

## 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	$\begin{array}{c} \text{H} & & \text{H} \\   & &   \\ \text{H}-\text{C} & - & \text{C}-\text{H} \\   & &   \\ \text{H} & & \text{H} \end{array}$
alkenes	$\begin{array}{c} \diagup & & \diagdown \\ & \text{C}=\text{C} & \\ \diagdown & & \diagup \end{array}$	ethene	$\begin{array}{c} \text{H} & & \text{H} \\ & \diagdown & \diagup \\ & \text{C}=\text{C} & \\ & \diagup & \diagdown \\ \text{H} & & \text{H} \end{array}$
alkynes	$-\text{C}\equiv\text{C}-$	ethyne	$\text{H}-\text{C}\equiv\text{C}-\text{H}$
haloalkanes (alkyl halides)	$\begin{array}{c}   \\ -\text{C}-\text{X} \\   \\ \text{(X = F, Cl, Br, I)} \end{array}$	bromoethane	$\begin{array}{c} \text{H} & & \text{H} \\   & &   \\ \text{H}-\text{C} & - & \text{C}-\text{Br} \\   & &   \\ \text{H} & & \text{H} \end{array}$
alcohols (alkanols)	$\begin{array}{c}   \\ -\text{C}-\text{O}-\text{H} \\   \end{array}$	ethanol	$\begin{array}{c} \text{H} & & \text{H} \\   & &   \\ \text{H}-\text{C} & - & \text{C}-\text{O}-\text{H} \\   & &   \\ \text{H} & & \text{H} \end{array}$
aldehydes	$\begin{array}{c} \text{O} \\    \\ -\text{C}-\text{H} \end{array}$	ethanal	$\begin{array}{c} \text{H} & & \text{O} \\   & &    \\ \text{H}-\text{C} & - & \text{C}-\text{H} \\   \\ \text{H} \end{array}$
ketones	$\begin{array}{c} \text{O} \\    \\ -\text{C}- \\   \end{array}$	propan-2-one	$\begin{array}{c} \text{H} & & \text{O} & & \text{H} \\   & &    & &   \\ \text{H}-\text{C} & - & \text{C} & - & \text{C}-\text{H} \\   & & & &   \\ \text{H} & & & & \text{H} \end{array}$
carboxylic acids	$\begin{array}{c} \text{O} \\    \\ -\text{C}-\text{O}-\text{H} \end{array}$	ethanoic acid	$\begin{array}{c} \text{H} & & \text{O} \\   & &    \\ \text{H}-\text{C} & - & \text{C}-\text{O}-\text{H} \\   \\ \text{H} \end{array}$
esters	$\begin{array}{c} \text{O} \\    \\ -\text{C}-\text{O}-\text{C}- \\   \end{array}$	methyl ethanoate	$\begin{array}{c} \text{H} & & \text{O} & & \text{H} \\   & &    & &   \\ \text{H}-\text{C} & - & \text{C}-\text{O}- & \text{C}-\text{H} \\   & & & &   \\ \text{H} & & & & \text{H} \end{array}$

## 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

**James Adams, Maryn Munley, Nathan  
Eisenbeis, Caroline Miller, Jesse Shetler**



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they are the source of ova eggs and of the female sex hormones estrogens and progestogens the fallopian or uterine tubes conduct ova to the uterus which lies within the lesser or true pelvis

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