

Chapter 9 Practice Problems: Chemical Names and Formulas

Section 9.1: Naming Ions

- What is the charge on the ion typically formed by each element?
 - oxygen
 - iodine
 - sodium
 - aluminum
 - nickel, two electrons lost
 - magnesium
- How many electrons does the neutral atom gain or lose when each ion forms?
 - Cr^{3+}
 - P^{3-}
 - Li^+
 - Ca^{2+}
 - Cl^-
 - O^{2-}
- Name each ion. Identify each as a cation or an anion.
 - Sn^{2+}
 - Co^{3+}
 - Br^-
 - K^+
 - H^-
 - Mn^{2+}
- Write the formula (including the charge) for each ion. Use table 9.3 as if necessary.
 - carbonate ion
 - nitrite ion
 - sulfate ion
 - hydroxide ion
 - chromate ion
 - ammonium ion
- Name each of the following ions. Identify each as a cation or an anion.
 - CN^-
 - HCO_3^-
 - PO_4^{3-}
 - Cl^-
 - Ca^{2+}
 - SO_3^{2-}

9.2 Naming and Writing Formulas for Ionic Compounds:

- Write the formulas for these binary ionic compounds.
 - magnesium oxide
 - tin(II) fluoride
 - potassium iodide
 - aluminum chloride
 - sodium sulfide
 - ferric bromide
- Write the formulas for the compounds formed from these pairs of ions.
 - Ba^{2+} and Cl^-
 - Ag^+ and I^-
 - Ca^{2+} and S^{2-}
 - K^+ and Br^-
 - Al^{3+} and O^{2-}
 - Fe^{2+} and O^{2-}
- Name the following binary ionic compounds.
 - MnO_2
 - Li_3N
 - CaCl_2
 - SrBr_2
 - NiCl_2
 - K_2S
 - Fe_3N_2
 - SnCl_4
- Write formulas for the following ionic compounds.
 - sodium phosphate
 - magnesium sulfate
 - sodium hydroxide
 - potassium cyanide
 - ammonium chloride
 - potassium dichromate
- Write formulas for the following ionic compounds.
 - NH_4^+ and SO_4^{2-}
 - K^+ and NO_3^-
 - barium ion and hydroxide ion
 - lithium ion and carbonate ion

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