**Major and minor products from an elimination reaction**

#### 2022

#### Compounds F and G both react with concentrated sulfuric acid, H2SO4(*conc.*) in an elimination reaction.

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Compound F will produce two products, while Compound G will produce only one product.

#### (i) Give the structural formula of the product(s) for each elimination reaction.

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With reference to their structures, explain why Compound F produces two products, while Compound G

produces one product.

#### In your answer, you should justify any choice of major and minor products.

#### 2019

#### Compare and contrast the reaction that forms compound B to the reverse reaction that forms propene, C3H6, from compound B.

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#### 2018

Reacting 2-chloropropane with potassium hydroxide, KOH, can produce different products due to different

reactions occurring. Elaborate on the reactions of 2-chloropropane with potassium hydroxide, KOH.

In your answer you should:

* identify the conditions of the reagent KOH
* explain the types of reaction that occur with the reagent in each condition
* draw structural formulae of the organic products.

#### 2017

2-bromo-3-methylbutane reacts with conc. KOH(alc). However, in this reaction TWO organic products

are formed, a major and a minor product.

Give an account of the chemical processes that occur in this reaction.

In your answer you should:

• write an equation for this reaction showing the organic compounds

• name the type of reaction occurring

• explain how the products form

#### • explain which product you would expect to be the minor product.

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