

Molecules containing One or Two Carbon Atoms

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Structure Data of Free Polyatomic Molecules

Subvolume B: Molecules containing One or Two Carbon Atoms

Molecules containing One Carbon Atom

Element System C -Ag-...

No	Hill Formula	Structure Formula	Name
001	CAgBrO	Br-Ag-C=O	Bromocarbonylsilver
002	CAgClO	Cl-Ag-C=O	Carbonylchlorosilver
003	CAgFO	F-Ag-C=O	Carbonylfluorosilver

Element System C -Al-...

No	Hill Formula	Structure Formula	Name
004	CAIN	Al-N=C	Aluminum isocyanide

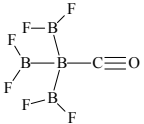
Element System C -Ar-...

No	Hill Formula	Structure Formula	Name
005	CArNeO ₂	CO ₂ · Ar · Ne	Carbon dioxide – argon – neon (1/1/1)
006	CArO ₂	CO ₂ · Ar	Carbon dioxide – argon (1/1)
007	CAr ₂ O ₂	CO ₂ · 2Ar	Carbon dioxide – argon (1/2)

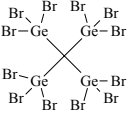
Element System C -Au-...

No	Hill Formula	Structure Formula	Name
008	CAuBrO	Br-Au-C=O	Bromo(carbonyl)gold
009	CAuClO	Cl-Au-C=O	Carbonylchlorogold
010	CAuFO	F-Au-C=O	Carbonylfluorogold



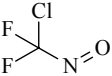
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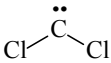
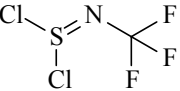
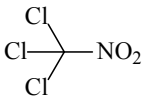
No	Hill Formula	Structure Formula	Name
011	CB ₄ F ₆ O		Carbonyltris(difluoroboryl)boron

Element System C -Br-...

No	Hill Formula	Structure Formula	Name
012	CBrCuO	Br-Cu-C=O	Bromo(carbonyl)copper
013	CBrF ₃	CBrF ₃	Bromotrifluoromethane
014	CBrNO	Br-C≡N-O	Bromine fulminate
015	CBr ₂ O	CO · Br ₂	Carbon monoxide – dibromine (1/1)
016	CBr ₁₂ Ge ₄		Methanetetrayltetrakis[tribromogermane]

Element System C -Cl -...

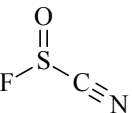
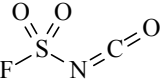
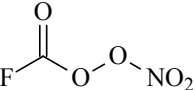

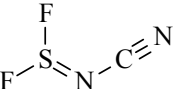
No	Hill Formula	Structure Formula	Name
017	CClCuO	Cl-Cu-C=O	Carbonylchlorocopper
018	CClFO		Carbonyl chloride fluoride
019	CClFO	CO · ClF	Carbon monoxide – chlorine fluoride (1/1)
020	CClFO ₂	CO ₂ · ClF	Carbon dioxide – chlorine fluoride (1/1)
021	CClF ₂ N		N-Chlorodifluoromethanimine
022	CClF ₂ NO		Chlorodifluoronitrosomethane
023	CClIO	CO · ICl	Carbon monoxide – iodine chloride (1/1)



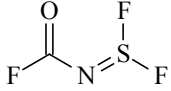
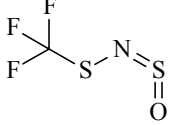
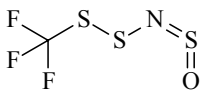
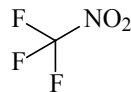
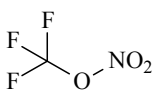
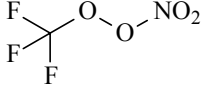
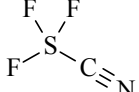
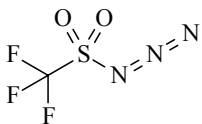
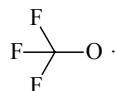
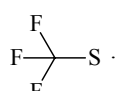
No	Hill Formula	Structure Formula	Name
024	CCINO	Cl-C≡N-O	Chlorine fulminate
025	CCl ₂		Dichloromethylene
026	CCl ₂ F ₃ NS		[(Trifluoromethyl)imido]sulfurous dichloride
027	CCl ₃ NO ₂		Trichloronitromethane

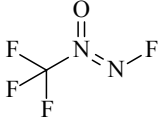
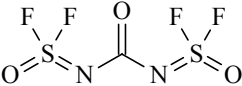
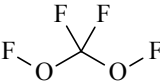
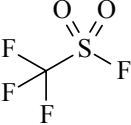
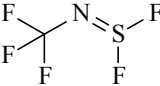
Element System C -Cu-...

No	Hill Formula	Structure Formula	Name
028	CCuFO	F-Cu-C=O	Carbonylfluorocopper
029	CCuN	Cu-C≡N	Copper monocyanoide

Element System C -F -...

