

Q → How ionisation energy and electron affinity influence the formation of ionic bonding?

Q → What are ionic solids? Explain the conductivity in ionic solids.

Q → Why ionic compounds are poor conductors of heat and electricity in solid state, but good conductors in the molten state.

Q → Define Lattice energy. On what factors it depends?

Q → How does solubility of ionic solids depend upon lattice energy?

Q → What is Born-Haber cycle? How it is used to calculate the lattice energy of NaCl?

Q → Explain the applications of Born-Haber cycle.

Q → Write down the Born-Landé Equation and define the terms involved in it.

(H) Q → Derive the Born-Landé equation explaining the terms used in it. Use this equation to calculate the lattice energy of KBr for which $r_0 = 3.28 \text{ \AA}$ and $n = 9.5$.