

Table IX Names of homoatomic, binary and certain other simple molecules, ions and compounds, and substituent groups (March 2004)

This Table names a large number of homoatomic and binary compounds and species, and some heteropolynuclear entities, and thus may be used as a reference for names of simple compounds and a source of examples to guide in the naming of further compounds. It may be necessary to browse the Table to find (families of) compounds that match those of interest. For example, all the oxides of potassium are named; corresponding compounds of the other alkali metals, not included here, are named analogously. Several silicon and germanium hydride species are named; names for corresponding tin and lead species are not necessarily included.

A number of inorganic acids and their corresponding bases are included in this Table, but more acid names are given in Tables IR-8.1 and IR-8.2. Only a few simple carbon-containing compounds and substituent groups are included. In particular, organic ligands belonging to the general classes alcoholates, thiolates, phenolates, carboxylates, amines, phosphanes and arsanes as well as (partially) dehydrated amines, phosphanes and arsanes are generally *not* included. Their naming is described and exemplified in Section IR-9.2.2.3.

Entries in the first column are ordered alphabetically according to the formulae as they appear. Formulae for *binary* species are written in this column according to the position of the two elements in Table VI (Section IR-4.4), *e.g.* ammonia is found under 'NH₃', but selenane under 'H₂Se' and AlLi under 'LiAl'. In case of doubt, cross references should aid in finding the correct entry in the Table. In the first column, formulae of *ternary and quaternary* compounds are written strictly alphabetically, *e.g.* 'ClSCN^{•-}' is found under the entry 'CCINS', and 'HPO₄⁻' under 'HO₄P'. In the columns to the right of the first column, special formats may be used for formulae in order to stress a particular structure, *e.g.* under the entry 'BrHO₃', one finds 'HOBrO₂' rather than 'HBrO₃' or '[BrO₂(OH)]', the two formats presented in Table IR-8.2.

The symbol '⊂' is used for dividing names when this is made necessary by a line break. When the name is reconstructed from the name given in the Table, this symbol should be omitted. Thus, all *hyphens* in the Table are true parts of the names. The symbols '>' and '<' placed next to an element symbol both denote two single bonds connecting the atom in question to two other atoms.

For a given compound, the various systematic names, if applicable, are given in the order: stoichiometric names (Chapter IR-5), substitutive names (Chapter IR-6), additive names (Chapter IR-7), and hydrogen names (Section IR-8.4). Acceptable names which are not entirely systematic (or not formed according to any of the systems mentioned above) are given at the end after a semicolon. No order of preference is implied by the order in which names are listed, but in practice it may be useful to select particular formulae and names for particular uses. Thus, for sodium chloride the formula [NaCl] and the additive name 'chloridosodium' may be used

specifically for the molecular compound, whereas 'sodium chloride' may be used, and traditionally *is* used, for the compound in general and for the solid with the composition NaCl. Corresponding remarks apply to a number of hydrides for which a stoichiometric name may be applied to the compound with the stoichiometry in question without further structural implications (such as 'aluminium trihydride' for AlH_3 or 'dihydrogen disulfide' for H_2S_2), whereas a parent hydride name (needed anyway for naming certain derivatives) or an additive name may be used to denote specifically the molecular compound or entity (such as 'alumane' or 'trihydridoaluminium' for the molecular entity $[\text{AlH}_3]$ and 'disulfane' for HSSH).

Note from the examples above that in order to stress the distinctions discussed, the square brackets are sometimes used in the Table to enclose formulae for molecular entities that are otherwise often written with no enclosing marks.

IUPAC Provisional Recommendations

<i>Formula for uncharged atom or group</i>	<i>Name</i>			
	<i>Uncharged atoms or molecules (including zwitterions and radicals) or substituent groups^a</i>	<i>Cations (including cation radicals) or cationic substituent groups^a</i>	<i>Anions (including anion radicals) or anionic substituent groups^b</i>	<i>Ligands^c</i>
Ac	actinium	actinium	actinide ^d	actinido
Ag	silver	silver	argentide	argentido
Al	aluminium	aluminium (general) Al ⁺ , aluminium(1+) Al ³⁺ , aluminium(3+)	aluminide (general) Al ⁻ , aluminide(1-)	aluminido (general) Al ⁻ , aluminido(1-)
AlCl	AlCl, aluminium monochloride [AlCl], chloridoaluminium	AlCl ⁺ , chloridoaluminium(1+)		
AlCl ₃ (see also Al ₂ Cl ₆)	AlCl ₃ , aluminium trichloride [AlCl ₃], trichloroalumane, trichloridoaluminium			
AlCl ₄			AlCl ₄ ⁻ , tetrachloroalumanuide, tetrachloridoaluminate(1-)	AlCl ₄ ⁻ , tetrachloroalumanuido, tetrachloridoaluminato(1-)
AlH	AlH, aluminium monohydride [AlH], λ ¹ -alumane (parent hydride name), hydridoaluminium	AlH ⁺ , hydridoaluminium(1+)		
AlH ₂	-AlH ₂ , alumanyl			

AlH ₃	AlH ₃ , aluminium trihydride [AlH ₃], alumane (parent hydride name), trihydridoaluminium	AlH ₃ ^{•+} , alumaniumyl, trihydridoaluminium(•1+)	AlH ₃ ^{•-} , alumanuidyl, trihydridoaluminate(•1-) ^e	
AlH ₄			AlH ₄ ⁻ , alumanuide, tetrahydridoaluminate(1-)	AlH ₄ ⁻ , alumanuido, tetrahydridoaluminato(1-)
AlO	AlO, aluminium mon(o)oxide [AlO], oxidoaluminium	AlO ⁺ , oxidoaluminium(1+)	AlO ⁻ , oxidoaluminate(1-)	
AlSi	AlSi, aluminium monosilicide [AlSi], silicidoaluminium			
Al ₂	Al ₂ , dialuminium		Al ₂ ⁻ , dialuminide(1-)	
Al ₂ Cl ₆	[Cl ₂ Al(μ-Cl) ₂ AlCl ₂], di-μ-chloridobis(dichlorido ∩ aluminium)			
Al ₄			Al ₄ ²⁻ , tetraaluminide(2-)	
Am	americium	americium	americide	americido
Ar	argon	argon (general) Ar ⁺ , argon(1+)	argonide	argonido
ArBe		ArBe ⁺ , beryllidoargon(1+)		
ArHe		ArHe ⁺ , helidoargon(1+)		
ArF	ArF, argon monofluoride [ArF], fluoridoargon	ArF ⁺ , fluoridoargon(1+)		

ArLi		ArLi ⁺ , lithidoargon(1+)		
Ar ₂	Ar ₂ , diargon	Ar ₂ ⁺ , diargon(1+)		
As	arsenic >As-, arsanetriyl	arsenic	arsenide (general) As ³⁻ , arsenide(3-), arsanetriide; arsenide	arsenido (general) As ³⁻ , arsanetriido; arsenido
AsH	AsH, arsenic monohydride AsH ^{2•} , arsanediyl (triplet), hydridoarsenic(2•) (triplet) >AsH, arsanediyl =AsH, arsanylidene	AsH ²⁺ , arsanebis(ylum), hydridoarsenic(1+)	AsH ²⁻ , arsanediide, hydridoarsenate(2-)	AsH ²⁻ , arsanediido, hydridoarsenato(2-)
AsHO	>AsH(O), oxo-λ ⁵ -arsanediyl; arsonoyl =AsH(O), oxo-λ ⁵ -arsanylidene; arsonoylidene			
AsHO ₂	>AsO(OH), hydroxy(oxo)- ∘ λ ⁵ -arsanediyl; hydroxyarsoryl =AsO(OH), hydroxy(oxo)- λ ⁵ - ∘ arsanylidene; hydroxyarsorylidene		AsHO ₂ ²⁻ , hydridodioxidoarsenate(2-); arsonite	AsHO ₂ ²⁻ , hydridodioxidoarsenato(2-); arsonito
AsHO ₃			AsHO ₃ ²⁻ , hydridotrioxidoarsenate(2-); arsonate	AsHO ₃ ²⁻ , hydridotrioxidoarsenato(2-); arsonato
AsH ₂	AsH ₂ , arsenic dihydride AsH ₂ [•] , arsanyl, dihydridoarsenic(•) -AsH ₂ , arsanyl	AsH ₂ ⁺ , arsanylium, dihydridoarsenic(1+)	AsH ₂ ⁻ , arsenide, dihydridoarsenate(1-)	AsH ₂ ⁻ , arsanido, dihydridoarsenato(1-)

AsH ₂ O	-AsH ₂ O, oxo-λ ⁵ -arsanyl; arsinoyl		AsH ₂ O ⁻ , dihydrido-oxidoarsenate(1-); arsinite	AsH ₂ O ⁻ , dihydrido-oxidoarsenato(1-); arsinito
AsH ₂ O ₂			AsH ₂ O ₂ ⁻ , dihydrido-dio-oxidoarsenate(1-); arsinate	AsH ₂ O ₂ ⁻ , dihydrido-dio-oxidoarsenato(1-); arsinato
AsH ₂ O ₃	-As(O)(OH) ₂ , dihydroxyoxo- λ ⁵ -arsanyl; dihydroxyarsoryl, arsono		AsO(OH) ₂ ⁻ , dihydroxido-oxidoarsenate(1-)	AsO(OH) ₂ ⁻ , dihydroxido-oxidoarsenato(1-)
AsH ₃	AsH ₃ , arsenic trihydride [AsH ₃], arsane (parent hydride name), trihydridoarsenic	AsH ₃ ^{•+} , arsaniumyl, trihydridoarsenic(•1+) -AsH ₃ ⁺ , arsaniumyl	AsH ₃ ^{•-} , arsanuidyl, trihydridoarsenate(•1-) ^e	
AsH ₄	-AsH ₄ , λ ⁵ -arsanyl	AsH ₄ ⁺ , arsanium, tetrahydridoarsenic(1+)		
AsO	>As(O)-, oxo-λ ⁵ -arsanetriyl; arsoryl =As(O)-, oxo-λ ⁵ -arsanylylidene; arsorylidene ≡As(O), oxo-λ ⁵ -arsanylidyne; arsorylidyne			
AsO ₃			AsO ₃ ³⁻ , trioxidoarsenate(3-); arsenite, arsorite -As(=O)(O ⁻) ₂ , dioxido-oxo-λ ⁵ -arsanyl; arsonato	AsO ₃ ³⁻ , trioxidoarsenato(3-); arsenito, arsorito
AsO ₄			AsO ₄ ³⁻ , tetraoxidoarsenate(3-); arsenate, arsorate	AsO ₄ ³⁻ , tetraoxidoarsenato(3-); arsenato, arsorato

AsS ₄			AsS ₄ ³⁻ , tetrasulfidoarsenate(3-)	AsS ₄ ³⁻ , tetrasulfidoarsenato(3-)
As ₂ H			HAs=As ⁻ , diarsenide HAsAs ³⁻ , diarsanetriide	HAs=As ⁻ , diarsenido HAsAs ³⁻ , diarsanetriido
As ₂ H ₂	HAs=AsH, diarsene		H ₂ AsAs ²⁻ , diarsane-1,1-diide HAsAsH ²⁻ , diarsane-1,2-diide	HAs=AsH, diarsene H ₂ AsAs ²⁻ , diarsane-1,1-diido HAsAsH ²⁻ , diarsane-1,2-diido
As ₂ H ₄	H ₂ AsAsH ₂ , diarsane			H ₂ AsAsH ₂ , diarsane
As ₄	As ₄ , tetraarsenic			As ₄ , tetraarsenic
At	astatine (general) At [•] , astatine(•), monoastatine	astatine	At ⁻ , astatide(1-); astatide	astatido (general) At ⁻ , astatido(1-); astatido
AtH, see HAt				
At ₂	At ₂ , diastatine			
Au	gold	gold (general) Au ⁺ , gold(1+) Au ³⁺ , gold(3+)	auride	aurido
B	boron >B ⁻ , boranetriyl ≡B, boranylidyne	boron (general) B ⁺ , boron(1+) B ³⁺ , boron(3+)	boride (general) B ⁻ , boride(1-) B ³⁻ , boride(3-); boride	borido (general) B ⁻ , borido(1-) B ³⁻ , borido(3-); borido
BH	>BH, boranediyl =BH, boranylidene	BH ²⁺ , boranebis(ylum), hydridoboron(2+)	BH ²⁻ , boranediide, hydridoborate(2-)	BH ²⁻ , boranediido, hydridoborato(2-)
BHO ₃			BO ₂ (OH) ²⁻ , hydroxidodioxidoborate(2-); hydrogenborate	BO ₂ (OH) ²⁻ , hydroxidodioxidoborato(2-); hydrogenborato
BH ₂	-BH ₂ , boranyl	BH ₂ ⁺ , boranylium, dihydridoboron(1+)	BH ₂ ⁻ , boranide, dihydridoborate(2-)	BH ₂ ⁻ , boranido, dihydridoborato(2-)

BH ₂ O	-BH(OH), hydroxyboranyl			
BH ₂ O ₂	-B(OH) ₂ , dihydroxyboranyl; borono			
BH ₃	BH ₃ , boron trihydride [BH ₃], borane (parent hydride name), trihydridoboron	BH ₃ ^{•+} , boraniumyl, trihydridoboron(•1+)	BH ₃ ^{•-} , boranuidyl, trihydridoborate(•1-) ^e -BH ₃ ⁻ , boranuidyl	BH ₃ ^{•-} , trihydridoborato(•1-)
BH ₄		BH ₄ ⁺ , boranium, tetrahydridoboron(1+)	BH ₄ ⁻ , boranuide, tetrahydridoborate(1-)	BH ₄ ⁻ , boranuido, tetrahydridoborato(1-)
BO	BO, boron mon(o)oxide [BO], oxidoboron	BO ⁺ , oxidoboron(1+)	BO ⁻ , oxidoborate(1-)	BO ⁻ , oxidoborato(1-)
BO ₂			(BO ₂ ⁻) _n = (OBO) _n ⁿ⁻ , <i>catena</i> -poly[(oxidoborate-μ- oxido)(1-)]; metaborate	
BO ₃			BO ₃ ³⁻ , trioxidoborate(3-); borate	BO ₃ ³⁻ , trioxidoborato(3-); borato
Ba	barium	barium	baride	barido
BaO	barium oxide			
BaO ₂	Ba ²⁺ O ₂ ²⁻ , barium dioxide(2-); barium peroxide			
Be	beryllium	beryllium (general) Be ⁺ , beryllium(1+) Be ²⁺ , beryllium(2+)	beryllide	beryllido
BeH	BeH, beryllium monohydride [BeH], hydridoberyllium	BeH ⁺ , hydridoberyllium(1+)	BeH ⁻ , hydridoberyllate(1-)	BeH ⁻ , hydridoberyllato(1-)
Bh	bohrium	bohrium	bohride	bohrido

