

Ionic Bonding

1. This question is about magnesium chloride

a. Draw the dot and cross diagram to show the bonding in magnesium chloride. (3)

b. Describe the structure and bonding in magnesium chloride (4)

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c. Write a balanced symbol equation for the reaction of magnesium with chlorine, including state symbols (3)

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d. Explain, in terms of electrons, what happens to when sodium and oxygen react to form sodium oxide (4)

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e. Explain why magnesium chloride has a very high melting point (4)

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f. Discuss the electrical conductivity of magnesium chloride (3)

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