

# STUDY GUIDE 3: Introduction to Organic Molecules and Functional Groups

## Functional Groups

alkane = saturated

Organic molecules that contain just C and H atoms are called hydrocarbons. They can be saturated (alkanes) or unsaturated (alkenes, alkynes, arenes). Other organic molecules are molecules that contain hydrocarbon units with functional groups attached. Those functional groups can include any of the CHNOPS elements.

7. halogens

unsat = alkene, alkyne, aromatic/alene

**Hydrocarbons:** They contain only Carbon and Hydrogen and can be classified as **aliphatic**: saturated (alkanes) or unsaturated (alkenes, alkynes) or **aromatic** compounds.

ring

not ringed

Draw examples of the following:

An alkane



An alkyne



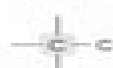
An alkene



An aromatic compound



Carbon atoms in alkanes are classified by the number of carbon atoms attached to them.



1° carbon



2° carbon



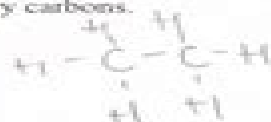
3° carbon



4° carbon

Draw a hydrocarbon that contains only primary carbons, another with primary and tertiary carbons only, and another with secondary and tertiary carbons.

→ only 1° carbons:



→ 1° & 3° carbons only.

→ 2° & 3° carbons:



# Organic Molecules Report Guide

**Annelies Wilder-Smith**



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