

# FUNCTIONAL GROUPS OF ORGANIC COMPOUNDS

| Homologous series           | Structure of functional group | Example of a compound |                    |
|-----------------------------|-------------------------------|-----------------------|--------------------|
|                             |                               | Name                  | Structural formula |
| alkanes                     | Only C-H and C-C single bonds | ethane                |                    |
| alkenes                     |                               | ethene                |                    |
| alkynes                     |                               | ethyne                |                    |
| haloalkanes (alkyl halides) | <br>(X = F, Cl, Br, I)        | bromoethane           |                    |
| alcohols (alkanols)         |                               | ethanol               |                    |
| aldehydes                   |                               | ethanal               |                    |
| ketones                     |                               | propan-2-one          |                    |
| carboxylic acids            |                               | ethanoic acid         |                    |
| esters                      |                               | methyl ethanoate      |                    |

## NAMING OF ORGANIC COMPOUNDS

The name of every organic molecule has three parts:

- The parent name indicates the number of C atoms in the longest carbon chain in the molecule.
- The suffix indicates what functional group is present.
- The prefix reveals the identity, location and number of substituents attached to the carbon chain.

prefix

What and where are the substituents?

parent

How many carbons?

suffix

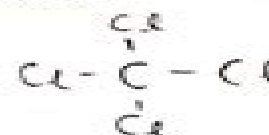
What is the functional group/homologous series?

di - 2

tri - 3

tetra - 4

| Number of carbon atoms | Parent name | Number of carbon atoms | Parent name |
|------------------------|-------------|------------------------|-------------|
| 1                      | meth        | 5                      | pent        |
| 2                      | eth         | 6                      | hex         |
| 3                      | prop        | 7                      | hept        |
| 4                      | but         | 8                      | oct         |



prefix, suffix and parent!

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Tetra - chloro - metha

# Physical Science Organic Compounds Study Guide

**Camilla Rothe**



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