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1.9.1	List of symbols	25
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Introduction

Symbols

General Information

Containing one carbon atom:

...and no hydrogen atom, with atoms
Ar, As, B, Br, Cl or F

...and no hydrogen atom, with atoms
Hg, I, K, Kr, Li, Mg, Mn, N, Ne, O, S or Se

...and one hydrogen atom

...and two hydrogen atoms

...and three hydrogen atoms

...and four hydrogen atoms

...and five hydrogen atoms

...and six or more hydrogen atoms

Containing two carbon atoms:

...and no hydrogen atom, with atoms
Ar, B, Br, Cl, F or Fe

...and no hydrogen atom, with atoms
I, N, O or Si

...and one hydrogen atom

...and two hydrogen atoms

...and three hydrogen atoms

...and four hydrogen atoms

...and five hydrogen atoms

...and six hydrogen atoms

...and seven hydrogen atoms

...and eight hydrogen atoms

...and nine or more hydrogen atoms

Introduction

Symbols

General Information

One Carbon and no Hydrogen Atoms, with Atoms Ar, As, B, Br, Cl or F:

CArCIN	Cyanogen chloride – argon (1/1)	001
CArF ₂ O	Carbonyl difluoride – argon (1/1)	002
CArO	Carbon monoxide – argon (1/1)	003
CArOS	Carbonyl sulfide – argon (1/1)	004
CArO ₂	Carbon dioxide – argon (1/1)	005
CAr ₂ OS	Carbon oxysulfide – diargon (1/1)	006
CAr ₂ O ₂	Carbon dioxide – diargon (1/1)	007
CArF ₃ N ₆	Diazido(trifluoromethyl)arsane	008
CBF ₃ O	Carbon monoxide – boron trifluoride (1/1)	009
CBF ₃ O ₂	Carbon dioxide – boron trifluoride (1/1)	010
CBrClF ₂	Bromochlorodifluoromethane	011
CBrClO	Carbon monoxide – bromine chloride (1/1)	012
CBrCl ₃	Bromotrichloromethane	013
CBrF	Bromofluoromethylene	014
CBrF ₂ N	<i>N</i> -Bromodifluoromethanimine	015
CBrF ₃	Bromotrifluoromethane	016
CBrF ₃ S	Bromo(trifluoromethyl)sulfur	017
CBrF ₃ S ₂	Bromo(trifluoromethyl)disulfane	018
CBrN	Cyanogen bromide	019
CBrN ⁺	Cyanogen bromide cation	020
CBrNO	Bromine isocyanate	021
CBrNS	Bromine thiocyanate	022
CBrN ₃ O ₆	Bromotrinitromethane	023
CBr ₂	Dibromomethylene radical	024
CBr ₂ F ₃ N	<i>N,N</i> -Dibromo-1,1,1-trifluoromethanimine	025
CBr ₂ O	Carbonyl dibromide	026
CBr ₂ S	Thiocarbonyl dibromide	027
CBr ₃	Tribromomethyl radical	028
CBr ₃ NO ₂	Tribromonitromethane	029
CBr ₄	Tetrabromomethane	030
CCIF	Chlorofluoromethylene	031
CCIFO	Carbonyl chloride fluoride	032
CCIFOS	(Fluorocarbonyl)sulfonyl chloride	033
CCIFS	Thiocarbonyl chloride fluoride	034
CCIF ₂ N	<i>N</i> -Chlorodifluoromethanimine	035
CCIF ₃	Chlorotrifluoromethane	036
CCIF ₃ O	Trifluoromethyl hypochlorite	037
CCIF ₃ O ₂	(Chloroperoxy)trifluoromethane	038
CCIF ₃ O ₂ S	Trifluoromethanesulfonyl chloride	039

CClF ₃ S	Trifluoromethanesulfenyl chloride	040
CClF ₃ S ₂	Chloro(trifluoromethyl)disulfane	041
CClF ₇ S	Chlorotetrafluoro(trifluoromethyl)sulfur	042
CCIN	Chlorine cyanide	043
CCIN ⁺	Cyanogen chloride cation	044
CCINO	Chlorine isocyanate	045
CCINO ₃ S	Sulfonyl chloride isocyanate	046
CCINS	Chlorine thiocyanate	047
CCIN ₃ O ₆	Chlorotrinitromethane	048
CCIP	(Chloromethylidyne)phosphine	049
CCl ₂	Dichloromethylene	050
CCl ₂ F ₂	Dichlorodifluoromethane	051
CCl ₂ F ₂ S	Chlorodifluoromethanesulfenyl chloride	052
CCl ₂ F ₃ N	<i>N,N</i> -Dichloro-1,1,1-trifluoromethanamine	053
CCl ₂ F ₆ Si ₂	Dichlorobis(trifluorosilyl)methane	054
CCl ₂ NO ₂ P	Dichloroisocyanatophosphine oxide	055
CCl ₂ N ₂ O ₄	Dichlorodinitromethane	056
CCl ₂ O	Carbonyl dichloride	057
CCl ₂ O	Carbon monoxide – dichlorine (1/1)	058
CCl ₂ OS	Carbonyl chloride thiohypochlorite	059
CCl ₂ OS	Thiocarbonyl dichloride S-oxide	060
CCl ₂ S	Thiocarbonyl dichloride	061
CCl ₃ F	Trichlorofluoromethane	062
CCl ₃ FS	Dichlorofluoromethanesulfenyl chloride	063
CCl ₃ N	<i>N</i> ,1,1-Trichloromethanimine	064
CCl ₃ NOSi	Trichloro(isocyanato)silane	065
CCl ₃ NO ₂	Trichloronitromethane	066
CCl ₄	Carbon tetrachloride	067
CCl ₄ F ₃ P	(Trifluoromethyl)tetrachlorophosphorane	068
CCl ₄ O ₂ S	Trichloromethanesulfonyl chloride	069
CCl ₄ S	Trichloromethanesulfenyl chloride	070
CCl ₆ Ge	Trichloro(trichloromethyl)germane	071
CCl ₈ Si ₂	Dichlorobis(trichlorosilyl)methane	072
CFN	Fluorine cyanide	073
CFNO ₂ S ₂	<i>S</i> -Fluorocarbonyl- <i>N</i> -sulfinylthiohydroxylamine	074
CFN ₃ O	Carbonazidic fluoride	075
CFO	Fluorocarbonyl	076
CFO ⁻ ₂	Fluoroformate anion	077
CFO ₂	Fluoroformyloxyl radical	078
CFP	(Fluoromethylidyne)phosphine	079
CF ₂	Difluoromethylene	080
CF ₂ I ₂	Difluorodiodomethane	081
CF ₂ N	Difluoromethylimino radical	082
CF ₂ NOP	Difluoroisocyanatophosphine	083
CF ₂ NP	Cyanodifluorophosphine	084
CF ₂ NPS	Difluoroisothiocyanatophosphine	085
CF ₂ NPSe	Difluoro(isoselenocyanato)phosphine	086
CF ₂ N ₂	Difluorocyanamide	087
CF ₂ N ₂	Difluorodiazirine	088
CF ₂ N ₂ OS	Cyanoimidodisulfonyl difluoride	089
CF ₂ O	Carbonyl difluoride	090

CF ₂ O ₂	Difluorodioxirane	091
CF ₂ O ₂	Fluorocarbonyl hypofluorite	092
CF ₂ S	Thiocarbonyl difluoride	093
CF ₂ Se	Selenocarbonyl difluoride	094
CF ₃	Trifluoromethyl radical	095
CF ₃ I	Trifluoromethyl iodide	096
CF ₃ N	<i>N</i> ,1,1-Trifluoromethanimine	097
CF ₃ NO	Trifluoronitrosomethane	098
CF ₃ NOS	<i>N</i> -(Fluorocarbonyl)imidodisulfurous difluoride	099
CF ₃ NOSi	Trifluoro(isocyanato)silane	100
CF ₃ NO ₂	Trifluoronitromethane	101
CF ₃ NSi	Cyanotrifluorosilane	102
CF ₃ NSi	Trifluoroisocyanosilane	103
CF ₃ N ₃	Azidotrifluoromethane	104
CF ₄	Carbon tetrafluoride	105
CF ₄ ⁺	Tetrafluoromethane(1+) ion	106
CF ₄ N ₂ P ₂	Bis(difluorophosphino)carbodiimide	107
CF ₄ O	Trifluoromethyl hypofluorite	108
CF ₄ OS	Trifluoromethanesulfinyl fluoride	109
CF ₄ O ₂	Trifluorofluoroperoxymethane	110
CF ₄ O ₄ S ₂	Difluorobis(fluorosulfonyl)methane	111
CF ₄ S	Trifluoromethanesulfonyl fluoride	112
CF ₄ S ₂	Fluoro(trifluoromethyl)disulfane	113
CF ₅ N	Pentafluoromethanamine	114
CF ₅ NOS	Cyanatopentafluorosulfur	115
CF ₅ NOS	Pentafluoro(isocyanato)sulfur	116
CF ₅ NOSe	Cyanatopentafluoroselenium	117
CF ₅ NOTe	Pentafluoro(isocyanato)tellurium	118
CF ₅ NS	<i>N</i> -(Trifluoromethyl)imidodisulfurous difluoride	119
CF ₅ NS	Cyanopentafluorosulfur	120
CF ₆ S	Trifluoro(trifluoromethyl)sulfur	121
CF ₆ Si	Trifluoro(trifluoromethyl)silane	122
CF ₇ P	(Trifluoromethyl)tetrafluorophosphorane	123
CF ₈ S	Pentafluoro(trifluoromethyl)sulfur	124
CF ₈ S ₂	μ -(Difluoromethylene)bis(trifluorosulfur)	125
CF ₈ S ₂	μ -Carbido-pentafluorosulfur(VI)trifluorosulfur(VI)	126
CF ₁₂ S ₂	μ -(Difluoromethylene)bis[pentafluorosulfur]	127

