

Names, Formulas, and Charges of Positive Ions (Cations)

actinium	Ac ³⁺	nickel II, nickelous	Ni ²⁺
aluminum	Al ³⁺	nickel III, nickelic	Ni ³⁺
ammonium	NH ₄ ⁺	osmium	Os ⁴⁺
barium	Ba ²⁺	palladium II	Pd ²⁺
beryllium	Be ²⁺	palladium IV	Pd ⁴⁺
bismuth III	Bi ³⁺	platinum II	Pt ²⁺
bismuth V	Bi ⁵⁺	platinum IV	Pt ⁴⁺
cadmium	Cd ²⁺	polonium II	Po ²⁺
calcium	Ca ²⁺	polonium IV	Po ⁴⁺
cesium	Cs ⁺	potassium	K ⁺
chromium II, chromous	Cr ²⁺	radium	Ra ²⁺
chromium III, chromic	Cr ³⁺	rubidium	Rb ⁺
cobalt II, cobaltous	Co ²⁺	scandium	Sc ³⁺
cobalt III, cobaltic	Co ³⁺	silver	Ag ⁺
copper I, cuprous	Cu ⁺	sodium	Na ⁺
copper II, cupric	Cu ²⁺	strontium	Sr ²⁺
erbium	Er ³⁺	titanium III	Ti ³⁺
francium	Fr ⁺	titanium IV	Ti ⁴⁺
gallium	Ga ³⁺	tin II, stannous	Sn ²⁺
gold I, aurous	Au ⁺	tin IV, stannic	Sn ⁴⁺
gold III, auric	Au ³⁺	uranium IV	U ⁴⁺
hydrogen	H ⁺	uranium VI	U ⁶⁺
hydroxium	H ₃ O ⁺	vanadium IV	V ⁴⁺
iron II, ferrous	Fe ²⁺	vanadium V	V ⁵⁺
iron III, ferric	Fe ³⁺	zinc	Zn ²⁺
lead II, plumbous	Pb ²⁺		
lead IV, plumbic	Pb ⁴⁺		
lithium	Li ⁺		
magnesium	Mg ²⁺		
manganese II, manganeous	Mn ²⁺		
manganese IV, manganic	Mn ⁴⁺		
mercury I, mercurous	Hg ⁺		
mercury II, mercuric	Hg ²⁺		

NUMERIC PREFIXES

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

Names, Formulas, and Charges for Negative Ions (Anions)

acetate	CH ₃ COO ⁻	iodide	I ⁻
benzoate	C ₆ H ₅ COO ⁻	periodate	IO ₄ ⁻
borate	BO ₃ ³⁻	iodate	IO ₃ ⁻
tetraborate	B ₄ O ₇ ²⁻	iodite	IO ₂ ⁻
bromide	Br ⁻	hypoiodite	IO ⁻
perbromate	BrO ₄ ⁻	nitride	N ³⁻
bromate	BrO ₃ ⁻	nitrate	NO ₃ ⁻
bromite	BrO ₂ ⁻	nitrite	NO ₂ ⁻
hypobromite	BrO ⁻	oxide	O ²⁻
carbonate	CO ₃ ²⁻	oxalate	C ₂ O ₄ ²⁻
hydrogen carbonate, bicarbonate	HCO ₃ ⁻	hydrogen oxalate, binoxalate	HC ₂ O ₄ ⁻
chloride	Cl ⁻	permanganate	MnO ₄ ⁻
perchlorate	ClO ₄ ⁻	phosphide	P ³⁻
chlorate	ClO ₃ ⁻	phosphate	PO ₄ ³⁻
chlorite	ClO ₂ ⁻	phosphite	HPO ₃ ²⁻
hypochlorite	ClO ⁻	monohydrogen phosphate	HPO ₄ ²⁻
chromate	CrO ₄ ²⁻	dihydrogen phosphate	H ₂ PO ₄ ⁻
dichromate	Cr ₂ O ₇ ²⁻	tripolyphosphate	P ₃ O ₁₀ ⁵⁻
cyanate	CNO ⁻	silicate	SiO ₄ ⁴⁻
cyanide	CN ⁻	selenide	Se ²⁻
thiocyanate	SCN ⁻	selenate	SeO ₄ ²⁻
ferricyanide	Fe(CN) ₆ ³⁻	sulfide	S ²⁻
ferrocyanide	Fe(CN) ₆ ⁴⁻	sulfate	SO ₄ ²⁻
fluoride	F ⁻	sulfite	SO ₃ ²⁻
perfluorate	FO ₄ ⁻	hydrogen sulfide, bisulfide	HS ⁻
fluorate	FO ₃ ⁻	hydrogen sulfite, bisulfite	HSO ₃ ⁻
fluorite	FO ₂ ⁻	hydrogen sulfate, bisulfate	HSO ₄ ⁻
hypofluorite	FO ⁻	stearate	C ₁₇ H ₃₅ COO ⁻
glutamate	C ₅ H ₉ NO ₄ ⁻	thiosulfate	S ₂ O ₃ ²⁻
hydroxide, (hydroxyl)	OH ⁻	telluride	Te ²⁻
hydride	H ⁻	uranate	UO ₄ ⁻