

H	hydrogen	H ⁺	hydrogen ion
Li	lithium	Li ⁺	lithium ion
Na	sodium	Na ⁺	sodium ion
K	potassium	K ⁺	potassium ion
Rb	rubidium	Rb ⁺	rubidium ion
Cs	cesium	Cs ⁺	cesium ion
Be	beryllium	Be ²⁺	beryllium ion
Mg	magnesium	Mg ²⁺	magnesium ion
Ca	calcium	Ca ²⁺	calcium ion
Sr	strontium	Sr ²⁺	strontium ion
Ba	barium	Ba ²⁺	barium ion
Al	aluminum	Al ³⁺	aluminum ion
Ag	silver	Ag ⁺	silver ion
Zn	zinc	Zn ²⁺	zinc ion
Cd	cadmium	Cd ²⁺	cadmium ion
Sc	scandium	Sc ³⁺	scandium ion
Sn	tin	Sn ²⁺	tin(II) ion
		Sn ⁴⁺	tin(IV) ion
Pb	lead	Pb ²⁺	lead(II) ion
		Pb ⁴⁺	lead(IV) ion
Cr	chromium	Cr ²⁺	chromium(II) ion
		Cr ³⁺	chromium(III) ion
Mn	manganese	Mn ²⁺	manganese(II) ion
		Mn ³⁺	manganese(III) ion
Fe	iron	Fe ²⁺	iron(II) ion
		Fe ³⁺	iron(III) ion
Co	cobalt	Co ²⁺	cobalt(II) ion
		Co ³⁺	cobalt(III) ion
Ni	nickel	Ni ²⁺	nickel(II) ion
		Ni ³⁺	nickel(III) ion
Cu	copper	Cu ⁺	copper(I) ion
		Cu ²⁺	copper(II) ion
Hg	mercury	Hg ₂ ²⁺	mercury(I) ion
		Hg ²⁺	mercury(II) ion

stannous ion
stannic ion
plumbous ion
plumbic ion
chromous ion
chromic ion
manganous ion
manganic ion
ferrous ion
ferric ion
cobaltous ion
cobaltic ion
nickelous ion
nickelic ion
cuprous ion
cupric ion
mercurous ion
mercuric ion

H	hydrogen	H ⁻	hydride ion
F	fluorine	F ⁻	fluoride ion
Cl	chlorine	Cl ⁻	chloride ion
Br	bromine	Br ⁻	bromide ion
I	iodine	I ⁻	iodide ion
O	oxygen	O ²⁻	oxide ion
S	sulfur	S ²⁻	sulfide ion
N	nitrogen	N ³⁻	nitride ion
P	phosphorus	P ³⁻	phosphide ion

O ₂ ²⁻	peroxide ion
CN ⁻	cyanide ion
OH ⁻	hydroxide ion

HF(aq) **hydrofluoric acid**
HCl(aq) **hydrochloric acid**
HBr(aq) **hydrobromic acid**
HI(aq) **hydroiodic acid**

H₂S(aq) **hydrosulfuric acid**

HCN(aq) **hydrocyanic acid**

Prefixes for:

of waters in hydrates

or

of atoms in molecular compounds

1	mono
2	di
3	tri
4	tetra
5	penta
6	hexa
7	hepta
8	octa
9	nona
10	deca

NH_4^+ ammonium ion

NO_2^- nitrite ion
 NO_3^- nitrate ion

CO_3^{2-} carbonate ion
 CO_3^{2-} carbonate ion

SO_3^{2-} sulfite ion
 SO_4^{2-} sulfate ion

PO_3^{3-} phosphite ion
 PO_4^{3-} phosphate ion

HCO_2^- hydrogen carbonite ion
 HCO_3^- hydrogen carbonate ion

HSO_3^- hydrogen sulfite ion
 HSO_4^- hydrogen sulfate ion

HPO_3^{2-} hydrogen phosphite ion
 HPO_4^{2-} hydrogen phosphate ion

H_2PO_3^- dihydrogen phosphite ion
 H_2PO_4^- dihydrogen phosphate ion

$\text{HNO}_2(aq)$ nitrous acid
 $\text{HNO}_3(aq)$ nitric acid

$\text{H}_2\text{CO}_2(aq)$ carbonous acid
 $\text{H}_2\text{CO}_3(aq)$ carbonic acid

$\text{H}_2\text{SO}_3(aq)$ sulfurous acid
 $\text{H}_2\text{SO}_4(aq)$ sulfuric acid

$\text{H}_3\text{PO}_3(aq)$ phosphorous acid
 $\text{H}_3\text{PO}_4(aq)$ phosphoric acid

ClO^- hypochlorite ion
 ClO_2^- chlorite ion
 ClO_3^- chlorate ion
 ClO_4^- perchlorate ion