**One Carbon and no Hydrogen Atoms,
with Atoms Hg, I, K, Kr, Li, Mg, Mn, N, Ne, O, S or Se:**

CH _g OS	Carbonyl sulfide – mercury (1/1)	406
CH _g O ₂	Carbon dioxide – mercury (1/1)	407
CIN	Cyanogen iodide	408
CINO	Iodine isocyanate	409
CKN	Potassium cyanide	410
CKrO	Carbon monoxide – krypton (1/1)	411
CKrOS	Carbonyl sulfide – krypton (1/1)	412
CKrO ₂	Carbon dioxide – krypton (1/1)	413
CLiN	Lithium isocyanide	414
CMgN	Magnesium isocyanide	415
CMnN ₃ O ₄	Carbonyltrinitrosylmanganese	416
CNNa	Sodium cyanide	417
CNO ⁻	Cyanate anion	418
CNO	Cyanato radical	419
CNOSr	Strontium monoisocyanate	420
CNS	Thiocyanato radical	421
CN ₂	<i>sym</i> -Carbodiimide	422
CN ₂ O	Nitrosyl cyanide	423
CN ₂ O	Carbon monoxide – dinitrogen (1/1)	424
CN ₂ O ₂	Carbon monoxide – dinitrogen monoxide (1/1)	425
CN ₄	Cyanogen azide	426
CN ₄ O ₈	Tetranitromethane	427
CNeO	Carbon monoxide – neon (1/1)	428
CNeOS	Carbonyl sulfide – neon (1/1)	429
CNeO ₂	Carbon dioxide – neon (1/1)	430
COS	Carbonyl sulfide	431
COSe	Carbonyl selenide	432
COXe	Carbon monoxide – xenon (1/1)	433
CO ₂	Carbon dioxide	434
CO ₂ ⁺	Carbon dioxide(1+) ion	435
CO ₂ Xe	Carbon dioxide – xenon (1/1)	436
CO ₃ S	Carbon monoxide – sulfur dioxide (1/1)	437
CSSe	Thiocarbonyl selenide	438
CSTe	Thiocarbonyl telluride	439
CS ₂	Carbon disulfide	440
CS ₂ ⁺	Carbon disulfide(1+) ion	441
CSe ₂	Carbon diselenide	442

One Carbon and one Hydrogen Atom:

CHArN	Hydrogen cyanide – argon (1/1)	128
CHArNO	Fulminic acid – argon (1/1)	129
CHArNO	Isocyanic acid – argon (1/1)	130
CHArO ⁺	Formyl cation – argon (1/1)	131
CHAr ₂ N	Hydrogen cyanide – diargon (1/1)	132
CHBF ₃ lN	Hydrogen cyanide – trifluoroborane (1/1)	133
CHBrClF	Bromochlorofluoromethane	134
CHBrCl ₂	Bromodichloromethane	135
CHBrO	Carbon monoxide – hydrogen bromide (1/1)	136
CHBrO ₂	Carbon dioxide – hydrogen bromide (1/1)	137
CHBr ₂ Cl	Dibromochloromethane	138
CHBr ₃	Bromoform	139
CHCl	Chloromethylene	140
CHClF ₂	Chlorodifluoromethane	141
CHClO	Formyl chloride	142
CHClO	Carbon monoxide – hydrogen chloride (1/1)	143
CHClOS	Carbonyl sulfide – hydrogen chloride (1/1)	144
CHClO ₂	Carbon dioxide – hydrogen chloride (1/1)	145
CHCl ₂ N	Hydrogen cyanide – dichlorine (1/1)	146
CHCl ₃	Chloroform	147
CHCl ₅ Si	(Dichloromethyl)trichlorosilane	148
CHF	Fluoromethylene	149
CHFO	Formyl fluoride	150
CHFO	Carbon monoxide - hydrogen fluoride (1/1)	151
CHFOS	Carbonyl sulfide – hydrogen fluoride (1/1)	152
CHFO ₂	Carbon dioxide – hydrogen fluoride (1/1)	153
CHF ₂ P	(Difluoromethylene)phosphine	154
CHF ₃	Fluoroform	155
CHF ₃ O ₂	Trifluoromethyl hydroperoxide	156
CHF ₃ O ₃ S	Trifluoromethanesulfonic acid	157
CHF ₃ O ₆ S ₃	Tris(fluorosulfonyl)methane	158
CHF ₃ S	Trifluoromethanethiol	159
CHF ₃ S ₂	Trifluoromethyl hydrodisulfide	160
CHHeO ⁺	Formyl cation – helium (1/1)	161
CHHgN	Hydrogen cyanide – mercury (1/1)	162
CHIO	Carbon monoxide – hydrogen iodide (1/1)	163
CHKrN	Hydrogen cyanide – krypton (1/1)	164
CHN	Hydrogen cyanide	165
CHN	Hydrogen isocyanide	166
CHN ⁺	Hydrogen cyanide cation	167
CHNO	Isocyanic acid	168
CHNO	Fulminic acid	169
CHNO ₂ S	Hydrogen cyanide – sulfur dioxide (1/1)	170
CHNO ₃ S	Hydrogen cyanide – sulfur trioxide (1/1)	171
CHNS	Isothiocyanic acid	172

CHNSe	Isoselenocyanic acid	173
CHN ₂	Carbonimidoylamidogen	174
CHN ₃	Hydrogen cyanide – dinitrogen (1/1)	175
CHN ₃ O	Hydrogen cyanide – dinitrogen monoxide (1/1)	176
CHN ₃ O ₆	Trinitromethane	177
CHNeO ⁺	Formyl cation – neon (1/1)	178
CHO ⁻	Formyl anion	179
CHO	Formyl radical	180
CHO ⁺	Formyl cation	181
CHO ⁺	Hydroxocarbon(1+) ion	182
CHO ₂ ⁺	Hydroxo(oxo)carbon(1+) ion	183
CHP	Methylidynephosphine	184
CHP ⁺	Methylidynephosphine(1+) ion	185
CHV	Methylidynevanadium(III)	186

One Carbon and two Hydrogen Atoms:

CH_2^-	Methylene anion	187
CH_2	Methylene	188
CH_2ArO	Formaldehyde – argon (1/1)	189
CH_2ArO_2	Formic acid – argon (1/1)	190
CH_2BrCl	Bromochloromethane	191
CH_2BrF	Bromofluoromethane	192
CH_2BrN	Hydrogen cyanide – hydrogen bromide (1/1)	193
CH_2Br_2	Dibromomethane	194
CH_2Cl	Chloromethyl radical	195
CH_2ClF	Chlorofluoromethane	196
$\text{CH}_2\text{ClF}_2\text{OP}$	(Chloromethyl)phosphonic difluoride	197
CH_2ClIN	Hydrogen cyanide – hydrogen chloride (1/1)	198
CH_2ClNO_2	Chloronitromethane	199
CH_2ClP	Chloro(methylene)phosphine	200
CH_2Cl_2	Dichloromethane	201
$\text{CH}_2\text{Cl}_3\text{OP}$	(Chloromethyl)phosphonic dichloride	202
$\text{CH}_2\text{Cl}_3\text{P}$	Dichloro(chloromethyl)phosphine	203
$\text{CH}_2\text{Cl}_3\text{PS}$	(Chloromethyl)phosphonothioic dichloride	204
$\text{CH}_2\text{Cl}_4\text{O}_2\text{P}_2$	Methylenebis(phosphonic dichloride)	205
$\text{CH}_2\text{Cl}_4\text{P}_2$	Methylenebis(phosphonous dichloride)	206
$\text{CH}_2\text{Cl}_4\text{Si}$	(Chloromethyl)trichlorosilane	207
$\text{CH}_2\text{Cl}_4\text{Sn}$	(Chloromethyl)trichlorostannane	208
$\text{CH}_2\text{Cl}_6\text{Si}_2$	Bis(trichlorosilyl)methane	209
CH_2F	Fluoromethyl radical	210
CH_2FN	Hydrogen cyanide – hydrogen fluoride (1/1)	211
CH_2FP	Fluoro(methylene)phosphine	212
CH_2F_2	Difluoromethane	213
$\text{CH}_2\text{F}_3\text{P}$	(Trifluoromethyl)phosphine	214
$\text{CH}_2\text{F}_4\text{P}_2\text{S}_2$	Bis(difluorophosphonothioyl)methane	215
$\text{CH}_2\text{F}_4\text{S}$	Tetrafluoromethylenesulfur	216
$\text{CH}_2\text{F}_6\text{Si}_2$	Bis(trifluorosilyl)methane	217
$\text{CH}_2\text{F}_{10}\text{S}_2$	Methylenebis(pentafluorosulfur)	218
CH_2IN	Hydrogen cyanide – hydrogen iodide (1/1)	219
CH_2N^+	Protonated hydrogen cyanide	220
CH_2N_2	Diazomethane	221
CH_2N_2	Cyanamide	222
CH_2N_2	Diazirine	223
CH_2O	Formaldehyde	224
CH_2OS	Thioformic acid	225
CH_2OS	Thioformaldehyde S-oxide	226
CH_2OS_2	Carbon disulfide – water (1/1)	227
CH_2O_2	Formic acid	228
CH_2O_2	Dioxirane	229
CH_2O_2	Carbon monoxide – water (1/1)	230
$\text{CH}_2\text{O}_2\text{S}$	Carbon dioxide – hydrogen sulfide (1/1)	231

