

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

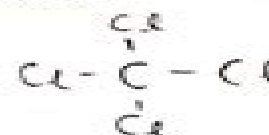
What is the functional group/homologous series?

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

Christian Drosten



Physical Science Organic Compounds Study Guide:

Embark on a breathtaking journey through nature and adventure with Crafted by is mesmerizing ebook, Natureis Adventure: **Physical Science Organic Compounds Study Guide** . This immersive experience, available for download in a PDF format (PDF Size: *), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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