

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

R Barnett



Physical Science Organic Compounds Study Guide:

Unveiling the Magic of Words: A Review of "**Physical Science Organic Compounds Study Guide**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Physical Science Organic Compounds Study Guide**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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