

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
NH_4^+	ammonium	H_2PO_4^-	dihydrogen phosphate	HPO_4^{2-}	hydrogen phosphate	PO_4^{3-}	phosphate
H_3O^+	hydronium	HCO_3^-	hydrogen carbonate	CO_3^{2-}	carbonate	AsO_4^{3-}	arsenate
Hg_2^{2+}	Mercury I	HSO_3^-	hydrogen sulfite	SO_3^{2-}	sulfite		
		HSO_4^-	hydrogen sulfate	SO_4^{2-}	sulfate		
		NO_2^-	nitrite	$\text{S}_2\text{O}_3^{2-}$	thiosulfate		
		NO_3^-	nitrate	SiO_3^{2-}	silicate		
		OH^-	hydroxide	$\text{C}_2\text{O}_4^{2-}$	oxalate		
		CH_3COO^-	acetate	CrO_4^{2-}	chromate		
		CN^-	cyanide	$\text{Cr}_2\text{O}_7^{2-}$	dichromate		
		CNO^-	cyanate	MoO_4^{2-}	molybdate		
		CNS^-	thiocyanate	O_2^{2-}	peroxide		
		O_2^-	superoxide				
		MnO_4^-	permanganate				
		ClO^-	hypochlorite				
		ClO_2^-	chlorite				
		ClO_3^-	chlorate				
		ClO_4^-	perchlorate				
		BrO_3^-	bromate				
		IO_3^-	iodate				

Formula	Common Name	Formula	Common Name
H_2O	Water	PH_3	Phosphine
H_2O_2	Hydrogen peroxide	AsH_3	Arsine
NH_3	Ammonia	NO	Nitric Oxide
N_2H_4	Hydrazine	N_2O	Nitrous oxide
C_2H_2	Acetylene	CH_4	Methane

Element List

Aluminum	Al
Arsenic	As
Bismuth	Bi
Cadmium	Cd
Cesium	Cs
Cobalt	Co
Gallium	Ga
Helium	He
Iridium	Ir
Lanthanum	La
Magnesium	Mg
Molybdenum	Mo
Nitrogen	N
Phosphorus	P
Potassium	K
Scandium	Sc
Silver	Ag
Sulfur	S
Titanium	Ti
Vanadium	V

Antimony	Sb
Barium	Ba
Boron	B
Calcium	Ca
Chlorine	Cl
Copper	Cu
Gold	Au
Hydrogen	H
Iron	Fe
Lead	Pb
Manganese	Mn
Neon	Ne
Oxygen	O
Platinum	Pt
Radium	Ra
Selenium	Se
Sodium	Na
Thallium	Tl
Tungsten	W
Xeon	Xe

Argon	Ar
Beryllium	Be
Bromine	Br
Carbon	C
Chromium	Cr
Fluorine	F
Hafnium	Hf
Iodine	I
Krypton	Kr
Lithium	Li
Mercury	Hg
Nickel	Ni
Palladium	Pd
Plutonium	Pu
Radon	Rn
Silicon	Si
Strontium	Sr
Tin	Sn
Uranium	U
Zinc	Zn