

10.4 Electrophilic Reactions

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

Electrophilic Substitution

Electrophilic Substitution reactions are common in the chemistry of alkenes and are:

- Electrons in a carbon-carbon double bond (C=C) react with an electrophile (E⁺) to form a carbocation intermediate.
- The carbocation intermediate is then attacked by a nucleophile (Nu⁻) to form the final product.

Electrophilic Substitution reactions are often described by two mechanisms:

- The first mechanism involves the formation of a carbocation intermediate.
- The second mechanism involves the formation of a transition state.

When reacting alkenes with H⁺, the following reactions occur:

Electrophilic Substitution

- In the following mechanism, the alkene reacts with H⁺ to form a carbocation intermediate. Write the mechanism for the reaction of propene with H⁺.
- Write down the mechanism for the reaction of propene with H⁺.
- Write down the mechanism for the reaction of propene with H⁺.
- Write down the mechanism for the reaction of propene with H⁺.
- Write down the mechanism for the reaction of propene with H⁺.
- Write down the mechanism for the reaction of propene with H⁺.

Transition

- Write down the mechanism for the reaction of propene with H⁺.

Reading And Study Workbook 19 4 Neutralization Reactions

D Keegan



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