

6.4: Energetics of Ionic Solids

Learning objectives for this unit are to:

- Use Coulomb's Law and periodic trends to explain and predict the properties of ionic compounds such as lattice energies and melting points
 - Given appropriate thermodynamic data, use a Born-Haber cycle to calculate experimental lattice energy of an ionic compound
 - Use the Born-Landé and Kapustinskii equations to calculate lattice energy of an ionic compound
 - Explain discrepancies between experimental and theoretical values for lattice energies
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