



1 a Draw the structure of each of these alkenes and then state which exist as *E-Z* stereoisomers.

name	1-bromopropene	2-methylbut-2-ene	but-2-ene
structure			
<i>E-Z</i> stereoisomers?			

b Explain why some alkenes exist as *E-Z* stereoisomers.

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c Draw *E*-3-fluoropent-2-ene.

2 a Write an equation for the formation of the main product from the reaction of but-1-ene with hydrogen bromide.

b Name and outline the mechanism for this reaction.

c Give the structure of the other product formed and explain why more of the product shown in a/b is formed.

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