CH_2O_3	Performic acid	232
CH_2O_3	Carbon dioxide – water (1/1)	233
CH_2S^-	Thioformaldehyde(1-) ion	234
CH_2S	Thioformaldehyde	235
CH_2S_2	Dithioformic acid	236
CH_2Se	Methaneselenal	237

One Carbon and three Hydrogen Atoms:

CH ₃	Methyl radical	238
CH ₃ ⁺	Methyl cation	239
CH ₃ ArCl	Methyl chloride – argon (1/1)	240
CH ₃ ArNO	Formamide – argon (1/1)	241
CH ₃ ArNO	Hydrogen cyanide – argon – water (1/1/1)	242
CH ₃ AsF ₂	Difluoromethylarsine	243
CH ₃ BBr ₂	Dibromomethylborane	244
CH ₃ BCl ₂	Dichloromethylborane	245
CH ₃ BF ₂	Difluoromethylborane	246
CH ₃ BO	Carbonyltrihydroboron	247
CH ₃ BS	Methylthioxoborane	248
CH ₃ Br	Methyl bromide	249
CH ₃ BrHg	Methylmercury bromide	250
CH ₃ Br ₂ PS	Dibromomethylthiophosphine	251
CH ₃ Br ₃ Ge	Tribromo(methyl)germane	252
CH ₃ Br ₃ Si	Tribromo(methyl)silane	253
CH ₃ Ca	Monomethylcalcium	254
CH ₃ Cd	Monomethylcadmium	255
CH ₃ Cl	Methyl chloride	256
CH ₃ ClHg	Methylmercury chloride	257
CH ₃ ClN ₂ O ₂	<i>N</i> -Chloro- <i>N</i> -nitromethanamine	258
CH ₃ ClO	Methyl hypochlorite	259
CH ₃ ClO	Formaldehyde – hydrogen chloride (1/1)	260
CH ₃ ClO ₂ S	Methanesulfonyl chloride	261
CH ₃ ClO ₃ S	Methyl chlorosulfate	262
CH ₃ ClS	Methanesulphenyl chloride	263
CH ₃ Cl ₂ OP	Phosphorodichloridous acid methyl ester	264
CH ₃ Cl ₂ OP	Methylphosphonic dichloride	265
CH ₃ Cl ₂ OPS	<i>O</i> -Methyl phosphorodichloridothioate	266
CH ₃ Cl ₂ OPS	<i>S</i> -Methyl phosphorodichloridothioate	267
CH ₃ Cl ₂ O ₂ P	Methyl phosphorodichloridate	268
CH ₃ Cl ₂ P	Methyldichlorophosphine	269
CH ₃ Cl ₂ PS	Dichloro(methylthio)phosphine	270
CH ₃ Cl ₃ Ge	Trichloro(methyl)germane	271
CH ₃ Cl ₃ Si	Trichloro(methyl)silane	272
CH ₃ Cl ₃ Sn	Trichloro(methyl)stannane	273
CH ₃ Cl ₃ Ti	Trichloro(methyl)titanium	274
CH ₃ F	Fluoromethane	275
CH ₃ FO	Formaldehyde – hydrogen fluoride (1/1)	276
CH ₃ FO ₂ S	Methanesulfonyl fluoride	277
CH ₃ FO ₃ S	Methyl fluorosulfate	278
CH ₃ F ₂ N	<i>N,N</i> -Difluoromethanamine	279
CH ₃ F ₂ OP	Difluoromethoxyphosphine	280
CH ₃ F ₂ OP	Methylphosphonic difluoride	281
CH ₃ F ₂ O ₂ P	Phosphorodifluoridic acid methyl ester	282

CH ₃ F ₂ P	(Difluoromethyl)phosphine	283
CH ₃ F ₂ P	Difluoro(methyl)phosphine	284
CH ₃ F ₂ PS	Methylphosphonothioic difluoride	285
CH ₃ F ₂ PS	Difluoro(methylthio)phosphine	286
CH ₃ F ₃ Ge	(Trifluoromethyl)germane	287
CH ₃ F ₃ Ge	Trifluoro(methyl)germane	288
CH ₃ F ₃ OSi	Trifluoromethoxysilane	289
CH ₃ F ₃ S	Trifluoromethylsulfurane	290
CH ₃ F ₃ Si	Methyltrifluorosilane	291
CH ₃ F ₃ Si	(Trifluoromethyl)silane	292
CH ₃ F ₄ NP ₂	Methyliminobis(difluorophosphine)	293
CH ₃ F ₄ NS	Sulfur tetrafluoride methylimide	294
CH ₃ F ₄ P	Tetrafluoromethylphosphorane	295
CH ₃ GeN	Germyl cyanide	296
CH ₃ GeNO	Germyl isocyanate	297
CH ₃ GeNS	Germyl isothiocyanate	298
CH ₃ HgI	Methylmercury iodide	299
CH ₃ I	Methyl iodide	300
CH ₃ N	Methylnitrene radical	301
CH ₃ N	Methanimine	302
CH ₃ NO	Nitrosomethane	303
CH ₃ NO	Formaldehyde oxime	304
CH ₃ NO	Formamide	305
CH ₃ NO	Carbon monoxide – ammonia (1/1)	306
CH ₃ NO	Hydrogen cyanide – water (1/1)	307
CH ₃ NOS	<i>N</i> -Sulfinylmethanamine	308
CH ₃ NOSi	Silyl isocyanate	309
CH ₃ NO ₂	Methyl nitrite	310
CH ₃ NO ₂	Nitromethane	311
CH ₃ NO ₂	Carbon dioxide – ammonia (1/1)	312
CH ₃ NO ₃	Methyl nitrate	313
CH ₃ NS	Thioformamide	314
CH ₃ NS	Hydrogen cyanide – hydrogen sulfide (1/1)	315
CH ₃ NSSi	Silyl isothiocyanate	316
CH ₃ NSi	Silyl cyanide	317
CH ₃ N ₃	Methyl azide	318
CH ₃ N ₃ O ₄	<i>N,N</i> -Dinitromethanamine	319
CH ₃ O	Methoxyl radical	320
CH ₃ O ⁺	Formyl cation – dihydrogen (1/1)	321
CH ₃ OSr	Strontium monomethoxide	322
CH ₃ O ₃ Re	Methyltrioxorhenium(VII)	323
CH ₃ P	Methylenephosphine	324
CH ₃ S ⁻	Methanethiolate anion	325
CH ₃ S	Methylthio radical	326
CH ₃ Zn	Monomethylzinc	327

One Carbon and four Hydrogen Atoms:

CH ₄	Methane	328
CH ₄ ⁺	Methane cation	329
CH ₄ ArO	Methanol – argon (1/1)	330
CH ₄ CIN	<i>N</i> -Chloromethanamine	331
CH ₄ CIP	(Chloromethyl)phosphine	332
CH ₄ Cl ₂ Si	Dichloro(methyl)silane	333
CH ₄ F ₂ NP	Difluoro(methylamino)phosphine	334
CH ₄ F ₂ Si	Difluoro(methyl)silane	335
CH ₄ F ₃ N	Trifluoromethane – ammonia (1/1)	336
CH ₄ NP	Hydrogen cyanide – phosphine (1/1)	337
CH ₄ N ₂	(<i>E</i>)-Methyldiazene	338
CH ₄ N ₂	Hydrogen cyanide – ammonia (1/1)	339
CH ₄ N ₂ O ₂	<i>N</i> -Nitromethanamine	340
CH ₄ O	Methanol	341
CH ₄ OS	Methanesulfenic acid	342
CH ₄ O ₂	Methyl hydroperoxide	343
CH ₄ O ₂ Si	Silyl formate	344
CH ₄ O ₃ S	Methanol – sulfur dioxide (1/1)	345
CH ₄ O ₄	Carbon dioxide – water (1/2)	346
CH ₄ S	Methanethiol	347
CH ₄ S ₂	Methyldisulfane	348
CH ₄ Se	Methaneselenol	349

One Carbon and five Hydrogen Atoms:

CH ₅ BO	Methoxyborane	350
CH ₅ Br	Methane – hydrogen bromide (1/1)	351
CH ₅ BrGe	Bromo(methyl)germane	352
CH ₅ BrSi	(Bromomethyl)silane	353
CH ₅ Cl	Methane – hydrogen chloride (1/1)	354
CH ₅ ClGe	Chloro(methyl)germane	355
CH ₅ ClGe	(Chloromethyl)germane	356
CH ₅ ClO	Methanol – hydrogen chloride (1/1)	357
CH ₅ ClSi	Chloro(methyl)silane	358
CH ₅ ClSi	(Chloromethyl)silane	359
CH ₅ Cl ₄ NSi ₂	<i>N,N</i> -Bis(dichlorosilyl)methanamine	360
CH ₅ F	Methane – hydrogen fluoride (1/1)	361
CH ₅ FGe	Fluoro(methyl)germane	362
CH ₅ FN ₂	Hydrogen cyanide – hydrogen fluoride – ammonia (1/1/1)	363
CH ₅ FSi	Fluoro(methyl)silane	364
CH ₅ ISi	Iodo(methyl)silane	365
CH ₅ N	Methylamine	366
CH ₅ NO	<i>N</i> -Methylhydroxylamine	367
CH ₅ NO	<i>O</i> -Methylhydroxylamine	368
CH ₅ NO ₂	Formamide – water (1/1)	369
CH ₅ NO ₃	Nitromethane – water (1/1)	370
CH ₅ NSi ₂	Disilanyl cyanide	371
CH ₅ P	Methylphosphine	372

