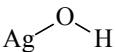




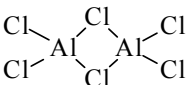
Structure Data of Free Polyatomic Molecules

Subvolume A: Inorganic Molecules

Element System Ag-...

No	Hill Formula	Structure Formula	Name
001	AgArBr	Ar · AgBr	Argon – silver bromide (1/1)
002	AgArCl	Ar · AgCl	Argon – silver chloride (1/1)
003	AgArF	Ar · AgF	Argon – silver fluoride (1/1)
004	AgClKr	AgCl · Kr	Silver chloride – krypton (1/1)
005	AgFKr	AgF · Kr	Silver fluoride – krypton (1/1)
006	AgHO		Silver hydroxide

Element System Al-...

No	Hill Formula	Structure Formula	Name
007	AlBr ₃	AlBr ₃	Aluminum tribromide
008	AlCl ₃	AlCl ₃	Aluminum trichloride
009	AlHS		Aluminum hydrogen sulfide
010	AlI ₃	AlI ₃	Aluminum triiodide
011	Al ₂ Br ₆		Di-μ-bromo-bis(dibromoaluminum)
012	Al ₂ Cl ₆		Di-μ-chloro-bis(dichloroaluminum)

Element System Ar-...

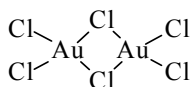
No	Hill Formula	Structure Formula	Name
013	ArAuBr	Ar · AuBr	Argon – gold monobromide (1/1)
014	ArAuCl	Ar · AuCl	Argon – gold monochloride (1/1)
015	ArAuF	Ar · AuF	Argon – gold monofluoride (1/1)
016	ArBrCl	Ar · BrCl	Argon – bromine chloride (1/1)
017	ArBrCu	Ar · CuBr	Argon – copper monobromide (1/1)
018	ArClCu	Ar · CuCl	Argon – copper monochloride (1/1)
019	ArClH	Ar · HCl	Argon – hydrogen chloride (1/1)
020	ArClHNe	Ar · HCl · Ne	Argon – hydrogen chloride – neon (1/1/1)
021	ArClH ₂ ⁺	H ₂ Cl ⁺ · Ar	Chloronium – argon (1/1)
022	ArClI	Ar · ICl	Argon – iodine chloride (1/1)
023	ArClNa	Ar · NaCl	Argon – sodium chloride (1/1)
024	ArCuF	Ar · CuF	Argon – copper monofluoride (1/1)
025	ArHI	Ar · HI	Argon – hydrogen iodide (1/1)
026	ArHN ₂ ⁺	H–N=N ⁺ · Ar	Diazenylium – argon (1/1)
027	ArHOSi ⁺	H–O–Si ⁺ · Ar	Hydroxysilyliumylidene – argon (1/1)
028	ArHS	Ar · SH	Argon – monohydrogen monosulfide (1/1)
029	ArH ₂ N ⁺	NH ₂ ⁺ · Ar	Aminylium – argon (1/1)
030	ArH ₃ N	ND ₃ · Ar	Ammonia – argon (1/1)
031	ArH ₃ N ⁺	NH ₃ ⁺ · Ar	Ammoniumyl – argon (1/1)
032	ArH ₄ N ⁺	NH ₄ ⁺ · Ar	Ammonium – argon (1/1)
033	ArNO ₂	Ar · NO ₂	Argon – nitrogen dioxide (1/1)
034	ArN ₂ NeO	Ar · N ₂ O · Ne	Argon – dinitrogen monoxide – neon (1/1/1)
035	ArN ₂ O	Ar · N ₂ O	Argon – dinitrogen monoxide (1/1)
036	ArN ₄ ⁺	N≡N · Ar ⁺ · N≡N	Argon (1+) ion – dinitrogen (1/2)
007	ArNe ₂	Ar · 2Ne	Argon – neon (1/2)