Bi	bismuth	bismuth	bismuthide (general) Bi ³⁻ , bismuthide(3-), bismuthanetriide; bismuthide	bismuthido (general) Bi ³⁻ , bismuthido(3-), bismuthanetriido; bismuthido
BiH	>BiH, bismuthanediyl =BiH, bismuthanylidene BiH ^{2•} , bismuthanediyl (triplet), hydridobismuth(2•) (triplet)	BiH ²⁺ , bismuthanebis(ylum), hydridobismuth(2+)	BiH ²⁻ , bismuthanediide, hydridobismuthate(2-)	BiH ²⁻ , bismuthanediido, hydridobismuthato(2-)
BiH ₂	-BiH ₂ , bismuthanyl BiH ₂ [•] , bismuthanyl, dihydridobismuth(•)	BiH ₂ ⁺ , bismuthanylium, dihydridobismuth(1+)	BiH ₂ ⁻ , bismuthanide, dihydridobismuthate(1-)	BiH ₂ ⁻ , bismuthanido, dihydridobismuthato(1-)
BiH ₃	BiH ₃ , bismuth trihydride [BiH ₃], bismuthane (parent hydride name), trihydridobismuth =BiH ₃ , λ ⁵ -bismuthanylidene	BiH ₃ ^{•+} , bismuthaniumyl, trihydridobismuth(•1+)	BiH ₃ ^{•-} , bismuthanuidyl, trihydridobismuthate(•1-) ^e	
BiH ₄		BiH ₄ ⁺ , bismuthanium, tetrahydridobismuth(1+)		
Bi ₅		Bi ₅ ⁴⁺ , pentabismuth(4+)		
Bk	berkelium	berkelium	berkelide	
Br	bromine (general) Br [•] , bromine(•), monobromine -Br, bromo	bromine (general) Br ⁺ , bromine(1+)	bromide (general) Br ⁻ , bromide(1-); bromide	bromido (general) Br ⁻ , bromido(1-); bromido
BrCN	BrCN, cyanobromane, bromidonitridocarbon			
BrH, see HBr				

BrHO	HOBr, bromanol, hydroxidobromine; hypobromous acid			
BrHO ₂	HOBrO, hydroxy- λ^3 -bromanone, hydroxidooxidobromine; bromous acid			
BrHO ₃	HOBrO ₂ , hydroxy- λ^5 -bromanedione, hydroxidodioxidobromine; bromic acid			
BrHO ₄	HOBrO ₃ , hydroxy- λ^7 -bromanetrione, hydroxidotrioxidobromine; perbromic acid			
BrO	BrO, bromine mon(o)oxide BrO [•] , oxidobromine(•); bromosyl -BrO, oxo- λ^3 -bromanyl; bromosyl -OBr, bromooxy	BrO ⁺ , oxidobromine(1+) (<i>not</i> bromosyl)	BrO ⁻ , oxidobromate(1-); hypobromite	BrO ⁻ , oxidobromato(1-); hypobromito
BrO ₂	BrO ₂ , bromine dioxide BrO ₂ [•] , dioxidobromine(•) -BrO ₂ , dioxo- λ^5 -bromanyl; bromyl -OBrO, oxo- λ^3 -bromanyloxy	BrO ₂ ⁺ , dioxidobromine(1+) (<i>not</i> bromyl)	BrO ₂ ⁻ , dioxidobromate(1-); bromite	BrO ₂ ⁻ , dioxidobromato(1-); bromito

BrO ₃	BrO ₃ , bromine trioxide BrO ₃ [•] , trioxidobromine(•) –BrO ₃ , trioxo-λ ⁷ -bromanyl; perbromyl –OBrO ₂ , dioxo-λ ⁵ -bromanyloxy	BrO ₃ ⁺ , trioxidobromine(1+) (<i>not</i> perbromyl)	BrO ₃ [–] , trioxidobromate(1–); bromate	BrO ₃ [–] , trioxidobromato(1–); bromato
BrO ₄	BrO ₄ , bromine tetraoxide BrO ₄ [•] , tetraoxidobromine(•) –OBrO ₃ , trioxo-λ ⁷ -bromanyloxy		BrO ₄ [–] , tetraoxidobromate(1–); perbromate	BrO ₄ [–] , tetraoxidobromato(1–); perbromato
Br ₂	Br ₂ , dibromine	Br ₂ ^{•+} , dibromine(•1+)	Br ₂ ^{•–} , dibromide(•1–)	Br ₂ , dibromine
Br ₃	Br ₃ , tribromine		Br ₃ [–] , tribromide(1–); tribromide	Br ₃ [–] , tribromido(1–); tribromido
C	carbon (general) C, monocarbon >C<, methanetetrayl =C=, methanediylidene	carbon (general) C ⁺ , carbon(1+)	carbide (general) C [–] , carbide(1–) C ^{4–} , carbide(4–), methanetetraide; carbide	carbido (general) C [–] , carbido(1–) C ^{4–} , carbido(4–), methanetetrayl, methanetetraido
CCINS			CISCN ^{•–} , (chloridosulfato)nitrido= carbonate(•1–)	
CH	CH [•] , hydridocarbon(•) (doublet) CH ^{3•} , methanetriyl, hydridocarbon(3•) (quartet) ≡CH, methylidyne –CH=, methanylylidene –CH<, methanetriyl	CH ⁺ , λ ² -methanylium, hydridocarbon(1+)	CH [–] , λ ² -methanide, hydridocarbonate(1–) CH ^{3–} , methanetriide, hydridocarbonate(3–)	CH [–] , λ ² -methanido, hydridocarbonato(1–) CH ^{3–} , methanetriyl, methanetriido, hydridocarbonato(3–)

CHN	HCN, hydrogen cyanide HCN = [CHN], methanenitrile, hydridonitridocarbon; formonitrile >C=NH, carbonimidoyl =C=NH, iminomethylidene, carbonimidoylidene			
CHNO	HCNO = [CH(NO)], formonitrile oxide, hydrido(nitrosyl-κN)carbon HNCO = [C(NH)O], azanediidooxidocarbon; isocyanic acid HOCN = [C(OH)N], hydroxidonitridocarbon; cyanic acid HONC = [NC(OH)], λ ² -methylidenehydroxylamine, carbidohydroxidonitrogen		HNCO ^{•-} , (hydridonitrato)oxido ⊂ carbonate(•1-) HOCN ^{•-} , hydroxidonitridocarbonate(•1-)	HNCO ^{•-} , (hydridonitrato)oxido ⊂ carbonato(•1-) HOCN ^{•-} , hydroxidonitridocarbonato(•1-)
CHNOS			HONCS ^{•-} , (hydroxidonitrato)sulfidocarbo ⊂ nate(•1-) HOSCN ^{•-} , (hydroxidosulfato)nitrido ⊂ carbonate(•1-)	HONCS ^{•-} , (hydroxidonitrato)sulfidocarbo ⊂ nato(•1-) HOSCN ^{•-} , (hydroxidosulfato)nitrido ⊂ carbonato(•1-)

CHNO ₂			HOOCN ^{•-} , (dioxidanido)nitridocarbonate(•1-) HONCO ^{•-} , (hydroxidonitrato)oxido ⊂ carbonate(•1-)	HOOCN ^{•-} , (dioxidanido)nitrido ⊂ carbonato(•1-) HONCO ^{•-} , (hydroxidonitrato)oxido ⊂ carbonato(•1-)
CHNS	HCNS = HC≡N ⁺ S ⁻ = [CH(NS)], (methyldyneammoniumyl) ⊂ sulfanide, hydrido(thionitrosyl-κN)carbon HNCS = [C(NH)S], azanediidosulfidocarbon; isothiocyanic acid HSCN = [CN(SH)], nitridosulfanidocarbon; thiocyanic acid HSNC = [NC(SH)], λ ² -methylidenethio ⊂ hydroxylamine, carbidosulfanidonitrogen			

IUPAC Provisional Recommendations

CHNSe	<p>HCNSe = HC≡N⁺Se⁻ = [CH(NSe)], (methyldyneammoniumyl) ⊂ selenide, hydrido(selanatonitrato-κN) ⊂ carbon</p> <p>HNCSe = [C(NH)Se], azanediidoselenidocarbon; isoselenocyanic acid</p> <p>HSeCN = [CN(SeH)], nitridoselanidocarbon; selenocyanic acid</p> <p>HSeNC = [NC(SeH)], λ²-methylideneseleno ⊂ hydroxylamine, carbidoselanidonitrogen</p>			
CHO	<p>HCO•, oxomethyl, hydridooxidocarbon(•) -CH(O), methanoyl, formyl</p>			
CHOS ₂	<p>HOCS₂•, hydroxidodisulfidocarbon(•)</p>			
CHO ₂	<p>HOCO•, hydroxidooxidocarbon(•)</p>			

CHO ₃	HOCO ₂ [•] , hydroxidodioxidocarbon(•) HOOCO [•] , (dioxidanido)oxidocarbon(•)		HCO ₃ ⁻ , hydroxidodioxidocarbonato(1-); hydrogencarbonato	HCO ₃ ⁻ , hydroxidodioxidocarbonato(1-); hydrogencarbonato
CH ₂	CH ₂ ^{2•} , methanediyl, dihydridocarbon(2•) (triplet) >CH ₂ , methanediyl, methylene =CH ₂ , methylidene		CH ₂ ²⁻ , methanediide, dihydridocarbonato(2-) -CH ₂ ⁻ , methanidyl	CH ₂ ²⁻ , methanediyl, methylene, methanediido, dihydridocarbonato(2-)
CH ₂ N	H ₂ CN [•] , dihydridonitridocarbon(•)			
CH ₂ NO	H ₂ NCO [•] , (dihydridonitrato)oxidocarbon(•) HNCOH [•] , (hydridonitrato)hydroxido C carbon(•)			
CH ₃	CH ₃ [•] , methyl -CH ₃ <i>or</i> -Me, methyl	CH ₃ ⁺ , methylium, trihydridocarbon(1+)	CH ₃ ⁻ , methanide, trihydridocarbonato(1-)	CH ₃ ⁻ , methyl, methanido, trihydridocarbonato(1-)
CH ₄	CH ₄ , methane (parent hydride name), tetrahydridocarbon	CH ₄ ^{•+} , methaniumyl, tetrahydridocarbon(•1+)	CH ₄ ^{•-} , methanuidyl, tetrahydridocarbonato(•1-) ^d	
CH ₅		CH ₅ ⁺ , methanium, pentahydridocarbon(1+)		
CN	CN [•] , nitridocarbon(•); cyanyl -CN, cyano -NC, isocyano	CN ⁺ , azanylidynemethylium, nitridocarbon(1+)	CN ⁻ , nitridocarbonato(1-); cyanide	CN ⁻ , nitridocarbonato(1-); cyanido
CN ₂			NCN ²⁻ , dinitridocarbonato(2-)	NCN ²⁻ , dinitridocarbonato(2-)

CNO	<p>OCN[•], nitridooxidocarbon(•)</p> <p>–OCN, cyanato</p> <p>–NCO, isocyanato</p> <p>–ONC, (λ^2-methylidene \subset _____)</p> <p>–CNO, (oxo-λ^5-azinylydyne_methyl)</p>		<p>OCN⁻, nitridooxidocarbonato(1-); cyanate</p> <p>ONC⁻, carbidooxidonitrato(1-); fulminate</p> <p>OCN^{•2-}, nitridooxidocarbonato(•1-)</p>	<p>OCN⁻, nitridooxidocarbonato(1-); cyanato</p> <p>ONC⁻, carbidooxidonitrato(1-); fulminato</p>
CNS	<p>SCN[•], nitridosulfidocarbon(•)</p> <p>–SCN, thiocyanato</p> <p>–NCS, isothiocyanato</p> <p>–SNC, (λ^2-methylidene \subset _____sulfanyl)</p> <p>–CNS, (sulfanylidene-λ^5-azinylydyne_methyl)</p>		<p>SCN⁻, nitridosulfidocarbonato(1-); thiocyanate</p> <p>SNC⁻, carbidosulfidonitrato(1-)</p>	<p>SCN⁻, nitridosulfidocarbonato(1-); thiocyanato</p> <p>SNC⁻, carbidosulfidonitrato(1-)</p>
CNSe	<p>SeCN[•], nitridoselenidocarbon(•)</p> <p>–SeCN, selenocyanato</p> <p>–NCSe, isoselenocyanato</p> <p>–SeNC, (λ^2-methylidene \subset _____selanyl)</p> <p>–CNSe, (selanylidene-λ^5-azinylydyne_methyl)</p>		<p>SeCN⁻, nitridoselenidocarbonato(1-); selenocyanate</p> <p>SeNC⁻, carbidoselenidonitrato(1-)</p>	<p>SeCN⁻, nitridoselenidocarbonato(1-); selenocyanato</p> <p>SeNC⁻, carbidoselenidonitrato(1-)</p>

CO	CO, carbon mon(o)oxide >C=O, carbonyl =C=O, carbonylidene	CO ^{•+} , oxidocarbon(•1+) CO ²⁺ , oxidocarbon(2+)	CO ^{•-} , oxidocarbonate(•1-)	CO, oxidocarbon, oxidocarbonato (general); carbonyl (general for oxidocarbon-κC) CO ^{•+} , oxidocarbon(•1+) CO ^{•-} , oxidocarbonato(•1-)
COS	C(O)S, carbonyl sulfide, oxidosulfidocarbon			
CO ₂	CO ₂ , carbon dioxide, dioxidocarbon		CO ₂ ^{•-} , oxidooxomethyl, dioxidocarbonate(•1-)	CO ₂ , dioxidocarbon CO ₂ ^{•-} , oxidooxomethyl, dioxidocarbonato(•1-)
CO ₃			CO ₃ ^{•-} , trioxidocarbonate(•1-), OCOO ^{•-} , (dioxido)oxidocarbonate(•1-), oxidoperoxidocarbonate(•1-) CO ₃ ²⁻ , trioxidocarbonate(2-); carbonate	CO ₃ ²⁻ , trioxidocarbonato(2-); carbonato
CS	carbon monosulfide >C=S, carbonothioyl; thiocarbonyl =C=S, carbonothioylidene	CS ^{•+} , sulfidocarbon(•1+)	CS ^{•-} , sulfidocarbonate(•1-)	CS, sulfidocarbon, sulfidocarbonato (general); thiocarbonyl (general for sulfidocarbon-κC) CS ^{•+} , sulfidocarbon(•1+) CS ^{•-} , sulfidocarbonato(•1-)
CS ₂	CS ₂ , disulfidocarbon, carbon disulfide		CS ₂ ^{•-} , sulfidothioxomethyl, disulfidocarbonate(•1-)	CS ₂ , disulfidocarbon CS ₂ ^{•-} , sulfidothioxomethyl, disulfidocarbonato(•1-)
CS ₃			CS ₃ ²⁻ , trisulfidocarbonate(2-)	CS ₃ ²⁻ , trisulfidocarbonato(2-)

