

Chemistry C3 Structure and bonding Knowledge Questions

1. What is the name of the bond formed between 2 non-metals?
2. What is the name of the bond formed between a metal and a non-metal?
3. What is the name for a charged atom?
4. What is the name for a substance made up of 2 more atoms chemically bonded together?
5. What is the name for a substance made up of only 1 type of atom?
6. What is the name for a long chain of monomers joined together?
7. Fullerenes, nanotubes and graphene are all made up of which atom?
8. What is a metal consisting of a mixture of different sized metal atoms called?
9. Name a non-metal substance that conducts electricity.
10. How many bonds form between each carbon atom in diamond?
11. How many bonds form between each carbon atom in graphite?
12. Give a property of all simple molecules.
13. Give an example of a giant ionic lattice.
14. What must be done to a giant ionic substance so that it will conduct electricity?
15. What forms when an atom gains electrons?
16. What forms when an atom loses electrons?
17. Why do atoms bond?
18. Which type of bonding involves the sharing of electrons?
19. What are delocalised electrons free to do?
20. What property do delocalised electrons allow?
21. Why do covalent molecules NOT conduct electricity?
22. Which structures consist of hexagonal rings of carbon atoms?

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1. Covalent
2. Ionic
3. Ion
4. Compound
5. Element
6. Polymer
7. Carbon atoms
8. Alloy
9. Graphite
- 10.4
- 11.3
12. Don't conduct electricity, low melting/boiling point
13. Sodium chloride – or any named salt
14. Melt or dissolve it.
15. Negative ion forms
16. Positive ion forms
17. To get full outer electron shells
18. Covalent
19. Move (throughout a structure)
20. Conduction of electricity/thermal energy
21. They are neutral
22. Fullerenes