

Answer on Question #83155, Chemistry/ Organic Chemistry

Which of the following statements best describes the reactions of an alkene?

1. Alkene double bonds are electron-poor and are susceptible to attack from electrophilic reagents and undergo electrophilic addition reactions.
2. Alkene double bonds are electron-rich and are susceptible to attack from nucleophilic reagents and undergo nucleophilic substitution reactions.
3. Alkene double bonds are electron-rich and are susceptible to attack from electrophilic reagents and undergo electrophilic addition reactions.
4. Alkene double bonds are electron-poor and are susceptible to attack from electrophilic reagents and undergo electrophilic substitution reactions.
5. Alkene double bonds are electron-poor and are susceptible to attack from nucleophilic reagents and undergo nucleophilic substitution reactions.

Answer:

3. Alkene double bonds are electron-rich and are susceptible to attack from electrophilic reagents and undergo electrophilic addition reactions.

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