C ₂	C ₂ , dicarbon	C ₂ ⁺ , dicarbon(1+)	C ₂ ⁻ , dicarbide(1-) C ₂ ²⁻ , dicarbide(2-), ethynediide, acetylenediide; acetylide	dicarbido (general) C ₂ ²⁻ , dicarbido(2-), ethynediido, ethyne-1,2-diyl
C ₂ H	HCC [•] , ethynyl, hydridodicarbon(•)			
C ₂ N ₂	NCCN, ethanedinitrile, bis(nitridocarbon)(C-C); oxalonitrile		NCCN ^{•-} , bis(nitridocarbonate)(C-C)(•1-)	
C ₂ N ₂ O ₂	NCOOCN, dioxidanedicarbonitrile, bis[(cyanido-C)oxygen](O-O)		NCOOCN ^{•-} , bis[(cyanido-C)oxygenate] ⊃ (O-O)(•1-) ^d OCNNCO ^{•-} , bis(carbonylnitrate)(N-N)(•1-) ^d	NCOOCN ^{•-} , bis[(cyanido-C)oxygenato] ⊃ (O-O)(•1-) OCNNCO ^{•-} , bis(carbonylnitrato)(N-N)(•1-) ^d
C ₂ N ₂ S ₂	NCSSCN, disulfanedicarbonitrile, bis[(cyanido-C)sulfur](S-S)		NCSSCN ^{•-} , bis[(cyanido-C)sulfate] ⊃ (S-S)(•1-) ^d	NCSSCN ^{•-} , bis[(cyanido-C)sulfato](S-S)(•1-)
C ₃ O ₂	C ₃ O ₂ , tricarbon dioxide O=C=C=C=O, propa-1,2-diene-1,3-dione			
C ₁₂ O ₉	C ₁₂ O ₉ , dodecacarbon nonaoxide			
Ca	calcium	calcium (general) Ca ²⁺ , calcium(2+)	calcide	calcido
Cd	cadmium	cadmium (general) Cd ²⁺ , cadmium(2+)	cadmide	cadmido

Ce	cerium	cerium (general) Ce ³⁺ , cerium(3+) Ce ⁴⁺ , cerium(4+)	ceride	cerido
Cf	californium	californium	californide	californido
Cl	chlorine (general) Cl [•] , chlorine(•), monochlorine -Cl, chloro	chlorine (general) Cl ⁺ , chlorine(1+)	chloride (general) Cl ⁻ , chloride(1-); chloride	chlorido (general) Cl ⁻ , chlorido(1-); chlorido
ClF	ClF, fluoridochlorine, chlorine monofluoride	ClF ⁺ , fluoridochlorine(1+)		
ClF ₂			ClF ₂ ⁻ , difluoridochlorate(1-)	ClF ₂ ⁻ , difluoridochlorato(1-)
ClF ₄		ClF ₄ ⁺ , tetrafluoridochlorine(1+)	ClF ₄ ⁻ , tetrafluoridochlorate(1-)	ClF ₄ ⁻ , tetrafluoridochlorato(1-)
ClH, see HCl				
ClHN			NHCl ⁻ , chloroazanide, chloridohydridonitrate(1-)	NHCl ⁻ , chloroazanido, chloridohydridonitrato(1-)
ClHO	HOCl, chloranol, hydroxidochlorine; hypochlorous acid		HOCl ^{•-} , hydroxidochlorate(•1-)	
ClHO ₂	HOClO, hydroxy-λ ³ -chloranone, hydroxidooxidochlorine; chlorous acid			
ClHO ₃	HOClO ₂ , hydroxy-λ ⁵ -chloranedione, hydroxidodioxidochlorine; chloric acid			

ClHO ₄	HOClO ₃ , hydroxy-λ ⁷ -chloranetrione, hydroxidotrioxidochlorine; perchloric acid			
ClO	ClO, chlorine mon(o)oxide ClO [•] , oxidochlorine(•), chlorosyl -ClO, oxo-λ ³ -chloranyl; chlorosyl -OCl, chlorooxy		ClO ⁻ , oxidochlorate(1-); hypochlorite	ClO ⁻ , oxidochlorato(1-); hypochlorito
ClO ₂	ClO ₂ , chlorine dioxide ClO ₂ [•] , dioxidochlorine(•) ClOO [•] , chlorine peroxide, chloridodioxygen(O-O)(•), -ClO ₂ , dioxo-λ ⁵ -chloranyl; chloryl -OClO, oxo-λ ³ -chloranyloxy	ClO ₂ ⁺ , dioxidochlorine(1+) (not chloryl)	ClO ₂ ⁻ , dioxidochlorate(1-); chlorite	ClO ₂ ⁻ , dioxidochlorato(1-); chlorito
ClO ₃	ClO ₃ , chlorine trioxide ClO ₃ [•] , trioxidochlorine(•) -ClO ₃ , trioxo-λ ⁷ -chloranyl; perchloryl -OClO ₂ , dioxo-λ ⁵ -chloranyloxy	ClO ₃ ⁺ , trioxidochlorine(1+) (not perchloryl)	ClO ₃ ⁻ , trioxidochlorate(1-); chlorate	ClO ₃ ⁻ , trioxidochlorato(1-); chlorato
ClO ₄	ClO ₄ , chlorine tetraoxide ClO ₄ [•] , tetraoxidochlorine(•) -OClO ₃ , trioxo-λ ⁷ -chloranyloxy		ClO ₄ ⁻ , tetraoxidochlorate(1-); perchlorate	ClO ₄ ⁻ , tetraoxidochlorato(1-); perchlorato
Cl ₂	Cl ₂ , dichlorine	Cl ₂ ^{•+} , dichlorine(•1+)	Cl ₂ ^{•-} , dichloride(•1-)	Cl ₂ , dichlorine Cl ₂ ^{•-} , dichlorido(•1-)

Cl ₂ N			NCl ₂ ⁻ , dichloroazanide, dichloridonitrate(1-)	NCl ₂ ⁻ , dichloroazanido, dichloridonitrato(1-)
Cl ₂ OP	-PCl ₂ (O), dichloro-λ ⁵ -phosphanyl, phosphorodichloridoyl			
Cl ₂ O ₂		Cl ₂ O ₂ ⁺ , (dichlorine dioxide)(1+)		
Cl ₄		Cl ₄ ⁺ , tetrachlorine(1+)		
Cm	curium	curium	curide	curido
Co	cobalt	cobalt (general) Co ²⁺ , cobalt(2+) Co ³⁺ , cobalt(3+)	cobaltide	cobaltido
Cr	chromium	chromium (general) Cr ²⁺ , chromium(2+) Cr ³⁺ , chromium(3+)	chromide	chromido
CrO	CrO, chromium mon(o)oxide, chromium(II) oxide			
CrO ₂	CrO ₂ , chromium dioxide, chromium(IV) oxide			
CrO ₃	CrO ₃ , chromium trioxide, chromium(VI) oxide			
CrO ₄	[Cr(O ₂) ₂], diperoxidochromium		CrO ₄ ²⁻ , tetraoxidochromate(2-); chromate CrO ₄ ³⁻ , tetraoxidochromate(3-) CrO ₄ ⁴⁻ , tetraoxidochromate(4-)	CrO ₄ ²⁻ , tetraoxidochromato(2-); chromato CrO ₄ ³⁻ , tetraoxidochromato(3-) CrO ₄ ⁴⁻ , tetraoxidochromato(4-)

CrO ₅	[CrO(O ₂) ₂], oxidodiperoxidochromium			
CrO ₆			CrO ₂ (O ₂) ₂ ²⁻ , dioxidodiperoxidochromate(2-)	
CrO ₈			Cr(O ₂) ₄ ²⁻ , tetraperoxidochromate(2-) Cr(O ₂) ₄ ³⁻ , tetraperoxidochromate(3-)	
Cr ₂ O ₃	Cr ₂ O ₃ , dichromium trioxide, chromium(III) oxide			
Cr ₂ O ₇			Cr ₂ O ₇ ²⁻ , heptaoxidodichromate(2-) O ₃ CrOCrO ₃ ²⁻ , μ-oxido- \subset bis(trioxidochromate)(2-); dichromate	Cr ₂ O ₇ ²⁻ , heptaoxidodichromato(2-) O ₃ CrOCrO ₃ ²⁻ , μ-oxido- \subset bis(trioxidochromato)(2-); dichromato
Cs	caesium	caesium	caeside	caesido
Cu	copper	copper (general) Cu ⁺ , copper(1+) Cu ²⁺ , copper(2+)	cupride	cuprido
D, see H				
D ₂ , see H ₂				
D ₂ O, see H ₂ O				
Db	dubnium	dubnium	dubnide	dubnido
Ds	darmstadtium	darmstadtium	darmstadtide	darmstadtido
Dy	dysprosium	dysprosium	dysprosido	dysprosido

Er	erbium	erbium	erbide	erbido
Es	einsteinium	einsteinium	einsteinide	einsteinido
Eu	europium	europium	europide	europido
F	fluorine F [•] , fluorine(•), monofluorine -F, fluoro	fluorine (general) F ⁺ , fluorine(1+)	fluoride (general) F ⁻ , fluoride(1-); fluoride	F ⁻ , fluorido(1-); fluorido
FH, see HF				
FHO	HOF, fluoranol, fluoridohydridoxygen			
FNS	NSF, fluoridonitridosulfur			
FN ₃	FN ₃ , fluorido-1κF-trinitrogen(2N-N)			
FO, see OF				
F ₂	F ₂ , difluorine	F ₂ ⁺ , difluorine(1+)	F ₂ ⁻ , difluoride(1-)	F ₂ , difluorine
F ₂ N ₂	FN=NF, difluorido-1κF,2κF- dinitrogen(N-N), difluorodiazene			
Fe	iron	iron (general) Fe ²⁺ , iron(2+) Fe ³⁺ , iron(3+)	ferride	
Fm	fermium	fermium	fermide	fermido
Fr	francium	francium	francide	francido
Ga	gallium	gallium	gallide	gallido
GaH ₂	-GaH ₂ , gallanyl			

GaH ₃	GaH ₃ , gallium trihydride [GaH ₃], gallane (parent hydride name), trihydridogallium			
Gd	gadolinium	gadolinium	gadolinide	gadolinido
Ge	germanium >Ge<, germanetetrayl =Ge=, germanediylidene	germanium (general) Ge ²⁺ , germanium(2+) Ge ⁴⁺ , germanium(4+)	germide (general) Ge ⁴⁻ , germide(4-); germide	germido (general) Ge ⁴⁻ , germido(4-); germido
GeH	>GeH-, germanetriyl = GeH-, germanylylidene ≡GeH, germylidyne			
GeH ₂	>GeH ₂ , germanediyl = GeH ₂ , germylidene			
GeH ₃	-GeH ₃ , germyl	GeH ₃ ⁺ , germylium, trihydridogermanium(1+)	GeH ₃ ⁻ , germanide, trihydridogermanate(1-)	GeH ₃ ⁻ , germanido, trihydridogermanato(1-)
GeH ₄	GeH ₄ , germane (parent hydride name), tetrahydridogermanium			
Ge ₄			Ge ₄ ⁴⁻ , tetragermide(4-)	
H	hydrogen H [•] , hydrogen(•), monohydrogen (natural or unspecified isotopic composition) ¹ H [•] , protium(•), monoprotrium ² H [•] = D [•] , deuterium(•), monodeuterium ³ H [•] = T [•] , tritium(•), monotritium	hydrogen (general) H ⁺ , hydrogen(1+), hydron (natural or unspecified isotopic composition) ¹ H ⁺ , protium(1+), proton ² H ⁺ = D ⁺ , deuterium(1+), deutron ³ H ⁺ = T ⁺ , tritium(1+), triton	hydride (general) H ⁻ , hydride (natural or unspecified isotopic composition) ¹ H ⁻ , protide ² H ⁻ = D ⁻ , deuteride ³ H ⁻ = T ⁻ , tritide	hydrido protido deuterido tritido

HAt	HAt, hydrogen astatide [HAt], astatidohydrogen			
HBr	HBr, hydrogen bromide [HBr], bromane (parent hydride name), bromidohydrogen			
HCO, see CHO				
HCl	HCl, hydrogen chloride [HCl], chlorane (parent hydride name), chloridohydrogen	HCl ⁺ , chloraniumyl, chloridohydrogen(1+)		
HF	HF, hydrogen fluoride [HF], fluorane (parent hydride name), fluoridohydrogen	HF ⁺ , fluoraniumyl, fluoridohydrogen(1+)		
HF ₂			FHF ⁻ , fluorofluoranuide, μ -hydridodifluorate(1-), difluoridohydrogenate(1-)	
HI	HI, hydrogen iodide [HI], iodane (parent hydride name), iodidohydrogen			
HIO	HOI, iodanol, hydroxidoiodine; hypoiodous acid			
HIO ₂	HOIO, hydroxy- λ^3 -iodanone, hydroxidooxidiodine; iodous acid			

HIO ₃	HOIO ₂ , hydroxy-λ ⁵ -iodanedione, hydroxidodioxidoiodine; iodic acid		HOIO ₂ ^{•-} , hydroxidodioxidoiodate(•1-)	
HIO ₄	HOIO ₃ , hydroxy-λ ⁷ -iodanetrione, hydroxidotrioxidoiodine; periodic acid			
H _n N _m , see N _m H _n				
HNO	HON ^{2•} , hydroxidonitrogen(2•) (triplet) >NH(O), oxo-λ ⁵ -azanediyl; azonoyl =NH(O), oxo-λ ⁵ -azanylidene; azonoylidene >N-OH, hydroxyazanediyl =N-OH, hydroxyazanylidene; hydroxyimino		HON ²⁻ , hydroxidonitrate(2-)	HON ²⁻ , hydroxidonitrato(2-)
HNO ₂	HNO ₂ = [NO(OH)], hydroxidooxidnitrogen; nitrous acid >N(O)(OH), hydroxyoxo-λ ⁵ - azanediyl; hydroxyazoryl =N(O)(OH), hydroxyoxo-λ ⁵ - azanediyl; hydroxyazorylidene			

HNO ₃	HNO ₃ = [NO ₂ (OH)], hydroxidodioxidonitrogen; nitric acid HNO(O ₂) = [NO(OOH)], dioxidanidooxidonitrogen, peroxynitrous acid, azoperoxous acid			
HNO ₄	HNO ₄ = [NO ₂ (OOH)], (dioxidanido)dioxidonitrogen; peroxynitric acid, azoperoxoic acid			
HNS	>S(=NH), imino-λ ⁴ -sulfanediyl; sulfinimidoyl			
HN ₂ O ₂	-NH-NO ₂ , nitroazanyl, nitroamino			
HN ₂ O ₃			HN ₂ O ₃ ⁻ = N(H)(O)NO ₂ ⁻ , hydrido-1κH -trioxido- 1κO, 2κ ² O-dinitrate(N-N)(1-)	
HN ₃ O			HON ₃ ^{•-} , hydroxido-1κO- trinitrate(2N-N)(•1-)	
HNP	-P(H)N, azanylidene-λ ⁵ -phosphanyl; phosphononitridoyl			
HO	HO [•] , oxidanyl, hydridooxygen(•); hydroxyl -OH, oxidanyl; hydroxy	HO ⁺ , oxidanylium, hydridooxygen(1+); hydroxylum	HO ⁻ , oxidanide, hydridooxygenate(1-); hydroxide	HO ⁻ , oxidanido; hydroxido