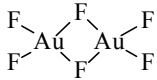
No	Hill Formula	Structure Formula	Name
038	ArNe ₃	Ar · 3Ne	Argon – neon (1/3)
039	ArO ₂ S	Ar · SO ₂	Argon – sulfur dioxide (1/1)
040	Ar ₂ BrH	HBr · 2Ar	Hydrogen bromide – argon (1/2)
041	Ar ₂ H ₂ O	H ₂ O · 2Ar	Water – argon (1/2)
042	Ar ₂ H ₃ N	NH ₃ · 2Ar	Ammonia – argon (1/2)
043	Ar ₂ N ₂ O	N ₂ O · 2Ar	Dinitrogen monoxide – argon (1/2)
044	Ar ₂ Ne	Ne · 2Ar	Neon – argon (1/2)
045	Ar ₂ Ne ₂	2Ar · 2Ne	Argon – neon (2/2)
046	Ar ₃ H ₂ O	H ₂ O · 3Ar	Water – argon (1/3)
047	Ar ₃ H ₂ S	H ₂ S · 3Ar	Hydrogen sulfide – argon (1/3)
048	Ar ₃ H ₃ N	NH ₃ · 3Ar	Ammonia – argon (1/3)
049	Ar ₃ Ne	Ne · 3Ar	Neon – argon (1/3)

Element System As-...

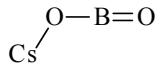
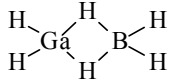
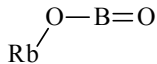
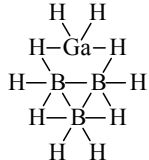
No	Hill Formula	Structure Formula	Name
050	AsF ₃	AsF ₃	Arsenic trifluoride
051	AsH ₂	AsH ₂	Arsenic dihydride
052	AsH ₃	AsD ₃	Arsine-d ₃

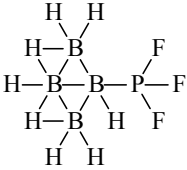
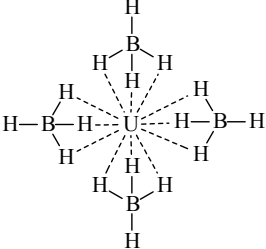
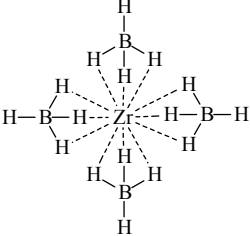
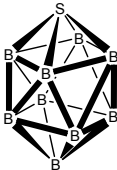
Element System Au-...

No	Hill Formula	Structure Formula	Name
053	AuClKr	AuCl · Kr	Gold monochloride – krypton (1/1)
054	AuF ₃	AuF ₃	Gold trifluoride
055	Au ₂ Cl ₆		Di-μ-chloro-bis[dichlorogold(III)]

No	Hill Formula	Structure Formula	Name
056	Au ₂ F ₆		Di-μ-fluoro-bis[difluorogold(III)]

Element System B -...

No	Hill Formula	Structure Formula	Name
057	BBrH ⁺	H–B ⁺ –Br	Bromoborane(2) (1+) ion
058	BBrO	Br–B=O	Bromooxoborane
059	BBr ₃	BBr ₃	Boron tribromide
060	BClO	Cl–B=O	Chlorooxoborane
061	BClS	Cl–B=S	Boron chloride sulfide
062	BCsO ₂		Cesium metaborate
063	BFS	F–B=S	Boron fluoride sulfide
064	BF ₃ O ₂ S	SO ₂ · BF ₃	Sulfur dioxide – trifluoroborane (1/1)
065	BF ₄ H	HF · BF ₃	Hydrogen fluoride – trifluoroborane (1/1)
066	BGaH ₆		Dihydrido[tetrahydroborato-κH,κH']gallium
067	BHO	H–B=O	Boron hydride oxide
068	BO ₂ Rb		Rubidium metaborate
069	BS ₂	S=B=S	Boron disulfide
070	B ₂ Br ₄	B ₂ Br ₄	Diboron tetrabromide
071	B ₃ GaH ₁₀		2-Galla-arachno-tetraborane(10)

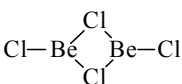
No	Hill Formula	Structure Formula	Name
072	B ₄ F ₃ H ₈ P		1-(Trifluorophosphine)-arachno-tetraborane(10)
073	B ₄ H ₁₀	B ₄ H ₁₀	Arachno-Tetraborane(10)
074	B ₄ H ₁₆ U		Tetrakis(tetrahydroborato-κH,κH'',κH''') uranium(IV)
075	B ₄ H ₁₆ Zr		Tetrakis(tetrahydroborato-κH,κH'',κH''') zirconium(IV)
076	B ₉ H ₉ S		1-Thia-closo-decaborane(9)

Element System Ba-...

