Today

Next Class

Practice Alkene Nomenclature (5.2)

Sections 5.3, 5.5 Alkene nomenclature and structure, and how alkenes react Sections 5.5 - 5.13 How alkenes react

Kinetics, thermodynamics, reaction coordinate diagrams, and catalysis

Alkene Nomenclature

Section 5.2

Same rules as alkanes and alcohols...

alkenes are a functional group,

the parent hydrocarbon must completely contain the double bond

the position of the double bond gets the lowest possible number

the "ane" ending of parent hydrocarbon is changed to "ene"

substituents are names as before...

Practice 2 c atoms ... ethane 15 alkane
with 2 c atoms Section 5.2 1. Lind longest C pentane. chain that 2-ethyl-1-pentene hexane contains the functional group 2. change are => ene Hexane

Nexane

Nexane

and find the

position #

H, CH3, CH2..., CH=...

3. Name substitute 3. Name substituents 1,6,6 5 26 vs 6

pentane

pentane

1,1,1(E)-3 - methyl - 1,3 - pentadiene 4. Find # Jar Substituents 5. Stereolsomers! 10 Z, E or R, S

Group) l	Group II	Group III	Group IV
R_C alkene R—C alkyne	es C—R	R_3C — X $X = CI, Br, I$ $Alkyl Halides$ R_3C — OH $alcohols$ R_3C — CR_3 $ethers$ R_2C — CR_2 $epoxides$ $ethorem.$	R R' ketones (R, R' ≠ H) and aldehydes (R or R' = H) RC(=0)NR ₂ amides RC(=0)OH esters (R ≠ H) RC(=0)OH carboxylic acids O R anhydrides RC(=0)Cl acid chlorides	aromatics and more