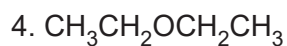
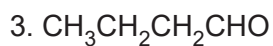
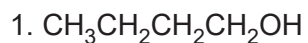


AS Level Chemistry B
H033/01 Foundations of chemistry

Question Set 11

Multiple Choice Questions

1 This question concerns four compounds each with four carbon atoms.



What is the order of their boiling points, largest first?

A 1 2 3 4

B 1 2 4 3

C 4 3 1 2

D 3 4 2 1

Your answer

[1]

2 What is the correct order of boiling points with the lowest first?

A CH_4 CH_3Cl CH_3OH

B CH_4 CH_3OH CH_3Cl

C CH_3Cl CH_3OH CH_4

D CH_3OH CH_3Cl CH_4

Your answer

[1]

3 What is **not** a consequence of hydrogen bonding?

A Water expands on freezing.

B Ethanol is very soluble in water.

C Sodium chloride dissolves in water.

D H_2O has a higher boiling point than H_2S .

Your answer

[1]

4 Which molecule forms permanent dipole – permanent dipole bonds as its strongest intermolecular bond?

- A CH_3CHO
- B CH_3COOH
- C CCl_4
- D CO_2

Your answer

[1]

5 Which statement about instantaneous dipole – induced dipole bonds is correct?

- A They become weaker with increasing chain length of an organic compound.
- B They become stronger with increased branching in organic compounds.
- C They occur between molecules rather than atoms in molecules.
- D In any molecule they are always the weakest intermolecular bond.

Your answer

[1]

6 Which substance does **not** have hydrogen bonding between its molecules?

- A $\text{C}_6\text{H}_5\text{OH}$
- B CH_3CHO
- C CH_3COOH
- D $\text{C}_3\text{H}_7\text{OH}$

Your answer

[1]

Total Marks for Question Set 11: 6

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