BrO^- hypobromite ion
 BrO_2^- bromite ion
 BrO_3^- bromate ion
 BrO_4^- perbromate ion

IO^- hypoiodite ion
 IO_2^- iodite ion
 IO_3^- iodate ion
 IO_4^- periodate ion

MnO_4^- permanganate ion

$\text{HClO}(aq)$ hypochlorous acid
 $\text{HClO}_2(aq)$ chlorous acid
 $\text{HClO}_3(aq)$ chloric acid
 $\text{HClO}_4(aq)$ perchloric acid

$\text{HBrO}(aq)$ hypobromous acid
 $\text{HBrO}_2(aq)$ bromous acid
 $\text{HBrO}_3(aq)$ bromic acid
 $\text{HBrO}_4(aq)$ perbromic acid

$\text{HIO}(aq)$ hypoiodous acid
 $\text{HIO}_2(aq)$ iodous acid
 $\text{HIO}_3(aq)$ iodic acid
 $\text{HIO}_4(aq)$ periodic acid

$\text{HMnO}_4(aq)$ permanganic acid

$\text{C}_2\text{H}_3\text{O}_2^-$ acetate ion

CrO_4^{2-} chromate ion
 $\text{Cr}_2\text{O}_7^{2-}$ dichromate ion

$\text{HC}_2\text{H}_3\text{O}_2(aq)$ acetic acid

$\text{H}_2\text{CrO}_4(aq)$ chromic acid
 $\text{H}_2\text{Cr}_2\text{O}_7(aq)$ dichromic acid

<u># of Carbons</u>		<u>Alkane</u>		<u>Alkene</u>		<u>Alkyne</u>	
1	meth	CH ₄	methane				
2	eth	C ₂ H ₆	ethane	C ₂ H ₄	ethene	C ₂ H ₂	ethyne
3	prop	C ₃ H ₈	propane	C ₃ H ₆	propene	C ₃ H ₄	propyne
4	but	C ₄ H ₁₀	butane	C ₄ H ₈	butene	C ₄ H ₆	butyne
5	pent	C ₅ H ₁₂	pentane	C ₅ H ₁₀	pentene	C ₅ H ₈	pentyne
6	hex	C ₆ H ₁₄	hexane	C ₆ H ₁₂	hexene	C ₆ H ₁₀	hexyne
7	hept	C ₇ H ₁₆	heptane	C ₇ H ₁₄	heptene	C ₇ H ₁₂	heptyne
8	oct	C ₈ H ₁₈	octane	C ₈ H ₁₆	octene	C ₈ H ₁₄	octyne
9	non	C ₉ H ₂₀	nonane	C ₉ H ₁₈	nonene	C ₉ H ₁₆	nonyne
10	dec	C ₁₀ H ₂₂	decane	C ₁₀ H ₂₀	decene	C ₁₀ H ₁₈	decyne

<u># of Carbons</u>	<u>Alcohol</u>		<u>Carboxylic Acid</u>		<u>Amine</u>	
1	CH ₃ OH	methanol	HCO ₂ H	methanoic acid	CH ₃ NH ₂	methylamine
2	C ₂ H ₅ OH	ethanol	CH ₃ CO ₂ H	ethanoic acid	C ₂ H ₅ NH ₂	ethylamine
3	C ₃ H ₇ OH	propanol	C ₂ H ₅ CO ₂ H	propanoic acid	C ₃ H ₇ NH ₂	propylamine
4	C ₄ H ₉ OH	butanol	C ₃ H ₇ CO ₂ H	butanoic acid	C ₄ H ₉ NH ₂	butylamine
5	C ₅ H ₁₁ OH	pentanol	C ₄ H ₉ CO ₂ H	pentanoic acid	C ₅ H ₁₁ NH ₂	pentylamine
6	C ₆ H ₁₃ OH	hexanol	C ₅ H ₁₁ CO ₂ H	hexanoic acid	C ₆ H ₁₃ NH ₂	hexylamine
7	C ₇ H ₁₅ OH	heptanol	C ₆ H ₁₃ CO ₂ H	heptanoic acid	C ₇ H ₁₅ NH ₂	heptylamine
8	C ₈ H ₁₇ OH	octanol	C ₇ H ₁₅ CO ₂ H	octanoic acid	C ₈ H ₁₇ NH ₂	octylamine
9	C ₉ H ₁₉ OH	nonanol	C ₈ H ₁₇ CO ₂ H	nonanoic acid	C ₉ H ₁₉ NH ₂	nonylamine
10	C ₁₀ H ₂₁ OH	decanol	C ₉ H ₁₉ CO ₂ H	decanoic acid	C ₁₀ H ₂₁ NH ₂	decylamine