

# AP Chemistry Polyatomic List

1. Memorize all of the Polyatomic Ions: Name, Formula, and Charge.
2. Memorize all of the Binary Compounds: Name and Formula.
3. Memorize all Names and Formulas on back.

+1 CHARGE		-1 CHARGE		-2 CHARGE		-3 CHARGE	
ion	name	ion	name	ion	name	ion	name
$\text{NH}_4^+$	ammonium	$\text{H}_2\text{PO}_4^-$	dihydrogen phosphate	$\text{HPO}_4^{2-}$	hydrogen phosphate	$\text{PO}_4^{3-}$	phosphate
$\text{H}_3\text{O}^+$	hydronium	$\text{HCO}_3^-$	hydrogen carbonate	$\text{CO}_3^{2-}$	carbonate	$\text{AsO}_4^{3-}$	arsenate
$\text{Hg}_2^{2+}$	Mercury I	$\text{HSO}_3^-$	hydrogen sulfite	$\text{SO}_3^{2-}$	sulfite		
		$\text{HSO}_4^-$	hydrogen sulfate	$\text{SO}_4^{2-}$	sulfate		
		$\text{NO}_2^-$	nitrite	$\text{S}_2\text{O}_3^{2-}$	thiosulfate		
		$\text{NO}_3^-$	nitrate	$\text{SiO}_3^{2-}$	silicate		
		$\text{OH}^-$	hydroxide	$\text{C}_2\text{O}_4^{2-}$	oxalate		
		$\text{CH}_3\text{COO}^-$	acetate	$\text{CrO}_4^{2-}$	chromate		
		$\text{CN}^-$	cyanide	$\text{Cr}_2\text{O}_7^{2-}$	dichromate		
		$\text{CNO}^-$	cyanate	$\text{MoO}_4^{2-}$	molybdate		
		$\text{CNS}^-$	thiocyanate	$\text{O}_2^{2-}$	peroxide		
		$\text{O}_2^-$	superoxide				
		$\text{MnO}_4^-$	permanganate				
		$\text{ClO}^-$	hypochlorite				
		$\text{ClO}_2^-$	chlorite				
		$\text{ClO}_3^-$	chlorate				
		$\text{ClO}_4^-$	perchlorate				
		$\text{BrO}_3^-$	bromate				
		$\text{IO}_3^-$	iodate				

Formula	Common Name	Formula	Common Name
$\text{H}_2\text{O}$	Water	$\text{PH}_3$	Phosphine
$\text{H}_2\text{O}_2$	Hydrogen peroxide	$\text{AsH}_3$	Arsine
$\text{NH}_3$	Ammonia	$\text{NO}$	Nitric Oxide
$\text{N}_2\text{H}_4$	Hydrazine	$\text{N}_2\text{O}$	Nitrous oxide
$\text{C}_2\text{H}_2$	Acetylene	$\text{CH}_4$	Methane

# Element List

Aluminum	Al	Antimony	Sb	Argon	Ar
Arsenic	As	Barium	Ba	Beryllium	Be
Bismuth	Bi	Boron	B	Bromine	Br
Cadmium	Cd	Calcium	Ca	Carbon	C
Cesium	Cs	Chlorine	Cl	Chromium	Cr
Cobalt	Co	Copper	Cu	Fluorine	F
Gallium	Ga	Gold	Au	Hafnium	Hf
Helium	He	Hydrogen	H	Iodine	I
Iridium	Ir	Iron	Fe	Krypton	Kr
Lanthanum	La	Lead	Pb	Lithium	Li
Magnesium	Mg	Manganese	Mn	Mercury	Hg
Molybdenum	Mo	Neon	Ne	Nickel	Ni
Nitrogen	N	Oxygen	O	Palladium	Pd
Phosphorus	P	Platinum	Pt	Plutonium	Pu
Potassium	K	Radium	Ra	Radon	Rn
Scandium	Sc	Selenium	Se	Silicon	Si
Silver	Ag	Sodium	Na	Strontium	Sr
Sulfur	S	Thallium	Tl	Tin	Sn
Titanium	Ti	Tungsten	W	Uranium	U
Vanadium	V	Xeon	Xe	Zinc	Zn