

E-Isomer

Z-Isomer

Double Bonds

Triple Bonds

- Pawns always come at the end of a name for a comp.



↑ Atomic number

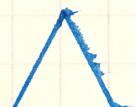
2cc-Zwame
Z-side



hex-2-ene



hex-2-yne
one



cyclopropane



cyclobutane

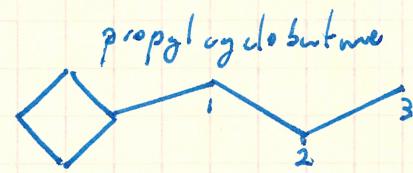
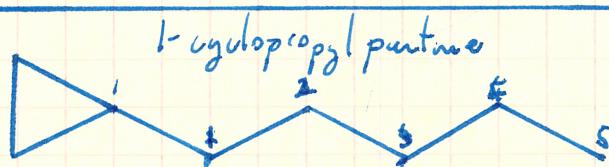


cyclopentane



cyclohexane

- The parent chain is the cyclohexane so long as it has more carbons than its sidechains.
- If sidechain has double/triple bonds then automatically becomes parent.



Benzene
(phenyl as sidechain)



Prefixes:

Br - Bromo

Cl - Chloro

F - Fluoro

I - Iodo

Methane 1

Methyl

X - CH₃

Ethane 2

Ethyl

X - CH₂ - CH₃

Propane 3

Propyl / Isopropyl

X - CH₂ - CH₂ - CH₃

Butane 4

Butyl / + - Butyl

X
CH₃ - CH - CH₃

Pentane 5

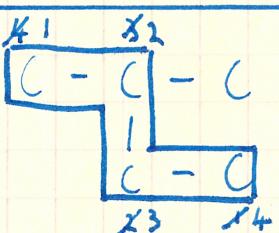
Phenyl (Benzene
as a sidechain).

X - CH₂ - CH₂ - CH₂ - CH₃

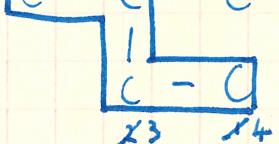
Hexane 6



Heptane 7



Octane 8

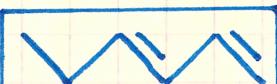


Nonane 9

Always count the longest with J's sum.

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List sidechains in alphabetical order
(prefix ignored)
use J's cause are not
ignored.



pent-1,3-diene

Closures of Hydrocarbons

- Alkanes - only single bond (sigma) thus saturated.

- Alkenes - at least one double bond thus unsaturated.

- Alkynes - at least one triple bond thus unsaturated