

FORMULAS FOR IONIC COMPOUNDS

1. Write the chemical formula for the ionic compounds made from the following elements.

Elements	metal ion	non-metal ion	Chemical Formula	Name
potassium and iodine	K^{+1}	I^{-1}	KI	Potassium Iodide
barium and chlorine	Ba^{2+}	Cl^{-1}	$BaCl_2$	Barium Chloride
sodium and oxygen	Na^{+1}	O^{2-}	Na_2O	sodium Oxide
aluminum and nitrogen	Al^{3+}	N^{3-}	AlN	Aluminum Nitride
lithium and sulfur	Li^{+1}	S^{2-}	Li_2S	Lithium Sulfide
magnesium and oxygen	Mg^{+2}	O^{2-}	MgO	Magnesium Oxide
calcium and chlorine	Ca^{2+}	Cl^{-1}	$CaCl_2$	calcium chloride
boron and chlorine	B^{3+}	Cl^{-1}	BCl_3	boron chloride
beryllium and sulfur	Be^{2+}	S^{2-}	BeS	beryllium sulfide

2. Complete the chart below and write the ionic formulas to complete it. A few have been done for you.

	F	Cl	O^{2-}	S^{2-}	N^{3-}	P^{3-}
Li^{+1}	LiF	$LiCl$	Li_2O	Li_2S	Li_3N	Li_3P
Na^{+1}	NaF	$NaCl$	Na_2O	Na_2S	Na_3N	Na_3P
K^{+1}	KF	KCl	K_2O	K_2S	K_3N	K_3P
Be^{2+}	BeF_2	$BeCl_2$	BeO	BeS	Be_3N_2	Be_3P_2
Mg^{2+}	MgF_2	$MgCl_2$	MgO	MgS	Mg_3N_2	Mg_3P_2
Ca^{2+}	CaF_2	$CaCl_2$	CaO	CaS	Ca_3N_2	Ca_3P_2
Al^{3+}	AlF_3	$AlCl_3$	Al_2O_3	Al_2S_3	AlN	AlP
Ga^{3+}	GaF_3	$GaCl_3$	Ga_2O_3	Ga_2S_3	GaN	GaP
B^{3+}	BF_3	BCl_3	B_2O_3	B_2S_3	BN	BP

Formula Of An Ionic Compound Lab Answers

Christian Drosten



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