

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)	 (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

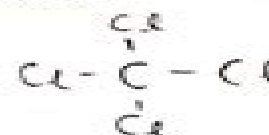
What is the functional group/homologous series?

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

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