

7. Information about two ionic compounds are shown below:

Compound	Melting point °C	Does it conduct electricity when solid?	Does it conduct electricity when molten?
Magnesium oxide	2800	No	Yes
Sodium chloride	804	No	Yes

a) Explain the difference in conductivity of the ionic compounds when solid and when molten.

b) Explain why ionic compounds have high melting points.

c) Suggest why magnesium oxide has a higher melting point than sodium chloride.