No	Hill Formula	Structure Formula	Name
077	BaBr ₂	BaBr ₂	Barium dibromide

Element System Be-...

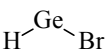
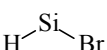
No	Hill Formula	Structure Formula	Name
078	BeBr ₂	BeBr ₂	Beryllium dibromide
079	BeCl ₂	BeCl ₂	Beryllium dichloride

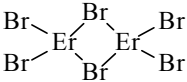
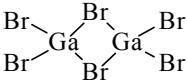
No	Hill Formula	Structure Formula	Name
080	BeH ₂	BeH ₂	Beryllium dihydride
081	Be ₂ Cl ₄		Di-μ-chloro-bis[chloroberyllium(II)]

Element System Bi-...

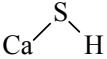
No	Hill Formula	Structure Formula	Name
082	BiBr ₃	BiBr ₃	Bismuth tribromide
083	BiF ₃	BiF ₃	Bismuth trifluoride
084	BiH ₃	BiH ₃	Bismuthine
085	BiI ₃	BiI ₃	Bismuth triiodide

Element System Br-...

No	Hill Formula	Structure Formula	Name
086	BrClH ₂ O	BrCl · H ₂ O	Bromine chloride – water (1/1)
087	BrClH ₂ S	BrCl · H ₂ S	Bromine chloride – hydrogen sulfide (1/1)
088	BrClH ₃ P	BrCl · PH ₃	Bromine chloride – phosphine (1/1)
089	BrClN ₂	BrCl · N ₂	Bromine chloride – dinitrogen (1/1)
090	BrGeH		Bromogermylene
091	BrHO ₃ S	HBr · SO ₃	Hydrogen bromide – sulfur trioxide (1/1)
092	BrHSi		Silicon bromide hydride
093	BrH ₂ ⁻	D ₂ · Br ⁻	Dihydrogen-d ₂ – bromide (1/1)
094	BrH ₂ P	PH ₂ Br	Bromophosphine
095	BrH ₃ Si	SiH ₃ Br	Bromosilane
096	BrO ₂	BrO ₂	Bromine dioxide

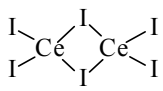
No	Hill Formula	Structure Formula	Name
097	Br ₂ Eu	EuBr ₂	Europium dibromide
098	Br ₂ Ge	GeBr ₂	Germanium dibromide
099	Br ₂ H ₂	HBr · DBr	Hydrogen bromide dimer
100	Br ₂ H ₂ O	Br ₂ · H ₂ O	Dibromine – water (1/1)
101	Br ₂ H ₂ S	Br ₂ · H ₂ S	Dibromine – hydrogen sulfide (1/1)
102	Br ₂ H ₃ N	NH ₃ · Br ₂	Ammonia – dibromine (1/1)
103	Br ₂ H ₃ P	Br ₂ · PH ₃	Dibromine – phosphine (1/1)
104	Br ₂ O	Br ₂ O	Dibromine monoxide
105	Br ₃ Er	ErBr ₃	Erbium tribromide
106	Br ₃ Ga	GaBr ₃	Gallium tribromide
107	Br ₄ Nb	NbBr ₄	Niobium tetrabromide
108	Br ₆ Er ₂		Di-μ-bromo-bis[dibromodierbium(III)]
109	Br ₆ Ga ₂		Di-μ-bromo-bis[dibromogallium(III)]

Element System Ca-...

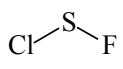
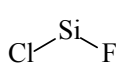
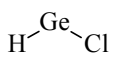
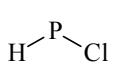
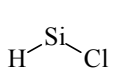
No	Hill Formula	Structure Formula	Name
110	CaHS		Calcium hydrogen sulfide
111	CaH ₂ N	CaNH ₂	Calcium monoamide

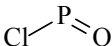
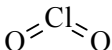
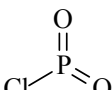
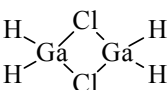
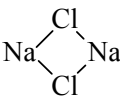
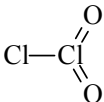
Element System Ce-...

