

Table A-7

Charges of Common Polyatomic Ions	
1+	2+
ammonium, NH_4^+	mercury(I), Hg_2^{2+}
1-	2-
acetate $\text{C}_2\text{H}_3\text{O}_2^-$	carbonate, CO_3^{2-}
-OI-	chromate, CrO_4^{2-}
acetate CH_3COO^-	dichromate, $\text{Cr}_2\text{O}_7^{2-}$
amide NH_2^-	hexachloroplatinate(IV), PtCl_6^{2-}
azide N_3^-	hexafluorosilicate, SiF_6^{2-}
benzoate $\text{C}_6\text{H}_5\text{COO}^-$	molybdate, MoO_4^{2-}
bicarbonate HCO_3^-	oxalate, $\text{C}_2\text{O}_4^{2-}$
bisulfate HSO_4^-	peroxide, O_2^{2-}
bromate BrO_3^-	peroxydisulfate, $\text{S}_2\text{O}_8^{2-}$
chlorate ClO_3^-	selenate, SeO_4^{2-}
chlorite ClO_2^-	silicate, SiO_4^{2-}
cyanate CNO^-	sulfate, SO_4^{2-}
cyanide CN^-	sulfite, SO_3^{2-}
formate HCOO^-	tartrate, $\text{C}_4\text{H}_4\text{O}_6^{2-}$
hydroxide OH^-	tellurate, TeO_4^{2-}
hypochlorite ClO^-	tetraborate, $\text{B}_4\text{O}_7^{2-}$
hypophosphite H_2PO_2^-	thiosulfate, $\text{S}_2\text{O}_3^{2-}$
iodate IO_3^-	tungstate, WO_4^{2-}
metaphosphate PO_3^-	3-
nitrate NO_3^-	arsenate, AsO_4^{3-}
nitrite NO_2^-	citrate, $\text{C}_6\text{H}_5\text{O}_7^{3-}$
perchlorate ClO_4^-	hexacyanoferrate(III), $\text{Fe}(\text{CN})_6^{3-}$
periodate IO_4^-	phosphate, PO_4^{3-}
permanganate MnO_4^-	4-
peroxyborate BO_3^-	hexacyanoferrate(II), $\text{Fe}(\text{CN})_6^{4-}$
thiocyanate SCN^-	diphosphate, $\text{P}_2\text{O}_7^{4-}$
vanadate VO_3^-	

Table A-6

Oxidation Numbers of Monatomic Ions			
1+	2+	3+	
cesium, Cs^+	barium, Ba^{2+}	aluminum, Al^{3+}	
copper(I), Cu^+	beryllium, Be^{2+}	antimony(III), Sb^{3+}	
hydrogen, H^+	cadmium, Cd^{2+}	bismuth(III), Bi^{3+}	
indium(I), In^+	calcium, Ca^{2+}	boron, B^{3+}	
lithium, Li^+	chromium(II), Cr^{2+}	cerium(III), Ce^{3+}	
potassium, K^+	cobalt(II), Co^{2+}	cobalt(III), Co^{3+}	
rubidium, Rb^+	copper(I), Cu^{2+}	chromium(III), Cr^{3+}	
silver, Ag^+	iridium(II), Ir^{2+}	gallium(III), Ga^{3+}	
sodium, Na^+	iron(II), Fe^{2+}	indium(III), In^{3+}	
thallium(I), Tl^+	lead(II), Pb^{2+}	iridium(III), Ir^{3+}	
	magnesium, Mg^{2+}	iron(III), Fe^{3+}	
	manganese(II), Mn^{2+}	phosphorus(III), P^{3+}	
	mercury(II), Hg^{2+}	rhodium(III), Rh^{3+}	
	nickel(II), Ni^{2+}	thallium(III), Tl^{3+}	
	platinum(II), Pt^{2+}	titanium(III), Ti^{3+}	
	strontium, Sr^{2+}	uranium(III), U^{3+}	
	tin(II), Sn^{2+}	vanadium(III), V^{3+}	
	titanium(II), Ti^{2+}		
	tungsten(II), W^{2+}		
	vanadium(II), V^{2+}		
	zinc, Zn^{2+}		
	zirconium(II), Zr^{2+}		
4+		5+	
cerium(IV), Ce^{4+}	titanium(IV), Ti^{4+}	antimony(V), Sb^{5+}	
germanium(IV), Ge^{4+}	tin(IV), Sn^{4+}	bismuth(V), Bi^{5+}	
iridium(IV), Ir^{4+}	tungsten(IV), W^{4+}	phosphorus(V), P^{5+}	
lead(IV), Pb^{4+}	uranium(IV), U^{4+}	tungsten(V), W^{5+}	
platinum(IV), Pt^{4+}	vanadium(IV), V^{4+}	uranium(V), U^{5+}	
thorium(IV), Th^{4+}	zirconium(IV), Zr^{4+}	vanadium(V), V^{5+}	
1-	2-	3-	4-
bromide, Br^-	oxide, O^{2-}	nitride, N^{3-}	carbide, C^{4-}
chloride, Cl^-	selenide, Se^{2-}	phosphide, P^{3-}	
fluoride, F^-	sulfide, S^{2-}		
hydride, H^-			
iodide, I^-			