

## Elements and Compounds Used in the Chemical Reactions Lab – Science 9

Chemical Formula of the element or compound	Positive ion (formula)	Negative ion (formula)	Name of the polyatomic ion	Chemical Name	Common Name
H <sub>2</sub>	Not applicable (element)	Not applicable (element)	Not applicable (element)	hydrogen	hydrogen gas
Mg	Not applicable (element)	Not applicable (element)	Not applicable (element)	Magnesium	Not applicable (same as chemical name)
KI	K <sup>+</sup>	I <sup>-</sup>	Not applicable (ion of a single element)	potassium iodide	Not applicable (same as chemical name)
BaCl <sub>2</sub>	Ba <sup>2+</sup>	Cl <sup>-</sup>	Not applicable (ion of a single element)	barium chloride	Not applicable (same as chemical name)
MgCl <sub>2</sub>	Mg <sup>2+</sup>	Cl <sup>-</sup>	Not applicable (ion of a single element)	magnesium chloride	Not applicable (same as chemical name)
NaCl	Na <sup>+</sup>	Cl <sup>-</sup>	Not applicable (ion of a single element)	sodium chloride	table salt
HCl	H <sup>+</sup>	Cl <sup>-</sup>	Not applicable (ion of a single element)	hydrogen chloride	hydrochloric acid
KOH	K <sup>+</sup>	OH <sup>-</sup>	hydroxide	potassium hydroxide	Not applicable (same as chemical name)
NaOH	Na <sup>+</sup>	OH <sup>-</sup>	hydroxide	sodium hydroxide	Not applicable (same as chemical name)
H <sub>2</sub> O (also known as HOH)	H <sup>+</sup>	OH <sup>-</sup>	hydroxide	hydrogen hydroxide	Water

Chemical Formula of the element or compound	Positive ion (formula)	Negative ion (formula)	Name of the polyatomic ion	Chemical Name	Common Name
$\text{CuSO}_4$	$\text{Cu}^{2+}$	$\text{SO}_4^{2-}$	sulfate	copper (II) sulfate	Not applicable (same as chemical name)
$\text{Pb}(\text{NO}_3)_2$	$\text{Pb}^{2+}$	$\text{NO}_3^-$	nitrate	lead (II) nitrate	Not applicable (same as chemical name)
$\text{K}_2\text{CrO}_4$	$\text{K}^+$	$\text{CrO}_4^{2-}$	chromate	potassium chromate	Not applicable (same as chemical name)
$\text{Na}_3\text{PO}_4$	$\text{Na}^+$	$\text{PO}_4^{3-}$	phosphate	sodium phosphate	Not applicable (same as chemical name)
$\text{Na}_2\text{CO}_3$	$\text{Na}^+$	$\text{CO}_3^{2-}$	carbonate	sodium carbonate	Not applicable (same as chemical name)