

GCSE Chemistry B (Twenty First Century Science)

J258/03 Breadth in chemistry (Higher Tier)

Question Set 27

1

Fig. 1.1 shows the displayed formula of ethene.

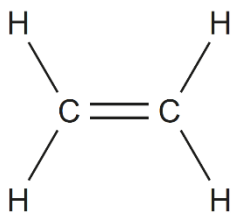


Fig 1.1

- (a) Ethene has some reactions that are different from those of ethane. These reactions are caused by its functional group.

Put a **ring** around the functional group of ethene in **Fig. 1.1**.

[1]

- (b) 1 mole of ethene contains 6.0×10^{23} molecules.

How many hydrogen atoms are there in one mole of ethene?

Put a **ring** around the correct answer.

1 4 6 6.0×10^{23} 2.4×10^{24}

[1]

- (c) (i) Ethene (**Fig. 1.1**) reacts with **Substance D** to give the compound shown in **Fig 1.2**.

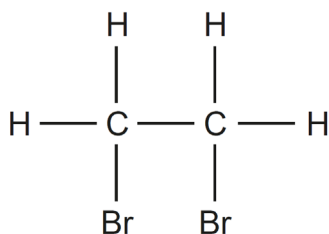


Fig. 1.2

Name **Substance D**.

[1]

- (ii) Ethene also reacts with hydrogen.

Draw the displayed formula of the compound formed.

[1]

Total Marks for Question Set 27: 4

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