

Monoatomic ions you should know

$1+$ H																	$1-$ H	
$1+$ Li	$2+$ Be											$3+$ B	$4-$ C	$3-$ N	$2-$ O	$1-$ F		
$1+$ Na	$2+$ Mg											$3+$ Al		$3-$ P	$2-$ S	$1-$ Cl		
$1+$ K	$2+$ Ca				$2+$ Cr ³⁺	$2+$ Mn ³⁺	$2+$ Fe ³⁺	$2+$ Co ³⁺	$2+$ Ni ³⁺	$1+$ Cu ²⁺	$2+$ Zn	$3+$ Ga		$3-$ As ₅₊	$2-$ Se	$1-$ Br		
$1+$ Rb	$2+$ Sr											$1+$ Ag	$2+$ Cd	$3+$ In	$2+$ Sn ⁴⁺		$1-$ I	
$1+$ Cs	$2+$ Ba											$1+$ Au ³⁺	$1+$ Hg ²⁺	$1+$ Tl ³⁺	$2+$ Pb ⁴⁺			

Ion	Name	Ion	Old Name	New Name
H ⁺	hydrogen ion /proton	Cr ²⁺	chromous ion	chromium(II) ion
Li ⁺	lithium ion	Cr ³⁺	chromic ion	chromium(III) ion
Na ⁺	sodium ion	Mn ²⁺	manganous ion	manganese(II) ion
K ⁺	potassium ion	Mn ³⁺	manganic ion	manganese(III) ion
Rb ⁺	rubidium ion	Fe ²⁺	ferrous ion	iron(II) ion
Cs ⁺	cesium ion	Fe ³⁺	ferric ion	iron(III) ion
Be ²⁺	beryllium ion	Co ²⁺	cobaltous ion	cobalt(II) ion
Mg ²⁺	magnesium ion	Co ³⁺	cobaltic ion	cobalt(III) ion
Ca ²⁺	calcium ion	Cu ⁺	cuprous ion	copper(I) ion
Sr ²⁺	strontium ion	Cu ²⁺	cupric ion	copper(II) ion
Ba ²⁺	barium ion	Au ⁺	aurous ion	gold(I) ion
Ag ⁺	silver ion	Au ³⁺	auric ion	gold(III) ion
Zn ²⁺	zinc ion	Hg ⁺ (Hg ₂ ²⁺)	mercurous ion	mercury(I) ion
Cd ²⁺	cadmium ion	Hg ²⁺	mercuric ion	mercury(II) ion
B ³⁺	boron ion	Tl ⁺	thallous ion	thallium(I) ion
Al ³⁺	aluminum ion	Tl ³⁺	thallic ion	thallium(III) ion
Ga ³⁺	gallium ion	Sn ²⁺	stannous ion	tin(II) ion
C ⁴⁻	carbide ion	Sn ⁴⁺	stannic ion	tin(IV) ion
N ³⁻	nitride ion	Pb ²⁺	plumbous ion	lead(II) ion
P ³⁻	phosphide ion	Pb ⁴⁺	plumbic ion	lead(IV) ion
As ³⁻	arsenide ion	As ³⁺	arsenous ion	arsenic(III) ion
O ²⁻	oxide ion	As ⁵⁺	arsenic ion	arsenic(V) ion
S ²⁻	sulfide ion			
Se ²⁻	selenide ion			
H ⁻	hydride ion			
F ⁻	fluoride ion			
Cl ⁻	chloride ion			
Br ⁻	bromide ion			
I ⁻	iodide ion			

Polyatomic ions that you should know

Formula	Name	Formula	Name
$C_2H_3O_2^-$	acetate ion	CO_3^{2-}	carbonate ion
NH_4^+	ammonium ion	HCO_3^-	bicarbonate ion
N_3^-	azide ion	PO_3^{3-}	phosphite ion
BO_3^{3-}	borate ion	SO_4^{2-}	sulfate ion
CrO_4^{2-}	chromate ion	HSO_4^-	bisulfate ion
$Cr_2O_7^{2-}$	dichromate ion	SO_3^{2-}	sulfite ion
OCN^-	cyanate ion	HSO_3^-	bisulfite ion
SCN^-	thiocyanate ion	ClO_4^-	perchlorate ion
CN^-	cyanide ion	ClO_3^-	chlorate ion
HO^-	hydroxide ion	ClO_2^-	chlorite ion
$C_2O_4^{2-}$	oxalate ion	ClO^-	hypochlorite ion
MnO_4^-	permanganate ion	BrO_4^-	perbromate ion
O_2^{2-}	peroxide ion	BrO_3^-	bromate ion
O_2^-	superoxide ion	BrO_2^-	bromite ion
$S_2O_3^{2-}$	thiosulfate ion	BrO^-	hypobromite ion
NO_3^-	nitrate ion	IO_4^-	periodate ion
NO_2^-	nitrite ion	IO_3^-	iodate ion
PO_4^{3-}	phosphate ion	IO_2^-	iodite ion
HPO_4^{2-}	hydrogen phosphate ion	IO^-	hypoiodite ion
$H_2PO_4^-$	dihydrogen phosphate ion		