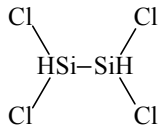
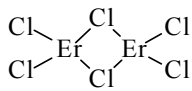
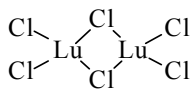
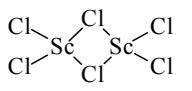
No	Hill Formula	Structure Formula	Name
112	CeF ₄	CeF ₄	Cerium tetrafluoride

No	Hill Formula	Structure Formula	Name
113	CeI ₃	CeI ₃	Cerium triiodide
114	Ce ₂ I ₆		Cerium triiodide dimer

Element System Cl-...

No	Hill Formula	Structure Formula	Name
115	ClFH ₂ O	ClF · H ₂ O	Chlorine fluoride – water (1/1)
116	ClFHe	ClF · He	Chlorine fluoride – helium (1/1)
117	ClFN ₂	ClF · N ₂	Chlorine fluoride – dinitrogen (1/1)
118	ClFO	FCIO	Chlorosyl fluoride
119	ClFO ₂ S	ClF · SO ₂	Chlorine fluoride – sulfur dioxide (1/1)
120	ClFS		Sulfur chloride fluoride
121	ClFSi		Silicon monochloride monofluoride
122	ClF ₃	ClF ₃	Chlorine trifluoride
123	ClF ₄ N	ClF · NF ₃	Chlorine fluoride – trifluoroamine (1/1)
124	ClF ₅ OS	F ₅ S–OCl	Pentafluoro(hypochlorito-κO)sulfur
125	ClGeH		Chlorogermylene
126	ClHO ₃ S	HCl · SO ₃	Hydrogen chloride – sulfur trioxide (1/1)
127	ClHP		Chlorophosphino
128	ClHSi		Silicon chloride hydride
129	ClH ₂ [−]	H ₂ · Cl [−]	Dihydrogen – chloride (1/1)
130	ClH ₂ ⁺	ClH ₂ ⁺	Chloronium
131	ClH ₂ IO	ICl · H ₂ O	Iodine chloride – water (1/1)

No	Hill Formula	Structure Formula	Name
132	ClH ₂ IS	H ₂ S · ICl	Hydrogen sulfide – iodine chloride (1/1)
133	ClH ₃ IN	NH ₃ · ICl	Ammonia – iodine chloride (1/1)
134	ClH ₃ IP	ICl · PH ₃	Iodine chloride – phosphine (1/1)
135	ClH ₃ O	HCl · H ₂ O	Hydrogen chloride – water (1/1)
136	ClH ₄ P	HCl · PH ₃	Hydrogen chloride – phosphine (1/1)
137	ClH ₅ O ₂	HCl · 2H ₂ O	Hydrogen chloride – water (1/2)
138	ClIN ₂	ICl · N ₂	Iodine chloride – dinitrogen (1/1)
139	ClOP		Phosphoryl chloride
140	ClO ₂		Chlorine dioxide
141	ClO ₂ P		Phosphorus chloride dioxide
142	Cl ₂ Cu	CuCl ₂	Copper dichloride
143	Cl ₂ Fe	FeCl ₂	Iron dichloride
144	Cl ₂ Ga ₂ H ₄		Di-μ-chloro-bis[dihydridogallium(III)]
145	Cl ₂ H ₂ O	Cl ₂ · H ₂ O	Dichlorine – water (1/1)
146	Cl ₂ Na ₂		Disodium dichloride
147	Cl ₂ Ni	NiCl ₂	Nickel dichloride
148	Cl ₂ O ₂		Chloryl chloride
149	Cl ₂ S	SCl ₂	Sulfur dichloride
150	Cl ₃ Er	ErCl ₃	Erbium trichloride
151	Cl ₃ Gd	GdCl ₃	Gadolinium trichloride