No	Hill Formula	Structure Formula	Name
030	CFNOS		Sulfinyl cyanide fluoride
031	CFNO ₃ S		Sulfuryl fluoride isocyanate
032	CFNO ₅		Fluorocarbonyl nitro peroxide
033	CF ₂		Difluoromethylene
034	CF ₂ I ₂	CF ₂ I ₂	Difluorodiiodomethane
035	CF ₂ N ₂ S		Sulfur cyanamide difluoride

No	Hill Formula	Structure Formula	Name
036	CF ₂ O ₂		3,3-Difluorodioxirane
037	CF ₂ Se		Selenocarbonyl fluoride
038	CF ₃ NOS		cis-Fluoroformyliminosulfur difluoride
039	CF ₃ NOS ₂		(Z)-1,1,1-Trifluoro-N-sulfinylmethanesulfenamide
040	CF ₃ NOS ₃		(Z)-Sulfinylamino trifluoromethyl disulfide
041	CF ₃ NO ₂		Trifluoronitromethane
042	CF ₃ NO ₃		Trifluoromethanol nitrate
043	CF ₃ NO ₄		Trifluoromethyl peroxonitrate
044	CF ₃ NS		Sulfur cyanide trifluoride
045	CF ₃ N ₃ O ₂ S		Trifluoromethanesulfonyl azide
046	CF ₃ O		Trifluoromethoxy
047	CF ₃ S		Trifluoromethylthio

No	Hill Formula	Structure Formula	Name
048	CF ₄ N ₂ O		(Z)-1-Fluoro-2-(trifluoromethyl)diazene 2-oxide
049	CF ₄ N ₂ O ₃ S ₂		Carbonylbis(imidosulfinyl difluoride)
050	CF ₄ OSi	CO · SiF ₄	Carbon monoxide – tetrafluorosilane (1/1)
051	CF ₄ O ₂		Hypofluorous acid difluoromethylene ester
052	CF ₄ O ₂ S		Trifluoromethanesulfonyl fluoride
053	CF ₅ NS		(Trifluoromethyl)imidosulfurous difluoride

Element System C -Fe-...

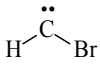
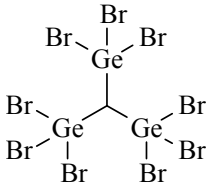
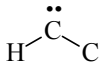
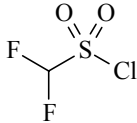
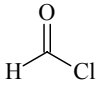
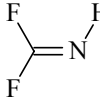
No	Hill Formula	Structure Formula	Name
054	CFeO	Fe-C≡O	Monocarbonyliron

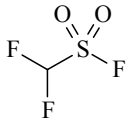
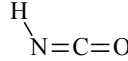

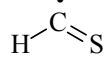
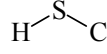
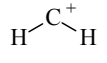
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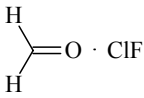
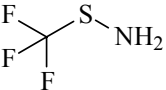
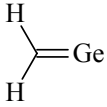
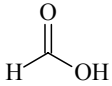
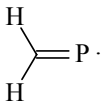
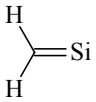
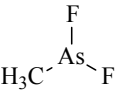
No	Hill Formula	Structure Formula	Name
055	CGaN	Ga-N≡C	Gallium(I) isocyanide
056	CGaN	Ga-C≡N	Gallium(I) cyanide

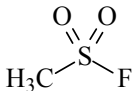
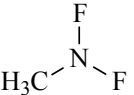
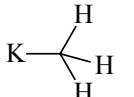
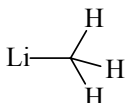
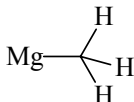
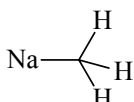
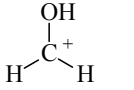
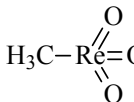
Element System C -H -...

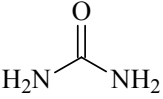
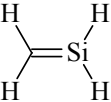
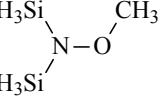
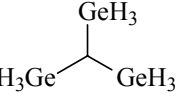
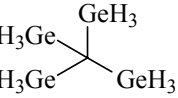
No	Hill Formula	Structure Formula	Name
057	CHAr	CH · Ar	Methylidyne – argon (1/1)

No	Hill Formula	Structure Formula	Name
058	CHArN	D-C≡N · Ar	Hydrogen cyanide – argon (1/1)
059	CHArO ⁺	Ar · H-C ⁺ =O	Oxomethylum – argon (1/1)
060	CHAr ₃ N	H-C≡N · 3Ar	Hydrogen cyanide – argon (1/3)
061	CHBr		Bromomethylene
062	CHBrClF	CHBrClF	Bromochlorofluoromethane
063	CHBrClN	H-C≡N · BrCl	Hydrogen cyanide – bromine chloride (1/1)
064	CHBrF ₂	CHBrF ₂	Bromodifluoromethane
065	CHBrOS	O=C=S · HBr	Carbonyl sulfide – hydrogen bromide (1/1)
066	CHBrO ₂	CO ₂ · HBr	Carbon dioxide – hydrogen bromide (1/1)
067	CHBr ₉ Ge ₃		Tris(tribromogermyl)methane
068	CHCl		Chloromethylene
069	CHClFN	H-C≡N · ClF	Hydrogen cyanide – chlorine fluoride (1/1)
070	CHClF ₂ O ₂ S		Difluoromethanesulfonyl chloride
071	CHClIN	H-C≡N · ICl	Hydrogen cyanide – iodine chloride (1/1)
072	CHClO		Formyl chloride
073	CHCl ₂ F	CHCl ₂ F	Dichlorofluoromethane
074	CHCl ₃	CHCl ₃	Chloroform
075	CHF ₂ N		Difluoromethanimine

