

**Name the following compounds.**

*(Note: The answers to these examples are shown at the end of this document.)*

CrCl <sub>2</sub>	
NH <sub>4</sub> NO <sub>2</sub>	
KIO <sub>3</sub>	
HClO <sub>2</sub>	
CaSO <sub>3</sub>	
AgCN	
ZnBr <sub>2</sub>	
H <sub>2</sub> S(g)	
H <sub>2</sub> S(aq)	
V(NO <sub>3</sub> ) <sub>3</sub>	
Co(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	
Au <sub>2</sub> S <sub>3</sub>	
Au <sub>2</sub> S	
GeBr <sub>4</sub>	
HC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	
K <sub>2</sub> CrO <sub>4</sub>	
Fe(OH) <sub>2</sub>	
I <sub>2</sub> O <sub>4</sub>	
I <sub>4</sub> O <sub>9</sub>	
C <sub>2</sub> H <sub>6</sub>	
HBrO	
P <sub>2</sub> Se <sub>3</sub>	
KSCN	
H <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	
BaSO <sub>4</sub>	
Fe <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub>	
(NH <sub>4</sub> ) <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	
C <sub>8</sub> H <sub>18</sub>	
NaNO <sub>2</sub>	
K <sub>3</sub> PO <sub>4</sub>	
KMnO <sub>4</sub>	
H <sub>2</sub> SeO <sub>3</sub>	
C <sub>4</sub> H <sub>10</sub>	

**Write formulas for the following compounds.**

*(Note: The answers to these examples are shown at the end of this document.)*

sodium hydrogen phosphate	
magnesium dihydrogen phosphate	
lithium selenide	
sodium hydride	
nickel(II) cyanide	
iron(II) oxide	
barium sulfite	
antimony pentafluoride	
magnesium carbonate	
tetraarsenic decaoxide	
ammonium thiocyanate	
potassium thiosulfate	
molybdenum(IV) sulfide	
tin(IV) chloride	
calcium phosphide	
boron trichloride	
calcium oxalate	
hexane	
magnesium bromate	
gold(III) nitrate	
mercury(I) chloride	
mercury(II) chloride	
strontium phosphate	
lead(IV) oxide	
mercury(II) acetate	
ammonium hydrogen phosphate	
carbonic acid	
propane	
methane	
arsenous acid	

**Name the following compounds (answers).**

$\text{CrCl}_2$	chromium(II) chloride
$\text{NH}_4\text{NO}_2$	ammonium nitrite
$\text{KIO}_3$	potassium iodate
$\text{HClO}_2$	chlorous acid
$\text{CaSO}_3$	calcium sulfite
$\text{AgCN}$	silver(I) cyanide
$\text{ZnBr}_2$	zinc(II) bromide
$\text{H}_2\text{S}(\text{g})$	hydrogen sulfide
$\text{H}_2\text{S}(\text{aq})$	hydrosulfuric acid
$\text{V}(\text{NO}_3)_3$	vanadium(III) nitrate
$\text{Co}(\text{C}_2\text{H}_3\text{O}_2)_2$	cobalt(II) acetate
$\text{Au}_2\text{S}_3$	gold(III) sulfide
$\text{Au}_2\text{S}$	gold(I) sulfide
$\text{GeBr}_4$	germanium tetrabromide
$\text{HC}_2\text{H}_3\text{O}_2$	acetic acid
$\text{K}_2\text{CrO}_4$	potassium chromate
$\text{Fe}(\text{OH})_2$	iron(II) hydroxide
$\text{I}_2\text{O}_4$	diiodine tetroxide
$\text{I}_4\text{O}_9$	tetraiodine nonoxide
$\text{C}_2\text{H}_6$	ethane
$\text{HBrO}$	hypobromous acid
$\text{P}_2\text{Se}_3$	diphosphorus triselenide
$\text{KSCN}$	potassium thiocyanate
$\text{H}_2\text{S}_2\text{O}_3$	thiosulfuric acid
$\text{Na}_2\text{S}_2\text{O}_3$	sodium thiosulfate
$\text{BaSO}_4$	barium sulfate
$\text{Fe}_2(\text{CO}_3)_3$	iron(III) carbonate
$(\text{NH}_4)_2\text{C}_2\text{O}_4$	ammonium oxalate
$\text{C}_8\text{H}_{18}$	octane
$\text{NaNO}_2$	sodium nitrite
$\text{K}_3\text{PO}_4$	potassium phosphate
$\text{KMnO}_4$	potassium permanganate
$\text{H}_2\text{SeO}_3$	selenous acid
$\text{C}_4\text{H}_{10}$	butane

**Write formulas for the following compounds (answers).**

sodium hydrogen phosphate	$\text{Na}_2\text{HPO}_4$
magnesium dihydrogen phosphate	$\text{Mg}(\text{H}_2\text{PO}_4)_2$
lithium selenide	$\text{Li}_2\text{Se}$
sodium hydride	$\text{NaH}$
nickel(II) cyanide	$\text{Ni}(\text{CN})_2$
iron(II) oxide	$\text{FeO}$
barium sulfite	$\text{BaSO}_3$
antimony pentafluoride	$\text{SbF}_5$
magnesium carbonate	$\text{MgCO}_3$
tetraarsenic decaoxide	$\text{As}_4\text{O}_{10}$
ammonium thiocyanate	$\text{NH}_4\text{SCN}$
potassium thiosulfate	$\text{K}_2\text{S}_2\text{O}_3$
molybdenum(IV) sulfide	$\text{MoS}_2$
tin(IV) chloride	$\text{SnCl}_4$
calcium phosphide	$\text{Ca}_3\text{P}_2$
boron trichloride	$\text{BCl}_3$
calcium oxalate	$\text{CaC}_2\text{O}_4$
hexane	$\text{C}_6\text{H}_{14}$
magnesium bromate	$\text{Mg}(\text{BrO}_3)_2$
gold(III) nitrate	$\text{Au}(\text{NO}_3)_3$
mercury(I) chloride	$\text{Hg}_2\text{Cl}_2$
mercury(II) chloride	$\text{HgCl}_2$
strontium phosphate	$\text{Sr}_3(\text{PO}_4)_2$
lead(IV) oxide	$\text{PbO}_2$
mercury(II) acetate	$\text{Hg}(\text{C}_2\text{H}_3\text{O}_2)_2$
ammonium hydrogen phosphate	$(\text{NH}_4)_2\text{HPO}_4$
carbonic acid	$\text{H}_2\text{CO}_3$
propane	$\text{C}_3\text{H}_8$
methane	$\text{CH}_4$
arsenous acid	$\text{H}_3\text{AsO}_3$