

Explain why the following reaction happens as the major product (you may give the mechanism that you would use to answer the question, but this is not required for an excellent answer) (10)

[10a. 2008: 2-bromo-2-methylbutane reacts with sodium hydroxide in ethanol to give 2-methylbut-2-ene as the major product.](#)

10a. 2008 (10)

Explain why the major product is 2-methylbut-2-ene (you may give the mechanism that you would use to answer the question, but this is not required for an excellent answer) (10)

[10b. 2008: 2-bromo-2-methylbutane reacts with sodium hydroxide in ethanol to give 2-methylbut-1-ene as the major product.](#)

10b. 2008 (10)

Explain why the major product is 2-methylbut-1-ene (you may give the mechanism that you would use to answer the question, but this is not required for an excellent answer) (10)

[10c. 2008: 2-bromo-2-methylbutane reacts with sodium hydroxide in ethanol to give 2-methylbut-2-ene and 2-methylbut-1-ene.](#)

10c. 2008 (10)

Explain why the major product is [2-methylbut-2-ene](#).

Explain why the major product is 2-methylbut-1-ene (you may give the mechanism that you would use to answer the question, but this is not required for an excellent answer) (10)

[10d. 2008: 2-bromo-2-methylbutane reacts with sodium hydroxide in ethanol to give 2-methylbut-2-ene and 2-methylbut-1-ene.](#)

10d. 2008 (10)

Explain why the major product is 2-methylbut-1-ene (10)

[10e. 2008: 2-bromo-2-methylbutane reacts with sodium hydroxide in ethanol to give 2-methylbut-2-ene.](#)

Explain why the major product is 2-methylbut-2-ene (10)

10e. 2008 (10)