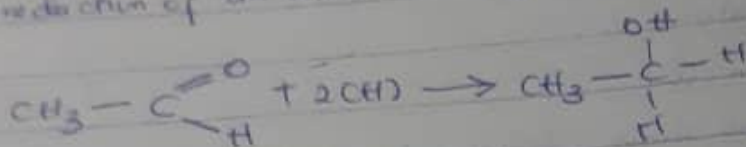
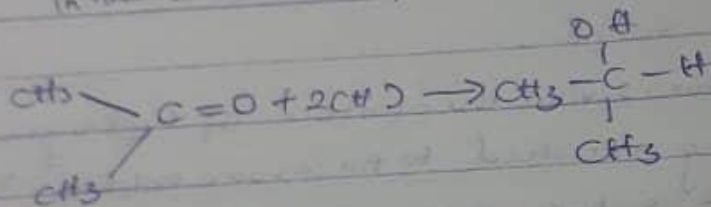


solution

In the reduction of an aldehyde we get an alcohol.

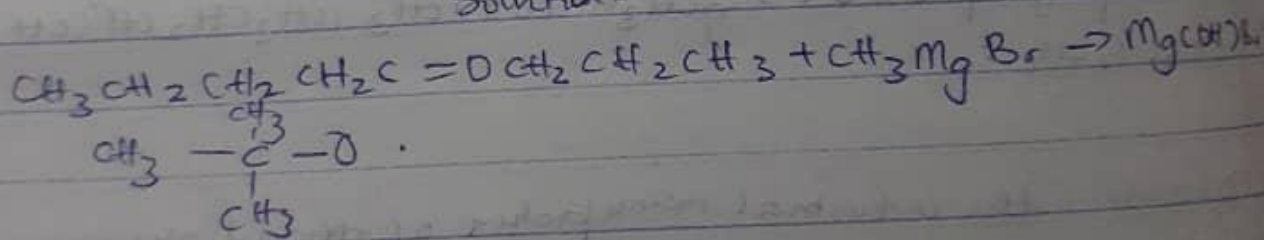


In the reduction of an alkanone we get propan-2-ol



Q) In the grignard synthesis of alcohols react a named grignard reagent with $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{C}=\text{OCH}_2\text{CH}_2\text{CH}_3$ show the reaction.

Solution -



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Course: Chem 102

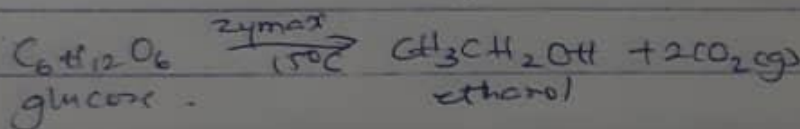
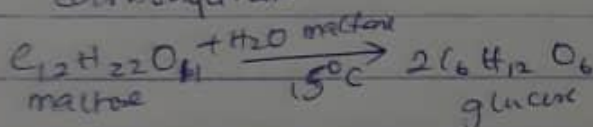
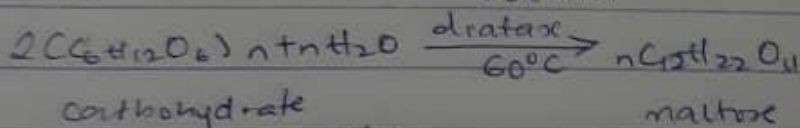
- 1) Discuss the two major classification of Alcohols Give two examples each for each class

Solution

- 1) Primary alcohols: This is when the number of hydrogen atoms that is being attached to the carbon holding the hydroxyl group as two or three e.g. C_2H_5OH , C_3H_7OH
- 2) secondary alcohols: This is when the number of hydrogen atoms that is being attached to the carbon holding the hydroxyl group as one e.g. $(CH_3)_2CH(OH)CH_3$, $CH_3CH_2CH(OH)CH_3$, $CH_3CH_2CH_2OH$.
2. Discuss the industrial manufacture of ethanol showing all reaction equations and necessary enzymes and temperature of reaction

→ A

Solution:



3. Determine the product obtained in the reduction of aldehyde and ketone. Use a specific example for each and show the equation of reaction.