No	Hill Formula	Structure Formula	Name
076	CHF ₂ N	H-C≡N · F ₂	Hydrogen cyanide – difluorine (1/1)
077	CHF ₃ O ₂ S		Difluoromethanesulfonyl fluoride
078	CHGe	H-C≡Ge ·	Germanium methylidyne
079	CHHeN	H-C≡N · He	Hydrogen cyanide – helium (1/1)
080	CHK	K-C-H	Potassium hydrogen monocarbide
081	CHKrO ⁺	Kr · H-C ⁺ =O	Formylium – krypton (1/1)
082	CHN	H-C≡N	Hydrogen cyanide
083	CHNO		Isocyanic acid
084	CHNO ₃ S	H-C≡N · SO ₃	Hydrogen cyanide – sulfur trioxide (1/1)
085	CHNa	Na-C-H	Sodium hydrogen monocarbide
086	CHO		Oxomethyl-d ₁
087	CHP	H-C≡P	Methylidynephosphine
088	CHS		Thioformyl
089	CHS		Mercaptomethylidyne
090	CHS ⁺	H-C ⁺ =S	Thioformylium
091	CHSi	H-C≡Si ·	Silicon methylidyne
092	CHTi	Ti≡C-H	Titanium methylidyne
093	CHW	W≡C-H	Tungsten methylidyne
094	CH ₂ ⁺		Methyliumyl
095	CH ₂ ArF ₂	CH ₂ F ₂ · Ar	Difluoromethane – argon (1/1)
096	CH ₂ ClF	CH ₂ ClF	Chlorofluoromethane

No	Hill Formula	Structure Formula	Name
097	CH ₂ ClFO		Formaldehyde – chlorine fluoride (1/1)
098	CH ₂ Cl ₂	CH ₂ Cl ₂	Dichloromethane
099	CH ₂ F ₃ NS		1,1,1-Trifluoromethanesulfenamide
100	CH ₂ Ge		Germylidene
101	CH ₂ I ₂	CH ₂ I ₂	Diiodomethane
102	CH ₂ N ₂	HN=C=NH	Carbodiimide
103	CH ₂ OS	O=C=S · H ₂	Carbonyl sulfide – dihydrogen (1/1)
104	CH ₂ O ₂		Formic acid
105	CH ₂ O ₃	CO ₂ · H ₂ O	Carbon dioxide – water (1/1)
106	CH ₂ P		Methylenephosphinyl
107	CH ₂ Si		Silylidene
108	CH ₃ Ar ⁺	CH ₃ ⁺ · Ar	Methylium – argon (1/1)
109	CH ₃ Ar ₂ ⁺	CH ₃ ⁺ · 2Ar	Methylium – argon (1/2)
110	CH ₃ AsF ₂		Difluoromethylarsine
111	CH ₃ BF ₄	CH ₃ F · BF ₃	Fluoromethane – trifluoroborane (1/1)
112	CH ₃ Ba	CH ₃ Ba	Methylbarium
113	CH ₃ CaO	Ca–O–CH ₃	Calcium(I) methoxide
114	CH ₃ F	CH ₃ F	Fluoromethane

No	Hill Formula	Structure Formula	Name
115	CH ₃ FO ₂ S		Methanesulfonyl fluoride
116	CH ₃ F ₂ N		N,N-Difluoromethanamine
117	CH ₃ K		Methylpotassium
118	CH ₃ Li		Methyl lithium
119	CH ₃ Mg		Methylmagnesium
120	CH ₃ N	H-C≡N · H ₂	Hydrogen cyanide – dihydrogen (1/1)
121	CH ₃ NSi	H ₃ Si-C≡N	Silyl cyanide
122	CH ₃ Na		Methylsodium
123	CH ₃ Ne ⁺	CH ₃ ⁺ · Ne	Methyl cation – neon (1/1)
124	CH ₃ Ne ₂ ⁺	CH ₃ ⁺ · 2Ne	Methyl cation – neon (1/2)
125	CH ₃ O ⁺		Protonated formaldehyde
126	CH ₃ O ₃ Re		Methylrhenium trioxide
127	CH ₃ Sr	CH ₃ Sr	Methylstrontium
128	CH ₄ Ar	CH ₄ · Ar	Methane – argon (1/1)
129	CH ₄ F ₂ O	CH ₂ F ₂ · H ₂ O	Difluoromethane – water (1/1)
130	CH ₄ Kr	CH ₄ · Kr	Methane – krypton (1/1)

No	Hill Formula	Structure Formula	Name
131	CH ₄ N ₂ O		Urea
132	CH ₄ O ₂	H ₂ CO · H ₂ O	Formaldehyde – water (1/1)
133	CH ₄ O ₃	CH ₄ · O ₃	Methane – ozone (1/1)
134	CH ₄ Si		Silaethylene
135	CH ₃ ClO	CH ₃ OH · HCl	Methanol – hydrogen chloride (1/1)
136	CH ₆	CH ₄ · H ₂	Methane – dihydrogen (1/1)
137	CH ₆ O ₂	CH ₃ OH · H ₂ O	Methanol – water (1/1)
138	CH ₉ NOSi ₂		N-Methoxy-N-silylsilanamine
139	CH ₁₀ Ge ₃		Methylidynetrisgermane
140	CH ₁₂ Ge ₄		Tetrakis(germyl)methane

Element System C -He-...

No	Hill Formula	Structure Formula	Name
141	CHeOS	O=C=S · He	Carbonyl sulfide – helium (1/1)
142	CHeO ₂	CO ₂ · He	Carbon dioxide – helium (1/1)

Element System C -I-...

No	Hill Formula	Structure Formula	Name
143	CIN	I-C≡N	Cyanogen iodide
144	CI ₄	CI ₄	Tetraiodomethane

Element System C -In-...

No	Hill Formula	Structure Formula	Name
145	CInN	In-C≡N	Indium(I) cyanide
146	CInN	In-N≡C	Indium(I) isocyanide

Element System C -Kr-...

No	Hill Formula	Structure Formula	Name
147	CKrO	CO · Kr	Carbon monoxide – krypton (1/1)

Element System C -Mg-...

No	Hill Formula	Structure Formula	Name
148	CMgN	Mg-N=C	Magnesium(I) isocyanide

Element System C -N -...