One Carbon and six or more Hydrogen Atoms:

CH ₆ BF ₂ P	Difluoromethylphosphine – borane (1/1)	373
CH ₆ CIN	Methylamine – hydrogen chloride(1/1)	374
CH ₆ Ge	Methylgermane	375
CH ₆ Ge ₂ N ₂	Digermylcarbodiimide	376
CH ₆ N ₂	Methylhydrazine	377
CH ₆ N ₂ Si ₂	Disilylcarbodiimide	378
CH ₆ O	Methane – water (1/1)	379
CH ₆ OSi	Methyl silyl ether	380
CH ₆ P ₂	Methylenebisphosphine	381
CH ₆ SSi	Methylsilanethiol	382
CH ₆ SSi	Methyl silyl sulfide	383
CH ₆ Si	Methylsilane	384
CH ₆ Sn	Methylstannane	385
CH ₇ B ₅	Carba- <i>closo</i> -hexaborane(7)	386
CH ₇ NO	Methanol – ammonia (1/1)	387
CH ₇ PSi	Methyl(silyl)phosphine	388
CH ₈ BP	Methylphosphine – borane (1/1)	389
CH ₈ B ₂	Methyldiborane(6)	390
CH ₈ B ₄ O	Carbonyltetraborane(8)	391
CH ₈ N ₂ S ₃	Ammonium trithiocarbonate	392
CH ₈ Si ₂	Disilylmethane	393
CH ₉ B ₂ N	μ -(Methylamino)-diborane(6)	394
CH ₉ B ₅	2-Carba- <i>nido</i> -hexaborane(9)	395
CH ₉ NSi ₂	<i>N</i> -Methyl- <i>N</i> -silylsilanamine	396
CH ₁₀ Si ₃	Trisilylmethane	397
CH ₁₁ AlB ₂	Methylaluminum bis(tetrahydroborate)	398
CH ₁₁ AsB ₁₀	<i>p</i> -Arsacarborane	399
CH ₁₁ B ₅	1-Methyl- <i>nido</i> -pentaborane(9)	400
CH ₁₁ B ₅	2-Methyl- <i>nido</i> -pentaborane(9)	401
CH ₁₁ B ₁₀ P	<i>p</i> -Phosphacarborane	402
CH ₁₂ GeSi ₃	Methyltrisilylgermane	403
CH ₁₂ Si ₄	Tetrasilylmethane	404
CH ₁₂ Si ₄	2-Methyl-2-silyltrisilane	405

**Two Carbon and no Hydrogen Atoms,
with Atoms Ar, B, Br, Cl, F or Fe:**

C_2ArN_2	Argon – Cyanogen (1/1)	443
$C_2AsF_6N_3$	Bis(trifluoromethyl)arsinous azide	444
$C_2BF_3N_2$	Dicyan – boron trifluoride (1/1)	445
C_2BrCl	Bromochloroacetylene	446
C_2BrF	Bromofluoroacetylene	447
C_2BrFN_2	<i>N</i> -Bromocyanofluoromethanimine	448
C_2BrF_6N	<i>N</i> -Bromo-1,1,1-trifluoro- <i>N</i> - (trifluoromethyl)methanamine	449
C_2BrI	Bromoiodoacetylene	450
$C_2Br_2F_4$	1,2-Dibromo-1,1,2,2-tetrafluoroethane	451
$C_2Br_2O_2$	Oxalyl dibromide	452
C_2Br_4	Tetrabromoethene	453
$C_2Br_4N_2$	Dibromoformaldehyde azine	454
C_2ClF	Chlorofluoroacetylene	455
C_2ClF_3OS	(<i>Z</i>)-2,2,2-Trifluoroethanethioyl chloride <i>S</i> -oxide	456
C_2ClF_6N	<i>N</i> -Chloro-1,1,1-trifluoro- <i>N</i> - (trifluoromethyl)methanamine	457
C_2ClF_6NS	<i>N</i> -Chloro- <i>S</i> , <i>S</i> -bis(trifluoromethyl)sulfimine	458
C_2ClI	Chloroiodoacetylene	459
C_2ClNO_2	Chlorocarbonyl isocyanate	460
C_2Cl_2	Dichloroacetylene	461
$C_2Cl_2F_2$	1,1-Dichloro-2,2-difluoroethylene	462
$C_2Cl_2F_4$	1,2-Dichloro-1,1,2,2-tetrafluoroethane	463
$C_2Cl_2N_2O_2Si$	Dichlorosilylene diisocyanate	464
C_2Cl_2O	Dichloroketene	465
$C_2Cl_2O_2$	Oxalyl dichloride	466
$C_2Cl_3F_3$	1,1,1-Trichloro-2,2,2-trifluoroethane	467
$C_2Cl_3F_6P$	Trichlorobis(trifluoromethyl)phosphorane	468
C_2Cl_3N	Trichloroacetonitrile	469
C_2Cl_4	Tetrachloroethene	470
$C_2Cl_4N_2$	1,2-(Dichloromethylidene)diazane	471
C_2Cl_4O	Trichloroacetyl chloride	472
C_2Cl_6	Hexachloroethane	473
$C_2Cl_6O_2S$	Bis(trichloromethyl)sulfone	474
C_2FNO_2	Carbonisocyanatidic fluoride	475
C_2F_2	Difluoroacetylene	476
$C_2F_2OS_2$	4,4-Difluoro-1,3-dithietan-2-one	477
$C_2F_2O_2S_2$	Bis(fluorocarbonyl)disulfane	478
$C_2F_2O_4$	Bis(fluorocarbonyl) peroxide	479
$C_2F_2S_3$	4,4-Difluoro-1,3-dithietane-2-thione	480

C ₂ F ₃ N	Trifluoromethyl cyanide	481
C ₂ F ₃ N	Trifluoromethyl isocyanide	482
C ₂ F ₃ NO	Trifluoromethyl isocyanate	483
C ₂ F ₃ NSe	Trifluoromethyl selenocyanate	484
C ₂ F ₃ N ₂ S ₂	4-(Trifluoromethyl)-3 <i>H</i> -1,2,3,5-dithiadiazol-3-yl	485
C ₂ F ₃ N ₃ S	1,3,5-Trifluoro-1 λ^4 ,2,4,6-thiatriazine	486
C ₂ F ₄	Tetrafluoroethene	487
C ₂ F ₄ I ₂	1,1,2,2-Tetrafluoro-1,2-diiodoethane	488
C ₂ F ₄ N ₂	Azinobis(difluoromethane)	489
C ₂ F ₄ O	Trifluoroacetyl fluoride	490
C ₂ F ₄ O	Tetrafluoroethylene oxide	491
C ₂ F ₄ O ₃ S	3,3,4,4-Tetrafluoro-1,2-oxathietane 2,2-dioxide	492
C ₂ F ₄ S	Tetrafluorothiirane	493
C ₂ F ₄ S ₂	Tetrafluoro-1,3-dithietane	494
C ₂ F ₄ Se ₂	Tetrafluoro-1,3-diselenetane	495
C ₂ F ₅ I	Pentafluoroethyl iodide	496
C ₂ F ₅ N ₃ S ₂	1,3-Difluoro-5-(trifluoromethyl)-1 λ^4 ,3 λ^4 ,2,4,6-dithiatriazine	497
C ₂ F ₅ P	(Difluoromethylene)(trifluoromethyl)phosphine	498
C ₂ F ₆	Hexafluoroethane	499
C ₂ F ₆ Hg	Bis(trifluoromethyl)mercury	500
C ₂ F ₆ NO	Bis(trifluoromethyl)nitroxyl	501
C ₂ F ₆ N ₂	<i>cis</i> -Hexafluoroazomethane	502
C ₂ F ₆ N ₂	<i>trans</i> -Hexafluoroazomethane	503
C ₂ F ₆ N ₂ OS	Bis(trifluoromethyl)aminyl thionitrosyl oxide	504
C ₂ F ₆ N ₂ O ₂	<i>O</i> -Nitroso- <i>N,N</i> -bis(trifluoromethyl)hydroxylamine	505
C ₂ F ₆ O	Bis(trifluoromethyl) ether	506
C ₂ F ₆ OS	Bis(trifluoromethyl) sulfoxide	507
C ₂ F ₆ O ₂	Bis(trifluoromethyl) peroxide	508
C ₂ F ₆ O ₂ S	Bis(trifluoromethyl) sulfone	509
C ₂ F ₆ O ₃	Bis(trifluoromethyl) trioxide	510
C ₂ F ₆ S	Bis(trifluoromethyl) sulfide	511
C ₂ F ₆ S	Trifluoroethylidynesulfur trifluoride	512
C ₂ F ₆ S ₂	Bis(trifluoromethyl) disulfide	513
C ₂ F ₆ S ₃	Bis(trifluoromethyl)trisulfane	514
C ₂ F ₆ S ₄	Bis(trifluoromethyl)tetrasulfane	515
C ₂ F ₆ Se	Bis(trifluoromethyl) selenide	516
C ₂ F ₆ Se ₂	Bis(trifluoromethyl) diselenide	517
C ₂ F ₇ N	<i>N</i> -Fluorobis(trifluoromethyl)amine	518
C ₂ F ₈ N ₂ S	(Trifluoromethyl)(pentafluoro- λ^6 -sulfanyl)carbodiimide	519
C ₂ F ₈ OS	Bis(trifluoromethyl)thionyl difluoride	520
C ₂ F ₈ O ₂ S ₂	2,2,3,3,3,3,4,4-Octafluoro-3 λ^6 -dithiethane 1,1-dioxide	521
C ₂ F ₈ S	Bis(trifluoromethyl)sulfur difluoride	522
C ₂ F ₈ S	Pentafluoro(trifluorovinyl)sulfur	523
C ₂ F ₈ Se	Difluorobis(trifluoromethyl)selenium	524
C ₂ F ₉ P	Bis(trifluoromethyl)trifluorophosphorane	525
C ₂ F ₁₀ S	Bis(trifluoromethyl)sulfur tetrafluoride	526
C ₂ F ₁₂ S ₂	Tetrafluoro-1,3-dithietane octafluoride	527
C ₂ FeN ₂ O ₄	Dicarbonyldinitrosyliron	528

