

Names and Oxidation Numbers of Common Ions, Elements, and Polyatomic Ions

CATIONS

Oxidation Number of 1+

NH_4^+	ammonium	Li^+	lithium
Cu^+	copper (I), cuprous	K^+	potassium
H^+	hydrogen	Ag^+	silver

Na^+	sodium
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Oxidation Number of 2+

Ba^{2+}	barium	Mn^{2+}	manganese (II), manganous
Cd^{2+}	cadmium	Hg^{2+}	mercury (II), mercuric
Ca^{2+}	calcium	Hg_2^{2+}	mercury (I), mercurous
Cr^{2+}	chromium (II), chromous	Ni^{2+}	nickel (II), nickelous
Co^{2+}	cobalt (II), cobaltous	Sr^{2+}	strontium
Cu^{2+}	copper (II), cupric	Sn^{2+}	tin (II), stannous
Fe^{2+}	iron (II), ferrous	UO_2^{2+}	uranyl
Pb^{2+}	lead (II), plumbous	VO^{2+}	vanadyl
Mg^{2+}	magnesium	Zn^{2+}	zinc

Number of 3+

Al^{3+}	aluminum	Co^{3+}	cobalt (III), cobaltic
As^{3+}	arsenic (III), arsenious	Fe^{3+}	iron (III), ferric
Cr^{3+}	chromium (III), chromic	Mn^{3+}	manganese (III), manganic

Oxidation Number of 4+

Pb^{4+}	lead (IV), plumbic	Sn^{4+}	tin (IV), stannic
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Oxidation Number of 5+

V^{5+}	vanadium (V)	As^{5+}	arsenic (V), arsenic
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ANIONS

Oxidation Number of 1-

CH_3COO^-	acetate or	H^-	hydride
$\text{C}_2\text{H}_3\text{O}_2^-$	acetate	ClO^-	hypochlorite
Br^-	bromide	I^-	iodide
ClO_3^-	chlorate	NO_3^-	nitrate
Cl^-	chloride	NO_2^-	nitrite
CN^-	cyanide	ClO_4^-	perchlorate
F^-	fluoride	IO_4^-	periodate
OH^-	hydroxide	MnO_4^-	permanganate

Oxidation Number of 2-

CO_3^{2-}	carbonate	$\text{C}_2\text{O}_4^{2-}$	oxalate
CrO_4^{2-}	chromate	O_2^{2-}	peroxide
$\text{Cr}_2\text{O}_7^{2-}$	dichromate	SO_4^{2-}	sulfate
SiO_3^{2-}	silicate	SO_3^{2-}	sulfite
O^{2-}	oxide	S^{2-}	sulfide
		$\text{S}_2\text{O}_3^{2-}$	thiosulfate

Oxidation Number of 3-

N^3	nitride	P^3	phosphide
PO_4^{3-}	phosphate	BO_3^{3-}	borate
PO_3^{3-}	phosphite	AsO_3^{3-}	arsenite

AsO_4^{3-}	arsenate
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