No	Hill Formula	Structure Formula	Name
149	CNNi	Ni-C≡N	Nickel cyanide
150	CNZn	Zn-C≡N	Zinc monocyanoide
151	CN ₂	N=C=N	Methanetetraylbisamidogen
152	CN ₂ O	CO · N ₂	Carbon monoxide – dinitrogen (1/1)
153	CN ₂ OS	O=C=S · N ₂	Carbonyl sulfide – dinitrogen (1/1)
154	CN ₂ O ₂	CO · N ₂ O	Carbon monoxide – dinitrogen monoxide (1/1)
155	CN ₂ O ₂ S	O=C=S · N ₂ O	Carbonyl sulfide – dinitrogen monoxide (1/1)
156	CN ₂ O ₃	CO ₂ · N ₂ O	Carbon dioxide – dinitrogen monoxide (1/1)

Element System C -Ne-...

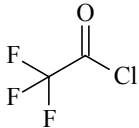
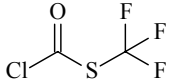
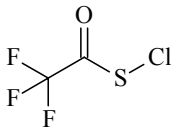
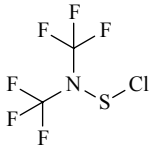
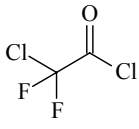
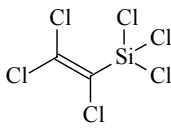
No	Hill Formula	Structure Formula	Name
157	CNeO	CO · Ne	Carbon monoxide – neon (1/1)
158	CNe ₂ OS	O=C=S · 2Ne	Carbonyl sulfide – neon (1/2)

Element System C -O -...

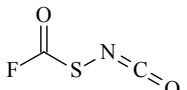
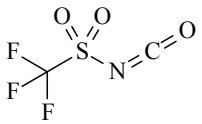
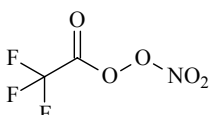
No	Hill Formula	Structure Formula	Name
159	COPd	Pd–C≡O	Carbonylpalladium
160	COPt	Pt–C≡O	Carbonylplatinum
161	COXe	CO · Xe	Carbon monoxide – xenon (1/1)
162	CO ₂	CO ₂	Carbon dioxide
163	CO ₂ S ₃	CS ₂ · SO ₂	Carbon disulfide – sulfur dioxide (1/1)
164	CO ₃ S ₂	O=C=S · SO ₂	Carbonyl sulfide – sulfur dioxide (1/1)
165	CO ₄ S	CO ₂ · SO ₂	Carbon dioxide – sulfur dioxide (1/1)

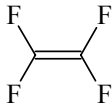
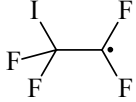
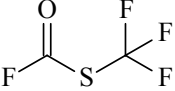
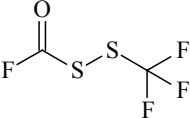
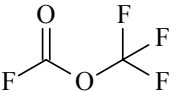
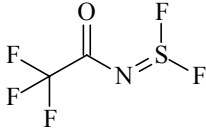
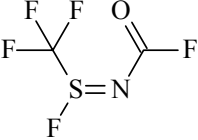
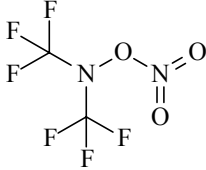
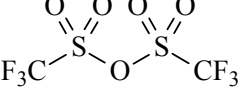
Molecules containing Two Carbon Atoms

Element System C -Cl -...

No	Hill Formula	Structure Formula	Name
166	C ₂ ClF ₃ O		Trifluoroacetyl chloride
167	C ₂ ClF ₃ OS		Carbonochloridothioic acid S-(trifluoromethyl) ester
168	C ₂ ClF ₃ OS		Trifluoroethanethioic acid anhydrosulfide
169	C ₂ ClF ₆ NS		Bis(trifluoromethyl)amidosulfonyl chloride
170	C ₂ Cl ₂ F ₂ O		Chlorodifluoroacetyl chloride
171	C ₂ Cl ₆ Si		Trichloro(trichloroethenyl)silane

Element System C -F -...

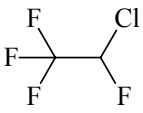
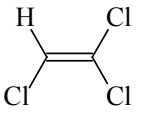
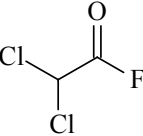
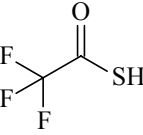
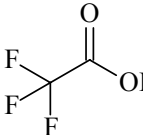
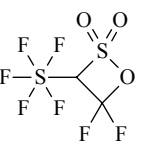
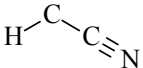
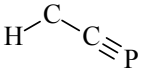
No	Hill Formula	Structure Formula	Name
172	C ₂ FNO ₂ S		(Isocyanatothio)formyl fluoride
173	C ₂ F ₃ NO ₃ S		Trifluoromethanesulfonyl isocyanate
174	C ₂ F ₃ NO ₅		Nitro trifluoroacetyl peroxide

No	Hill Formula	Structure Formula	Name
175	C ₂ F ₄		Tetrafluoroethene
176	C ₂ F ₄ I		1,1,2,2-Tetrafluoro-2-iodoethyl
177	C ₂ F ₄ OS		Carbonofluoridithioic acid S-(trifluoromethyl) ester
178	C ₂ F ₄ OS ₂		Carbono(dithioperoxo)fluoridic acid
179	C ₂ F ₄ O ₂		Carbonofluoridic acid trifluoromethyl ester
180	C ₂ F ₅ NOS		(Trifluoroacetyl)imidosulfurous difluoride
181	C ₂ F ₅ NOS		1,1,1-Trifluoro-N-(fluorocarbonyl)methanesulfinimidoyl fluoride
182	C ₂ F ₆ N ₂ O ₃		1,1,1-Trifluoro-N-(nitroxy)-N-(trifluoromethyl)-methanamine
183	C ₂ F ₆ O ₅ S ₂		Trifluoromethanesulfonic acid anhydride

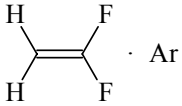
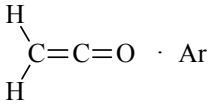
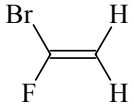
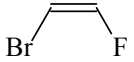
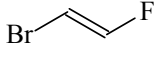
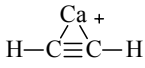
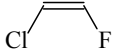
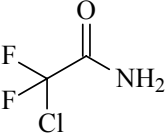
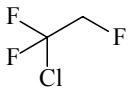
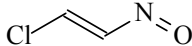
Element System C -Fe-...