No	Hill Formula	Structure Formula	Name
152	Cl ₃ Lu	LuCl ₃	Lutetium trichloride
153	Cl ₃ NbO	NbOCl ₃	Trichloro(oxo)niobium(V)
154	Cl ₃ PS	PSCl ₃	Thiophosphoryl trichloride
155	Cl ₃ Sc	ScCl ₃	Scandium trichloride
156	Cl ₃ Tm	TmCl ₃	Thulium trichloride
157	Cl ₄ H ₂ Si ₂		1,1,2,2-Tetrachlorodisilane
158	Cl ₄ HfO ₁₆	Hf(ClO ₄) ₄	Tetrakis(perchlorato-κO,κO')hafnium(IV)
159	Cl ₄ Nb	NbCl ₄	Niobium tetrachloride
160	Cl ₄ O ₁₆ Zr	Zr(ClO ₄) ₄	Tetrakis(perchlorato-κO,κO')zirconium
161	Cl ₄ Te	TeCl ₄	Tellurium tetrachloride
162	Cl ₄ U	UCl ₄	Uranium tetrachloride
163	Cl ₅ Nb	NbCl ₅	Niobium pentachloride
164	Cl ₅ Re	ReCl ₅	Rhenium pentachloride
165	Cl ₅ Ta	TaCl ₅	Tantalum pentachloride
166	Cl ₅ W	WCl ₅	Tungsten pentachloride
167	Cl ₆ Er ₂		Di-μ-chloro-bis[dichloroerbium(III)]
168	Cl ₆ Lu ₂		Di-μ-chloro-bis[dichlorolutetium(III)]
169	Cl ₆ Sc ₂		Di-μ-chloro-bis[dichlorodiscandium(III)]

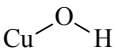
Element System Co-...

No	Hill Formula	Structure Formula	Name
170	CoF ₂	CoF ₂	Cobalt difluoride




Element System Cr-...

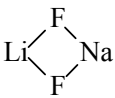
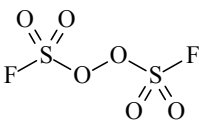
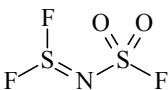
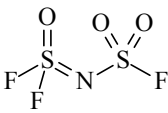
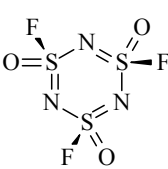
No	Hill Formula	Structure Formula	Name
171	CrF ₅	CrF ₅	Chromium pentafluoride

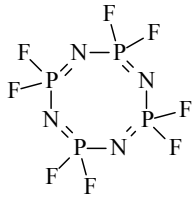
Element System Cu-...

No	Hill Formula	Structure Formula	Name
172	CuHO		Copper monohydroxide

Element System F -...

No	Hill Formula	Structure Formula	Name
173	FHNO	HF · NO	Hydrogen fluoride – nitrogen monoxide (1/1)
174	FHO ₃ S	HF · SO ₃	Hydrogen fluoride – sulfur trioxide (1/1)
175	FHSi		Silicon fluoride hydride
176	FH ₃ Si	SiH ₃ F	Fluorosilane
177	FOP		Fluorooxophosphine
178	FPS		Thiophosphoryl fluoride
179	F ₂ Fe	FeF ₂	Iron difluoride
180	F ₂ H ₂ O	F ₂ · H ₂ O	Difluorine – water (1/1)
181	F ₂ H ₂ S	F ₂ · H ₂ S	Difluorine – hydrogen sulfide (1/1)


No	Hill Formula	Structure Formula	Name
182	F ₂ LiNa		Lithium fluoride – sodium fluoride (1/1)
183	F ₂ Mn	MnF ₂	Manganese difluoride
184	F ₂ Ni	NiF ₂	Nickel difluoride
185	F ₂ O ₂ W	WO ₂ F ₂	Tungsten(VI) difluoride dioxide
186	F ₂ O ₆ S ₂		μ-Peroxo-bis(fluorodioxosulfur)
187	F ₂ Si	SiF ₂	Silicon difluoride
188	F ₂ Zn	ZnF ₂	Zinc difluoride
189	F ₃ NO ₂ S ₂		[N-(Fluorosulfonyl)imido]sulfurous difluoride
190	F ₃ NO ₃ S ₂		N-(Fluorosulfonyl)imidosulfuryl fluoride
191	F ₃ N ₃ O ₃ S ₃		1,3,5-Trifluoro-1,3,5-trioxo-1λ ⁶ ,3λ ⁶ ,5λ ⁶ ,2,4,6-cyclotrithiatriaza-2,4,6-triene
192	F ₃ NbO	NbOF ₃	Trifluoro(oxo)niobium(V)
193	F ₃ Sb	SbF ₃	Antimony trifluoride
194	F ₃ Si	·SiF ₃	Trifluorosilyl
195	F ₄ Mo	MoF ₄	Molybdenum tetrafluoride
196	F ₄ N ₂ Si	SiF ₄ · N ₂	Tetrafluorosilane – dinitrogen (1/1)
197	F ₄ Th	ThF ₄	Thorium tetrafluoride
198	F ₄ U	UF ₄	Uranium tetrafluoride
199	F ₅ Mo	MoF ₅	Molybdenum pentafluoride

