

1 Hydrogen chloride is a compound made of small covalent molecules.

1 (a) (i) Would you expect hydrogen chloride to be a gas, a liquid or a solid, at room temperature and pressure? Explain your answer.

Usually gas or liquid [1 mark]

Have low melting/boiling points [1 mark]

Made of small molecules [1 mark]

Forces between molecules are weak [1 mark]

(3 marks)

1 (a) (ii) Carbon dioxide has a very low boiling point. Explain why.

Because carbon dioxide is simple molecular / small molecules [1 mark]

There are weak intermolecular forces (between the molecules) [1 mark]

So a small amount of energy needed (to separate molecules)
or (intermolecular forces) are weak. [1 mark]

(3 marks)

(Total 6 marks)

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