

10.4 Electrophilic Reactions

General Introduction An electrophile is an electron-seeking species, reacting with a lone pair or a double bond.

Electrophilic Reactions

Electrophilic reactions involving alkenes are addition reactions where both ends of the

- alkene are attacked by an electrophile (E⁺) to form a carbocation intermediate (an alkyl cation).
- The carbocation is then attacked by a nucleophile (Nu⁻) to form the final product, an alkylated alkane.

Electrophilic reactions involving alkenes are addition reactions where both ends of the

- alkene are attacked by an electrophile (E⁺) to form a carbocation intermediate (an alkyl cation).
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When reacting alkenes with H⁺, the following reactions occur:

Electrophilic Addition of H⁺

- In the following mechanism, alkenes react with H⁺ to form a carbocation intermediate. Write the mechanism for the reaction of ethene with H⁺. _____
- Write down the product of the reaction of ethene with H⁺. _____
- Explain why the reaction of ethene with H⁺ is an addition reaction. _____
- Write down the product of the reaction of propene with H⁺. _____
- Write down the product of the reaction of butene with H⁺. _____
- Write down the product of the reaction of pentene with H⁺. _____
- Write down the product of the reaction of hexene with H⁺. _____
- Write down the product of the reaction of heptene with H⁺. _____
- Write down the product of the reaction of octene with H⁺. _____
- Write down the product of the reaction of nonene with H⁺. _____
- Write down the product of the reaction of decene with H⁺. _____

Exercises

- Write the mechanism for the reaction of ethene with H⁺ to form ethanol.

Reading And Study Workbook 19 4 Neutralization Reactions

Scott C. Dulebohn



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