

## Ionic Compound Nomenclature

**Fill in the formulas and names of the ionic compounds**

	$\text{Li}^+$	$\text{Mg}^{2+}$	$\text{Al}^{3+}$	$\text{NH}_4^+$	$\text{Fe}^{2+}$	$\text{Pb}^{4+}$
$\text{Cl}^-$						
$\text{O}^{2-}$						
$\text{N}^{3-}$						
$\text{OH}^-$						
$\text{NO}_3^-$						
$\text{SO}_4^{2-}$						
$\text{PO}_4^{3-}$						

**Fill in the blanks**

Formula	Name
$\text{MgCl}_2$	
	Aluminum sulfide
	Ammonium sulfate
$\text{Fe}_3(\text{PO}_4)_2$	
	Calcium hydroxide
$\text{Na}_3\text{PO}_4$	
	Copper (I) oxide
	Magnesium nitride
$\text{PbSO}_4$	
$\text{Fe}(\text{NO}_3)_2$	

## Ionic Compound Nomenclature

### ANSWERS

	$\text{Li}^+$	$\text{Mg}^{2+}$	$\text{Al}^{3+}$	$\text{NH}_4^+$	$\text{Fe}^{2+}$	$\text{Pb}^{4+}$
$\text{Cl}^-$	$\text{LiCl}$ – lithium chloride	$\text{MgCl}_2$ – magnesium chloride	$\text{AlCl}_3$ – aluminum chloride	$\text{NH}_4\text{Cl}$ – ammonium chloride	$\text{FeCl}_2$ – iron (II) chloride	$\text{PbCl}_4$ – lead (IV) chloride
$\text{O}^{2-}$	$\text{Li}_2\text{O}$ – lithium oxide	$\text{MgS}$	$\text{Al}_2\text{S}_3$	$(\text{NH}_4)_2\text{S}$	$\text{FeS}$	$\text{PbS}_2$
$\text{N}^{3-}$	$\text{Li}_3\text{N}$ – lithium nitride	$\text{Mg}_3\text{N}_2$	$\text{AlN}$	$(\text{NH}_4)_3\text{N}$	$\text{Fe}_3\text{N}_2$	$\text{Pb}_3\text{N}_4$
$\text{OH}^-$	$\text{LiOH}$ – lithium hydroxide	$\text{Mg}(\text{OH})_2$	$\text{Al}(\text{OH})_3$	$\text{NH}_4\text{OH}$	$\text{Fe}(\text{OH})_2$	$\text{Pb}(\text{OH})_4$
$\text{NO}_3^-$	$\text{LiNO}_3$	$\text{Mg}(\text{NO}_3)_2$	$\text{Al}(\text{NO}_3)_3$	$\text{NH}_4\text{NO}_3$	$\text{Fe}(\text{NO}_3)_2$	$\text{Pb}(\text{NO}_3)_4$
$\text{SO}_4^{2-}$	$\text{Li}_2\text{SO}_4$	$\text{Mg SO}_4$	$\text{Al}_2(\text{SO}_4)_3$	$(\text{NH}_4)_2\text{SO}_4$	$\text{Fe SO}_4$	$\text{Pb}(\text{SO}_4)_2$
$\text{PO}_4^{3-}$	$\text{Li}_3\text{PO}_4$	$\text{Mg}_3(\text{PO}_4)_2$	$\text{Al PO}_4$	$(\text{NH}_4)_3\text{PO}_4$	$\text{Fe}_3(\text{PO}_4)_2$	$\text{Pb}_3(\text{PO}_4)_4$

Formula	Name
$\text{MgCl}_2$	Magnesium chloride
$\text{Al}_2\text{S}_3$	Aluminum sulfide
$(\text{NH}_4)_2\text{SO}_4$	Ammonium sulfate
$\text{Fe}_3(\text{PO}_4)_2$	Iron (II) phosphate
$\text{Ca}(\text{OH})_2$	Calcium hydroxide
$\text{Na}_3\text{PO}_4$	Sodium phosphate
$\text{Cu}_2\text{O}$	Copper (I) oxide
$\text{Mg}_3\text{N}_2$	Magnesium nitride
$\text{PbSO}_4$	Lead (II) sulfate
$\text{Fe}(\text{NO}_3)_2$	Iron (II) nitrate