Two Carbon and one Hydrogen Atom:

C ₂ H	Ethynyl	529
C ₂ HArF ₃	Trifluoroethene – argon (1/1)	530
C ₂ HBF ₂	Ethynyldifluoroborane	531
C ₂ HBr	Bromoacetylene	532
C ₂ HBr ⁺	Bromoacetylene cation	533
C ₂ HBrF ₂	2-Bromo-1,1-difluoroethene	534
C ₂ HBrO	Bromoketene	535
C ₂ HCa	Ethynylcalcium	536
C ₂ HCl	Chloroacetylene	537
C ₂ HCl ⁺	Chloroacetylene cation	538
C ₂ HClF ₃ N	<i>N</i> -(Trifluoromethyl)chloromethanimine	539
C ₂ HClO	Chloroketene	540
C ₂ HCl ₂ F ₃	2,2-Dichloro-1,1,1-trifluoroethane	541
C ₂ HCl ₃ O	Dichloroacetyl chloride	542
C ₂ HF	Fluoroacetylene	543
C ₂ HFN ₂	Cyanogen – hydrogen fluoride (1/1)	544
C ₂ HFO	Fluoroketene	545
C ₂ HF ₂ N	Difluoroacetonitrile	546
C ₂ HF ₃	Trifluoroethylene	547
C ₂ HF ₃ O	Difluoroacetyl fluoride	548
C ₂ HF ₃ O ₂	Trifluoroacetic acid	549
C ₂ HF ₃ O ₃ S	3,4,4-Trifluoro-1,2-oxathietane 2,2-dioxide	550
C ₂ HF ₄ N	<i>N</i> -(Trifluoromethyl)fluoromethanimine	551
C ₂ HF ₄ NS ₂	4,4,5,5-Tetrafluoro-1,3,2-dithiazolidine	552
C ₂ HF ₄ P	Ethynyltetrafluorophosphorane	553
C ₂ HF ₅	Pentafluoroethane	554
C ₂ HF ₅ S	Ethynylpentafluorosulfur	555
C ₂ HF ₅ Se	Pentafluoroethaneselenol	556
C ₂ HF ₆ N	Bis(trifluoromethyl)amine	557
C ₂ HF ₆ NO	<i>N,N</i> -Bis(trifluoromethyl)hydroxylamine	558
C ₂ HF ₆ PS ₂	Bis(trifluoromethylthio)phosphine	559
C ₂ HI	Iodoacetylene	560
C ₂ HI ⁺	Iodoacetylene cation	561
C ₂ HN	Cyanomethylene radical	562
C ₂ HNO	Hydrogen cyanide – carbon monoxide (1/1)	563
C ₂ HNOS	Hydrogen cyanide – carbonyl sulfide (1/1)	564
C ₂ HNO ₂	Hydrogen cyanide – carbon dioxide (1/1)	565
C ₂ HNO ₂ S	1,3,4-Oxathiazol-2-one	566
C ₂ HN ₂ ⁺	Protonated cyanogen	567
C ₂ HN ₃	Diazoacetonitrile	568
C ₂ HO	Oxoethenyl	569

Two Carbon and two Hydrogen Atoms:

$C_2H_2^-$	Vinylidene anion	570
C_2H_2	Acetylene	571
$C_2H_2^+$	Acetylene ion	572
C_2H_2Ar	Acetylene – argon (1/1)	573
$C_2H_2ArF_2$	1,1-Difluoroethylene – argon (1/1)	574
$C_2H_2ArN_2$	Hydrogen cyanide – argon (2/1)	575
C_2H_2ArO	Ketene – argon (1/1)	576
$C_2H_2AsCl_3$	(<i>E</i>)-(2-Chloroethenyl)arsinous dichloride	577
C_2H_2BrClO	Bromoacetyl chloride	578
C_2H_2BrN	Bromoacetonitrile	579
$C_2H_2Br_2$	<i>cis</i> -1,2-Dibromoethene	580
$C_2H_2Br_2O$	Bromoacetyl bromide	581
$C_2H_2ClF_3$	1-Chloro-2,2,2-trifluoroethane	582
C_2H_2ClN	Chloroacetonitrile	583
$C_2H_2Cl_2$	1,1-Dichloroethylene	584
$C_2H_2Cl_2$	<i>cis</i> -1,2-Dichloroethylene	585
$C_2H_2Cl_2$	<i>trans</i> -1,2-Dichloroethylene	586
$C_2H_2Cl_2$	Acetylene – dichlorine (1/1)	587
$C_2H_2Cl_2Hg$	Chloro(<i>Z</i>)-2-chloroethenyl]mercury	588
$C_2H_2Cl_2O$	Chloroacetyl chloride	589
$C_2H_2Cl_2O_2$	Dichloroacetic acid	590
C_2H_2FN	Fluoroacetonitrile	591
C_2H_2FNO	Carbon monoxide – hydrogen cyanide –	592
$C_2H_2F_2$	1,1-Difluoroethylene	593
$C_2H_2F_2$	<i>cis</i> -1,2-Difluoroethene	594
$C_2H_2F_2$	<i>trans</i> -1,2-Difluoroethylene	595
$C_2H_2F_2O$	Fluoroacetyl fluoride	596
$C_2H_2F_2O$	<i>cis</i> -1,2-Difluoroethylene oxide	597
$C_2H_2F_2O$	<i>trans</i> -1,2-Difluoroethylene oxide	598
$C_2H_2F_2O_2$	Difluoroacetic acid	599
$C_2H_2F_2O_3$	<i>cis</i> -Difluoroethylene ozonide	600
$C_2H_2F_2O_3$	<i>trans</i> -Difluoroethylene ozonide	601
$C_2H_2F_2O_3$	1,1-Difluoroethylene ozonide	602
$C_2H_2F_3N$	Fluoroform – hydrogen cyanide (1/1)	603
$C_2H_2F_4$	1,1,1,2-Tetrafluoroethane	604
$C_2H_2F_4$	1,1,2,2-Tetrafluoroethane	605
$C_2H_2GeI_2$	1,1-Diiodogermacycloprop-2-ene	606
$C_2H_2N^-$	Cyanomethanide ion	607
C_2H_2NP	Methylenephosphinous cyanide	608
$C_2H_2N_2$	Hydrogen cyanide dimer	609
$C_2H_2N_2$	<i>N</i> -Cyanofornimine	610
$C_2H_2N_2O$	Furazan	611
$C_2H_2N_2O$	1,3,4-Oxadiazole	612
$C_2H_2N_2O$	Cyanogen – water (1/1)	613
$C_2H_2N_2O$	Acetylene – nitrous oxide (1/1)	614

$C_2H_2N_2S$	1,2,3-Thiadiazole	615
$C_2H_2N_2S$	1,2,4-Thiadiazole	616
$C_2H_2N_2S$	1,2,5-Thiadiazole	617
$C_2H_2N_2S$	1,3,4-Thiadiazole	618
$C_2H_2N_2Se$	1,2,5-Selenadiazole	619
$C_2H_2N_2Se$	1,3,4-Selenadiazole	620
$C_2H_2N_4$	Azidoacetonitrile	621
$C_2H_2N_4$	1,2,4,5-Tetrazine	622
$C_2H_2N_4$	Hydrogen cyanide – dinitrogen (2/1)	623
C_2H_2O	Ketene	624
C_2H_2OS	Thioxoacetaldehyde	625
$C_2H_2O_2$	Glyoxal	626
$C_2H_2O_2S$	Acetylene – sulfur dioxide (1/1)	627
$C_2H_2O_3$	Formic acid anhydride	628
$C_2H_2O_3$	Formaldehyde – carbon dioxide (1/1)	629
$C_2H_2O_3$	Acetylene – ozone (1/1)	630
$C_2H_2O_3$	Carbon monoxide – water (2/1)	631
$C_2H_2O_4$	Oxalic acid	632
$C_2H_2O_5$	Carbon dioxide – water (2/1)	633
C_2H_2S	Thioketene	634
C_2H_2Se	Selenoketene	635
C_2H_2Si	Silacycloprop-2-enylidene	636

