ALBERTA CHEMISTRY 30 · UNIT C · 10 QUESTIONS

Organic Chemistry — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **When the ester ethyl ethanoate is hydrolyzed by reacting it with water, the products of the reaction are**

- A methanoic acid and ethanol
- B ethanoic acid and ethanol
- C ethanoic acid and methanol
- D ethanol and carbon dioxide

Understand It with Pulse | Flag a mistake

2 **When one molecule of ethene undergoes complete combustion, the number of oxygen molecules required is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Which of the following compounds is a structural isomer of but-1-ene?**

- A butane
- B pent-1-ene
- C cyclobutane
- D but-2-yne

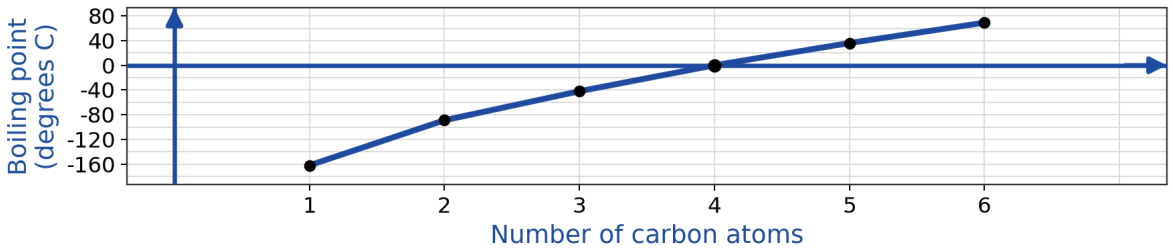
Understand It with Pulse | Flag a mistake

4 **Which of the following compounds has the highest boiling point?**

- A propane
- B 2-methylpropane
- C butane
- D pentane

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5 **The graph shows the boiling points of straight chain alkanes against the number of carbon atoms in the molecule. In fractional distillation, the fraction collected first has the lowest boiling point. The alkane collected first is**



- **A** methane
- **B** butane
- **C** pentane
- **D** hexane

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6 **The number of hydrogen atoms in one molecule of cyclopentane is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **When propene reacts with hydrogen bromide, the major product of the addition reaction is**

A 1-bromopropane

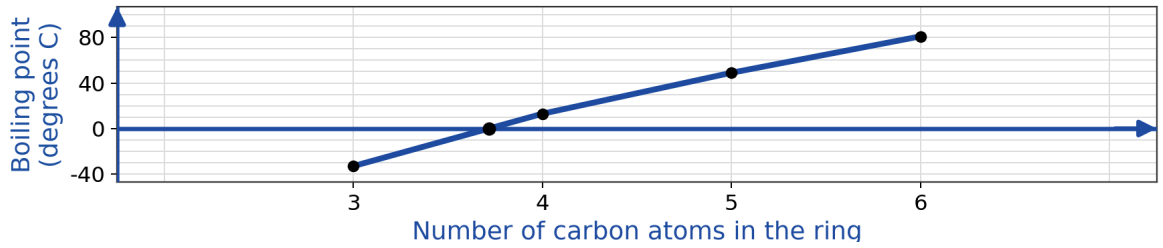
B 1,2-dibromopropane

C 2-bromopropane

D propane

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8 **The graph shows the boiling points of cycloalkanes against the number of carbon atoms in the ring. The boiling point of cyclopentane, which has five carbon atoms, is**



A -33°C

B 13°C

C 49°C

D 81°C

Understand It with Pulse | Flag a mistake

9 **Ethyne undergoes complete hydrogenation to form ethane. The number of hydrogen atoms in the product molecule is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Which of the following compounds is an aromatic compound?**

A cyclohexene

B toluene

C hex-1-yne

D cyclohexane

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. B
2. 3
3. C
4. D
5. A
6. 10
7. C
8. C
9. 6
10. B

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