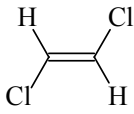
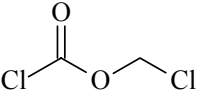
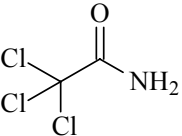
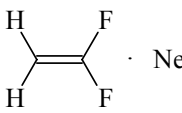
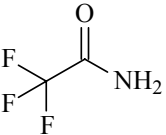
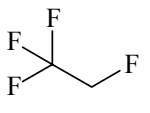
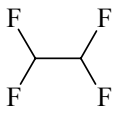
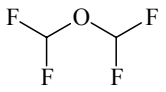
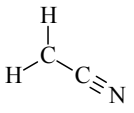
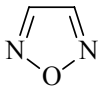
No	Hill Formula	Structure Formula	Name
184	C ₂ FeO ₂	Fe(CO) ₂	Irondicarbonyl

Element System C -H -... with One Hydrogen Atom

No	Hill Formula	Structure Formula	Name
185	C ₂ HCIF ₄		2-Chloro-1,1,1,2-tetrafluoroethane
186	C ₂ HCl ₂ FO		Dichloroacetyl fluoride
187	C ₂ HCl ₃		Trichloroethylene
188	C ₂ HF ₃ OS		Trifluoroethanethioic acid
189	C ₂ HF ₃ O ₂		Trifluoroacetic acid
190	C ₂ HF ₇ O ₃ S ₂		(4,4-Difluoro-2,2-dioxo-1,2λ ⁶ -oxathiethan-3-yl)-pentafluorosulfur(VI)
191	C ₂ HK	K-C≡C-H	Monopotassium acetylide
192	C ₂ HLi	Li-C≡C-H	Monolithium acetylide
193	C ₂ HN		Cyanomethylene
194	C ₂ HNa	Na-C≡C-H	Monosodium acetylide
195	C ₂ HP		Phosphinidyneethylidene
196	C ₂ HSr	Sr-C≡C-H	Ethynylstrontium

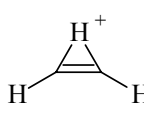
Element System C-H-... with Two Hydrogen Atoms

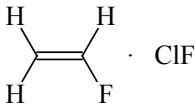
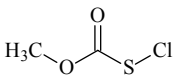
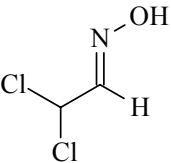
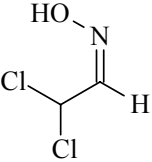
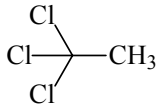
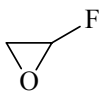
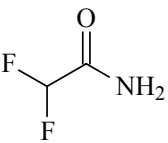
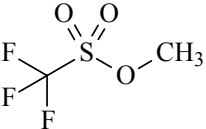
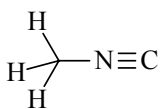
No	Hill Formula	Structure Formula	Name
197	C ₂ H ₂ Ar	H-C≡C-H · Ar	Acetylene – argon (1/1)
198	C ₂ H ₂ ArF ₂		1,1-Difluoroethene – argon (1/1)
199	C ₂ H ₂ ArO		Ketene – argon (1/1)
200	C ₂ H ₂ Br ⁻	H-C≡C-H · Br ⁻	Ethyne – bromide (1/1)
201	C ₂ H ₂ BrF		1-Bromo-1-fluoroethene
202	C ₂ H ₂ BrF		(Z)-1-Bromo-2-fluoroethene
203	C ₂ H ₂ BrF		(E)-1-Bromo-2-fluoroethene
204	C ₂ H ₂ Br ₂	H-C≡C-H · Br ₂	Acetylene – dibromine (1/1)
205	C ₂ H ₂ Ca ⁺		((2-Ethyne)calcium (1+) ion)
206	C ₂ H ₂ ClF		cis-1-Chloro-2-fluoroethylene
207	C ₂ H ₂ ClF	H-C≡C-H · ClF	Acetylene – chlorine fluoride (1/1)
208	C ₂ H ₂ ClF ₂ NO		2-Chloro-2,2-difluoroacetamide
209	C ₂ H ₂ ClF ₃		1-Chloro-1,1,2-trifluoroethane
210	C ₂ H ₂ ClI	H-C≡C-H · ICl	Acetylene – iodine chloride (1/1)
211	C ₂ H ₂ ClNO		(E)-1-Chloro-2-nitrosoethene

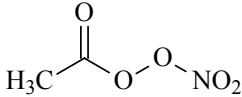
No	Hill Formula	Structure Formula	Name
212	C ₂ H ₂ Cl ₂		(E)-1,2-Dichloroethene
213	C ₂ H ₂ Cl ₂ O ₂		Carbonochloridic acid chloromethyl ester
214	C ₂ H ₂ Cl ₃ NO		2,2,2-Trichloroacetamide
215	C ₂ H ₂ F ₂ Ne		1,1-Difluoroethene – neon (1/1)
216	C ₂ H ₂ F ₃ NO		2,2,2-Trifluoroacetamide
217	C ₂ H ₂ F ₄		1,1,1,2-Tetrafluoroethane
218	C ₂ H ₂ F ₄		1,1,2,2-Tetrafluoroethane
219	C ₂ H ₂ F ₄ O		Bis(difluoromethyl) ether
220	C ₂ H ₂ N		Cyanomethyl
221	C ₂ H ₂ N ₂ O		Furazan
222	C ₂ H ₂ N ₂ O	H-C≡C-H · N ₂ O	Acetylene – dinitrogen monoxide (1/1)
223	C ₂ H ₂ N ₂ O ₃ S	2(H-C≡N) · SO ₃	Hydrogen cyanide – sulfur trioxide (2/1)