No	Hill Formula	Structure Formula	Name
200	F ₆ Ir	IrF ₆	Iridium hexafluoride
201	F ₆ Os	OsF ₆	Osmium hexafluoride
202	F ₆ Pt	PtF ₆	Platinum hexafluoride
203	F ₆ Re	ReF ₆	Rhenium hexafluoride
204	F ₆ S	SF ₆	Sulfur hexafluoride
205	F ₆ W	WF ₆	Tungsten hexafluoride
206	F ₈ N ₄ P ₄		2,2,4,4,6,6,8,8-Octafluoro-2λ ⁵ ,4λ ⁵ ,6λ ⁵ ,8λ ⁵ -cyclotetraphosphaza-1,3,5,7-tetraene

Element System Fe-...


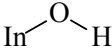


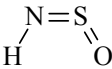

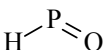
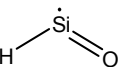

No	Hill Formula	Structure Formula	Name
207	FeH ₂	FeH ₂	Iron dihydride

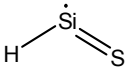

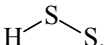

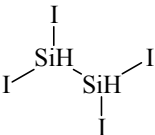
Element System Ge-...


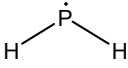
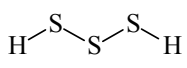
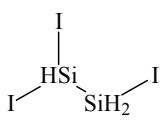
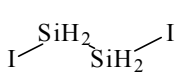
No	Hill Formula	Structure Formula	Name
208	GeHI		Iodogermylene
209	GeH ₂	GeH ₂	λ ² -Germane
210	GeH ₄	GeH ₄	Germane

Element System H -...

No	Hill Formula	Structure Formula	Name
211	HHeO ⁺	OH ⁺ · He	Oxoniumylidene – helium (1/1)
212	HIKr	HI · Kr	Hydrogen iodide – krypton (1/1)

No	Hill Formula	Structure Formula	Name
213	HIN ₂	HI · N ₂	Hydrogen iodide – dinitrogen (1/1)
214	HINe	HI · Ne	Hydrogen iodide – neon (1/1)
215	HISi		Silicon iodide hydride
216	HInO		Indium(I) hydroxide
217	HKrN ₂ ⁺	H–N=N ⁺ · Kr	Diazenylium – krypton (1/1)
218	HKrS	SH · Kr	Mercapto – krypton (1/1)
219	HLiS		Lithium hydrogen sulfide
220	HMgO	Mg–O–H	Magnesium hydroxide
221	HMgS		Magnesium hydrogen sulfide
222	HNOS		(Z)-Thionyl imide
223	HNY	Y=N–H	Yttrium imide
224	HN ₂ Ne ⁺	Ne · H–N=N ⁺	Diazenylium – neon (1/1)
225	HN ₂ O	OH · N ₂	Hydroxyl – dinitrogen (1/1)
226	HN ₄ ⁺	N≡N · H ⁺ · N≡N	Hydrogen (1+) ion – dinitrogen (1/2)
227	HNaS		Sodium hydrogen sulfide
228	HNeO ⁺	OH ⁺ · Ne	Oxoniumylidene – neon (1/1)
229	HNeS	Ne · SH	Mercapto – neon (1/1)
230	HOP		Oxophosphane
231	HOSi		Silicon monohydride monoxide
232	HOY	Y–O–H	Yttrium monohydroxide
233	HO ₂		Hydrogenperoxyl

