

9 Which compound has an empirical formula that is the same as its molecular formula?

- A** butane
- B** but-1-ene
- C** butanoic acid
- D** butan-1-ol

8 A compound is analysed and found to contain 85.7% carbon and 14.3% hydrogen only.

What is its empirical formula?

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|-------------|--------------------------|--|---------------------------|
| A CH | B CH ₂ | C C ₂ H ₄ | D C ₆ H |
|-------------|--------------------------|--|---------------------------|

9 Which formula for the named compound is correct?

- A** calcium oxide, CaO
- B** cobalt(II) chloride, Co₂Cl
- C** sulfur dioxide, S₂O₂
- D** anhydrous copper(II) sulfate, Cu(SO₄)₂

11 An organic compound, Q, contains carbon, hydrogen and oxygen only.

Q contains 40.0% carbon and 6.7% hydrogen by mass.

What is the empirical formula of Q?

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| A CHO | B CH ₂ O | C C ₂ HO ₂ | D C ₃ H ₆ O ₃ |
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