

11. 2-Bromobutane, C_4H_9Br , is a halogenoalkane that behaves in a similar way to 1-chlorobutane.

(b) Bromoethane can be converted into ethene.

(i) Name the reagent and solvent needed to convert bromoethane into ethene. [1]

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(ii) What **type** of reaction occurs in (b)(i)? [1]

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(iii) 2-Bromobutane behaves in a similar way to bromoethane in this type of reaction. When 2-bromobutane is reacted as described in (b)(i) two alkenes that are **structural** isomers are formed.

Draw the displayed formulae of these two alkenes. [2]