

14.1 Names of Compounds

Question Paper

Level	IGCSE
Subject	Chemistry (0620)
Exam Board	Cambridge International Examinations (CIE)
Topic	Organic Chemistry
Sub-Topic	14.1 Names of Compounds
Booklet	Question Paper

Time Allowed: 9 minutes

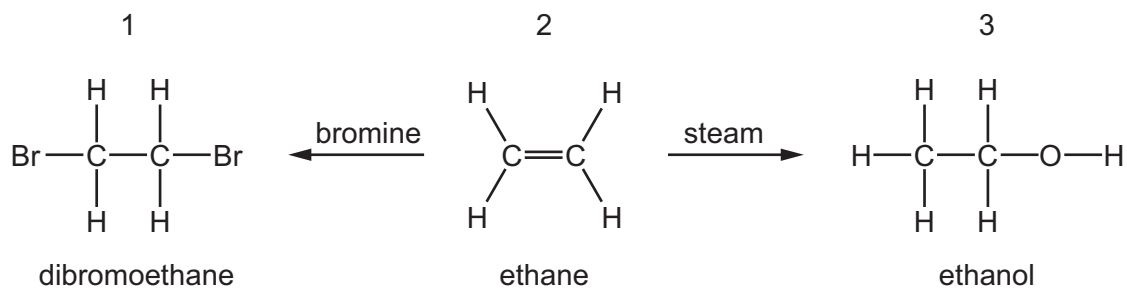
Score: /7

Percentage: /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	75%	60%	45%	35%	25%	<25%

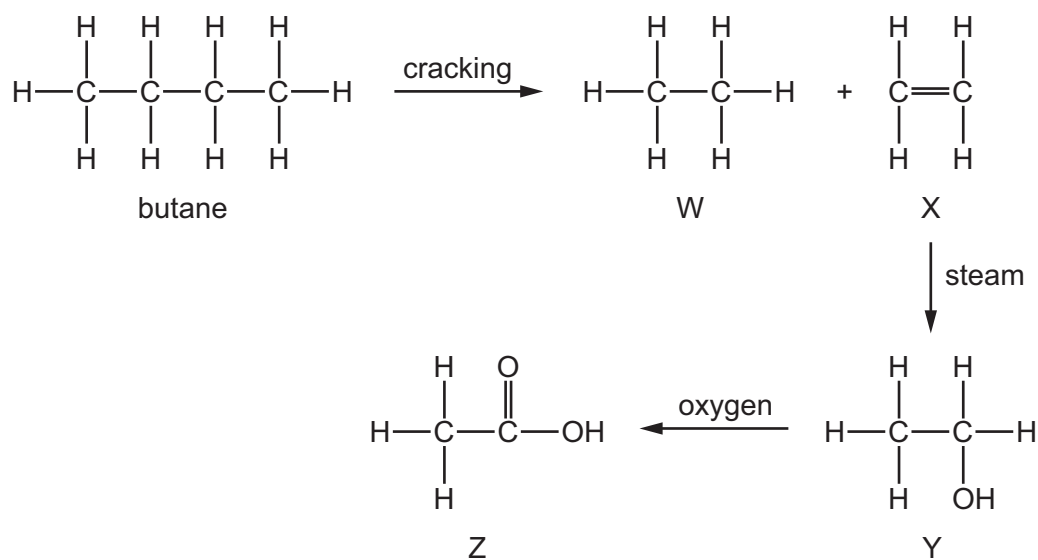
- 1 The diagram shows the structure of a simple hydrocarbon and the products of two of its reactions.



Which structures are named correctly?

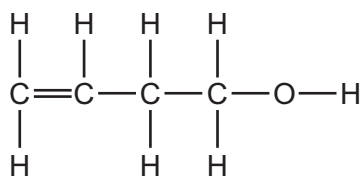
	structure		
	1	2	3
A	✓	✓	x
B	✓	x	✓
C	x	✓	✓
D	x	✓	x

2. What are the names of the compounds shown in the reaction scheme below?



	W	X	Y	Z
A	ethane	ethene	ethanol	ethanoic acid
B	ethane	ethene	ethanoic acid	ethanol
C	ethene	ethane	ethanol	ethanoic acid
D	ethene	ethane	ethanoic acid	ethanol

3. The diagram shows the structure of a compound.



Which functional groups does this molecule contain?

	carboxylic acid	alkene	alcohol
A	no	no	no
B	no	yes	yes
C	yes	no	yes
D	yes	yes	yes

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- 4 Increasing the number of atoms in one molecule of a hydrocarbon increases the amount of energy released when it burns.

What is the correct order?

	less energy released	→	more energy released
A	ethene	ethane	methane
B	ethene	methane	ethane
C	methane	ethane	ethene
D	methane	ethene	ethane

- 5 The list gives the names of four organic compounds.

ethane

ethanoic acid

ethanol

ethene

Which bond do all four compounds contain?

A C–C

B C=C

C C–H

D C–O

- 6 Organic compounds may have names ending in -ane, -ene, -ol or -oic acid.

How many of these endings indicate the compounds contain double bonds in their molecules?

A 1

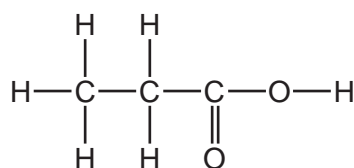
B 2

C 3

D 4

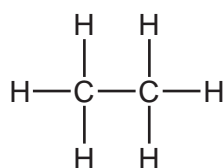
- 7 Which structure is correctly named?

A



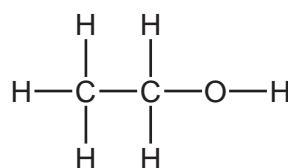
ethanoic acid

B



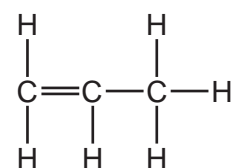
ethene

C



ethanol

D



propane