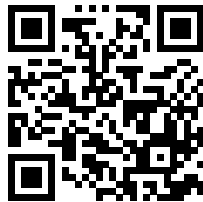




# **SoulShift - Educational Q&A Platform**

## **General Questions**

Practice Questions



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

- 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  $\text{C}_4\text{H}_{10}$ ?**

- 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  $\text{C}_4\text{H}_{10}$ .*