No	Hill Formula	Structure Formula	Name
234	HSSi		Thioxosilyl
235	HSSr		Strontium hydrogen sulfide
236	HS ₂		Disulfanyl
237	H ₂ HeN ⁺	NH ₂ ⁺ · He	Aminylium – helium (1/1)
238	H ₂ I ₂	HI · HI	Hydrogen iodide dimer
239	H ₂ I ₂ Si		Diiodosilane
240	H ₂ I ₄ Si ₂		1,1,2,2-Tetraiododisilane
241	H ₂ KrO	KR · H ₂ O	Krypton – water (1/1)
242	H ₂ LiN	LiNH ₂	Lithium amide
243	H ₂ Mg	MgH ₂	Magnesium dihydride
244	H ₂ MgN	MgNH ₂	Magnesium monoamide
245	H ₂ N	NH ₂	Nitrogen dihydride
246	H ₂ NNa	NaNH ₂	Sodium amide
247	H ₂ NNe ⁺	NH ₂ ⁺ · Ne	Aminylium – neon (1/1)
248	H ₂ NS	H ₂ NS	Nitrogen dihydride monosulfide
249	H ₂ NSr	SrNH ₂	Strontium monoamide
250	H ₂ N ₂ O	N ₂ O · H ₂	Dinitrogen monoxide – dihydrogen (1/1)
251	H ₂ N ₂ O ₂	N ₂ O · H ₂ O	Dinitrogen monoxide – water (1/1)
252	H ₂ NeO ⁺	H ₂ O ⁺ · Ne	Oxoniumyl – neon (1/1)
253	H ₂ NeS	H ₂ S · Ne	Hydrogen sulfide – neon (1/1)
254	H ₂ OP	H ₂ PO	Phosphorus dihydride monoxide

No	Hill Formula	Structure Formula	Name
255	H ₂ OSi		Silanone
256	H ₂ P		λ ² -Phosphane
257	H ₂ S	H ₂ S	Hydrogen sulfide
258	H ₂ S ₃		Dihydrogen trisulfide
259	H ₂ Te	H ₂ Te	Hydrogen telluride
260	H ₃ IO	HI · H ₂ O	Hydrogen iodide – water (1/1)
261	H ₃ I ₃ Si ₂		1,1,2-Triiododisilane
262	H ₃ KrN	NH ₃ · Kr	Ammonia – krypton (1/1)
263	H ₃ NNe	NH ₃ · Ne	Ammonia – neon (1/1)
264	H ₃ NNe ₂	NH ₃ · 2Ne	Ammonia – neon (1/2)
265	H ₃ NO ₃ S	NH ₃ · SO ₃	Ammonia – sulfur trioxide (1/1)
266	H ₃ NO ₄	HNO ₃ · H ₂ O	Nitric acid – water (1/1)
267	H ₃ O ⁺	H ₃ O ⁺	Oxonium
268	H ₃ OP	POH ₃	Phosphine oxide
269	H ₃ P	PH ₃	Phosphine
270	H ₃ S ⁺	H ₃ S ⁺	Sulfonium
271	H ₃ Sb	SbH ₃	Stibine
272	H ₄ I ₂ Si ₂		1,2-Diiododisilane
273	H ₄ N ₂ O ₃	HNO ₃ · NH ₃	Nitric acid – ammonia (1/1)
274	H ₄ O ₂	(H ₂ O) ₂	Water dimer
275	H ₅ NS	NH ₃ · H ₂ S	Ammonia – hydrogen sulfide (1/1)
276	H ₆ N ₂	(ND ₃) ₂	Ammonia-d ₃ dimer

No	Hill Formula	Structure Formula	Name
277	H ₆ O ₃	(H ₂ O) ₃	Water trimer
278	H ₈ O ₄	(H ₂ O) ₄	Water tetramer
279	H ₁₀ O ₅	(H ₂ O) ₅	Water pentamer
280	H ₁₂ O ₆	(H ₂ O) ₆	Water hexamer

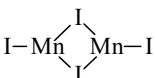
Element System He-...

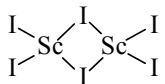
No	Hill Formula	Structure Formula	Name
281	HeN ₂ O	N ₂ O · He	Dinitrogen monoxide – helium (1/1)

Element System Hf-...