HOP	HP=O, phosphanone >PHO, oxo- λ^5 -phosphanediyl; phosphonoyl =PHO, oxo- λ^5 -phosphanylidene; phosphonoylidene =P-OH, hydroxyphosphanylidene			
HOS	-SH(O), oxo- λ^4 -sulfanyl -S-OH, hydroxysulfanyl -O-SH, sulfanyloxy		HSO ⁻ , sulfanolate, hydridoosulfate(1-)	HSO ⁻ , sulfanolato, hydridoosulfato(1-)
HOSe	-SeH(O), oxo- λ^4 -selanyl -Se-OH, hydroxyselanyl -O-SeH, selanyloxy			
HO ₂	HO ₂ [•] , dioxidanyl, hydridodioxygen(•) -OOH, dioxidanyl; hydroperoxy	HO ₂ ⁺ , dioxidanylium, hydridodioxygen(1+)	HO ₂ ⁻ , dioxidanide, hydrogen(peroxide)(1-)	HO ₂ ⁻ , dioxidanido, hydrogen(peroxido)(1-)
HO ₂ P	P(O)(OH), hydroxyphosphanone, hydroxidooxidophosphorus >P(O)(OH), hydroxyoxo- λ^5 - phosphanediyl; hydroxyphosphoryl =P(O)(OH), hydroxyoxo- λ^5 - phosphanylidene; hydroxyphosphorylidene		HOPO ^{•-} , hydroxidooxidophosphate(•1-) HPO ₂ ²⁻ , hydridodioxidophosphate(2-)	HOPO ^{•-} , hydroxidooxidophosphato(•1-) HPO ₂ ²⁻ , hydridodioxidophosphato(2-)

HO ₂ S	HOOS [•] , hydrido-1κH-sulfido-2κS-dioxygen(•) HOSO [•] , hydroxidooxidosulfur(•) HSOO [•] , (hydridosulfato)dioxygen(•) –S(O)(OH), hydroxyoxo-λ ⁴ -sulfanyl; hydroxysulfinyl, sulfino –S(O) ₂ H, dioxo-λ ⁶ -sulfanyl		HOSO ⁻ , hydroxysulfanolate, hydroxidooxidosulfate(1-)	HOSO ⁻ , hydroxysulfanolato, hydroxidooxidosulfato(1-)
HO ₂ Se	–Se(O)(OH), hydroxyoxo-λ ⁴ -selanyl; hydroxyseleninyl, selenino –Se(O) ₂ H, dioxo-λ ⁶ -selanyl			
HO ₃	HO ₃ [•] , hydridotrioxygen(•) HOOO [•] , trioxidanyl, hydrido-1κH-tri oxygen(2O-O)(•) –OOOH, trioxidanyl			

IUPAC Provisional Recommendation

HO ₃ P	P(O) ₂ (OH), hydroxy-λ ⁵ -phosphanedione, hydroxidodioxidophosphorus		HOPO ₂ ^{•-} , hydroxidodioxidophosphate(•1-) PHO ₃ ²⁻ , hydridotrioxidophosphate(2-); phosphonate HPO ₃ ²⁻ = PO ₂ (OH) ²⁻ , hydroxidodioxidophosphate(2-); hydrogenphosphite	HOPO ₂ ^{•-} , hydroxidodioxidophosphato(•1-) PHO ₃ ²⁻ , hydridotrioxidophosphato(2-); phosphonato HPO ₃ ²⁻ = PO ₂ (OH) ²⁻ , hydroxidodioxidophosphato(2-); hydrogenphosphito
HO ₃ S	-S(O) ₂ (OH), hydroxydioxo-λ ⁶ -sulfanyl, hydroxysulfonyl; sulfo		HSO ₃ ⁻ , hydroxidodioxidosulfate(1-), hydrogensulfite	HSO ₃ ⁻ , hydroxidodioxidosulfato(1-), hydrogensulfito
HO ₃ Se	HSeO ₂ [•] , hydroxidodioxidoselenium(•) -Se(O) ₂ (OH), hydroxydioxo-λ ⁶ -selanyl, hydroxyselenonyl; selenono		HSeO ₃ ⁻ , hydroxidodioxidoselenate(1-)	HSeO ₃ ⁻ , hydroxidodioxidoselenato(1-)
HO ₄ P			HOPO ₃ ^{•-} = PO ₃ (OH) ^{•-} , hydroxidotrioxidophosphate(•1-) HPO ₄ ²⁻ = PO ₃ (OH) ²⁻ , hydroxidotrioxidophosphate(2-); hydrogenphosphate	HOPO ₃ ^{•-} = PO ₃ (OH) ^{•-} , hydroxidotrioxidophosphato(•1-) HPO ₄ ²⁻ , hydroxidotrioxidophosphato(2-); hydrogenphosphato
HO ₄ S	HOSO ₃ [•] , hydroxidotrioxidosulfur(•) -O-S(O) ₂ (OH), hydroxysulfonyloxy; sulfooxy		HSO ₄ ⁻ , hydroxidotrioxidosulfate(1-); hydrogensulfate	HSO ₄ ⁻ , hydroxidotrioxidosulfato(1-); hydrogensulfato

HO ₄ Se			HSeO ₄ ⁻ , hydroxidotrioxidoselenate(1-)	HSeO ₄ ⁻ , hydroxidotrioxidoselenato(1-)
HO ₅ P			HOPO ₄ ^{•-} = PO ₂ (OH)(OO) ^{•-} , (dioxido)hydroxidodioxido ⊂ phosphate(•1-)	PO ₂ (OH)(OO) ^{•-} , (dioxido)hydroxidodioxido ⊂ phosphato(•1-)
HO ₅ S	HOSO ₄ [•] = [SO ₂ (OH)(OO)] [•] , (dioxido)hydroxidodioxido ⊂ sulfur(•)			
HS	-SH, sulfanyl HS [•] , sulfanyl, hydridosulfur(•)	HS ⁺ , sulfanylium, hydridosulfur(1+)	HS ⁻ , sulfanide, hydrogen(sulfide)(1-)	HS ⁻ , sulfanido, hydrogen(sulfido)(1-)
HS ₂	-SSH, disulfanyl		HSS ⁻ , disulfanide	HSS ⁻ , disulfanido
HS ₃	-SSSH, trisulfanyl		HSSS ⁻ , trisulfanide	HSSS ⁻ , trisulfanido
HS ₄	-SSSSH, tetrasulfanyl		HSSSS ⁻ , tetrasulfanide	HSSSS ⁻ , tetrasulfanido
HS ₅	-SSSSH, pentasulfanyl		HSSSSS ⁻ , pentasulfanide	HSSSSS ⁻ , pentasulfanido
HSe	HSe [•] , selanyl, hydridoselenium(•) -SeH, selanyl	HSe ⁺ , selanylium, hydridoselenium(1+)	HSe ⁻ , selanide, hydrogen(selenide)(1-)	HSe ⁻ , selanido, hydrogen(selenido)(1-)
HSe ₂	-SeSeH, diselanyl		HSeSe ⁻ , diselanide	HSeSe ⁻ , diselanido
HTe	HTe [•] , tellanyl, hydridotellurium(•) -TeH, tellanyl	HTe ⁺ , tellanylium, hydridotellurium(1+)	HTe ⁻ , tellanide, hydrogen(tellanide)(1-)	
HTe ₂	-TeTeH, ditellanyl		HTeTe ⁻ , ditellanide	HTeTe ⁻ , ditellanido

H ₂	H ₂ , dihydrogen D ₂ , dideuterium T ₂ , ditritium	H ₂ ^{•+} , dihydrogen(•1+) ¹ H ₂ ^{•+} , diprotium(•1+) D ₂ ^{•+} , dideuterium(•1+) T ₂ ^{•+} , ditritium(•1+)		
H ₂ Br	H ₂ Br [•] , λ ³ -bromanyl, dihydridobromine(•)	H ₂ Br ⁺ , bromanium, dihydridobromine(1+)		
H ₂ Cl	H ₂ Cl [•] , λ ³ -chloranyl, dihydridochlorine(•)	H ₂ Cl ⁺ , chloranium, dihydridochlorine(1+)		
H ₂ F	H ₂ F [•] , λ ³ -fluoranyl, dihydridofluorine(•)	H ₂ F ⁺ , fluoranium, dihydridofluorine(1+)		
H ₂ I	H ₂ I [•] , λ ³ -iodanyl, dihydridoiodine(•)	H ₂ I ⁺ , iodanium, dihydridoiodine(1+)		
H ₂ IO ₂	-I(OH) ₂ , dihydroxy-λ ³ -iodanyl			
H ₂ N _m , see N _m H ₂				
H ₂ NO	H ₂ NO [•] , aminooxidanyl, dihydridooxidnitrogen(•); aminoxyl HONH [•] , hydroxyazanyl, hydridohydroxidnitrogen(•) -NH(OH), hydroxyazanyl, hydroxyamino -O-NH ₂ , aminooxy -NH ₂ (O), oxo-λ ⁵ -azanyl;, azinoyl		HONH ⁻ , hydroxyazanide, hydridohydroxidnitrate(1-) H ₂ NO ⁻ , azanolate, aminooxidamide, dihydridooxidnitrate(1-)	NHOH ⁻ , hydroxyazanido, hydridohydroxidnitrato(1-) H ₂ N O ⁻ , azanolato, aminooxidano, dihydridooxidnitrato(1-)

H ₂ NOS	-S(O)-NH ₂ , azanyloxo-λ ⁴ -sulfanyl; aminosulfinyl			
H ₂ NOS ₂	-S(O) ₂ -NH ₂ , azanyldioxo-λ ⁶ -sulfanyl; aminosulfonyl; sulfamoyl			
H ₂ NO ₃		[NO(OH) ₂] ⁺ , dihydroxidooxidnitrogen(1+)		
H ₂ NS	-S-NH ₂ , (azanyl)sulfanyl; aminosulfanyl -NH ₂ (S), sulfanylidene-λ ⁵ -azanyl; azinothioyl			
H ₂ O	H ₂ O, dihydrogen oxide; water H ₂ O = [OH ₂], oxidane (parent hydride name), dihydridooxygen ¹ H ₂ O, diprotium oxide; (¹ H ₂)water D ₂ O, dideuterium oxide; (² H ₂)water T ₂ O, ditritium oxide; (³ H ₂)water			H ₂ O, aqua
H ₂ OP	-PH ₂ (O), oxo-λ ⁵ -phosphanyl; phosphinoyl		[PH ₂ O] ⁻ , dihydridooxidophosphate(1-)	[PH ₂ O] ⁻ , dihydridooxidophosphato(1-)
H ₂ OSb	-SbH ₂ (O), oxo-λ ⁵ -stibanyl, dihydrostiboryl, stibinoyl			

H ₂ O ₂	H ₂ O ₂ , dihydrogen peroxide; hydrogen peroxide HOOH, dioxidane (parent hydride name), bis(hyridooxygen)(O-O)	HOOH ^{•+} , dioxidaniumyl, bis(hyridooxygen)(O-O)(•1+)		HOOH, dioxidane
H ₂ O ₂ P	-P(OH) ₂ , dihydroxyphosphanyl -PH(O)(OH), hydroxyoxo-λ ⁵ -phosphanyl		[PH ₂ O ₂] ⁻ , dihyridodioxidophosphate(1-); phosphinate	[PH ₂ O ₂] ⁻ , dihyridodioxidophosphato(1-); phosphinato
H ₂ O ₃ B			[BO(OH) ₂] ⁻ , dihydroxidooxidoborate(1-); dihydrogenborate	[BO(OH) ₂] ⁻ , dihydroxidooxidoborato(1-); dihydrogenborato
H ₂ O ₃ P	-P(O)(OH) ₂ , dihydroxyoxo-λ ⁵ - phosphanyl; dihydroxyphosphoryl, phosphono		[PHO ₂ (OH)] ⁻ , hydridohydroxidodioxido ∘ phosphate(1-); hydrogenphosphonate [PO(OH) ₂] ⁻ , dihydroxidooxidophosphate(1-); dihydrogenphosphite	[PHO ₂ (OH)] ⁻ , hydridohydroxidodioxido ∘ phosphato(1-); hydrogenphosphonato [PO(OH) ₂] ⁻ , dihydroxidooxidophosphato(1-); dihydrogenphosphito
H ₂ O ₄ P	(HO) ₂ PO ₂ [•] (dihydroxido)dioxido ∘ phosphorus(•)		H ₂ PO ₄ ⁻ , dihydroxidodioxidophosphate(1-); dihydrogenphosphate	H ₂ PO ₄ ⁻ , dihydroxidodioxidophosphato(1-); dihydrogenphosphato
H ₂ O ₅ P ₂			P ₂ H ₂ O ₅ ²⁻ = [PH(O) ₂ OPH(O) ₂] ²⁻ , μ-oxido- bis(hyridodioxidophosphate)(2-); diphosphonate	P ₂ H ₂ O ₅ ²⁻ = [PH(O) ₂ OPH(O) ₂] ²⁻ , μ-oxido- bis(hyridodioxidophosphato)(2-); diphosphonato

H ₂ PS	-PH ₂ (S), sulfanylidene-λ ⁵ -phosphanyl; phosphinothioyl			
H ₂ Po	H ₂ Po, dihydrogen polonide H ₂ Po = [PoH ₂], polane (parent hydride name), dihydridopolonium			
H ₂ S	H ₂ S, dihydrogen sulfide; hydrogen sulfide H ₂ S = [SH ₂], sulfane (parent hydride name), dihydridosulfur	H ₂ S ^{•+} , sulfaniumyl, dihydridosulfur(•1+) -SH ₂ ⁺ , sulfaniumyl	H ₂ S ^{•-} , sulfanuidyl, dihydridosulfate(•1-) ^d	H ₂ S, sulfane
H ₂ S ₂	H ₂ S ₂ , dihydrogen disulfide HSSH, disulfane (parent hydride name), bis(hydridosulfur)(S-S)	HSSH ^{•+} , disulfaniumyl, bis(hydridosulfur)(S-S)(•1+)	HSSH ^{•-} , disulfanuidyl, bis(hydridosulfate)(S-S)(•1-) ^d	HSSH, disulfane
H ₂ S ₃	H ₂ S ₃ , dihydrogen trisulfide HSSSH, trisulfane (parent hydride name)			HSSSH, trisulfane
H ₂ S ₄	H ₂ S ₄ , dihydrogen tetrasulfide HSSSSH, tetrasulfane (parent hydride name)			HSSSSH, tetrasulfane
H ₂ S ₅	H ₂ S ₅ , dihydrogen pentasulfide HSSSSSH, pentasulfane (parent hydride name)			HSSSSSH, pentasulfane

