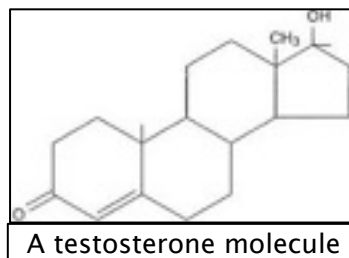


Functional Groups #1,2: Alcohols and Ethers

1. Alcohols

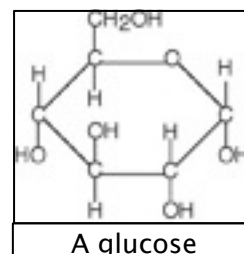
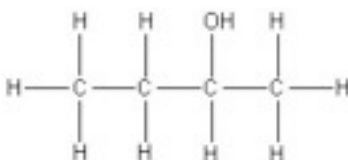
Structure: $R-O-H$

Alcohol functional groups are found in sugars, hormones. Some simpler molecules containing an alcohol are toxic.



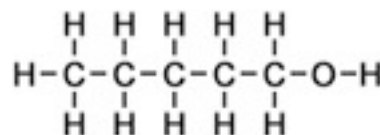
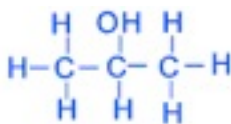
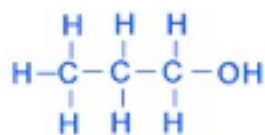
Naming Alcohols:

a) Name the main chain and change the ending to “-ol”.



b) Use a number in front of the chain to show where the OH group is.

Eg.



Drawing the structure: 1-butanol

a) Draw the carbon chain.

b) Add the OH group to the carbon indicated by the number.

c) Add H atoms to the C atoms until each has 4 bonds.

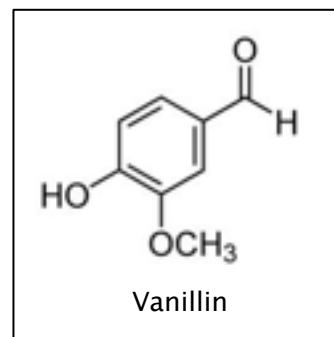
Properties of Alcohols:

2. Ethers

Structure: $R-O-R'$

Ethers are commonly used as solvents because they dissolve many compounds.

Diethyl ether was used as an anesthetic in the late 1800s/early 1900s.



Ethers are found in many, many compounds, including some flavours and scents and some medications.

Properties:

Homework:

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