No	Hill Formula	Structure Formula	Name
282	HfN ₄ O ₁₂	Hf(NO ₃) ₄	Hafnium tetranitrate
283	HfO ₂	HfO ₂	Hafnium dioxide

Element System I -...

No	Hill Formula	Structure Formula	Name
284	I ₂ Mn	MnI ₂	Manganese diiodide
285	I ₂ Nd	NdI ₂	Neodymium diiodide
286	I ₃ NbO	NbOI ₃	Triiodo(oxo)niobium(V)
287	I ₃ Nd	NdI ₃	Neodymium triiodide
288	I ₃ Sb	SbI ₃	Antimony triiodide
289	I ₃ Sc	ScI ₃	Scandium triiodide
290	I ₃ Y	YI ₃	Yttrium triiodide
291	I ₄ Mn ₂		Di-μ-iodo-bis[iodomanganese(II)]

No	Hill Formula	Structure Formula	Name
292	I ₄ Nb	NbI ₄	Niobium tetraiodide
293	I ₄ Si	SiI ₄	Silicon tetraiodide
294	I ₆ Sc ₂		Di-μ-iodo-bis(diiodoscandium)

Element System Kr-...

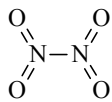
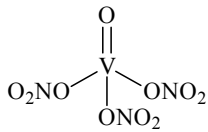
No	Hill Formula	Structure Formula	Name
295	KrNO ₂	Kr · NO ₂	Krypton – nitrogen dioxide (1/1)
296	KrN ₂ O	NNO · Kr	Dinitrogen monoxide – krypton (1/1)

Element System Li-...

No	Hill Formula	Structure Formula	Name
297	Li ₂ O	Li ₂ O	Dilithium oxide

Element System N -...

No	Hill Formula	Structure Formula	Name
298	NOP	P=N=O	Phosphorus nitride N-oxide
299	NO ₂	NO ₂	Nitrogen dioxide
300	N ₂ Ne	N ₂ · Ne	Dinitrogen – neon (1/1)
301	N ₂ NeO	N ₂ O · Ne	Dinitrogen monoxide – neon (1/1)
302	N ₂ Ne ₂ O	N ₂ O · 2Ne	Dinitrogen monoxide – neon (1/2)
303	N ₂ OXe	NNO · Xe	Dinitrogen monoxide – xenon (1/1)
304	N ₂ O ₂	ON · NO	Dinitrogen dioxide
305	N ₂ O ₂ S	N ₂ · SO ₂	Dinitrogen – sulfur dioxide (1/1)
306	N ₂ O ₃	N ₂ · O ₃	Dinitrogen – ozone (1/1)

No	Hill Formula	Structure Formula	Name
307	N ₂ O ₃	NNO · O ₂	Dinitrogen monoxide – dioxygen (1/1)
308	N ₂ O ₃ S	N ₂ O · SO ₂	Dinitrogen monoxide – sulfur dioxide (1/1)
309	N ₂ O ₄		Dinitrogen tetroxide
310	N ₂ O ₅	N ₂ O ₅	Dinitrogen pentaoxide
311	N ₃ O ₁₀ V		Tris(nitrato-κO)oxovanadium
312	N ₄ O	N ₂ · N ₂ O	Dinitrogen – dinitrogen monoxide (1/1)
313	N ₄ O ₂	NNO · NNO	Dinitrogen monoxide dimer
314	N ₄ O ₄ S	SO ₂ · 2N ₂ O	Sulfur dioxide – dinitrogen monoxide (1/2)
315	N ₄ O ₁₂ Ti	Ti(NO ₃) ₄	Titanium tetranitrate
316	N ₄ O ₁₂ Zr	Zr(NO ₃) ₄	Zirconium tetranitrate

Element System O -...

No	Hill Formula	Structure Formula	Name
317	OP ₂	P=P=O	Diphosphorus monoxide
318	O ₂ S	SO ₂	Sulfur dioxide
319	O ₂ Zr	ZrO ₂	Zirconium dioxide
320	O ₃ S	SO ₃	Sulfur trioxide

Element System P -...

No	Hill Formula	Structure Formula	Name
321	P ₄	P ₄	Tetraphosphorus