Nomenclature of organic pompounds

IV.1.3.1. Saturated and unsaturated monocyclic hydrocarbons:

♣ Substituted hydroalkanes(enes) are named in maner similar to the opene chain hydrocarbones.

♣ The cyclic structure or ring is considered as P.C.C. till the number of carbon in the ring is same or greater than number of carbon in chain.

Prefixe1 prefixe2 PCC suffixe

Prefixe1: substitutents

prefixe2: cyclo

PCC: tells number of carbon atoms

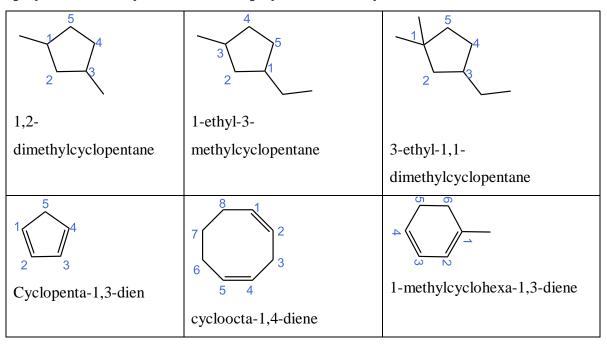
Suffixe: ane (cylic alkane); ene (cylic alkene)

Exemples:

Monosubstituend cyclo alkanes and monounsaturated cycloalkenes

cyclopropane	cyclobutane	cyclopentane	cyclooctane	methylcyclopentane	cyclopentene
C ₃ H ₆	C ₄ H ₈	C ₅ H ₁₀	C ₈ H ₁₆	C ₆ H ₁₂	C ₅ H ₈

polysubstituend cyclo alkanes and polyunsaturated cycloalkenes



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> Even if the compound contains two rings, the priority ring is the most complex (has more unsaturations, larger, more substituted), the second ring named as a substituents.

> Especially if the compound contains an unsaturated ring and a saturated linear or branched chain, the ring takes precedence. The carbon chain named as a substituent.

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