No	Hill Formula	Structure Formula	Name
224	C ₂ H ₂ O	$\begin{array}{c} \text{H} \\ \\ \text{C}=\text{C}=\text{O} \\ \\ \text{H} \end{array}$	Ketene
225	C ₂ H ₂ O ₂	$\begin{array}{c} \text{O} \quad \text{H} \\ // \quad \backslash \\ \text{C} \quad \text{C} \\ \backslash \quad // \\ \text{H} \quad \text{O} \end{array}$	Glyoxal
226	C ₂ H ₂ O ₃	$\begin{array}{c} \text{O} \\ \\ \text{H}-\text{C}-\text{C}-\text{OH} \\ \\ \text{O} \end{array}$	Glyoxylic acid
227	C ₂ H ₂ O ₄	$\begin{array}{c} \text{HO} \quad \text{O} \\ // \quad \backslash \\ \text{C} \quad \text{C} \\ \backslash \quad // \\ \text{O} \quad \text{OH} \end{array}$	Oxalic acid
228	C ₂ H ₂ P	$\begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}-\text{C}\equiv\text{P} \end{array}$	Phosphinidynesethyl
229	C ₂ H ₂ Si	$\begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}=\text{C}=\text{Si} \\ \\ \text{H} \end{array}$	Ethenylidenesilanediyil

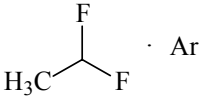
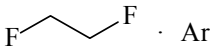
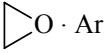
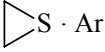
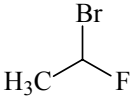
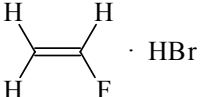
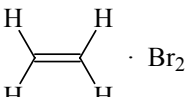
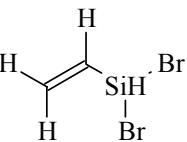
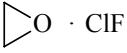
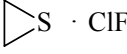
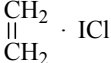
Element System C -H -... with Three Hydrogen Atoms

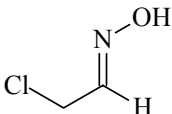
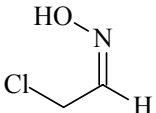
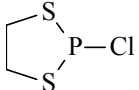
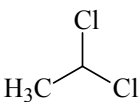
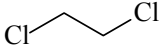
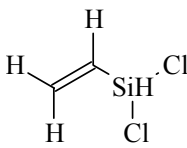
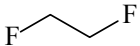
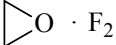
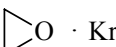
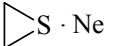
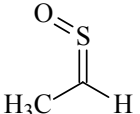
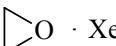
No	Hill Formula	Structure Formula	Name
230	C ₂ H ₃ ⁺	$\begin{array}{c} \text{H} \\ \\ \text{C}=\text{C}^+-\text{H} \\ \\ \text{H} \end{array}$	Protonated acetylene
			Protonated acetylene, non-classical form
231	C ₂ H ₃ ArN	H ₃ C-N=C · Ar	Methyl isocyanide – argon (1/1)
232	C ₂ H ₃ As	H ₃ C-C≡As	Ethylidynesarsine
233	C ₂ H ₃ Cl	$\begin{array}{c} \text{H} \quad \text{H} \\ \backslash \quad / \\ \text{C}=\text{C} \\ / \quad \backslash \\ \text{H} \quad \text{Cl} \end{array}$	Vinyl chloride

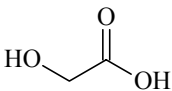

No	Hill Formula	Structure Formula	Name
234	C ₂ H ₃ Cl	H-C≡C-H · HCl	Ethyne – hydrogen chloride (1/1)
235	C ₂ H ₃ ClFN	H ₃ C≡N · ClF	Acetonitrile – chlorine fluoride (1/1)
236	C ₂ H ₃ ClF ₂		Fluoroethene – chlorine fluoride (1/1)
237	C ₂ H ₃ ClO ₂ S		Carbonythioic acid anhydrosulfide with thiohypochlorous acid, O-methyl ester
238	C ₂ H ₃ Cl ₂ NO		(E)-Dichloroacetaldehyde oxime
239	C ₂ H ₃ Cl ₂ NO		(Z)-Dichloroacetaldehyde oxime
240	C ₂ H ₃ Cl ₃		1,1,1-Trichloroethane
241	C ₂ H ₃ FO		Fluorooxirane
242	C ₂ H ₃ F ₂ N	H ₃ C≡C-N · F ₂	Methyl cyanide – difluorine (1/1)
243	C ₂ H ₃ F ₂ NO		2,2-Difluoroacetamide
244	C ₂ H ₃ F ₃ O ₃ S		Trifluoromethanesulfonic acid methyl ester
245	C ₂ H ₃ N		Methyl isocyanide
246	C ₂ H ₃ NO ₃ S	H ₃ C≡N · SO ₃	Acetonitrile – sulfur trioxide (1/1)

No	Hill Formula	Structure Formula	Name
247	C ₂ H ₃ NO ₅		Acetyl nitro peroxide

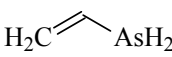
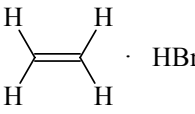

