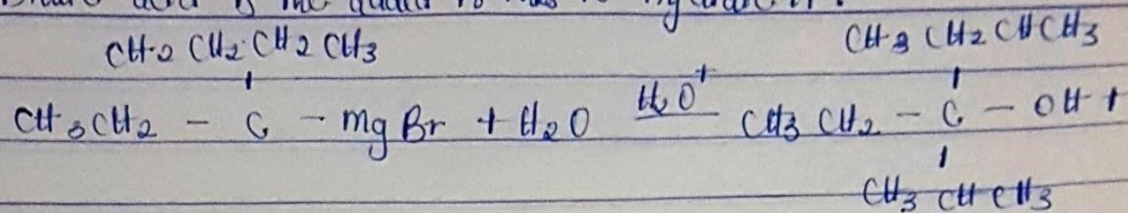


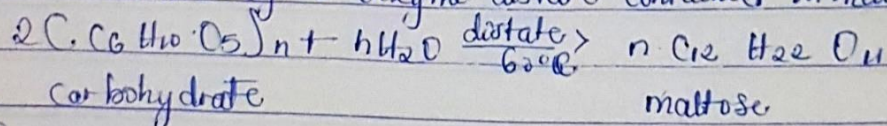
Dilute acid is then added to this to hydrate it.



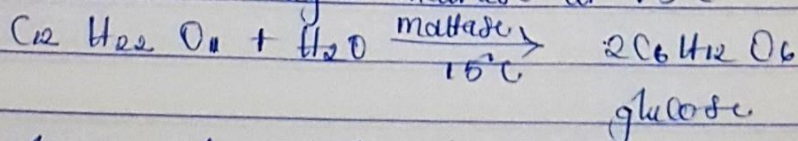
$\text{Mg}(\text{OH})\text{Br}$

3 Discuss the industrial manufacture of ethanol showing all reactions equation and necessary enzymes and temperature of reaction.

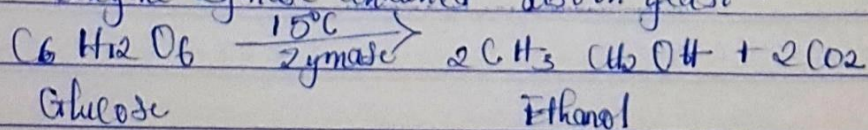
Firstly the starch containing materials e.g. potatoes are warmed with malt to 60°C for a specific time. The starch is converted into maltose by the enzyme diastase contained in malt.



The maltose is broken down into glucose on addition of yeast which contains the enzyme maltase at 15°C.



The glucose at constant 15°C is then converted into alcohol by the enzyme zymase contained also in yeast.



4 Reduction of alkane