Two Carbon and three Hydrogen Atoms:

C_2H_3	Vinyl radical	637
C_2H_3ArF	Vinyl fluoride – argon (1/1)	638
C_2H_3ArN	Acetonitrile – argon (1/1)	639
$C_2H_3ArN_5$	3-Amino- <i>s</i> -tetrazine – argon complex	640
$C_2H_3Ar_2N_5$	3-Amino- <i>s</i> -tetrazine – argon (1/2)	641
C_2H_3As	Ethylidynesarsine	642
$C_2H_3BF_2$	Difluoro(vinyl)borane	643
$C_2H_3BF_3N$	Acetonitrile – trifluoroborane (1/1)	644
C_2H_3Br	Vinyl bromide	645
$C_2H_3BrN_2$	3-Bromo-3-methyl-3 <i>H</i> -diazirine	646
C_2H_3BrO	Acetyl bromide	647
$C_2H_3Br_3$	1,1,1-Tribromoethane	648
C_2H_3Cl	Vinyl chloride	649
C_2H_3Cl	Acetylene – hydrogen chloride (1/1)	650
$C_2H_3ClF_2$	1-Chloro-1,1-difluoroethane	651
$C_2H_3ClF_2$	1,1-Difluoroethene – hydrogen chloride (1/1)	652
$C_2H_3ClN_2$	3-Chloro-3-methyl-3 <i>H</i> -diazirine	653
$C_2H_3ClN_2$	Hydrogen cyanide – hydrogen chloride (2/1)	654
C_2H_3ClO	Acetyl chloride	655
C_2H_3ClO	Chloroacetaldehyde	656
C_2H_3ClOS	<i>S</i> -Methyl chloromethanethioate	657
$C_2H_3ClO_2$	Methyl chloroformate	658
$C_2H_3ClO_2$	Chloroacetic acid	659
$C_2H_3ClO_2S$	Ethenesulfonyl chloride	660
C_2H_3ClSi	Silylchloroacetylene	661
$C_2H_3Cl_2OP$	Ethenylphosphonic dichloride	662
$C_2H_3Cl_2P$	Vinyldichlorophosphine	663
$C_2H_3Cl_3$	1,1,1-Trichloroethane	664
$C_2H_3Cl_3$	1,1,2-Trichloroethane	665
$C_2H_3Cl_3Si$	Trichloro(ethenyl)silane	666
C_2H_3F	Vinyl fluoride	667
C_2H_3F	Acetylene – hydrogen fluoride (1/1)	668
$C_2H_3FN_2$	Hydrogen cyanide – hydrogen fluoride (2/1)	669
C_2H_3FO	Acetyl fluoride	670
$C_2H_3FOS_2$	Methyl fluorocarbonyl disulfide	671
$C_2H_3FO_2$	Hydroxyacetyl fluoride	672
$C_2H_3FO_2$	Fluoroacetic acid	673
$C_2H_3FO_2$	Methyl fluoroformate	674
$C_2H_3FO_2$	Fluoromethyl formate	675
$C_2H_3FO_3$	2-Fluoro-1,3,4-trioxolane	676
$C_2H_3F_3$	1,1,1-Trifluoroethane	677
$C_2H_3F_3$	1,1,2-Trifluoroethane	678
$C_2H_3F_3Hg$	Methyl(trifluoromethyl)mercury	679
$C_2H_3F_3N_2$	<i>trans</i> -1,1,1-Trifluoroazomethane	680
$C_2H_3F_3O$	2,2,2-Trifluoroethanol	681
$C_2H_3F_3O$	Trifluoromethoxymethane	682

C ₂ H ₃ F ₅ S	Ethenylpentafluorosulfur	683
C ₂ H ₃ F ₇ S	Methyl(trifluoromethyl)sulfur tetrafluoride	684
C ₂ H ₃ HgN	Methylmercury cyanide	685
C ₂ H ₃ I	Vinyl iodide	686
C ₂ H ₃ IO	Acetyl iodide	687
C ₂ H ₃ N	Ethenimine	688
C ₂ H ₃ N	Acetonitrile	689
C ₂ H ₃ N	Methyl isocyanide	690
C ₂ H ₃ NO	Acetonitrile <i>N</i> -oxide	691
C ₂ H ₃ NO	Methyl cyanate	692
C ₂ H ₃ NO	Methyl isocyanate	693
C ₂ H ₃ NO	Formaldehyde – hydrogen cyanide (1/1)	694
C ₂ H ₃ NO	Nitrosoethylene	695
C ₂ H ₃ NO ₂	Nitroethene	696
C ₂ H ₃ NO ₃ S	Acetonitrile – sulfur trioxide (1/1)	697
C ₂ H ₃ NS	Methyl thiocyanate	698
C ₂ H ₃ NS	Methyl isothiocyanate	699
C ₂ H ₃ NSe	Methyl selenocyanate	700
C ₂ H ₃ NSe	Methyl isoselenocyanate	701
C ₂ H ₃ N ₃	Vinyl azide	702
C ₂ H ₃ N ₃	<i>2H</i> -1,2,3-Triazole	703
C ₂ H ₃ N ₃	<i>1H</i> -1,2,4-Triazole	704
C ₂ H ₃ N ₃	Cyanogen – ammonia (1/1)	705
C ₂ H ₃ N ₅	3-Amino- <i>s</i> -tetrazine	706
C ₂ H ₃ O ⁻	Acetaldehyde enolate anion	707
C ₂ H ₃ O	Formylmethyl radical	708
C ₂ H ₃ P	Ethynylphosphine	709
C ₂ H ₃ P	Ethylidynephosphine	710

Two Carbon and four Hydrogen Atoms:

C ₂ H ₄	Ethylene	711
C ₂ H ₄ ⁺	Ethylene(1+) ion	712
C ₂ H ₄ ArO	Oxirane – argon (1/1)	713
C ₂ H ₄ ArO	Acetaldehyde – argon (1/1)	714
C ₂ H ₄ ArS	Thiirane – argon 1/1)	715
C ₂ H ₄ AsBrO ₂	2-Bromo-1,3,2-dioxarsolane	716
C ₂ H ₄ AsBrS ₂	2-Bromo-1,3,2-dithiarsolane	717
C ₂ H ₄ AsClO ₂	2-Chloro-1,3,2-dioxarsolane	718
C ₂ H ₄ Br	Bromoethyl radical	719
C ₂ H ₄ BrCl	1-Bromo-2-chloroethane	720
C ₂ H ₄ BrF	1-Bromo-2-fluoroethane	721
C ₂ H ₄ Br ₂	1,2-Dibromoethane	722
C ₂ H ₄ ClF	1-Chloro-2-fluoroethane	723
C ₂ H ₄ ClF	Vinyl fluoride – hydrogen chloride (1/1)	724
C ₂ H ₄ CIN	1-Chloroaziridine	725
C ₂ H ₄ CIN	Acetonitrile – hydrogen chloride (1/1)	726
C ₂ H ₄ CIN	Methyl isocyanide – hydrogen chloride (1/1)	727
C ₂ H ₄ CINO	2-Chloroacetamide	728
C ₂ H ₄ CINO	(<i>E</i>)-(Chloroacetaldehyde oxime)	729
C ₂ H ₄ CINO	(<i>Z</i>)-(Chloroacetaldehyde oxime)	730
C ₂ H ₄ ClOPS	3-Chloro-1,3-thiaphosphetane 3-oxide	731
C ₂ H ₄ ClO ₂ P	2-Chloro-1,3,2-dioxaphospholane	732
C ₂ H ₄ ClO ₃ P	2-Chloro-1,3,2-dioxaphospholane 2-oxide	733
C ₂ H ₄ CIPS ₂	2-Chloro-1,3,2-dithiaphospholane	734
C ₂ H ₄ CIPS ₃	2-Chloro-1,3,2-dithiaphospholane 2-sulfide	735
C ₂ H ₄ Cl ₂	1,1-Dichloroethane	736
C ₂ H ₄ Cl ₂	1,2-Dichloroethane	737
C ₂ H ₄ Cl ₂	Ethene – dichlorine (1/1)	738
C ₂ H ₄ Cl ₂ N ₂ O ₂	<i>N</i> -Nitrobis(chloromethyl)amine	739
C ₂ H ₄ Cl ₂ O	Dichloromethyl methyl ether	740
C ₂ H ₄ Cl ₂ O	Bis(chloromethyl) ether	741
C ₂ H ₄ Cl ₄ Si ₂	1,1,3,3-Tetrachloro-1,3-disilacyclobutane	742
C ₂ H ₄ FN	Acetonitrile – hydrogen fluoride (1/1)	743
C ₂ H ₄ FNO	2-Fluoroacetamide	744
C ₂ H ₄ F ₂	1,1-Difluoroethane	745
C ₂ H ₄ F ₂	1,2-Difluoroethane	746
C ₂ H ₄ F ₂ O	2,2-Difluoroethanol	747
C ₂ H ₄ F ₃ N	2,2,2-Trifluoroethylamine	748
C ₂ H ₄ Ge	Germylacetylene	749
C ₂ H ₄ INO	2-Iodoacetamide	750
C ₂ H ₄ I ₂	1,2-Diiodoethane	751
C ₂ H ₄ N ₂	Formaldehyde azine	752
C ₂ H ₄ N ₂	Aminoacetonitrile	753
C ₂ H ₄ N ₂	3-Methyl-3 <i>H</i> -diazirine	754
C ₂ H ₄ N ₂ O	Hydrogen cyanide – water (2/1)	755