H ₂ Se	H ₂ Se, dihydrogen selenide; hydrogen selenide H ₂ Se = [SeH ₂], selane (parent hydride name), dihydroselenium	H ₂ Se ^{•+} , seleniumyl, dihydroselenium(•1+) –SeH ₂ ⁺ , seleniumyl	H ₂ Se ^{•–} , selanuidyl, dihydroselenate(•1–) ^d	H ₂ Se, selane
H ₂ Se ₂	H ₂ Se ₂ , dihydrogen diselenide HSeSeH, diselane (parent hydride name), bis(hydroselenium)(Se–Se)	HSeSeH ^{•+} , diselaniumyl, bis(hydroselenium)(Se–Se)(•1+)	HSeSeH ^{•–} , diselanuidyl, bis(hydroselenate)(Se–Se)(•1–) ^d	HSeSeH, diselane
H ₂ Te	H ₂ Te, dihydrogen tellanide; hydrogen tellanide H ₂ Te = [TeH ₂], tellane (parent hydride name), dihydrotellurium	H ₂ Te ^{•+} , tellaniumyl, dihydrotellurium(•1+) –TeH ₂ ⁺ , tellaniumyl	H ₂ Te ^{•–} , tellanuidyl, dihydrotellurate(•1–) ^d	H ₂ Te, tellane
H ₃		H ₃ ⁺ , trihydrogen(1+)		
H ₃ N _m , see N _m H ₃				
H ₃ NO	HONH ₂ , azanol, dihydridohydroxidonitrogen; hydroxylamine (parent name for organic derivatives)	HONH ₂ ^{•+} , hydroxyazanumyl, dihydridohydroxidonitrogen(•1+)		HONH ₂ , azanol, dihydridohydroxidonitrogen; hydroxylamine
H ₃ NP	–PH ₂ (=NH), imino-λ ⁵ -phosphanyl; phosphinimidoyl			

H ₃ O		H ₃ O ⁺ , oxidanium, trihydridoxygen(1+), aquahydrogen(1+); oxonium		
H ₃ OSi	–O–SiH ₃ , silyloxy			
H ₃ O ₄ S		[SO(OH) ₃] ⁺ , trihydroxidooxidosulfur(1+), trihydrogen(tetraoxidosulfate)(1+)		
H ₃ O ₅ P	[PO(OH) ₂ (OOH)], (dioxidanido)dihydroxido ⊂ oxidophosphorus; peroxyphosphoric acid, phosphoroperoxoic acid			
H ₃ S	H ₃ S [•] , λ ⁴ -sulfanyl, trihydrosulfur(•)	H ₃ S ⁺ , sulfanium, trihydrosulfur(1+)	H ₃ S ⁻ , sulfanuide, trihydrosulfate(1–)	
H ₃ Se	H ₃ Se [•] , λ ⁴ -selanyl, trihydroselenium(•)	H ₃ Se ⁺ , selanium, trihydroselenium(1+)	H ₃ Se ⁻ , selanuide, trihydroselenate(1–)	
H ₃ Te	H ₃ Te [•] , λ ⁴ -tellanyl, trihydridotellurium(•)	H ₃ Te ⁺ , tellanium, trihydridotellurium(1+)	H ₃ Te ⁻ , tellanuide, trihydridotellurate(1–)	
H ₄ N _m , see N _m H ₄				
H ₄ NO		NH ₂ OH ₂ ⁺ , aminooxidanium, aquadihydridonitrogen(1+) NH ₃ OH ⁺ , hydroxyzanium, trihydridohydroxidonitrogen(1+); hydroxyammonium		

H ₄ O		H ₄ O ²⁺ , oxidanediium, tetrahydridooxygen(2+)		
H ₅ IO ₆	IO(OH) ₅ , pentahydroxy- λ^7 -iodanone, pentahydroxidooxidoiodine; orthoperiodic acid			
H ₅ N ₂ , see N ₂ H ₅				
H ₅ O ₂		[H(H ₂ O) ₂] ⁺ , μ -hydrido- bis(dihydridooxygen)(1+), diaquahydrogen(1+)		
H ₆ N ₂ , see N ₂ H ₆				
He	helium	helium (general) He ^{•+} , helium(\bullet 1+)	helide	helido
HeH		HeH ⁺ , hydridohelium(1+)		
He ₂		He ₂ ⁺ , dihelium(1+) He ₂ ²⁺ , dihelium(2+)		
Hf	hafnium	hafnium	hafnide	hafnido
Hg	mercury	mercury (general) Hg ²⁺ , mercury(2+)	mercuride	mercurido
Hg ₂		Hg ₂ ²⁺ , dimercury(2+)		
Ho	holmium	holmium	holmide	holmido
Hs	hassium	hassium	hasside	hassido

I	iodine (general) I [•] , iodine(•), monoiodine -I, iodo	iodine (general) I ⁺ , iodine(1+)	iodide (general) I ⁻ , iodide(1-); iodide	I ⁻ , iodido(1-); iodido
ICl ₂	ICl ₂ [•] , dichloridoiodine(•) -ICl ₂ , dichloro-λ ³ -iodanyl	ICl ₂ ⁺ , dichloroiodanium, dichloridoiodine(1+)		
IF	IF, iodine fluoride [IF], fluoridoiodine			
IF ₄		IF ₄ ⁺ , tetrafluoro-λ ³ -iodanium, tetrafluoridoiodine(1+)	IF ₄ ⁻ , tetrafluoro-λ ³ -iodanuide, tetrafluoridoiodate(1-)	IF ₄ ⁻ , tetrafluoridoiodato(1-)
IF ₆			IF ₆ ⁻ , hexafluoro-λ ⁵ -iodanuide, hexafluoridoiodate(1-)	IF ₆ ⁻ , hexafluoro-λ ⁵ -iodanuido, hexafluoridoiodato(1-)
IH, see HI				
IO	IO, iodine mon(o)oxide IO [•] , oxidoiodine(•); iodosyl -IO, oxo-λ ³ -iodanyl; iodosyl -OI, iodoxy	IO ⁺ , oxidoiodine(1+) (<i>not</i> iodosyl)	IO ⁻ , oxidoiodate(1-); hypiodite IO ^{•2-} , oxidoiodate(•2-)	IO ⁻ , oxidoiodato(1-); hypiodito
IO ₂	IO ₂ , iodine dioxide IO ₂ [•] , dioxidoiodine(•) -IO ₂ , dioxo-λ ⁵ -iodanyl; iodyl -OIO, oxo-λ ³ -iodanyloxy	IO ₂ ⁺ , dioxidoiodine(1+) (<i>not</i> iodyl)	IO ₂ ⁻ , dioxidoiodate(1-); iodite	IO ₂ ⁻ , dioxidoiodato(1-); iodito
IO ₃	IO ₃ , iodine trioxide IO ₃ [•] , trioxidoiodine(•) -IO ₃ , trioxo-λ ⁷ -iodanyl; periodyl -OIO ₂ , dioxo-λ ⁵ -iodanyloxy	IO ₃ ⁺ , trioxidoiodine(1+) (<i>not</i> periodyl)	IO ₃ ⁻ , trioxidoiodate(1-); iodate	IO ₃ ⁻ , trioxidoiodato(1-); iodato

IO ₄	IO ₄ , iodine tetraoxide IO ₄ [•] , tetraoxidoiodine(•) -OIO ₃ , trioxo-λ ⁷ -iodanyloxy		IO ₄ ⁻ , tetraoxidoiodate(1-); periodate	IO ₄ ⁻ , tetraoxidoiodato(1-); periodato
IO ₅			IO ₅ ³⁻ , pentaaxidoiodate(3-)	IO ₅ ³⁻ , pentaaxidoiodato(3-)
IO ₆			IO ₆ ⁵⁻ , hexaaxidoiodate(5-); orthoperiodate	IO ₆ ⁵⁻ , hexaaxidoiodato(5-); orthoperiodato
I ₂	I ₂ , diiodine	I ₂ ^{•+} , diiodine(•1+)	I ₂ ^{•-} , diiodide(•1-)	I ₂ , diiodine
I ₂ O ₉			I ₂ O ₉ ⁴⁻ , nonaaxidodiiodate(4-) [O ₃ I(μ-O) ₃ IO ₃] ⁴⁻ , tri-μ-oxido-bis(trioxidoiodate)(4-)	I ₂ O ₉ ⁴⁻ , nonaaxidodiiodato(4-) [O ₃ I(μ-O) ₃ IO ₃] ⁴⁻ , tri-μ-oxido-bis(trioxidoiodato)(4-)
I ₃	I ₃ , triiodine		I ₃ ⁻ , triiodide(1-); triiodide	I ₃ ⁻ , triiodido(1-); triiodido
In	indium	indium	indide	indido
InH ₂	-InH ₂ , indiganyl			
InH ₃	InH ₃ , indium trihydride [InH ₃], indigane (parent hydride name), trihydridoindium			
Ir	iridium	iridium	iridide	iridido
K	potassium	potassium	potasside	potasside0
KO ₂	KO ₂ , potassium dioxide(1-); potassium superoxide			
KO ₃	KO ₃ , potassium trioxide(1-); potassium ozonide			
K ₂ O	K ₂ O, dipotassium oxide			
K ₂ O ₂	K ₂ O ₂ , dipotassium dioxide(2-); potassium peroxide			

Kr	krypton	krypton	kryptonide	kryptonido
La	lanthanum	lanthanum	lanthanide ^a	lanthanido
Li	lithium	lithium (general) Li ⁺ , lithium(1+)	lithide (general) Li ⁻ , lithide(1-); lithide	lithido Li ⁻ , lithide(1-); lithido
LiAl	[LiAl], aluminidolithium			
LiBe	[LiBe], beryllidolithium			
LiCl	LiCl, lithium chloride [LiCl], chloridolithium	LiCl ⁺ , chloridolithium(1+)	LiCl ⁻ , chloridolithate(1-)	LiCl ⁻ , chloridolithato(1-)
LiH	LiH, lithium hydride [LiH], hydridolithium	LiH ⁺ , hydridolithium(1+)	LiH ⁻ , hydridolithate(1-)	LiH ⁻ , hydridolithato(1-)
LiMg	[LiMg], lithium monomagneside	LiMg ⁺ , magnesidolithium(1+)		
Li ₂	Li ₂ , dilithium	Li ₂ ⁺ , dilithium(1+)	Li ₂ ⁻ , dilithide(1-)	Li ₂ ⁻ , dilithido(1-)
Lr	lawrencium	lawrencium	lawrencide	lawrencido
Lu	lutetium	lutetium	lutetide	lutetido
Md	mendelevium	mendelevium	mendelevide	mendelevido
Mg	magnesium	magnesium (general) Mg ⁺ , magnesium(1+) Mg ²⁺ , magnesium(2+)	magneside (general) Mg ⁻ , magneside(1-)	magnesido Mg ⁻ , magnesido(1-)
Mn	manganese	manganese (general) Mn ²⁺ , manganese(2+) Mn ³⁺ , manganese(3+)	manganide	manganido
MnO	MnO, manganese mon(o)oxide, manganese(II) oxide			

MnO ₂	MnO ₂ , manganese dioxide, manganese(IV) oxide			
MnO ₃		MnO ₃ ⁺ , trioxidomanganese(1+)		
MnO ₄			MnO ₄ ⁻ , tetraoxidomanganate(1-), permanganate MnO ₄ ²⁻ , tetraoxidomanganate(2-), manganate(VI) MnO ₄ ³⁻ , tetraoxidomanganate(3-), manganate(V)	MnO ₄ ⁻ , tetraoxidomanganato(1-), permanganato MnO ₄ ²⁻ , tetraoxidomanganato(2-), manganato(VI) MnO ₄ ³⁻ , tetraoxidomanganato(3-), manganato(V)
Mn ₂ O ₃	Mn ₂ O ₃ , dimanganese trioxide, manganese(III) oxide			
Mn ₂ O ₇	Mn ₂ O ₇ , dimanganese heptaoxide, manganese(VII) oxide [O ₃ MnOMnO ₃] μ-oxidobis(trioxidomanganese)			
Mn ₃ O ₄	Mn ₃ O ₄ , trimanganese tetraoxide Mn ^{II} Mn ^{III} ₂ O ₄ , manganese(II,III) tetraoxide			
Mo	molybdenum	molybdenum	molybdenide	molybdenido
Mt	meitnerium	meitnerium	meitneride	meitnerido

N	nitrogen N [•] , nitrogen([•]), mononitrogen -N<, azanetriyl; nitrilo -N=, azanylylidene ≡N, azanylidyne	nitrogen (general) N ⁺ , nitrogen(1+)	nitride (general) N ³⁻ , nitride(3-), azanetriide; nitride =N ⁻ , azanidylidene; amidylidene -N ²⁻ , azanediidyl	N ³⁻ , nitrido, azanetriido
NCO, see CNO				
NCS, see CNS				
NF			NF ²⁻ , fluoroazanediide, fluoridonitrate(2-)	NF ²⁻ , fluoroazanediido, fluoridonitrato(2-)
NF ₃	NF ₃ , nitrogen trifluoride [NF ₃], trifluoroazane, trifluoridonitrogen			NF ₃ , trifluoroazane, trifluoridonitrogen
NF ₄		NF ₄ ⁺ , tetrafluoroammonium, tetrafluoroazanium, tetrafluoridonitrogen(1+)		
NH	NH ^{2•} , azanediyl (triplet), hydridonitrogen(2•) (triplet) >NH, azanediyl =NH, azanylidene; imino	NH ⁺ , azanyliumdiyl, hydridonitrogen(1+) NH ²⁺ , azanebis(ylum), hydridonitrogen(2+)	NH ⁻ , azanidyl, hydridonitrate(1-) NH ²⁻ , azanediide, hydridonitrate(2-); imide -NH ⁻ , azanidyl; amidyl	NH ²⁻ , azanediido, hydridonitrato(2-); imido
NH ₂	NH ₂ [•] , azanyl, dihydridonitrogen([•]); aminyl -NH ₂ , azanyl; amino	NH ₂ ⁺ , azanylium, dihydridonitrogen(1+)	NH ₂ ⁻ , azanide, dihydridonitrate(1-); amide	NH ₂ ⁻ , azanido, dihydridonitrato(1-), amido

