

## Organic Chemistry (basics)- grd X Cheat Sheet by Sushi (aishanya\_.\_) via cheatography.com/172469/cs/36273/

Organic chemistry (basics)				
>organic chemistry-	'chemistry of specific carbon compound'			
>nature of carbon atom	- tetra valency, catenation, isomerism			
*[catenation	tendency of an element to form chains of identical atoms]			
*[isomerism	-same molecular formula but different structural formula]			
*Hyrocarbons	-organic compounds containing 'C' and 'H' atoms only			
*Nomenclature	-system of assignment of names to organic compunds			
*Homologous series	-series of organic compounds where the successive members follow a regular structural pattern differing by a 'CH2' group			

organic v/s inorganic					
ORGANIC	INORGANIC				
≻covalent	≻electrovalent (ionic)				
➤low melting/boiling points	➤high melting/boiling points				
➤insoluble in water/ soluble in organic solvents	➤soluble in water/ insoluble in organic solvents				
➤non-conductors of electricity	➤good conductors of electricty				
<b>≻</b> combustible	≻non-combustible				
≻volatile	➤ non-volatile				
➤ exhibits catenation and isomerism	➤doesn't exhibit catenation and isomerism				

CLASSIFICATION					
ALIPHATIC (hydrocarbons)- open chains/straight chain	ATROMATIC (cyclic)- closed chains				
>saturated (cannot take up more alkanes)	>homocyclic (only carbon and hydrogen atoms)				
>unsaturated (double bond/triple bond-can take up more alkanes)	>heterocyclic (C,O,N,H, and S atoms)				

STEM r	number of carbons
meth-	1
eth-	2
prop-	3
but-	4
penta-	5
hexa-	6
hepta-	7
octa-	8
nona-	9
deca-	10
stem/suffix .	
-ane	Alkanes (single bonds)



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## NOMENCLATURE (cont)

-ene Alkenes (double bonds)

-yne Alkynes (triple bonds)

## **ISOMERISM**

chain arrangment position of functional groups geometrical arrangement of atoms around double bond



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