C ₂ H ₄ O	Acetaldehyde	756
C ₂ H ₄ O	Vinyl alcohol	757
C ₂ H ₄ O	Oxirane	758
C ₂ H ₄ O	Acetylene – water (1/1)	759
C ₂ H ₄ OS	<i>O</i> -Methyl thioformate	760
C ₂ H ₄ OS	<i>S</i> -Methyl thioformate	761
C ₂ H ₄ OS	Thiirane 1-oxide	762
C ₂ H ₄ OS	Mercaptoacetaldehyde	763
C ₂ H ₄ OS ₂	1,3-Dithiacyclobutane 1-oxide	764
C ₂ H ₄ O ₂	Formaldehyde dimer	765
C ₂ H ₄ O ₂	Methyl formate	766
C ₂ H ₄ O ₂	Acetic acid	767
C ₂ H ₄ O ₂	Glycolaldehyde	768
C ₂ H ₄ O ₂	Methanol – carbon monoxide (1/1)	769
C ₂ H ₄ O ₂ S	Ethylene sulfone	770
C ₂ H ₄ O ₂ S	Ethylene – sulfur dioxide (1/1)	771
C ₂ H ₄ O ₃	Glycolic acid	772
C ₂ H ₄ O ₃	1,2,4-Trioxacyclopentane	773
C ₂ H ₄ O ₃	1,2,3-Trioxolane	774
C ₂ H ₄ O ₃	Ethylene – ozone (1/1)	775
C ₂ H ₄ O ₃ S	Ethylene sulfite	776
C ₂ H ₄ O ₃ Se	Ethylene selenite	777
C ₂ H ₄ O ₄	Formic acid dimer	778
C ₂ H ₄ O ₄ Si	Bis(formyloxy)silane	779
C ₂ H ₄ S	Ethenethiol	780
C ₂ H ₄ S	Thioacetaldehyde	781
C ₂ H ₄ S	Ethylene sulfide	782
C ₂ H ₄ S ₃	1,2,4-Trithiolane	783
C ₂ H ₄ Se	Selenoacetaldehyde	784
C ₂ H ₄ Si	Ethynylsilane	785

Two Carbon and five Hydrogen Atoms:

C ₂ H ₅ BF ₂	Ethyl difluoroborane	786
C ₂ H ₅ BO ₂	1,3,2-Dioxaborolane	787
C ₂ H ₅ B ₃	1,5-Dicarba- <i>closo</i> -pentaborane(5)	788
C ₂ H ₅ B ₄ Cl	2-Chloro-1,6-dicarba- <i>closo</i> -hexaborane(6)	789
C ₂ H ₅ Br	Ethyl bromide	790
C ₂ H ₅ BrO	2-Bromoethanol	791
C ₂ H ₅ BrO	Oxirane - hydrogen bromide (1/1)	792
C ₂ H ₅ BrO ₂ S	Bromomethyl methyl sulfone	793
C ₂ H ₅ BrS	Thiirane - hydrogen bromide (1/1)	794
C ₂ H ₅ Cl	Ethyl chloride	795
C ₂ H ₅ Cl	Ethylene – hydrogen chloride (1/1)	796
C ₂ H ₅ ClN ₂ O ₂	<i>N</i> -Chloromethyl- <i>N</i> -nitromethylamine	797
C ₂ H ₅ ClO	Chloromethoxymethane	798
C ₂ H ₅ ClO	2-Chloroethanol	799
C ₂ H ₅ ClO	Oxirane – hydrogen chloride (1/1)	800
C ₂ H ₅ ClS	Chloromethyl methyl sulfide	801
C ₂ H ₅ ClS	Thiirane – hydrogen chloride (1/1)	802
C ₂ H ₅ ClSi	Chloro(vinyl)silane	803
C ₂ H ₅ Cl ₂ P	Ethyl dichlorophosphine	804
C ₂ H ₅ Cl ₂ PS	Ethylphosphonothioic dichloride	805
C ₂ H ₅ F	Fluoroethane	806
C ₂ H ₅ F	Ethylene – hydrogen fluoride (1/1)	807
C ₂ H ₅ FO	2-Fluoroethanol	808
C ₂ H ₅ FO	Fluoromethoxymethane	809
C ₂ H ₅ FO	Oxirane – hydrogen fluoride (1/1)	810
C ₂ H ₅ FSi	Fluoro(vinyl)silane	811
C ₂ H ₅ F ₂ N	2,2-Difluoroethylamine	812
C ₂ H ₅ F ₂ P	Ethyl difluorophosphine	813
C ₂ H ₅ F ₂ PS	(Ethylthio)difluorophosphine	814
C ₂ H ₅ F ₂ PS	Ethylphosphonothioic difluoride	815
C ₂ H ₅ GeN	Methylgermyl cyanide	816
C ₂ H ₅ I	Ethyl iodide	817
C ₂ H ₅ IO	2-Iodoethanol	818
C ₂ H ₅ IO	Iodomethyl methyl ether	819
C ₂ H ₅ N	Vinylamine	820
C ₂ H ₅ N	(<i>Z</i>)-Ethanamine	821
C ₂ H ₅ N	(<i>E</i>)-Ethanamine	822
C ₂ H ₅ N	<i>N</i> -Methylenemethanamine	823
C ₂ H ₅ N	Ethylenimine	824
C ₂ H ₅ N	Methane – hydrogen cyanide (1/1)	825
C ₂ H ₅ N	Acetylene – ammonia (1/1)	826
C ₂ H ₅ NO	Acetamide	827
C ₂ H ₅ NO	<i>N</i> -Methylformamide	828
C ₂ H ₅ NO	Nitrosoethane	829
C ₂ H ₅ NO	Acetonitrile – water (1/1)	830
C ₂ H ₅ NO	Methanol– hydrogen cyanide (1/1)	831

C_2H_5NOSi	Methylsilyl isocyanate	832
$C_2H_5NO_2$	Nitroethane	833
$C_2H_5NO_2$	Ethyl nitrite	834
$C_2H_5NO_2$	Glycine	835
$C_2H_5NO_3$	Ethyl nitrate	836
C_2H_5NS	Thioacetamide	837
C_2H_5NSSi	Methylsilyl isothiocyanate	838
C_2H_5NSi	Methylsilanecarbonitrile	839
$C_2H_5N_3$	Hydrogen cyanide – ammonia (2/1)	840
C_2H_5O	Ethoxyl	841
C_2H_5P	Phosphirane	842
C_2H_5P	Vinylphosphine	843

Two Carbon and six Hydrogen Atoms:

C ₂ H ₆	Ethane	844
C ₂ H ₆ AsF ₃ Si	Dimethyl(trifluorosilyl)arsine	845
C ₂ H ₆ BCl ₂ N	(Dimethylamino)dichloroborane	846
C ₂ H ₆ BF ₃ O	Dimethyl ether – boron trifluoride (1/1)	847
C ₂ H ₆ BN	Methyl isocyanide – borane (1/1)	848
C ₂ H ₆ BN ₃	Azidodimethylborane	849
C ₂ H ₆ B ₂ S ₃	3,5-Dimethyl-1,2,4,3,5-trithiadiborolane	850
C ₂ H ₆ B ₄	1,6-Dicarba- <i>closo</i> -hexaborane(6)	851
C ₂ H ₆ B ₄	1,2-Dicarba- <i>closo</i> -hexaborane(6)	852
C ₂ H ₆ B ₃ F	5-Fluoro-2,4-dicarbaheptaborane(7)	853
C ₂ H ₆ Be	Dimethylberyllium	854
C ₂ H ₆ Br ₂ Ge	Dimethylgermanium dibromide	855
C ₂ H ₆ Cd	Dimethylcadmium	856
C ₂ H ₆ CIN	<i>N</i> -Chloro- <i>N</i> -methylmethanamine	857
C ₂ H ₆ CINO ₂ S	Dimethylsulfamoyl chloride	858
C ₂ H ₆ ClO ₂ PS	<i>O,O'</i> -Dimethyl phosphonochloridothioate	859
C ₂ H ₆ Cl ₂ Ge	Dichlorodimethylgermane	860
C ₂ H ₆ Cl ₂ NOP	(Dimethylamino)dichlorophosphine oxide	861
C ₂ H ₆ Cl ₂ NP	(Dimethylamino)dichlorophosphine	862
C ₂ H ₆ Cl ₂ Si	Dichlorodimethylsilane	863
C ₂ H ₆ Cl ₂ Sn	Dichlorodimethylstannane	864
C ₂ H ₆ Cl ₃ NSi	<i>N</i> -(Trichlorosilyl)dimethylamine	865
C ₂ H ₆ Cl ₄ Ga ₂	Di- μ -chloro-bis[chloromethylgallium(III)]	866
C ₂ H ₆ FN	<i>N</i> -Fluorodimethylamine	867
C ₂ H ₆ FN	2-Fluoroethylamine	868
C ₂ H ₆ FO ₂ P	Methyl methylphosphonofluoridate	869
C ₂ H ₆ FPS	Fluorodimethylphosphine sulfide	870
C ₂ H ₆ F ₂ Ge	Difluorodimethylgermane	871
C ₂ H ₆ F ₂ NP	(Dimethylamino)difluorophosphine	872
C ₂ H ₆ F ₂ Si	Difluorodimethylsilane	873
C ₂ H ₆ F ₃ NS	(Dimethylamino)trifluorosulfur(IV)	874
C ₂ H ₆ F ₃ NSi	<i>N</i> -(Trifluorosilyl)dimethylamine	875
C ₂ H ₆ F ₃ P	Dimethylphosphorus trifluoride	876
C ₂ H ₆ F ₆ N ₂ P ₂	2,2,2,4,4,4-Hexafluoro-2,2,4,4-tetrahydro-	877
C ₂ H ₆ Ge	Vinylgermane	878
C ₂ H ₆ GeOS	Germyl thioacetate	879
C ₂ H ₆ GeO ₂	Germyl acetate	880
C ₂ H ₆ Hg	Dimethylmercury	881
C ₂ H ₆ N ₂	<i>cis</i> -Azomethane	882
C ₂ H ₆ N ₂	<i>trans</i> -Azomethane	883
C ₂ H ₆ N ₂	3-Methyldiaziridine	884
C ₂ H ₆ N ₂ O	<i>N</i> -Nitrosodimethylamine	885
C ₂ H ₆ N ₂ O ₂	<i>N</i> -Nitrodimethylamine	886
C ₂ H ₆ N ₂ O ₂	<i>N</i> -Methyl- <i>N'</i> -methoxydiazene <i>N</i> -oxide	887
C ₂ H ₆ N ₂ S	<i>N,N'</i> -Dimethylsulfur diimide	888
C ₂ H ₆ O	Ethanol	889

