

Review #3: Nomenclature

1. Name these ionic compounds using the IUPAC system:

NH_4F	$\text{Cu}(\text{OH})_2$
$\text{Mg}(\text{BrO}_2)_2$	Li_2S
FeCO_3	NiCO_3
$\text{Al}_2(\text{SO}_4)_3$	$\text{Pb}(\text{ClO}_3)_2$
K_3PO_4	$\text{Ca}(\text{NO}_2)_2$
Na_3P	ZnSO_3
$\text{As}(\text{MnO}_4)_5$	$\text{Cr}_2(\text{HPO}_4)_3$
KClO_4	$\text{Ba}(\text{ClO})_2$
CuSO_3	$\text{Si}(\text{SO}_4)_2$
$\text{Mn}(\text{NO}_3)_2$	$\text{Co}(\text{SCN})_2$
Sn_2C	AgCH_3COO
Cu_3N_2	$\text{Hg}_2\text{C}_2\text{O}_4$
AuHSO_3	Sb_2O_3

2. Write the chemical formulas for these ionic compounds:

iron (III) acetate	aluminum fluoride
arsenic (III) hydroxide	antimony (V) nitrite
sodium bromide	barium iodide
manganese (IV) oxide	hydrogen peroxide
chromium(III) sulfide	magnesium oxide
silver cyanide	lithium carbonate
mercury (II) chromate	ammonium nitrate
cesium dichromate	iron (III) perchlorate
phosphorus (V) sulfate	tin (II) nitride
lithium periodate	potassium hypoiodite
bismuth (V) thiocyanate	zinc chloride
mercury (I) sulfite	gold (I) carbonate
cobalt (II) carbide	calcium chloride

3. Covalently bonded compounds (non-metals with non-metals) are named using the prefix system. Name these compounds using the prefix system:

CO	CCl_4
P_2O_5	N_2O_4
NO_2	CS_2
SeI_2	NH_3