

CHEM 1061 Ions To Memorize

Common Polyatomic Ions

Acetate	$\text{C}_2\text{H}_3\text{O}_2^-$
Ammonium	NH_4^+
Bicarbonate	HCO_3^-
Carbonate	CO_3^{2-}
Chlorate	ClO_3^-
Chromate	CrO_4^{2-}
Cyanide	CN^-
Dichromate	$\text{Cr}_2\text{O}_7^{2-}$
Hydroxide	OH^-
Nitrate	NO_3^-
Oxalate	$\text{C}_2\text{O}_4^{2-}$
Phosphate	PO_4^{3-}
Sulfate	SO_4^{2-}

Common Metal Ions

Cadmium	Cd^{2+}
Silver	Ag^+
Zinc	Zn^{2+}

Note: Charges for other metal ions may be determined based on their position in the Periodic Table (Groups IA, IIA, IIIA) or by designating the charge with a Roman numeral (for the remaining transition elements, as well as tin, lead, bismuth, and antimony).

Note: You will also be responsible for knowing the names of other polyatomic ions, such as those ending with *-ite*. However, if you memorize the ions above, you can easily derive the names of the other polyatomic ions.