

**Solutions for the Naming Ionic Compounds Practice Worksheet**

- ammonium chloride
- iron (III) nitrate
- titanium (III) bromide
- copper (I) phosphide
- tin (IV) selenide
- gallium arsenide
- lead (IV) sulfate
- beryllium bicarbonate
- manganese (III) sulfite
- aluminum cyanide
- $\text{Cr}(\text{PO}_4)_2$
- $\text{V}(\text{CO}_3)_2$
- $\text{Sn}(\text{NO}_2)_2$
- $\text{Co}_2\text{O}_3$
- $\text{Ti}(\text{C}_2\text{H}_3\text{O}_2)_2$
- $\text{V}_2\text{S}_5$
- $\text{Cr}(\text{OH})_3$
- $\text{LiI}$
- $\text{Pb}_3\text{N}_2$
- $\text{AgBr}$

**Ionic Naming Practice Problems - Solutions**

- $\text{NaBr}$  sodium bromide
- $\text{Sc}(\text{OH})_3$  scandium hydroxide
- $\text{V}_2(\text{SO}_4)_3$  vanadium (III) sulfate
- $\text{NH}_4\text{F}$  ammonium fluoride
- $\text{CaCO}_3$  calcium carbonate
- $\text{NiPO}_4$  nickel (III) phosphate
- $\text{Li}_2\text{SO}_3$  lithium sulfite
- $\text{Zn}_3\text{P}_2$  zinc phosphide
- $\text{Sr}(\text{C}_2\text{H}_3\text{O}_2)_2$  strontium acetate
- $\text{Cu}_2\text{O}$  copper (I) oxide
- $\text{Ag}_3\text{PO}_4$  silver phosphate
- $\text{YClO}_3$  yttrium chlorate
- $\text{SnS}_2$  tin (IV) sulfide
- $\text{Ti}(\text{CN})_4$  titanium (IV) cyanide
- $\text{KMnO}_4$  potassium permanganate
- $\text{Pb}_3\text{N}_2$  lead (II) nitride
- $\text{CoCO}_3$  cobalt (II) carbonate
- $\text{CdSO}_3$  cadmium sulfite
- $\text{Cu}(\text{NO}_2)_2$  copper (I) nitrite
- $\text{Fe}(\text{HCO}_3)_2$  iron (II) bicarbonate
- lithium acetate  $\text{LiC}_2\text{H}_3\text{O}_2$

- iron (II) phosphate  $\text{Fe}_3(\text{PO}_4)_2$
- titanium (II) selenide  $\text{TiSe}$
- calcium bromide  $\text{CaBr}_2$
- gallium chloride  $\text{GaCl}_3$
- sodium hydride  $\text{NaH}$
- beryllium hydroxide  $\text{Be}(\text{OH})_2$
- zinc carbonate  $\text{ZnCO}_3$
- manganese (VII) arsenide  $\text{Mn}_3\text{As}_7$
- copper (II) chlorate  $\text{Cu}(\text{ClO}_3)_2$
- cobalt (III) chromate  $\text{Co}_2(\text{CrO}_4)_3$
- ammonium oxide  $(\text{NH}_4)_2\text{O}$
- potassium hydroxide  $\text{KOH}$
- lead (IV) sulfate  $\text{Pb}(\text{SO}_4)_2$
- silver cyanide  $\text{AgCN}$
- vanadium (V) nitride  $\text{V}_3\text{N}_5$
- strontium acetate  $\text{Sr}(\text{C}_2\text{H}_3\text{O}_2)_2$
- molybdenum sulfate  $\text{Mo}(\text{SO}_4)_3$
- platinum (II) sulfide  $\text{PtS}$
- ammonium sulfate  $(\text{NH}_4)_2\text{SO}_4$

**Ionic/Covalent Compound Naming Solutions**

- $\text{Na}_2\text{CO}_3$  sodium carbonate
- $\text{P}_2\text{O}_5$  diphosphorus pentoxide
- $\text{NH}_3$  ammonia
- $\text{FeSO}_4$  iron (II) sulfate
- $\text{SiO}_2$  silicon dioxide
- $\text{GaCl}_3$  gallium chloride
- $\text{CoBr}_2$  cobalt (II) bromide
- $\text{B}_2\text{H}_4$  diboron tetrahydride
- $\text{CO}$  carbon monoxide
- $\text{P}_4$  phosphorus
- dinitrogen trioxide  $\text{N}_2\text{O}_3$
- nitrogen  $\text{N}_2$
- methane  $\text{CH}_4$
- lithium acetate  $\text{LiC}_2\text{H}_3\text{O}_2$
- phosphorus trifluoride  $\text{PF}_3$
- vanadium (V) oxide  $\text{V}_2\text{O}_5$
- aluminum hydroxide  $\text{Al}(\text{OH})_3$
- zinc sulfide  $\text{ZnS}$
- silicon tetrafluoride  $\text{SiF}_4$
- silver phosphate  $\text{Ag}_3\text{PO}_4$

**(Still) More Naming Practice - Answers**

- $\text{BBr}_3$  boron tribromide
- $\text{CaSO}_4$  calcium sulfate
- $\text{C}_2\text{Br}_6$  dicarbon hexabromide
- $\text{Cr}(\text{CO}_3)_3$  chromium (VI) carbonate
- $\text{Ag}_3\text{P}$  silver phosphide
- $\text{IO}_2$  iodine dioxide
- $\text{VO}_2$  vanadium (IV) oxide
- $\text{PbS}$  lead (II) sulfide
- $\text{CH}_4$  methane
- $\text{N}_2\text{O}_3$  dinitrogen trioxide

Write the formulas of the following chemical compounds:

- tetraphosphorus triselenide  $\text{P}_4\text{Se}_3$
- potassium acetate  $\text{KC}_2\text{H}_3\text{O}_2$
- iron (II) phosphide  $\text{Fe}_3\text{P}_2$
- disilicon hexabromide  $\text{Si}_2\text{Br}_6$
- titanium (IV) nitrate  $\text{Ti}(\text{NO}_3)_4$
- diselenium diiodide  $\text{Se}_2\text{I}_2$
- copper (I) phosphate  $\text{Cu}_3\text{PO}_4$
- gallium oxide  $\text{Ga}_2\text{O}_3$
- tetrasulfur dinitride  $\text{S}_4\text{N}_2$
- phosphorus  $\text{P}_4$

**Answers – Naming Chemical Compounds**

- $\text{NaBr}$  sodium bromide
- $\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2$  calcium acetate
- $\text{P}_2\text{O}_5$  diphosphorus pentoxide
- $\text{Ti}(\text{SO}_4)_2$  titanium(IV) sulfate
- $\text{FePO}_4$  iron(III) phosphate
- $\text{K}_3\text{N}$  potassium nitride
- $\text{SO}_2$  sulfur dioxide
- $\text{CuOH}$  copper(I) hydroxide
- $\text{Zn}(\text{NO}_2)_2$  zinc nitrite
- $\text{V}_2\text{S}_3$  vanadium(III) sulfide