AP-4

Common Cations and Anions

Name of Cation	Formula
aluminum.....	Al^{3+}
ammonium.....	NH_4^{+}
barium.....	Ba^{2+}
bismuth.....	Bi^{3+}
cadmium.....	Cd^{2+}
calcium.....	Ca^{2+}
chromium(III).(chromic).	Cr^{3+}
cobalt(II)....(cobaltous)..	Co^{2+}
copper(I).....(cuprous)...	Cu^{+}
copper(II)....(cupric).....	Cu^{2+}
hydrogen.....(proton)...	H^{+}
hydronium...(oxonium)..	H_3O^{+}
iron(II).....(ferrous).....	Fe^{2+}
iron(III).....(ferric).....	Fe^{3+}
lead(II).....(plumbous)..	Pb^{2+}
magnesium.....	Mg^{2+}
manganese(II).(manganous).	Mn^{2+}
mercury(II)...(mercuric).	Hg^{2+}
mercury(I)....(mercurous)	Hg_2^{2+}
nickel(II)....(nickelous)..	Ni^{2+}
potassium.....	K^{+}
silver(I).....(argentous).	Ag^{+}
sodium.....	Na^{+}
tin(IV).....(stannic).....	Sn^{4+}
tin(II).....(stannous)..	Sn^{2+}
zinc.....	Zn^{2+}

Name of Anion	Formula
acetate.....$CH_3CO_2^-$ or OAc^-	or $C_2H_3O_2^-$
bromide.....	Br^-
carbonate.....	CO_3^{2-}
chlorate.....	ClO_3^-
chloride.....	Cl^-
chlorite.....	ClO_2^-
chromate.....	CrO_4^{2-}
cyanide.....	CN^-
dichromate.....	$Cr_2O_7^{2-}$
fluoride.....	F^-
hydrogen carbonate..... (or bicarbonate)	HCO_3^-
hydrogen sulfate..... (or bisulfate)	HSO_4^-
hydroxide.....	OH^-
hypochlorite.....	ClO^-
iodide.....	I^-
nitrate.....	NO_3^-
nitrite.....	NO_2^-
phosphate.....	PO_4^{3-}
oxalate.....	$C_2O_4^{2-}$
oxide.....	O^{2-}
perchlorate.....	ClO_4^-
permanganate.....	MnO_4^-
sulfate.....	SO_4^{2-}
sulfide.....	S^{2-}
sulfite.....	SO_3^{2-}
sulfate.....	SO_4^{2-}
thiocyanate.....	SCN^-
thiosulfate.....	$S_2O_3^{2-}$