NH ₃	NH ₃ , azane (parent hydride name), amine (parent name for certain organic derivatives), trihydridonitrogen; ammonia	NH ₃ ^{•+} , azaniumyl, trihydridonitrogen(•1+) –NH ₃ ⁺ , azaniumyl; ammonio	NH ₃ ^{•-} , azanuidyl, trihydridonitrate(•1–) ^d	NH ₃ , ammine
NH ₄	NH ₄ [•] , λ ⁵ -azanyl, tetrahydridonitrogen(•)	NH ₄ ⁺ , azanium; ammonium		
NO	NO, nitrogen mon(o)oxide (<i>not</i> nitric oxide) NO [•] , oxoazanyl, oxidonitrogen(•); nitrosyl –N=O, oxoazanyl; nitroso >N(O)–, oxo-λ ⁵ -azanyl; azoryl =N(O)–, oxo-λ ⁵ -azanylidene; azorylidene ≡N(O), oxo-λ ⁵ -azanylidyne; azorylidyne –O ⁺ =N ⁻ , azanidylideneoxidaniumyl	NO ⁺ , oxidonitrogen(1+) (<i>not</i> nitrosyl) NO ²⁺ , oxidonitrogen(2+)	NO ⁻ , oxidonitrate(1–) NO ^(2•-) , oxidonitrate(2•1–) (triplet)	oxidonitrogen; nitrosyl (general) NO ⁺ , oxidonitrogen(1+) NO ⁻ , oxidonitrato(1–)
NO ₂	NO ₂ , nitrogen dioxide NO ₂ [•] = ONO [•] , nitrosooxidanyl, dioxidonitrogen(•); nitryl –NO ₂ , nitro –ONO, nitrosooxy	NO ₂ ⁺ , dioxidonitrogen(1+) (<i>not</i> nitryl)	NO ₂ ⁻ , dioxidonitrate(1–); nitrite NO ₂ ^{•2-} , dioxidonitrate(•2–)	NO ₂ ⁻ , dioxidonitrato(1–) (general); nitrito = dioxidonitrato(1–)–κO nitro = dioxidonitrato(1–)–κN NO ₂ ^{•2-} , dioxidonitrato(•2–)

NO ₃	NO ₃ , nitrogen trioxide NO ₃ [•] = O ₂ NO [•] , nitrooxidanyl, trioxidonitrogen(•) ONOO [•] , nitrosodioxidanyl, oxidoperoxidonitrogen(•) -ONO ₂ , nitrooxy		NO ₃ ⁻ , trioxidonitrate(1-); nitrate NO ₃ ^{•2-} , trioxidonitrate(•2-) [NO(OO)] ⁻ , oxidoperoxidonitrate(1-); peroxynitrite	NO ₃ ⁻ , trioxidonitrato(1-); nitrato NO ₃ ^{•2-} , trioxidonitrato(•2-) [NO(OO)] ⁻ , oxidoperoxidonitrato(1-); peroxynitrito
NO ₄			NO ₂ (O ₂) ⁻ , dioxidoperoxidonitrate(1-); peroxynitrate	NO ₂ (O ₂) ⁻ , dioxidoperoxidonitrato(1-); peroxynitrato
NS	NS, nitrogen monosulfide NS [•] , sulfidonitrogen(•) -N=S, sulfanylideneazanyl; thionitroso	NS ⁺ , sulfidonitrogen(1+) (<i>not</i> thionitrosyl)	NS ⁻ , sulfidonitrate(1-)	sulfidonitrogen, sulfidonitrato, thionitrosyl (general) NS ⁺ , sulfidonitrogen(1+) NS ⁻ , sulfidonitrato(1-)
N ₂	N ₂ , dinitrogen =N ⁺ =N ⁻ , (azanidylidene)azaniumylidene; diazo -N=N-, diazane-1,2-diylidene; hydrazinediylidene =NN=, diazene-1,2-diyl; azo	N ₂ ^{•+} , dinitrogen(•1+) N ₂ ²⁺ , dinitrogen(2+) -N ⁺ ≡N, diazyn-1-ium-1-yl	N ₂ ²⁻ , dinitride(2-) N ₂ ⁴⁻ , dinitride(4-), diazanettraide; hydrazinettraide	N ₂ , dinitrogen N ₂ ²⁻ , dinitrido(2-) N ₂ ⁴⁻ , dinitrido(4-), diazanettraide; hydrazinettraido
N ₂ H		N≡NH ⁺ , diazynium	N≡NH ⁻ , diazenide NNH ³⁻ , diazanetriide, hydrazinetriide	N≡NH ⁻ , diazenido NNH ³⁻ , diazanetriido, hydrazinetriido

N_2H_2	HN=NH, diazene -N=NH ₂ ⁺ , diazen-2-ium-1-ide =NNH ₂ , diazanylidene; hydrazinylidene -HNNH-, diazane-1,2-diyl; hydrazine-1,2-diyl	HNNH ²⁺ , diazenediium	HNNH ²⁻ , diazane-1,2-diide, hydrazine-1,2-diide H ₂ NN ²⁻ , diazane-1,1-diide, hydrazine-1,1-diide	HN=NH, diazene -N=NH ₂ ⁺ , diazen-2-ium-1-ido HNNH ²⁻ , diazane-1,2-diido, hydrazine-1,2-diido H ₂ NN ²⁻ , diazane-1,1-diido, hydrazine-1,1-diido
N_2H_3	H ₂ NNH [•] , diazanyl, trihydridodinitrogen(<i>N-N</i>)([•]); hydrazinyl -NHNH ₂ , diazanyl; hydrazinyl ² -N-NH ₃ ⁺ , diazan-2-ium-1,1-diide	H ₂ N=NH ⁺ , diazenium	H ₂ NNH ⁻ , diazanide, hydrazinide	² -N-NH ₃ ⁺ , diazan-2-ium-1,1-diido H ₂ NNH ⁻ , diazanido, hydrazinido
N_2H_4	H ₂ NNH ₂ , diazane (parent hydride name), hydrazine (parent name for organic derivatives) -NHNH ₃ ⁺ , diazan-2-ium-1-ide	H ₂ NNH ₂ ^{•+} , diazaniumyl, bis(dihydridonitrogen)(<i>N-N</i>)([•] 1+); hydraziniumyl H ₂ N=NH ₂ ²⁺ , diazenediium		H ₂ NNH ₂ , diazane, hydrazine -NH-NH ₃ ⁺ , diazan-2-ium-1-ido
N_2H_5		H ₂ NNH ₃ ⁺ , diazanium, hydrazinium		
N_2H_6		H ₃ NNH ₃ ²⁺ , diazannediium, hydrazinediium		
N_2O	N ₂ O, dinitrogen oxide NNO, oxidodinitrogen(<i>N-N</i>) -N(O)=N-, azoxy		N ₂ O ^{•-} , oxidodinitrate([•] 1-)	N ₂ O, dinitrogen oxide (general) NNO, oxidodinitrogen(<i>N-N</i>) N ₂ O ^{•-} , oxidodinitrato([•] 1-)
N_2O_2	N ₂ O ₂ , dinitrogen dioxide ONNO, bis(oxidonitrogen)(<i>N-N</i>)		N ₂ O ₂ ²⁻ , diazenediolate, bis(oxidonitrate)(<i>N-N</i>)(2-)	N ₂ O ₂ ²⁻ , bis(oxidonitrato)(<i>N-N</i>)(2-)

N ₂ O ₃	N ₂ O ₃ , dinitrogen trioxide O ₂ NNO, trioxido-1κ ² O,2κO- ☉ dinitrogen(N-N) NO ⁺ NO ₂ ⁻ , oxidonitrogen(1+) dioxidonitrate(1-) ONONO, dinitrosooxidane, μ-oxidobis(oxidonitrogen)		N ₂ O ₃ ²⁻ = [O ₂ NNO] ²⁻ , trioxido-1κ ² O,2κO- dinitrate(N-N)(2-)	
N ₂ O ₄	N ₂ O ₄ , dinitrogen tetraoxide O ₂ NNO ₂ , bis(dioxidonitrogen)(N-N) ONOONO, 1,2-dinitrosodioxidane, bis(nitrosyl-κN-oxygen)(O-O), 2,5-diazy-1,3,4,6- ☉ tetraoxy[6]catena NO ⁺ NO ₃ ⁻ , oxidonitrogen(1+) trioxidonitrate(1-)			
N ₂ O ₅	N ₂ O ₅ , dinitrogen pentaoxide O ₂ NONO ₂ , dinitrooxidane, μ-oxido- bis(dioxidonitrogen)(N-N) NO ₂ ⁺ NO ₃ ⁻ , dioxidonitrogen(1+) trioxidonitrate(1-)			

N ₃	N ₃ [•] , trinitrogen(•) –N=N ⁺ =N [–] , azido		N ₃ [–] , trinitride(1–); azide	N ₃ [–] , trinitrido(1–); azido
N ₃ H	N ₃ H, hydrogen trinitride(1–); hydrogen azide [NNNH], hydrido-1κH-trinitrogen(2 N–N)			
N ₃ H ₂	–NHN=NH, triaz-2-en-1-yl			
N ₃ H ₅	–NHNHNH ₃ , triazan-1-yl			
N ₅		N ₅ ⁺ , pentanitrogen(1+)		
N ₆			N ₆ ^{•–} , hexanitride(•1–)	N ₆ ^{•–} , hexanitrido(•1–)
Na	sodium	sodium (general) Na ⁺ , sodium(1+)	sodide (general) Na [–] , sodide(1–); sodide	sodido Na [–] , sodido(1–); sodido
NaCl	NaCl, sodium chloride [NaCl], chloridosodium	NaCl ⁺ , chloridosodium(1+)	NaCl [–] , chloridosodate(1–)	
Na ₂	Na ₂ , disodium	Na ₂ ⁺ , disodium(1+)	Na ₂ [–] , dinatride(1–)	Na ₂ [–] , dinatrido(1–)
Nb	niobium	niobium	niobide	niobido
Nd	neodymium	neodymium	neodymide	neodymido
Ne	neon	neon (general) Ne ⁺ , neon(1+)	neonide	neonido
NeH		NeH ⁺ , hydridoneon(1+)		
NeHe		NeHe ⁺ , helidoneon(1+)		
Ni	nickel	nickel (general) Ni ²⁺ , nickel(2+) Ni ³⁺ , nickel(3+)	nickelide	nickelido
No	nobelium	nobelium	nobelide	nobelido

Np	neptunium	neptunium	neptunide	neptunido
NpO ₂	NpO ₂ , neptunium dioxide	NpO ₂ ⁺ , dioxidoneptunium(1+) [<i>not</i> neptunyl(1+)] NpO ₂ ²⁺ , dioxidoneptunium(2+) [<i>not</i> neptunyl(2+)]		
O	oxygen (general) O, monooxygen O ^{2•} , oxidanediyl (triplet), oxygen(2•) (triplet) >O, oxy, epoxy (in rings) =O, oxo	oxygen (general) O ^{•+} , oxygen(•1+)	oxide (general) O ^{•-} , oxidanidyl, oxide(•1-) O ²⁻ , oxide(2-); oxide -O ⁻ , oxido	O ²⁻ , oxido
OCN, see CNO				
OD ₂ , see H ₂ O				
OF	OF, oxygen monofluoride OF [•] , fluoridooxygen(•) -FO, oxo-λ ⁵ -fluoranyl; fluorosyl	OF ⁺ , fluoridooxygen(1+)	OF ⁻ , fluoridooxygenate(1-)	
OF ₂	OF ₂ , oxygen difluoride [OF ₂], difluoridooxygen			
OH, see HO				
OH ₂ , see H ₂ O				
O ¹ H ₂ , see H ₂ O				
ONC, see CNO				
OT ₂ , see H ₂ O				

O ₂	O ₂ , dioxygen O ₂ ^{2•} , dioxidaniidyl (triplet), dioxygen(2•) (triplet) –OO–, dioxidaniidyl; peroxy	O ₂ ^{•+} , dioxidanyliumyl, dioxygen(•1+) O ₂ ²⁺ , dioxidanebis(ylum), dioxygen(2+)	O ₂ ^{•–} , dioxidaniidyl, dioxide(•1–); superoxide (<i>not</i> hyperoxide) O ₂ ^{2–} , dioxidaniidiide, dioxide(2–); peroxide	dioxido (general) O ₂ , dioxygen O ₂ ^{•–} , dioxido(•1–); superoxido O ₂ ^{2–} , dioxidaniidiido, dioxido(2–); peroxido
O ₂ F ₂	O ₂ F ₂ , dioxygen difluoride FOOF, difluorodioxidane, bis(fluoridooxygen)(O–O)			
O ₃	O ₃ , trioxygen; ozone –OOO–, trioxidaniidyl		O ₃ ^{•–} , trioxidaniidyl, trioxide(•1–); ozonide	O ₃ , trioxygen; ozone O ₃ ^{•–} , trioxido(•1–); ozonido
Os	osmium	osmium	osmide	osmido
P	phosphorus (general) P [•] , phosphorus(•), monophosphorus >P–, phosphanetriyl	phosphorus (general) P ⁺ , phosphorus(1+)	phosphide (general) P [–] , phosphide(1–) P ^{3–} , phosphide(3–), phosphanetriide; phosphide	P ^{3–} , phosphido, phosphanetriido
PF			PF ^{2–} , fluorophosphanediide, fluoridophosphate(2–)	PF ^{2–} , fluorophosphanediido, fluoridophosphato(2–)
PF ₂			PF ₂ [–] , difluorophosphanide, difluoridophosphate(1–)	PF ₂ [–] , difluorophosphanido, difluoridophosphato(1–)
PF ₃	PF ₃ , phosphorus trifluoride [PF ₃], trifluorophosphane, trifluoridophosphorus			
PF ₄		PF ₄ ⁺ , tetrafluorophosphanium, tetrafluoridophosphorus(1+)	PF ₄ [–] , tetrafluorophosphanuide, tetrafluoridophosphate(1–)	PF ₄ [–] , tetrafluorophosphanuido, tetrafluoridophosphato(1–)

PF ₅	PF ₅ , phosphorus pentafluoride [PF ₅], pentafluoro-λ ⁵ -phosphane, pentafluoridophosphorus			
PF ₆			PF ₆ ⁻ , hexafluoro-λ ⁵ -phosphanuide, hexafluoridophosphate(1-)	PF ₆ ⁻ , hexafluoro-λ ⁵ -phosphanuido, hexafluoridophosphato(1-)
PH	PH ₂ [•] , phosphanediyl (triplet), hydridophosphorus(•) (triplet) >PH, phosphanediyl =PH, phosphanylidene	PH ⁺ , phosphanyliumdiyl, hydridophosphorus(1+) PH ²⁺ , phosphanebis(ylum), hydridophosphorus(2+)	PH ⁻ , phosphanidediyl, hydridophosphate(1-) PH ²⁻ , phosphanediide, hydridophosphate(2-)	PH ²⁻ , phosphanediido, hydridophosphato(2-)
PH ₂	PH ₂ [•] , phosphanyl, dihydridophosphorus(•) -PH ₂ , phosphanyl	PH ₂ ⁺ , phosphanylium, dihydridophosphorus(1+)	PH ₂ ⁻ , phosphanide, dihydridophosphate(1-)	PH ₂ ⁻ , phosphanido, dihydridophosphato(1-)
PH ₃	PH ₃ , phosphorus trihydride [PH ₃], phosphane (parent hydride name), trihydridophosphorus	PH ₃ ^{•+} , phosphaniumyl, trihydridophosphorus(•1+) -PH ₃ ⁺ , phosphaniumyl	PH ₃ ^{•-} , phosphanuidyl, trihydridophosphate(•1-) ^d	PH ₃ , phosphane
PH ₄	-PH ₄ , λ ⁵ -phosphanyl	PH ₄ ⁺ , phosphanium, tetrahydridophosphorus(1+)	PH ₄ ⁻ , phosphanuide, tetrahydridophosphate(1-)	PH ₄ ⁻ , phosphanuido, tetrahydridophosphato(1-)
PH ₅	PH ₅ , λ ⁵ -phosphane (parent hydride name)			