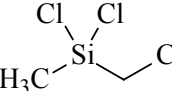
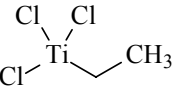
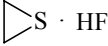
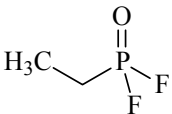
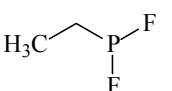
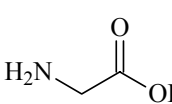
Element System C -H -... with 4 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
248	C ₂ H ₄ ArF ₂		1,1-Difluoroethane – argon (1/1)
249	C ₂ H ₄ ArF ₂		1,2-Difluoroethane – argon (1/1)
250	C ₂ H ₄ ArO		Oxirane – argon (1/1)
251	C ₂ H ₄ ArS		Thiirane – argon (1/1)
252	C ₂ H ₄ BrF		1-Bromo-1-fluoroethane
253	C ₂ H ₄ BrF		Fluoroethene – hydrogen bromide (1/1)
254	C ₂ H ₄ Br ₂		Ethene – dibromine (1/1)
255	C ₂ H ₄ Br ₂ Si		Dibromo(ethenyl)silane
256	C ₂ H ₄ ClF	H ₂ C=CH ₂ · ClF	Ethylene – chlorine fluoride (1/1)
257	C ₂ H ₄ ClFO		Oxirane – chlorine fluoride (1/1)
258	C ₂ H ₄ ClFS		Thiirane – chlorine fluoride (1/1)
259	C ₂ H ₄ ClI		Ethylene – iodine chloride (1/1)

No	Hill Formula	Structure Formula	Name
260	C ₂ H ₄ ClNO		(E)-Chloroacetaldehyde oxime
261	C ₂ H ₄ ClNO		(Z)-Chloroacetaldehyde oxime
262	C ₂ H ₄ ClPS ₂		2-Chloro-1,3,2-dithiaphospholane
263	C ₂ H ₄ Cl ₂		1,1-Dichloroethane
264	C ₂ H ₄ Cl ₂		1,2-Dichloroethane
265	C ₂ H ₄ Cl ₂ Si		Dichloro(ethenyl)silane
266	C ₂ H ₄ F ₂		1,2-Difluoroethane
267	C ₂ H ₄ F ₂ O	 · F ₂	Oxirane – difluorine (1/1)
268	C ₂ H ₄ F ₄	(CH ₂ F ₂) ₂	Difluoromethane dimer
269	C ₂ H ₄ KrO	 · Kr	Oxirane – krypton (1/1)
270	C ₂ H ₄ NeS	 · Ne	Thiirane – neon (1/1)
271	C ₂ H ₄ O	CH ₄ · CO	Methane – carbon monoxide (1/1)
272	C ₂ H ₄ OS		(Z)-Methylsulfine
273	C ₂ H ₄ OS	CH ₄ · O=C=S	Methane – carbonyl sulfide (1/1)
274	C ₂ H ₄ OXe	 · Xe	Oxirane – xenon (1/1)

No	Hill Formula	Structure Formula	Name
275	C ₂ H ₄ O ₃		Glycolic acid
276	C ₂ H ₄ S		Ethylene sulfide

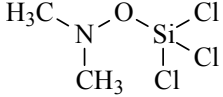
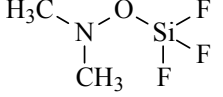
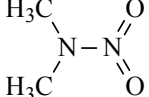
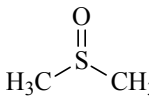
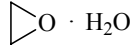
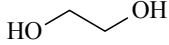
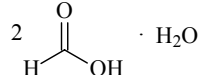
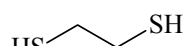
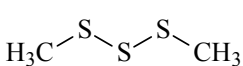
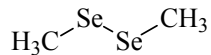
Element System C -H -... with 5 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
277	C ₂ H ₅	H ₃ C-CH ₂	Ethyl
278	C ₂ H ₅ As		Vinylarsine
279	C ₂ H ₅ Br		Ethene – hydrogen bromide (1/1)
280	C ₂ H ₅ Cl ₂ N		N,N-Dichloroethanamine
281	C ₂ H ₅ Cl ₃ Si		Dichloro(chloromethyl)methylsilane
282	C ₂ H ₅ Cl ₃ Ti		Trichloroethyltitanium(IV)
283	C ₂ H ₅ FS		Thiirane – hydrogen fluoride (1/1)
284	C ₂ H ₅ F ₂ OP		Ethylphosphonic difluoride
285	C ₂ H ₅ F ₂ P		Ethyldifluorophosphine
286	C ₂ H ₅ NO ₂		Glycine

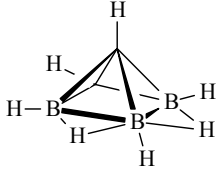
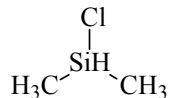
No	Hill Formula	Structure Formula	Name
287	C ₂ H ₅ NO ₂		Methyl carbamate
288	C ₂ H ₅ NO ₂		Ethyl nitrite
289	C ₂ H ₅ NO ₃		2-Nitroethanol
290	C ₂ H ₅ O ₃ Re		Ethyltrioxorhenium
291	C ₂ H ₅ P		Vinylphosphine
292	C ₂ H ₅ Sb		Vinylstibine

