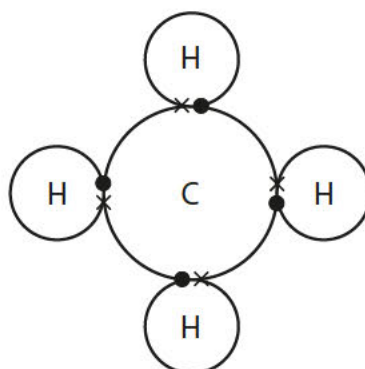


1 Many substances exist as molecules.

(a) The diagram shows the outer shell electrons in a molecule of methane, CH<sub>4</sub>.



(i) Each hydrogen atom is bonded to the carbon atom by a covalent bond.

Give the meaning of the term **covalent bond**.

(1)

---

---

---

(ii) Complete the sentence by putting a cross (☒) in the box next to your answer.

Methane is a typical simple molecular, covalent compound.

A property of methane is that

(1)

- A** it has a high melting point
- B** it is a good conductor of electricity
- C** there are weak bonds in its molecule
- D** it has a low boiling point

