

9.13: Discussion Questions

- Explain why lattice energy calculations are very accurate for NaCl and CaCl₂, but less accurate (by about 10%) for AgCl and PbCl₂. Does the Born-Mayer equation under- or overestimate the latter values?
 - Fluorine is more electronegative than oxygen. However, for many transition metals, we can make higher oxidation states in oxides than we can in fluorides. For example, Mn(IV) is stable in an oxide (MnO₂), but MnF₄ is unstable relative to MnF₃ and fluorine.^[21] Can you explain this in terms of lattice energies?
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