

CHEM 111 #3 Naming Chemical Compounds Key 2003

Additional Questions:

1. Name the following compounds:

CuCl_2	<u>Copper (II) chloride</u>	NO_2	<u>nitrogen dioxide</u>
MgSe	<u>magnesium selenide</u>	$\text{Fe}(\text{NO}_3)_2$	<u>iron (II) nitrate</u>
SO_3	<u>sulfur trioxide</u>	Cu_3N_2	<u>copper (II) nitride</u>
PbCO_3	<u>lead (II) carbonate</u>	$\text{Co}(\text{HSO}_4)_3$	<u>cobalt (III) bisulfate</u> * (or hydrogen sulfate)
CaSO_4	<u>calcium sulfate</u>	$\text{Na}_2\text{C}_2\text{O}_4$	<u>sodium oxalate</u>
N_2O_4	<u>dinitrogen tetroxide</u>	Li_3PO_4	<u>lithium phosphate</u>

2. Write the chemical formulas for the following compounds

sodium sulfide	<u>Na_2S</u>	cobalt (II) nitrate	<u>$\text{Co}(\text{NO}_3)_2$</u>
sulfur dichloride	<u>SCl_2</u>	calcium acetate	<u>$\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2$</u>
iron (II) oxide	<u>FeO</u>	phosphorus triiodide	<u>PI_3</u>
manganese (II) hydroxide	<u>$\text{Mn}(\text{OH})_2$</u>	aluminum permanganate	<u>$\text{Al}(\text{MnO}_4)_3$</u>
titanium (IV) sulfate	<u>$\text{Ti}(\text{SO}_4)_2$</u>	magnesium hypochlorite	<u>$\text{Mg}(\text{ClO})_2$</u>

3. Write the correct formula for the following acids:

permanganic acid	<u>HMnO_4 (aq)</u>
sulfurous acid	<u>H_2SO_3 (aq)</u>
hydrobromic acid	<u>HBr (aq)</u>
hypochlorous acid	<u>HClO (aq)</u>
bromic acid	<u>HBrO_3 (aq)</u>

or
cobalt (III) hydrogen sulfate