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## **COLLEGE:ENGINEERING**

### **DEPARTMENT:MECHATRONICS**

## CHEMISTRY

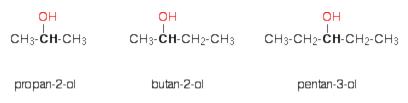
## **1)Primary alcohols**

# In a primary (1°) alcohol, the carbon which carries the -OH group is only attached to one alkyl group. Some examples of primary alcohols include:

СН <sub>3</sub> - <b>СН<sub>2</sub>-ОН</b>	СН <sub>3</sub> -СН <sub>2</sub> - <b>СН<sub>2</sub>-ОН</b>	СН <sub>3</sub> -СН- <b>СН<sub>2</sub>-ОН</b> І СН <sub>3</sub>
ethanol	propan-1-ol	2-methylpropan-1-ol

## **Secondary alcohols**

In a secondary (2°) alcohol, the carbon with the -OH group attached is joined directly to two alkyl groups, which may be the same or different. Examples:



## **Tertiary alcohols**

In a tertiary (3°) alcohol, the carbon atom holding the -OH group is attached directly to three alkyl groups, which may be any combination of same or different. Examples:



2-methylpropan-2-ol

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2-methylbutan-2-ol
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2)Alcohols are soluble in water. This is due to the hydroxyl group in the alcohol which is able to form hydrogen bons with water molecules. Alcohols with a smaller hydrocarbon chain are very soluble. As the length of the hydrocarbon chain increases, thesolubility in water decreases.

4)2-methlypropanal reacts with butlymagnisumchloride to give

CH3-MgI

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O- MgI
|
|H3C -----|-----CH3
|
|CH3
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What organic product would be formed by the reaction of CH3-I + Mg if the reaction was not anhydrous?

CH4

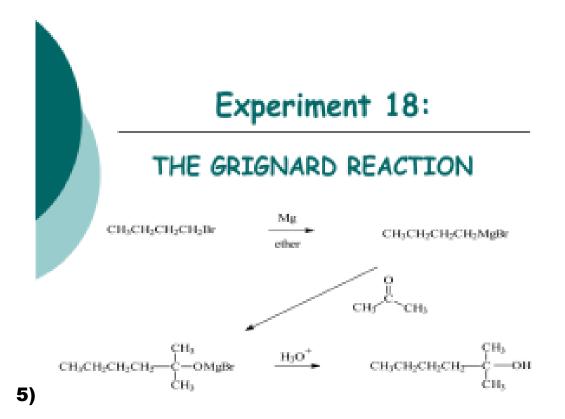
The CH3-MgI bond takes an H from H2O: Forms: CH4 and +MgI -OH

What byproduct would form in great abundance if dilution by ether didnt occur?

CH3-I + Mg ----> ?

## What is this reaction called?

## CH3-MgI + CH3-I -----> H3C-C3H + MgI2



8) Dehydration of propan-1-ol to propene.

When propan-1-ol is treated with concentrated sulfuric acid the phenomenon called dehydration occurs due to which a water molecule from propan-1-ol gets eliminated.

Due to this propan-1-ol gets converted into propene. The reaction involved is as follows:

2. Hydrolysis of propene to propan-2-ol

**Propene can be hydrolyzed to propan-2-ol in accordance** with mechanism called as Markownikoffs addition.

It states that when an unsymmetrical reagent the negative part of the reagent gets attached itself to the carbon atom of the alkene which has less number of hydrogen atoms.

In this case, the unsymmetrical reagent used in which is composed of and part.

Due to hydrolysis of water, the negative part attaches itself to the propene and thus convert it as propan-2-ol.

The reaction involved is as follows:

Read more on Brainly.in https://brainly.in/question/1004803#readmore