

Quiz (Reaction of Alkene)

1. Complete and balance the following equations:
 - (a) $\text{C}_5\text{H}_{10} + \text{O}_2 \longrightarrow$
 - (b) $\text{C}_{10}\text{H}_{20} + \text{O}_2 \longrightarrow$
2. Draw the structural formula for the following products:
 - (a) $\text{CH}_3\text{CH}_2\text{CH}=\text{CH}_2 + \text{Br}_2 \longrightarrow$
 - (b) $\text{CH}_3\text{CH}=\text{CHCH}=\text{CHCH}_3 + \text{Br}_2 \longrightarrow$
 - (c) $\text{CH}_3\text{CH}_2\text{CH}=\text{CH}_2 + \text{KMnO}_4 / \text{H}^+ \longrightarrow$
 - (d) $\text{CH}_3\text{CH}=\text{CHCH}=\text{CHCH}_3 + \text{KMnO}_4 / \text{H}^+ \longrightarrow$
 - (e) $\text{CH}_3\text{CH}_2\text{CH}=\text{CH}_2 + \text{K}_2\text{Cr}_2\text{O}_7 / \text{H}^+ \longrightarrow$

Suggested Answer

1. (a) $2C_5H_{10} + 15O_2 \longrightarrow 10CO_2 + 10H_2O$
(b) $C_{10}H_{20} + 15O_2 \longrightarrow 10CO_2 + 10H_2O$
2. (a) $CH_3CH_2CHBrCH_2Br$
(b) $CH_3CHBrCHBrCHBrCHBrCH_3$
(c) $CH_3CH_2CH(OH)CH_2OH$
(d) $CH_3CH(OH)CH(OH)CH(OH)CH(OH)CH_3$
(e) No reaction