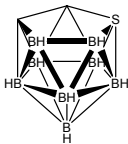
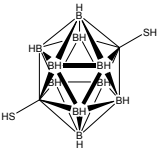
Element System C -H ... with 6 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
293	C ₂ H ₆ ArO		Oxybismethane – argon (1/1)
294	C ₂ H ₆ AsF		Fluorodimethylarsine
295	C ₂ H ₆ Cl ₂ NP		Dimethylphosphoramidous dichloride
296	C ₂ H ₆ Cl ₂ Te		Dimethyltellurium dichloride
297	C ₂ H ₆ Cl ₂ Ti		Dichlorodimethyltitanium
298	C ₂ H ₆ Cl ₃ GeN O		O-Trichlorogermyl-N,N-dimethylhydroxylamine

No	Hill Formula	Structure Formula	Name
299	C ₂ H ₆ Cl ₃ NOSi		N-Methyl-N-[(trichlorosilyl)oxy]methanamine
300	C ₂ H ₆ F ₃ NOSi		N-Methyl-N-[(trifluorosilyl)oxy]methanamine
301	C ₂ H ₆ N ₂ O ₂		N-Methyl-N-nitromethanamine
302	C ₂ H ₆ OS		Sulfinylbismethane
303	C ₂ H ₆ O ₂		Oxirane – water (1/1)
304	C ₂ H ₆ O ₂		1,2-Ethanediol
305	C ₂ H ₆ O ₅		Formic acid – water (2/1)
306	C ₂ H ₆ S ₂		1,2-Ethanedithiol
307	C ₂ H ₆ S ₃		Dimethyl trisulfide
308	C ₂ H ₆ Se ₂		Dimethyl diselenide

Element System C -H -... with 7 to 14 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
309	C ₂ H ₇ B ₃		nido-1,2-Dicarbapentaborane(7)
310	C ₂ H ₇ ClSi		Chlorodimethylsilane

No	Hill Formula	Structure Formula	Name
311	C ₂ H ₇ NO	$\begin{array}{c} \text{H}_3\text{C} \\ \\ \text{N}-\text{OH} \\ \\ \text{H}_3\text{C} \end{array}$	N-Hydroxy-N-methylmethanamine
312	C ₂ H ₈ ClNOSi	$\begin{array}{c} \text{H} \quad \text{H} \quad \text{CH}_3 \\ \quad \quad \\ \text{Cl}-\text{Si}-\text{O}-\text{N}-\text{CH}_3 \\ \\ \text{H} \end{array}$	N-[(Chlorosilyl)oxy]-N-methylmethanamine
313	C ₂ H ₈ O ₂	CH ₃ OH-CH ₃ OH	Methanol dimer
314	C ₂ H ₈ P ₂	$\text{H}_2\text{P}-\text{CH}_2-\text{CH}_2-\text{PH}_2$	1,2-Diphosphinoethane
315	C ₂ H ₈ Si	$\text{H}_3\text{C}-\text{CH}_2-\text{SiH}_3$	Ethylsilane
316	C ₂ H ₉ Cl ₂ NSi ₂	$\begin{array}{c} \text{Cl} \quad \text{H} \quad \text{H} \quad \text{Cl} \\ \quad \quad \quad \\ \text{H}_3\text{C}-\text{Si}-\text{N}-\text{Si}-\text{CH}_3 \\ \quad \\ \text{H} \quad \text{H} \end{array}$	1,3-Dichloro-1,3-dimethyldisilazane
317	C ₂ H ₉ GeNO	$\begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{C}-\text{N}-\text{O}-\text{GeH}_3 \end{array}$	N-(Germyloxy)-N-methylmethanamine
318	C ₂ H ₉ NOSi	$\begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{Si}-\text{N}-\text{O}-\text{CH}_3 \end{array}$	N-Methoxy-N-methylsilanamine
319	C ₂ H ₁₀ B ₈ S		7,8-Dicarba-10-thia-nido-undecaborane(10)
320	C ₂ H ₁₀ Si ₂	$\text{H}_3\text{Si}-\text{CH}_2-\text{CH}_2-\text{SiH}_3$	1,2-Ethanediylobisilane
321	C ₂ H ₁₂ B ₁₀ S ₂		1,12-Dicarbadoecaborane(12)-1,12-dithiol
322	C ₂ H ₁₄ AlB ₃	$\begin{array}{c} \text{H}_3\text{C} \quad \text{CH}_3 \\ \quad \\ \text{H}-\text{Al}-\text{H} \\ \quad \\ \text{H}-\text{B}-\text{B}-\text{H} \\ \quad \\ \text{H}-\text{B}-\text{H} \\ \quad \\ \text{H} \quad \text{H} \end{array}$	2-Dimethyl-2-alumina-arachno-tetraborane(10)

No	Hill Formula	Structure Formula	Name
323	C ₂ H ₁₄ B ₃ Ga		2-Dimethyl-2-galla-arachno-tetraborane(10)

Element System C -N -...

No	Hill Formula	Structure Formula	Name
324	C ₂ NP	N≡C-C≡P	Phosphinidyneacetonitrile
325	C ₂ N ₂	N≡C-C≡N	Dicyan
326	C ₂ N ₂ O	N≡C-C≡N-O	Cyanogen fulminate
327	C ₂ N ₂ O ₅	N ₂ O · 2CO ₂	Carbon dioxide – dinitrogen monoxide (2/1)
328	C ₂ N ₂ S		Sulfur dicyanide

Element System C -O -...

No	Hill Formula	Structure Formula	Name
329	C ₂ O ₂	(CO) ₂	Carbon monoxide dimer
330	C ₂ O ₂ S ₂	CO ₂ · CS ₂	Carbon dioxide – carbon disulfide (1/1)

Element System C -S -...

No	Hill Formula	Structure Formula	Name
331	C ₂ SSi	S=C=C=Si	2-Thioxoethenyldenesilanediy

Element System C -Y -...

No	Hill Formula	Structure Formula	Name
332	C ₂ Y	YC ₂	Yttrium dicarbide