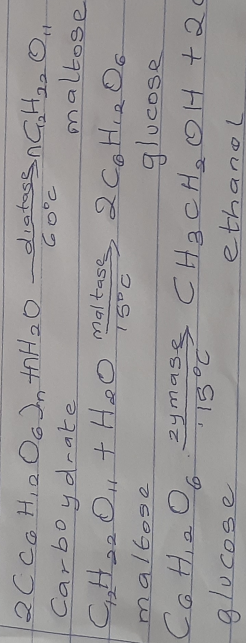
Ans

Primary alkanols: This is when the number of hydrogen atoms that is being attached to the carbon holding the hydroxyl group is two or three e.g. CH_3CH_2OH , CH_3OH

Secondary alkanols: This is when the number of hydrogen atoms that is being attached to the carbon holding the hydroxyl group are one e.g. $CH_3CH(OH)CH_3$, $CH_3CH_2CH(OH)CH_3$

2) Discuss the industrial manufacture of ethanol showing all reaction equations and necessary enzymes and temperature of reaction

Answer



3) Determine the product obtained in the reduction of Alkanone and Alkanol. Use a specific example for each and show the equation of reaction