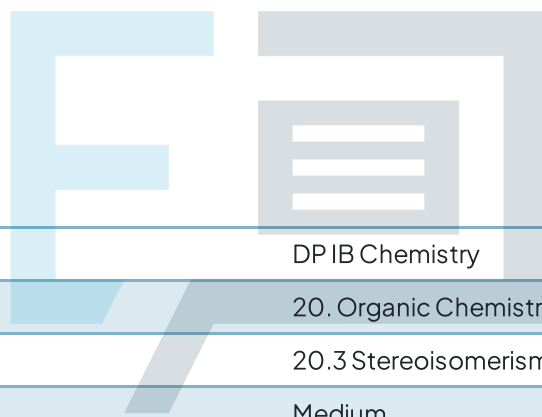




20.3 Stereoisomerism

Question Paper



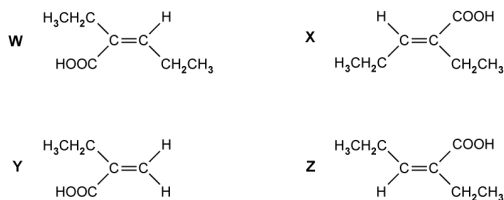
Course	DP IB Chemistry
Section	20. Organic Chemistry (HL only)
Topic	20.3 Stereoisomerism
Difficulty	Medium

Exam Papers Practice

To be used by all students preparing for DP IB Chemistry HL
Students of other boards may also find this useful

Question 1

Which two molecules are cis-trans isomers of each other?



- A. X and Z
- B. X and Y
- C. W and Y
- D. W and Z

[1 mark]

Question 2

What is this molecule called?



- A. Z-2-bromo-1-chloro-2-fluoroethene
- B. E-2-bromo-1-chloro-2-fluoroethene
- C. Z-1-bromo-2-chloro-1-fluoroethene
- D. E-1-bromo-2-chloro-1-fluoroethene

[1 mark]

Question 3

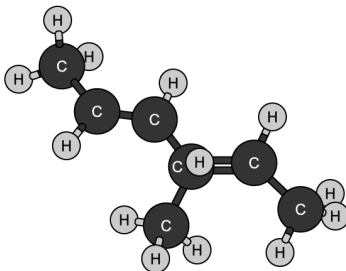
Which molecule has optical isomers?

- A. 2-bromobutane
- B. 1,3-dibromopropane
- C. 2-chloro-2-methylpropane
- D. 3-bromopentane

[1 mark]

Question 4

What is the name of this molecule?



- A. *cis*-3-methyl-3-hexene
- B. *trans*-4-methyl-4-hexene
- C. *cis*-3-methyl-2-hexene
- D. *trans*-3-methyl-2-hexene

[1 mark]

Question 5

Which is true about stereoisomerism?

- A. But-1-ene has *E/Z* isomers
- B. Butan-2-ol has two enantiomers
- C. But-1-ene and but-2-ene are *cis-trans* isomers
- D. Butan-1-ol and butan-2-ol are optical isomers

[1 mark]