IUPAC Provisional Recommendations

PO	PO [•] , oxophosphanyl, oxidophosphorus(•), phosphorus mon(o)oxide; phosphoryl >P(O)–, oxo-λ ⁵ -phosphanetriyl; phosphoryl =P(O)–, oxo-λ ⁵ -phosphanylidene; phosphorylidene ≡P(O), oxo-λ ⁵ -phosphanylidyne; phosphorylidyne	PO ⁺ , oxidophosphorus(1+) (<i>not</i> phosphoryl)	PO [–] , oxidophosphate(1–)	
PO ₂	–P(O) ₂ , dioxo-λ ⁵ -phosphanyl		PO ₂ [–] , dioxidophosphate(1–)	PO ₂ [–] , dioxidophosphato(1–)
PO ₃			PO ₃ [–] , trioxidophosphate(1–) PO ₃ ^{•2–} , trioxidophosphate(•2–) PO ₃ ^{3–} , trioxidophosphate(3–); phosphite (PO ₃ [–]) _n = (P(O) ₂ O) _n ^{n–} , <i>catena</i> -poly[(dioxidophosphate-μ- oxido)(1–)]; metaphosphate –P(O)(O [–]) ₂ , dioxidooxo-λ ⁵ - phosphanyl; phosphonato	PO ₃ [–] , trioxidophosphato(1–) PO ₃ ^{•2–} , trioxidophosphato(•2–) PO ₃ ^{3–} , trioxidophosphato(3–); phosphito
PO ₄			PO ₄ ^{•2–} , tetraoxidophosphate(•2–) PO ₄ ^{3–} , tetraoxidophosphate(3–); phosphate	PO ₄ ^{3–} , tetraoxidophosphato(3–); phosphato

PO ₅			PO ₅ ^{•2-} = PO ₃ (OO) ^{•2-} , trioxidoperoxidophosphate(•2-) PO ₅ ³⁻ = PO ₃ (OO) ³⁻ , trioxidoperoxidophosphate(3-), peroxyphosphate	PO ₅ ³⁻ = PO ₃ (OO) ³⁻ , trioxidoperoxidophosphato(3-), peroxyphosphato
PS	PS [•] , sulfidophosphorus(•); -PS, thiophosphoryl	PS ⁺ , sulfidophosphorus(1+) (<i>not</i> thiophosphoryl)		
PS ₄			PS ₄ ³⁻ , tetrasulfidophosphate(3-)	PS ₄ ³⁻ , tetrasulfidophosphato(3-)
P ₂	P ₂ , diphosphorus	P ₂ ⁺ , diphosphorus(1+)	P ₂ ⁻ , diphosphide(1-) P ₂ ²⁻ , diphosphide(2-)	P ₂ , diphosphorus P ₂ ⁻ , diphosphido(1-) P ₂ ²⁻ , diphosphido(2-)
P ₂ H			HP=P ⁻ , diphosphenide PPH ³⁻ , diphosphanetriide	HP=P ⁻ , diphosphenido PPH ³⁻ , diphosphanetriido
P ₂ H ₂	HP=PH, diphosphene (parent hydride name)		HPPH ²⁻ , diphosphane-1,2-diide H ₂ PP ²⁻ , diphosphane-1,1-diide	HP=PH, diphosphene HPPH ²⁻ , diphosphane-1,2-diido H ₂ PP ²⁻ , diphosphane-1,1- diido
P ₂ H ₃	H ₂ PPH [•] , diphosphanyl, trihydridodiphosphorus(<i>P-P</i>)(•) -HPPH ₂ , diphosphanyl		H ₂ PPH ⁻ , diphosphanide	H ₂ PPH ⁻ , diphosphanido
P ₂ H ₄	H ₂ PPH ₂ , diphosphane (parent hydride name)			H ₂ PPH ₂ , diphosphane
P ₂ O ₆			O ₃ PPO ₃ ³⁻ , bis(trioxidophosphate)(<i>P-P</i>)(4-); hypodiphosphate	O ₃ PPO ₃ ³⁻ , bis(trioxidophosphato)(<i>P-P</i>)(4-); hypodiphosphato

P ₂ O ₇			O ₃ POPO ₃ ⁴⁻ , μ-oxido-bis(trioxidophosphate)(4-); diphosphate	O ₃ POPO ₃ ⁴⁻ , μ-oxido-bis (trioxidophosphato)(4-); diphosphato
P ₂ O ₈			O ₃ POOPO ₃ ⁴⁻ , μ-peroxido-bis(trioxidophosphate)(4-); peroxydiphosphate	O ₃ POOPO ₃ ⁴⁻ , μ-peroxido-bis(trioxidophosphato)(4-); peroxydiphosphato
P ₄	P ₄ , tetraphosphorus			P ₄ , tetraphosphorus
Pa	protactinium	protactinium	protactinide	protactinido
Pb	lead	lead (general) Pb ²⁺ , lead(2+) Pb ⁴⁺ , lead(4+)	plumbide	plumbido
PbH ₄	PbH ₄ , plumbane (parent hydride name), tetrahydridolead, lead tetrahydride			
Pb ₉			Pb ₉ ⁴⁻ , nonaplumbide(4-)	
Pd	palladium	palladium (generla) Pd ²⁺ , palladium(2+) Pd ⁴⁺ , palladium(4+)	palladide	palladido
Pm	promethium	promethium	promethide	promethido
Po	polonium	polonium	polonide	polonido
PoH ₂ , see H ₂ Po				
Pr	praseodymium	praseodymium	praseodymide	praseodymido

Pt	platinum	platinum (general) Pt ²⁺ , platinum(2+) Pt ⁴⁺ , platinum(4+)	platinide	platinido
Pu	plutonium	plutonium	plutonide	plutonido
PuO ₂	PuO ₂ , plutonium dioxide	PuO ₂ ⁺ , dioxidoplutonium(1+) [not plutonyl(1+)] PuO ₂ ²⁺ , dioxidoplutonium(2+) [not plutonyl (2+)]		
Ra	radium	radium	radide	radido
Rb	rubidium	rubidium	rubidide	rubidido
Re	rhenium	rhenium	rhenide	rhenido
ReO ₄			ReO ₄ ⁻ , tetraoxidorhenate(1-) ReO ₄ ²⁻ , tetraoxidorhenate(2-)	ReO ₄ ⁻ , tetraoxidorhenato(1-) ReO ₄ ²⁻ , tetraoxidorhenato(2-)
Rf	rutherfordium	rutherfordium	rutherfordide	rutherfordido
Rh	rhodium	rhodium	rhodide	rhodido
Rn	radon	radon	radonide	radonido
Ru	ruthenium	ruthenium	ruthenide	ruthenido
S	sulfur (general) S, monosulfur =S, sulfanylidene; thioxo -S-, sulfanediyl	sulfur (general) S ⁺ , sulfur(1+)	sulfide (general) S ^{•-} , sulfanidyl, sulfide(•1-) S ²⁻ , sulfanediide, sulfide(2-); sulfide -S-, sulfido	sulfido (general) S ^{•-} , sulfanidyl, sulfido(•1-) S ²⁻ , sulfanediido, sulfido(2-)
SCN, see CNS				
SH, see HS				
SH ₂ , see H ₂ S				

SNC, see CNS				
SO	SO, sulfur mon(o)oxide [SO], oxidosulfur >SO, oxo- λ^4 -sulfanediyl; sulfinyl	SO ^{•+} , oxidosulfur(•1+) (not sulfinyl or thionyl)	SO ^{•-} , oxidosulfate(•1-)	[SO], oxidosulfur
SO ₂	SO ₂ , sulfur dioxide [SO ₂], dioxidosulfur >SO ₂ , dioxo- λ^6 -sulfanediyl; sulfuryl, sulfonyl		SO ₂ ^{•-} , dioxidosulfate(•1-) SO ₂ ²⁻ , dioxidosulfate(2-), sulfanediolate	[SO ₂], dioxidosulfur SO ₂ ²⁻ , dioxidosulfato(2-), sulfanediolato
SO ₃	SO ₃ , sulfur trioxide		SO ₃ ^{•-} , trioxidosulfate(•1-) SO ₃ ²⁻ , trioxidosulfate(2-); sulfite -S(O) ₂ (O ⁻), oxidodioxo- λ^6 -sulfanyl; sulfonato	SO ₃ ²⁻ , trioxidosulfato(2-); sulfito
SO ₄	-O-S(O) ₂ -O-, sulfonylbis(oxy)		SO ₄ ^{•-} , tetraoxidosulfate(•1-) SO ₄ ²⁻ , tetraoxidosulfate(2-); sulfate	SO ₄ ²⁻ , tetraoxidosulfato(2-); sulfato
SO ₅			SO ₅ ^{•-} = SO ₃ (OO) ^{•-} , trioxidoperoxidosulfate(•1-) SO ₅ ²⁻ = SO ₃ (OO) ²⁻ , trioxidoperoxidosulfate(2-); peroxysulfate	SO ₅ ²⁻ = SO ₃ (OO) ²⁻ , trioxidoperoxidosulfato(2-); peroxysulfato
S ₂	S ₂ , disulfur -SS-, disulfanediyl >S=S, sulfanylidene- λ^4 - sulfanediyl; sulfinothioyl	S ₂ ^{•+} , disulfur(•1+)	S ₂ ^{•-} , disulfanidyl, disulfide(•1-) S ₂ ²⁻ , disulfide(2-), disulfanediide -SS-, disulfanidyl	S ₂ ²⁻ , disulfido(2-), disulfanediido
S ₂ O	>S(=O)(=S), oxosulfanylidene- λ^6 -sulfanediyl; sulfonythioyl			

S_2O_2			$S_2O_2^{2-} = OSSO^{2-}$, disulfanediolate, bis(oxidosulfate)(<i>S-S</i>)(2-) $S_2O_2^{2-} = SOOS^{2-}$, dioxidanedithiolate, peroxybis(sulfanide), bis(sulfidooxygenate)(<i>O-O</i>)(2-) $S_2O_2^{2-} = SO_2S^{2-}$, dioxido-1 κ^2O -disulfate(<i>S-S</i>)(2-), dioxidosulfidosulfate(2-); thiosulfite	$S_2O_2^{2-} = OSSO^{2-}$, disulfanediolato, bis(oxidosulfato)(<i>S-S</i>)(2-) $S_2O_2^{2-} = SOOS^{2-}$, dioxidanedithiolato, peroxybis(sulfanido), bis(sulfidooxygenato)(<i>O-O</i>)(2-) $S_2O_2^{2-} = SO_2S^{2-}$, dioxido-1 κ^2O -disulfato(<i>S-S</i>)(2-), dioxidosulfidosulfato(2-); thiosulfito
S_2O_3			$S_2O_3^{\bullet -} = SO_3S^{\bullet -}$, trioxido-1 κ^3O -disulfate(<i>S-S</i>)($\bullet 1-$), trioxidosulfidosulfate($\bullet 1-$) $S_2O_3^{2-} = SO_3S^{2-}$, trioxido-1 κ^3O -disulfate(<i>S-S</i>)(2-), trioxidosulfidosulfate(2-); thiosulfate	$S_2O_3^{2-} = SO_3S^{2-}$, trioxido-1 κ^3O -disulfato(<i>S-S</i>)(2-), trioxidosulfidosulfato(2-); thiosulfato
S_2O_4			$S_2O_4^{2-} = O_2SSO_2^{2-}$, bis(dioxidosulfate)(<i>S-S</i>)(2-); dithionite	$S_2O_4^{2-} = O_2SSO_2^{2-}$, bis(dioxidosulfato)(<i>S-S</i>)(2-); dithionito
S_2O_5			$S_2O_5^{2-} = O_3SSO_2^{2-}$, pentaóxido- 1 $\kappa^3O, 2\kappa^2O$ -disulfate(<i>S-S</i>)(2-) $S_2O_5^{2-} = O_2SOSO_2^{2-}$, μ -óxido-bis(dioxidosulfate)(2-)	$S_2O_5^{2-} = O_3SSO_2^{2-}$, pentaóxido- 1 $\kappa^3O, 2\kappa^2O$ -disulfato(<i>S-S</i>)(2-) $S_2O_5^{2-} = O_2SOSO_2^{2-}$, μ -óxido-bis(dioxidosulfato)(2-)

S_2O_6			$S_2O_6^{2-} = O_3SSO_3^{2-}$, bis(trioxidosulfate)(<i>S-S</i>)(2-); dithionate	$S_2O_6^{2-} = O_3SSO_3^{2-}$, bis(trioxidosulfato)(<i>S-S</i>)(2-); dithionato
S_2O_7			$S_2O_7^{2-} = O_3SOSO_3^{2-}$, μ -oxido-bis(trioxidosulfate)(2-); disulfate	$S_2O_7^{2-} = O_3SOSO_3^{2-}$, μ -oxido-bis(trioxidosulfato)(2-); disulfato
S_2O_8			$S_2O_8^{2-} = O_3SOOSO_3^{2-}$, μ -peroxido-1 κO ,2 $\kappa O'$ - bis(trioxidosulfate)(2-); peroxydisulfate	$S_2O_8^{2-} = O_3SOOSO_3^{2-}$, μ -peroxido-1 κO ,2 $\kappa O'$ - bis(trioxidosulfato)(2-); peroxydisulfato
S_3	S_3 , trisulfur –SSS–, trisulfanediyl >S(=S) ₂ , bis(sulfanylidene)- λ^6 - sulfanediyl; sulfonodithioyl, dithiosulfonyl	S_3^{2+} , trisulfur(2+)	$S_3^{\bullet-}$, trisulfide($\bullet 1-$) SSS $^{\bullet-}$, trisulfanidyl S_3^{2-} , trisulfide(2-) SSS $^{2-}$, trisulfanediide	$S_3^{\bullet-}$, trisulfido($\bullet 1-$) SSS $^{\bullet-}$, trisulfanidyl S_3^{2-} , trisulfido(2-) SSS $^{2-}$, trisulfanediido
S_4	S_4 , tetrasulfur –SSSS–, tetrasulfanediyl	S_4^{2+} , tetrasulfur(2+)	S_4^{2-} , tetrasulfide(2-) SSSS $^{2-}$, tetrasulfanediide	S_4^{2-} , tetrasulfido(2-) SSSS $^{2-}$, tetrasulfanediido
S_4O_6			$S_4O_6^{2-} = O_3SSSSO_3^{2-}$, disulfanedisulfonate, bis[(trioxidosulfato)sulfate] \subset (<i>S-S</i>)(2-); tetrathionate $S_4O_6^{\bullet 3-} = O_3SSSSO_3^{\bullet 3-}$, bis[(trioxidosulfato)sulfate] \subset (<i>S-S</i>)($\bullet 3-$)	$S_4O_6^{2-} = O_3SSSSO_3^{2-}$, disulfanedisulfonato, bis[(trioxidosulfato)sulfato] \subset (<i>S-S</i>)(2-); tetrathionato $S_4O_6^{\bullet 3-} = O_3SSSSO_3^{\bullet 3-}$, bis[(trioxidosulfato)sulfato] \subset (<i>S-S</i>)($\bullet 3-$)