C_2H_6O	Dimethyl ether	890
C_2H_6O	Ethylene – water (1/1)	891
C_2H_6OS	Dimethyl sulfoxide	892
C_2H_6OS	2-Mercaptoethanol	893
C_2H_6OSSi	Silyl thioacetate	894
$C_2H_6O_2$	Dimethyl peroxide	895
$C_2H_6O_2$	1,2-Ethanediol	896
$C_2H_6O_2S$	Dimethyl sulfone	897
$C_2H_6O_2S_2$	Dimethoxydisulfane	898
$C_2H_6O_2Si$	Silyl acetate	899
$C_2H_6O_3S$	Dimethyl ether – sulfur dioxide (1/1)	900
$C_2H_6O_4S$	Dimethyl sulfate	901
C_2H_6S	Dimethyl sulfide	902
C_2H_6S	Ethanethiol	903
$C_2H_6S_2$	Dimethyl disulfide	904
$C_2H_6S_2$	1,2-Ethanedithiol	905
C_2H_6Se	Ethaneselenol	906
C_2H_6Se	Dimethyl selenide	907
$C_2H_6Se_2$	Dimethyl diselenide	908
C_2H_6Si	Vinylsilane	909
$C_2H_6Si_2$	Disilylacetylene	910
C_2H_6Te	Dimethyl telluride	911
$C_2H_6Te_2$	Dimethylditellurane	912
C_2H_6Zn	Dimethylzinc	913

Two Carbon and seven Hydrogen Atoms:

$C_2H_7BN_4$	1,3-Dihydro-1,4-dimethyl-5 <i>H</i> -tetrazaborole	914
$C_2H_7B_5$	2,4-Dicarba- <i>closo</i> -heptaborane(7)	915
C_2H_7ClSi	Chlorodimethylsilane	916
C_2H_7ClSi	Ethylchlorosilane	917
$C_2H_7Cl_2NSi$	(Dimethylamino)dichlorosilane	918
C_2H_7FSi	Ethylfluorosilane	919
C_2H_7N	Dimethylamine	920
C_2H_7N	Ethylamine	921
C_2H_7NO	<i>N,O</i> -Dimethylhydroxylamine	922
C_2H_7NO	2-Aminoethanol	923
C_2H_7NOS	<i>S,S</i> -Dimethylsulfoximine	924
$C_2H_7NO_2$	Methanol – formamide (1/1)	925
$C_2H_7NO_2$	<i>N</i> -Methoxy- <i>O</i> -methylhydroxylamine	926
$C_2H_7NO_2S$	Dimethylamine – sulfur dioxide (1/1)	927
C_2H_7NS	2-Aminoethanethiol	928
C_2H_7P	Dimethylphosphine	929
C_2H_7P	Ethylphosphine	930

Two Carbon and eight Hydrogen Atoms:

$C_2H_8B_6$	1,7-Dicarba- <i>closo</i> -octaborane(8)	931
C_2H_8BrNSi	(Dimethylamino)bromosilane	932
C_2H_8ClNSi	(Dimethylamino)chlorosilane	933
C_2H_8Ge	Dimethylgermane	934
C_2H_8Ge	Ethylgermane	935
C_2H_8INSi	(Dimethylamino)iodosilane	936
$C_2H_8N_2$	1,1-Dimethylhydrazine	937
$C_2H_8N_2$	1,2-Dimethylhydrazine	938
$C_2H_8N_2$	1,2-Ethanediamine	939
$C_2H_8N_2S$	Diimidodimethylsulfur	940
C_2H_8OSi	(Methoxymethyl)silane	941
$C_2H_8O_2$	Methanol dimer	942
C_2H_8Si	Ethylsilane	943
C_2H_8Si	Dimethylsilane	944
$C_2H_8Si_2$	1,3-Disilacyclobutane	945
C_2H_8Sn	Dimethylstannane	946
C_2H_8Sn	Ethylstannane	947

Two Carbon and nine or more Hydrogen Atoms:

$C_2H_9B_7$	1,6-Dicarba- <i>closo</i> -nonaborane(9)	948
C_2H_9NO	Dimethylamine – water (1/1)	949
C_2H_9NSi	<i>N</i> -Silyldimethylamine	950
C_2H_9PSi	Dimethylsilylphosphine	951
$C_2H_{10}AlB$	Dimethylaluminum tetrahydroborate	952
$C_2H_{10}BGa$	Dimethylgallium tetrahydroborate	953
$C_2H_{10}BP$	Ethylphosphine – borane (1/1)	954
$C_2H_{10}BP$	Dimethylphosphine – borane (1/1)	955
$C_2H_{10}B_2$	1,1-Dimethyldiborane(6)	956
$C_2H_{10}B_2$	<i>cis</i> -1,2-Dimethyldiborane(6)	957
$C_2H_{10}B_2$	<i>trans</i> -1,2-Dimethyldiborane(6)	958
$C_2H_{10}B_8$	1,2-Dicarba- <i>closo</i> -decaborane(10)	959
$C_2H_{10}B_8$	1,10-Dicarba- <i>closo</i> -decaborane(10)	960
$C_2H_{10}B_{10}Cl_2$	1,7-Dichloro-1,7-dicarba- <i>closo</i> -dodecaborane(12)	961
$C_2H_{10}B_{10}I_2$	5,12-Diiodo-1,7-dicarba- <i>closo</i> -dodecaborane(12)	962
$C_2H_{10}B_{10}I_2$	1,7-diiodo-1,7-dicarba- <i>closo</i> -dodecaborane(10)	963
$C_2H_{10}B_{10}I_2$	1,12-Diiodo-1,12-dicarba- <i>closo</i> -dodecaborane (10)	964
$C_2H_{10}OSi_2$	1,3-Dimethyldisiloxane	965
$C_2H_{10}SSi_2$	Bis(methylsilyl) sulfide	966
$C_2H_{11}B_2N$	Dimethylaminodiborane	967
$C_2H_{11}NSi_2$	<i>N</i> -Ethyl- <i>N</i> -silylsilanamine	968
$C_2H_{12}B_4$	2,4-(1,2-Ethanediy)tetraaborane(10)	969
$C_2H_{12}B_{10}$	1,2-Dicarba- <i>closo</i> -dodecaborane(12)	970
$C_2H_{12}B_{10}$	1,7-Dicarba- <i>closo</i> -dodecaborane(12)	971
$C_2H_{12}B_{10}$	1,12-Dicarba- <i>closo</i> -dodecaborane(12)	972
$C_2H_{14}AlB_3$	Dimethylaluminum octahydrotriborate	973
$C_2H_{14}B_3Ga$	Dimethylgallium octahydrotriborate	974

**Two Carbon and no Hydrogen Atoms,
with Atoms I, N, O or Si:**

C_2I_4	Tetraiodoethene	975
C_2N	Carbocyanide radical	976
C_2N	Carboisocyanide radical	977
C_2NP	Phosphinidyne acetonitrile	978
C_2N_2	Cyanogen	979
C_2N_2	Isocyanogen	980
C_2N_2O	Cyanogen isocyanate	981
$C_2N_2O_2$	Oxalonitrile di- <i>N</i> -oxide	982
C_2N_2S	Sulfur dicyanide	983
C_2N_4	Azodicarbonitrile	984
C_2O	Dicarbon monoxide	985
C_2O_2	Carbon monoxide dimer	986
C_2O_2S	Carbonyl sulfide – carbon monoxide(1/1)	987
$C_2O_2S_2$	Carbonyl sulfide dimer	988
C_2O_3	Carbon monoxide – carbon dioxide (1/1)	989
C_2O_3S	Carbonyl sulfide – carbon dioxide (1/1)	990
C_2O_4	Carbon dioxide dimer	991
C_2Si	Silicon dicarbide	992