

10.4 Electrophilic Reactions

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

Electrophilic Substitution

Electrophilic Substitution (E₁ or E₂) is a reaction in which an electrophile attacks a molecule, replacing a leaving group.

- It occurs in saturated hydrocarbons (alkanes) and in aromatic compounds (arenes).
- The electrophile attacks the carbon atom of the double bond, forming a carbocation intermediate.

Electrophilic Substitution is a reaction in which an electrophile attacks a molecule, replacing a leaving group.

- The electrophile attacks the carbon atom of the double bond, forming a carbocation intermediate.
- The leaving group is then removed, restoring the double bond.

When reacting with an alkene, it follows the following mechanism:

Electrophilic Substitution Mechanism

- In the first step, the electrophile attacks the double bond, forming a carbocation intermediate.
- In the second step, the leaving group is removed, restoring the double bond.
- In the third step, the electrophile attacks the carbocation intermediate, forming a new bond.
- In the fourth step, the leaving group is removed, restoring the double bond.
- In the fifth step, the electrophile attacks the carbocation intermediate, forming a new bond.
- In the sixth step, the leaving group is removed, restoring the double bond.
- In the seventh step, the electrophile attacks the carbocation intermediate, forming a new bond.
- In the eighth step, the leaving group is removed, restoring the double bond.
- In the ninth step, the electrophile attacks the carbocation intermediate, forming a new bond.
- In the tenth step, the leaving group is removed, restoring the double bond.

Transition

- When the electrophile attacks the carbocation intermediate, it forms a new bond.

Reading And Study Workbook 19 4 Neutralization Reactions

Ying Liu



Reading And Study Workbook 19 4 Neutralization Reactions:

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