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General Questions

Practice Questions

Q1. What is the correct IUPAC name for the compound with the structure CH3-CH2-CH(CH3)-C(CH3)2-CH3?

A. 3,3-dimethylpentane
B. 2,2-dimethylhexane
C. 2-methylhexane
D. 3-methylpentane

Solution: The longest chain has five carbons (pentane) with two methyl groups on the third carbon, making it 3,3-dimethylpentane.

Q2. Which of the following compounds is a structural isomer of C4H10?

A. 2-methylpropane
B. butane
C. cyclobutane
D. 1-butyne

Solution: 2-methylpropane is a structural isomer of butane, both having the same molecular formula C4H10.

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