

Organic Compounds

Definition

Old- is or was living

New- contain C most will also have H

Hydrocarbons

Can form
bonds with
itself

Contain C + H
* 4 covalent bonds

Alkanes

Alkenes

Alkynes

name -ane

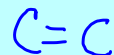
-ene

-yne

Single covalent
bonds

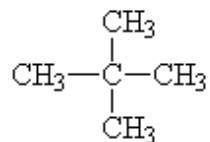
double
covalent bond

triple
covalent



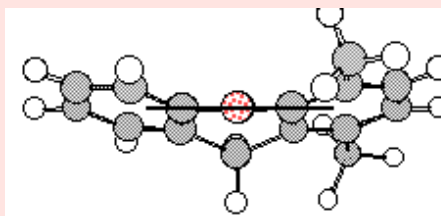
Organic NAMES

Prefix	# of C	Ending
meth	1	-ane
eth	2	-ene
prop	3	-yne
but	4	-yl
pent	5	-ol
hex	6	
hept	7	
oct	8	
non	9	
dec	10	
undec	11	
dodec	12	

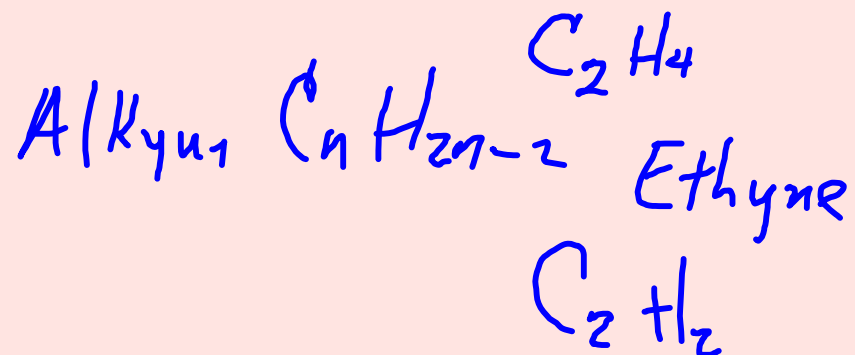
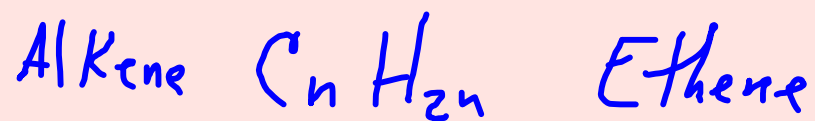


2,2-dimethylpropane

Formulas

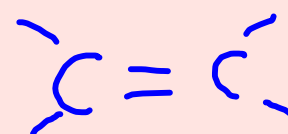
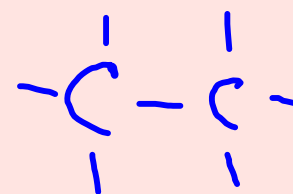


Chemical



Structural

straight chain
 branched chain



Alkanes

Chemical Structural

Hexane

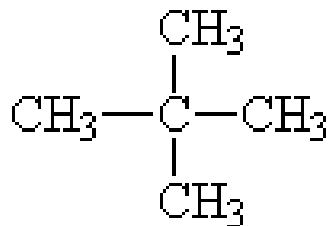
butane

HELP !!!!!!!

<http://www.chemhelper.com/hydrocarbons.html>



Number of Carbons	Prefix	Structure
1	<i>Methane</i>	CH ₄
2	<i>Ethane</i>	CH ₃ CH ₃
3	<i>Propane</i>	CH ₃ CH ₂ CH ₃
4	<i>Butane</i>	CH ₃ (CH ₂) ₂ CH ₃
5	<i>Pentane</i>	CH ₃ (CH ₂) ₃ CH ₃
6	<i>Hexane</i>	CH ₃ (CH ₂) ₄ CH ₃
7	<i>Heptane</i>	CH ₃ (CH ₂) ₅ CH ₃
8	<i>Octane</i>	CH ₃ (CH ₂) ₆ CH ₃
9	<i>Nonane</i>	CH ₃ (CH ₂) ₇ CH ₃
10	<i>Decane</i>	CH ₃ (CH ₂) ₈ CH ₃
11	<i>Undecane</i>	CH ₃ (CH ₂) ₉ CH ₃
12	<i>Dodecane</i>	CH ₃ (CH ₂) ₁₀ CH ₃



2,2-dimethylpropane

Isomers



pentane

Branched chains

Substituted hydrocarbons

Hydroxyl group

Carboxyl group

Aromatic compounds

Biochemical compounds

Carbohydrates

Protein

Amino acid

