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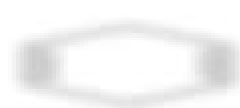
Rule 1 A number is not needed to locate the double bond in unsaturated hydrocarbons with only one double bond because that bond is assumed to be between carbons 1 and 2.



cyclohexene



cyclopentene



1,3-cyclohexadiene



1,3-cycloheptadiene

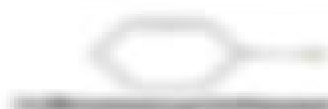
Rule 2 In unsaturated hydrocarbons with only one double bond, the double bond carbon atoms are numbered 1 and 2 in the direction (priority or counterclockwise) that gives the first substituent the lower number. Again, no number is used in the name to locate the double bond.



cyclohexene



1-methylcyclopentene



1-bromocyclohexene



1-ethyl-1-methylcyclohexene

Rule 3 In hydrocarbons with more than one double bond within the ring, assign one double bond the numbers 1 and 2 and the other double bond the lower-numbered position.



1,3-cyclohexadiene



1,3-cycloheptadiene

Alkenes as Substituents

An alkene group is a substituent hydrocarbon substituent in which a carbon-carbon double bond is present. The three most frequently encountered alkene groups are the vinyl, allyl, and isopropenyl groups, which may be named using suffixes: vinyloxy-, allyloxy-, methylenoxy-, alkenyl-, and isopropenyl- or with common names: methoxy-, ethoxy-, and allyl-.

vinyl group	allyl group	isopropenyl group

Unsaturated Hydrocarbons Study Guide

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