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CHM 102 AGIGNMENT Classification of Alcohols. There are two major ways of classifying alcohols. 37 This type of classification is based on the number of hydrogen atom attached to the carbon atom containing the hydroxyl group . This clavification divides alcohols into three! · Primary alcohols ! Alkamols Alcohols in which There are two or three hydrogen cotons attached to the carbon carrying the hydroxyl grap E.g. CHOOH (method) · Secondary alahols! Ato Alabob in which there are is only one hydrogen atom attached to the carbon carrying the hydroxyl group eg CH3CH(OH)CH3 . Tetlany alcohols: Alcohols in which three there are no hydrogen cotoms attached to the carbon bearing the hydroxy I group. e.g (CHS)3C-OH. =7 The second type of classification is based on the hydroxyl groups present in The the alcohol powerser. This classification divides alabols into three four. · Monohydicalcohols! Alcohol Alcohols which have an hydroxyl group present in their akohol structure eg CH3CH2CH2OH. . Dihydra a kohok! Alcohols which have two hydroxy I groups present in their a cohol shuture eg HOCHSCHOH . Trihydric alcohols! Aluehols which have three hydroxyl group proved in their allahol structure. e.g. OHCHOCHO (OH) CHOOH.

. Polyhydic alcoholi: Alcohor which have more than wee hydronyl groups to their alcohol structure They are a ko reffered to as polyola es.

CH3 CH (OH) CH (OH) CH(OH) CH( Solubility of Alwholi! lower alcohols with up to three carbon atoms in their molecular are soluble in water because these lower alcohole can form hydrogen Lond with water polecules. The water solubility decreases with increasing relative molecular man. All monthy die alcohols are voluble in organic volvent. The volubility of simple alabols and polyhydric alcohols is knyely due to their ability to form hydrogen bonds with water molecules. 3 Industrial manufacture of ethanol. Generally, storchy foods such as rice, maize or partly are used as a source of starch. Potato among the lot & the most common. a) . Extraction of the start ! The potato is srushed and then, steamed at 1400°C to 1500°C under pressure to pepare starch solution known as mash. Before hydrolysis, storch undergoes germination at 100°c to 130°C. for a few days. This yerminated starch is called matt . b) Hydrolysis of starch! Starch is hydrolysed to matter. by an enzyme known as diatore.

2 (C6H10 Os)n + n+1,0 Di44ase > n ((12H320))

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contains 2 enzymou of which contains 2 enzymou of which contains 2
Verb the mother to always
mattere: 1000 - mattere > 2 ( Has ( )
mattere. 15°C gluese
The glucose at constant temperature is then converted into
Synaire Contained also in yeart.
4 Hy O6 - your - collain 11 + 110
ghove. 13°C 2CH3CH, OH +2002.
10- 4-11
4) Reaction between 2-methyl propanal and bityl magerium
130 10 -
CH3CH (CH3) - C-H + CH3CH2CH2 MyCl
0
7 CH3 CH (CH3) - C-H + MgCl.
CH3CH2CH2 CH2
- H20 > CH3 (H(CH2) - C - H + Mg(OH) CL.
сисисиси
Cigo in Cigo i
CHOCH (CH) - C-H LIATHY CHICHCHO) CHO
1-120
2-methyl propan-1-ol
2-methyl propan-1-ol
BHOD PT +

