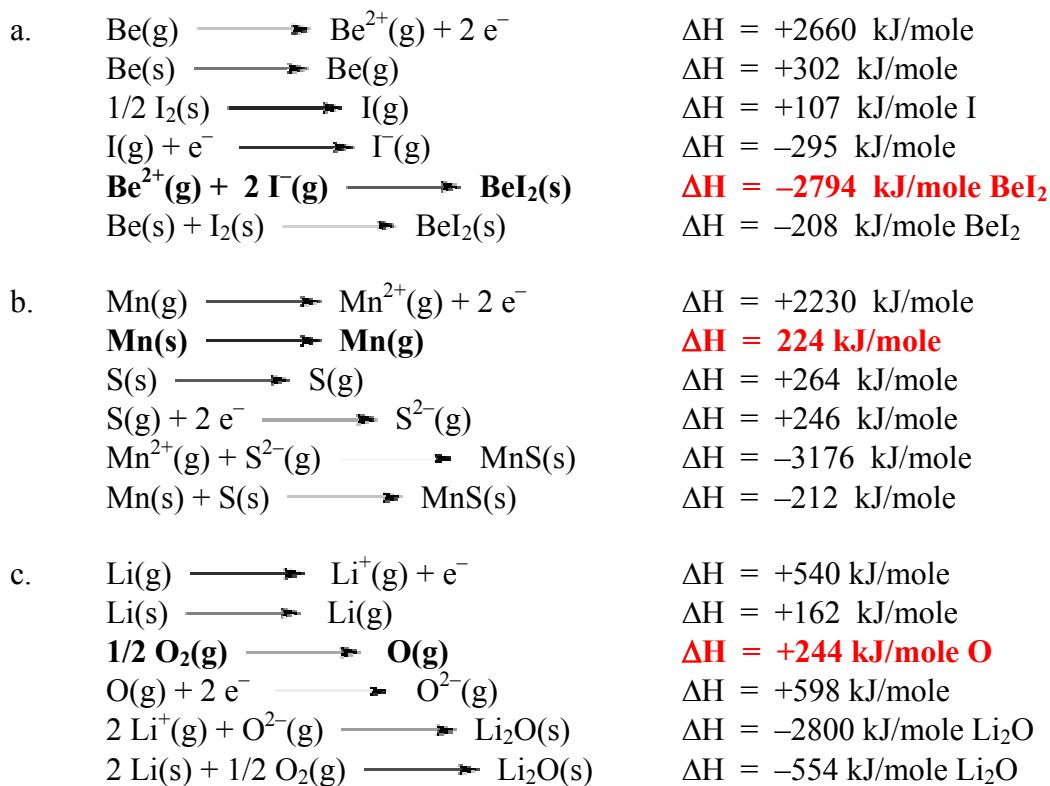
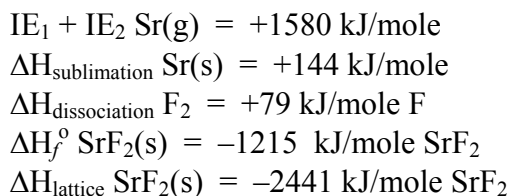


## Chapter 8: Bonding in Ionic Compounds Worksheet #1

1. Use a Born-Haber Cycle to calculate the missing  $\Delta H$  (bold reaction) of the following:



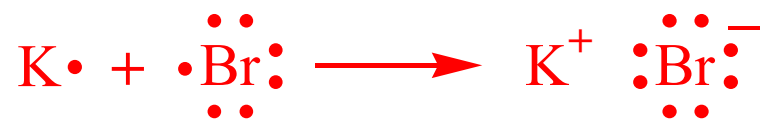
2. Calculate the EA of F(g), in **kJ/mole**, given the following:



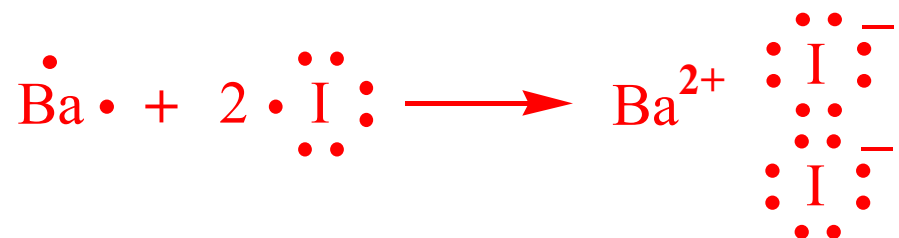
**EA F(g) -328kJ/mole F**

3. Write a chemical equation in **Lewis notation** for the following:

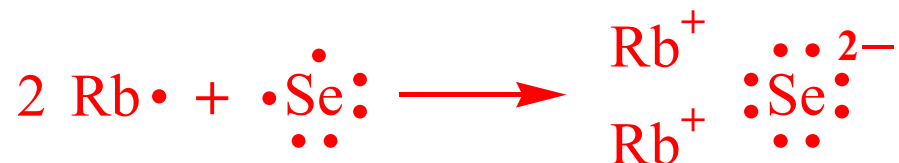
a. potassium + bromine  $\longrightarrow$  **KBr**



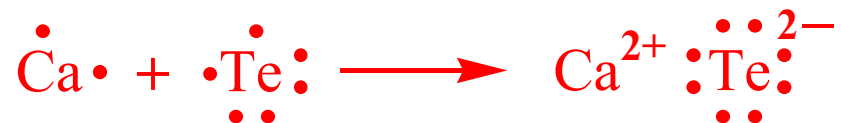
b. barium + iodine  $\longrightarrow$  **BaI<sub>2</sub>**



c. rubidium + selenium  $\longrightarrow$  **Rb<sub>2</sub>Se**



d. calcium + tellurium  $\longrightarrow$  **CaTe**



e. francium + astatine  $\longrightarrow$  **FrAt**

