

OCR (B) Chemistry A-Level

DF10 - Isomerism

Flashcards

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What are structural isomers?



What are structural isomers?

Structural isomers are hydrocarbons with the same molecular formula, but different structural formulae.



What are stereoisomers?



What are stereoisomers?

Stereoisomers are hydrocarbons with the same structural formula, but different arrangements of their atoms in 3D space.



Why does stereoisomerism occur around
a double bond?



Why does stereoisomerism occur around a double bond?

Free rotation is restricted around the double bond. When each carbon has two different groups attached to it different arrangements are possible about the C=C bond.



What is cis-trans isomerism?



What is cis-trans isomerism?

Cis-trans isomerism is a type of E-Z isomerism that occurs when each carbon in the double bond has one group in common.

