

ISOMERISM

1. Write out all the structural and cis-trans isomers of but-2-ene. [2]

2. Draw 3 structural isomers of the compound below. [3]



3. Draw all the structural isomers of CH_3CCl_3 . [1]

4. 4-chloro-4methyl-2-hexene, $\text{CH}_3\text{CH}=\text{CHC}(\text{CH}_3)\text{ClCH}_2\text{CH}_3$ exhibits geometrical isomerism and optical isomerism. Draw structures of geometrical isomers and optical isomers. [4]

5. Write out all the isomers (structural and stereoisomers) of $C_4H_{10}O$. [8]

6. The compound $CH_3CH(NH_2)COOH$ has a chiral center. Circle the chiral center and draw the optical isomers. [3]

7. How many esters are there with the molecular formula $C_4H_8O_2$? Draw out all the structural formula. [4]