



SoulShift - Educational Q&A Platform

General Questions

Practice Questions



Q1. What is the correct IUPAC name for the compound with the structure $\text{CH}_3\text{-CH}_2\text{-CH(CH}_3\text{)-C(CH}_3\text{)}_2\text{-CH}_3$?

- 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 C_4H_{10} ?

- 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 C_4H_{10} .