S ₅	S ₅ , pentasulfur		S ₅ ²⁻ , pentasulfide(2-) SSSSS ²⁻ , pentasulfanediide	S ₅ ²⁻ , pentasulfido(2-) SSSSS ²⁻ , pentasulfanediide
S ₈	S ₈ , octasulfur	S ₈ ²⁺ , octasulfur(2+)	S ₈ ²⁻ , octasulfide(2-) S-[S] ₆ -S ²⁻ , octasulfanediide	S ₈ , octasulfur S ₈ ²⁻ , octasulfido(2-) S-[S] ₆ -S ²⁻ , octasulfanediido
Sb	antimony >Sb-, stibanetriyl	antimony	antimonide (general) Sb ³⁻ , antimonide(3-), stibanetriide; antimonide	antimonido (general) Sb ³⁻ , antimonido, stibanetriido
SbH	SbH ^{2•} , stibanediyl >SbH, stibanediyl =SbH, stibanylidene	SbH ²⁺ , stibanebis(ylum), hydridoantimony(2+)	SbH ²⁻ , stibanediide, hydridoantimonate(2-)	SbH ²⁻ , stibanediido, hydridoantimonato(2-)
SbH ₂	SbH ₂ [•] , stibanyl, dihydridoantimony(•) -SbH ₂ , stibanyl	SbH ₂ ⁺ , stibanylium, dihydridoantimony(1+)	SbH ₂ ⁻ , stibanide, dihydridoantimonate(1-)	SbH ₂ ⁻ , stibanido, dihydridoantimonato(1-)
SbH ₃	SbH ₃ , antimony trihydride [SbH ₃], stibane (parent hydride name), trihydridoantimony	SbH ₃ ^{•+} , stibaniumyl, trihydridoantimony(•1+) -SbH ₃ ⁺ , stibaniumyl	SbH ₃ ^{•-} , stibanuidyl, trihydridoantimonate(•1-) ^d	SbH ₃ , stibane
SbH ₄	-SbH ₄ , λ ⁵ -stibanyl	SbH ₄ ⁺ , stibanium, tetrahydridoantimony(1+)		
Sc	scandium	scandium	scandide	scandido
Se	Se (general) Se, monoselenium >Se, selanediyl =Se, selanylidene; selenoxo	selenium	selenide (general) Se ^{•-} , selanidyl, selenide(•1-) Se ²⁻ , selanediide, selenide(2-); selenide	selenido (general) Se ^{•-} , selanidyl, selenido(•1-) Se ²⁻ , selanediido, selenido(2-)
SeCN, see CNSe				

SeH, see HSe				
SeH ₂ , see H ₂ Se				
SeO	SeO, selenium mon(o)oxide [SeO], oxidoselenium >SeO, seleninyl			[SeO], oxidoselenium
SeO ₂	SeO ₂ , selenium dioxide [SeO ₂], dioxidoselenium >SeO ₂ , selenonyl		SeO ₂ ²⁻ , dioxidoselenate(2-)	[SeO ₂], dioxidoselenium SeO ₂ ²⁻ , dioxidoselenato(2-)
SeO ₃	SeO ₃ , selenium trioxide		SeO ₃ ^{•-} , trioxidoselenate(•1-) SeO ₃ ²⁻ , trioxidoselenate(2-); selenite	SeO ₃ ²⁻ , trioxidoselenato(2-); selenito
SeO ₄			SeO ₄ ²⁻ , tetraoxidoselenate(2-); selenate	SeO ₄ ²⁻ , tetraoxidoselenato(2-); selenato
Sg	seaborgium	seaborgium	seaborgide	seaborgido
Si	silicon >Si<, silanetetrayl =Si=, silanediylidene	silicon (general) Si ⁺ , silicon(1+) Si ⁴⁺ , silicon(4+)	silicide (general) Si ⁻ , silicide(1-) Si ⁴⁻ , silicide(4-); silicide	silicido (general) Si ⁻ , silicido(1-) Si ⁴⁻ , silicido(4-); silicido
SiC	SiC, silicon carbide [SiC], carbidosilicon	SiC ⁺ , carbidosilicon(1+)		
SiH	>SiH-, silanetriyl =SiH-, silanylylidene ≡SiH, silylidyne	SiH ⁺ , silanyliumdiyl, hydridosilicon(1+)	SiH ⁻ , silanidediyl, hydridosilicate(1-)	
SiH ₂	>SiH ₂ , silanediyl =SiH ₂ , silylidene			
SiH ₃	SiH ₃ [•] , silyl, trihydridosilicon(•) -SiH ₃ , silyl	SiH ₃ ⁺ , silylium, trihydridosilicon(1+)	SiH ₃ ⁻ , silanide, trihydridosilicate(1-)	SiH ₃ ⁻ , silanido

SiH ₄	SiH ₄ , silicon tetrahydride [SiH ₄], silane (parent hydride name), tetrahydridosilicon			
SiO	SiO, oxidosilicon, silicon mon(o)oxide	SiO ⁺ , oxidosilicon(1+)		
SiO ₂	SiO ₂ , silicon dioxide			
SiO ₃			SiO ₃ ^{•-} , trioxidosilicate(•1-) (SiO ₃ ²⁻) _n = (Si(O) ₂ O) _n ²ⁿ⁻ , <i>catena</i> -poly[(dioxidosilicate-μ-oxido)(1-)]; metasilicate	SiO ₃ ^{•-} , trioxidosilicato(•1-)
SiO ₄			SiO ₄ ⁴⁻ , tetraoxidosilicate(4-); silicate	SiO ₄ ⁴⁻ , tetraoxidosilicato(4-); silicato
Si ₂	Si ₂ , disilicon	Si ₂ ⁺ , disilicon(1+)	Si ₂ ⁻ , disilicide(1-)	
Si ₂ H ₄	>SiHSiH ₃ , disilane-1,1-diyl -SiH ₂ SiH ₂ -, disilane-1,2-diyl =SiHSiH ₃ , disilanylidene			
Si ₂ H ₅	Si ₂ H ₅ [•] , disilanyl, pentahydridodisilicon(<i>Si-Si</i>)(•) -Si ₂ H ₅ , disilanyl	Si ₂ H ₅ ⁺ , disilanylium	Si ₂ H ₅ ⁻ , disilanide	Si ₂ H ₅ ⁻ , disilanido
Si ₂ H ₆	Si ₂ H ₆ , disilane (parent hydride name)			Si ₂ H ₆ , disilane
Si ₂ O ₇			Si ₂ O ₇ ⁶⁻ , μ-oxido-bis(trioxidosilicate)(6-); disilicate	Si ₂ O ₇ ⁶⁻ , μ-oxido-bis(trioxidosilicato)(6-); disilicato
Si ₄			Si ₄ ⁴⁻ , tetrasilicide(4-)	
Sm	samarium	samarium	samaride	samarido

Sn	tin	tin (general) Sn ²⁺ , tin(2+) Sn ⁴⁺ , tin(4+)	stannide	stannido
SnCl ₃			SnCl ₃ ⁻ , trichloridostannate(1-)	SnCl ₃ ⁻ , trichloridostannato(1-)
SnH ₄	SnH ₄ , tin tetrahydride [SnH ₄], stannane (parent hydride name), tetrahydridotin			
Sn ₅			Sn ₅ ²⁻ , pentastannide(2-)	Sn ₅ ²⁻ , pentastannido(2-)
Sr	strontium	strontium	strontide	strontido
T, see H				
T ₂ , see H ₂				
T ₂ O, see H ₂ O				
Ta	tantalum	tantalum	tantalide	tantalido
Tb	terbium	terbium	terbide	terbido
Tc	technetium	technetium	technetide	technetido
TcO ₄			TcO ₄ ⁻ , tetraoxidotechnetate(1-) TcO ₄ ²⁻ , tetraoxidotechnetate(2-)	TcO ₄ ⁻ , tetraoxidotechnetato(1-) TcO ₄ ²⁻ , tetraoxidotechnetato(2-)
Te	tellurium >Te, tellanediyl =Te, tellanylidene; telluroxo	tellurium	telluride (general) Te ^{•-} , tellanidyl, telluride(•1-) Te ²⁻ , tellanediide, telluride(2-); telluride	tellurido (general) Te ^{•-} , tellanidyl, tellurido(•1-) Te ²⁻ , tellanediido, tellurido(2-)
TeH, see HTe				
TeH ₂ , see H ₂ Te				
TeO ₃			TeO ₃ ^{•-} , trioxidotellurate(•1-) TeO ₃ ²⁻ , trioxidotellurate(2-)	TeO ₃ ^{•-} , trioxidotellurato(•1-) TeO ₃ ²⁻ , trioxidotellurato(2-)

TeO ₄			TeO ₄ ²⁻ , tetraoxidotellurate(2-); tellurate	TeO ₄ ²⁻ , tetraoxidotellurato(2-); tellurato
TeO ₆			TeO ₆ ⁶⁻ , hexaoxidotellurate(6-); orthotellurate	TeO ₆ ⁶⁻ , hexaoxidotellurato(6-); orthotellurato
Th	thorium	thorium	thoride	thorido
Ti	titanium	titanium	titanide	titanido
TiO	TiO, titanium(II) oxide	TiO ²⁺ , oxidotitanium(2+)		
Tl	thallium	thallium	thallide	thallido
TlH ₃	-TlH ₂ , thallanyl			
TlH ₃	TlH ₃ , thallium trihydride [TlH ₃], thallane (parent hydride name), trihydridothallium			
Tm	thulium	thulium	thulide	thulido
U	uranium	uranium	uranide	uranido
UO ₂	UO ₂ , uranium dioxide	UO ₂ ⁺ , dioxidouranium(1+) [not uranyl(1+)] UO ₂ ²⁺ , dioxidouranium(2+) [not uranyl(2+)]		
V	vanadium	vanadium	vanadide	vanadido
VO	VO, vanadium(II) oxide, vanadium mon(o)oxide	VO ²⁺ , oxidovanadium(2+) [not vanadyl]		
VO ₂	VO ₂ , vanadium(IV) oxide, vanadium dioxide	VO ₂ ⁺ , dioxidovanadium(1+)		
W	tungsten	tungsten	tungstide	tungstido
Xe	xenon	xenon	xenonide	xenonido

Y	yttrium	yttrium	yttride	yttrido
Yb	ytterbium	ytterbium	ytterbide	ytterbido
Zn	zinc	zinc	zincide	zincido
Zr	zirconium	zirconium	zirconide	zirconido
ZrO	ZrO, zirconium(II) oxide	ZrO ²⁺ , oxidozirconium(2+)		

^a Where an element symbol occurs in the first column, the unmodified element name is listed in the second and third columns. The unmodified name is generally used when the element appears as an electropositive constituent in the construction of a stoichiometric name (Sections IR-5.2 and IR-5.4). Names of homoatomic cations consisting of the element are also constructed using the element name, adding multiplicative prefixes and charge numbers as applicable (Sections IR-5.3.2.1 to IR-5.3.2.3). In selected cases, examples are given in the Table of specific cation names, such as gold(1+), gold(3+); mercury(2+), dimercury(2+). In such cases, the unmodified element name appears with the qualifier '(general)'.

^b Where an element symbol occurs in the first column, the fourth column gives the element name appropriately modified with the ending 'ide' (argentide, americide, ferride, *etc.*). The 'ide' form of the element name is generally used when the element appears as an electronegative constituent in the construction of a stoichiometric name (Sections IR-5.2 and IR-5.4). Names of homoatomic anions consisting of the element in question are also constructed using this modified form, adding multiplicative prefixes and charge numbers as applicable (Sections IR-5.3.3.1 to IR-5.3.3.3). Examples are given in the Table of names of some specific anions, *e.g.* arsenide(3-), chloride(1-), oxide(2-), dioxide(2-). In certain cases, a particular anion has the 'ide' form itself as an accepted short name, *e.g.* arsenide, chloride, oxide. If specific anions are named, the 'ide' form of the element name with no further modification is given as the first entry in the fourth column, with the qualifier '(general)'.

^c Ligand names must usually be placed within enclosing marks when used in additive names, *cf.* Section IR-9.2.2.3. However, for reasons of brevity and clarity, no enclosing marks are included with the ligand names in this Table.

^d The ending 'ide' in 'actinide' and 'lanthanide' indicates a negative ion. However, 'actinide' is also still allowed as a collective name for the group of elements Ac, Th, Pa, U, Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, Lr and 'lanthanide' as a collective name for the group of elements La, Ce, Pr, Nd, Pm, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu (although 'actinoid' and 'lanthanoid' are preferred, see Section IR-3.6.2).

^e The radical names in the present recommendations sometimes differ from those given in *Pure Appl. Chem.*, **72**, 437 (2000). Firstly, the exceptional status of anion radicals consisting of hydrogen and only one other element has been lifted. For example, the coordination-type additive name of $\text{BH}_3^{\bullet-}$ is 'trihydridoborate($\bullet 1-$)' (not '-boride'). Secondly, concatenation of ligand names, such as in 'hydridodioxido' (meaning the ligand 'dioxidanido'), which is otherwise never used in additive nomenclature, is not recommended here. Thirdly, additive names of dinuclear compounds are based here on selecting the most centrally placed atoms in the molecule as central atoms (*cf.* the general principles described in Section IR-7.1.2), *e.g.* $\text{NCSSCN}^{\bullet-}$ is named here 'bis[(cyanido-C)sulfur](*S-S*)($\bullet 1-$)' rather than 'bis(nitridosulfidocarbonate)(*S-S*)($\bullet 1-$)'. Indication of the ligating atoms in the names of the cyanido ligands is suggested because in this context the binding mode is not obvious. In more obvious cases where the binding mode is well known, such as mononuclear metal cyanide complexes, this indicator is often omitted.

IUPAC Provisional Recommendations