

SEMI AUX030-0124

CODES FOR REFERENCING GASES, GAS MIXTURES AND VAPORIZABLE MATERIALS USED IN DIGITAL MASS FLOW CONTROLLERS

NOTE: The material in this Auxiliary Document is referenced in SEMI E6, SEMI E54.18, SEMI E54.22, SEMI F79, and SEMI F105.

The codes listed in these Tables are included for the convenience of the industry and are maintained by SEMI. Request for new gas code should be submitted along with a Material Safety Data Sheet (MSDS). Changes or additions to these tables are the responsibility of companies in the semiconductor industry, and should be addressed to:

Standards Coordinator, Facilities and Gases Committees
SEMI
673 S. Milpitas Blvd.
Milpitas, CA 95035

These tables are frequently updated.

1 Purpose

1.1 To provide a numerical index of gases and gas mixtures used in the semiconductor industry that will give an ordered reference for the gases and gas mixtures when used in mass flow devices. This index or list will facilitate the production and use of digital mass flow devices.

2 Scope

2.1 The list includes gases, gas mixtures, and vaporizable materials that can be used in mass flow devices. The list will supplement, not replace, existing DOT/OSHA or other identification systems. For ease of use, the list is presented sorted by gas code, gas name, and symbol for gases and vaporizable materials and by code and mixture percentage for gas mixtures.

NOTICE: SEMI Standards and Safety Guidelines do not purport to address all safety issues associated with their use. It is the responsibility of the users of the Documents to establish appropriate safety and health practices, and determine the applicability of regulatory or other limitations prior to use.

3 Limitations

3.1 This list does not provide information related to the safe use and intended application of listed materials.

4 Referenced Standards and Documents

4.1 *NIST® Standards*¹

NIST AD732-043 — JANAF Thermochemical Tables, 2nd Edition

4.2 *Miscellaneous Publications*

Dangerous Properties of Industrial Materials, 5th Edition, N. Irving Sax, © 1979²

Encyclopedia of Gas, Air Liquide, © 1976³

Matheson Gas Data Book, 6th Edition, © 1980⁴

¹ National Institute of Standards and Technology, 100 Bureau Drive, Stop 3460, Gaithersburg, MD 20899-3460, USA; Telephone: +1.301.975.2000, <http://www.nist.gov>. NIST trademark is owned by National Institute of Standards and Technology.

² CRC Press LLC, (Headquarters) 2000 Corporate Blvd., NW, Boca Raton, FL 33431, USA. Telephone: +1.561.994.0555.

³ Litton Publishing.

⁴ Matheson Gas Products, Inc., 959 Route 46 East, P.O. Box 624, Parsippany, NJ 07054, USA. Telephone: +1.973.257.1100.

The Merck Manual Index, 6th Edition⁵

4.3 Data Sheets

Air Products & Chemicals Data Sheet, © 1991⁶

American Cyanamid Data Sheet⁷

Callery Chemical Borazine Data Sheet, © 1984⁸

DuPont Data Sheet⁹

Schumacher Material Safety Data Sheet, No. R&D 49.3 JN, Revision Date 1/95¹⁰

Schumacher Product Data Sheet, No. 23, Revision 3¹⁰

Air Liquide/Aloha Product Data Sheet March 2005¹¹

4.4 Handbooks

Chemical Engineers' Handbook, 5th Edition¹²

CRC Handbook of Chemistry and Physics, 75th Edition, © 1994¹³

4.5 Other Documents

Nomenclature of Organic Chemistry, authored by International Union of Pure and Applied Chemistry (IUPAC), edited by J. Rigaudy, © 1979¹⁴

Chemical Book — Online directory of Chemicals¹⁵

NOTICE: Unless otherwise indicated, all documents cited shall be the latest published versions.

5 Terminology

5.1 Definitions

5.1.1 *formula* — the structural representation of a gas, indicating the molecular groupings. Formulas are unique and unambiguous except in the case of isomers.

5.1.2 *gas code* — an integer that is uniquely associated with a particular gas.

5.1.3 *gas name* — the accepted name for a gas as specified in *Nomenclature of Organic Chemistry*.

5.1.4 *symbol* — commonly accepted, unambiguous, and unique identification using ASCII characters with no subscripts, superscripts, or parentheses.

⁵ This publication is available from Franklin Electronic Publishers, 1 Franklin Plaza, Burlington, NJ 08060, USA. Telephone: +1.800.266.5626.

⁶ Air Products & Chemicals Inc., Rural Route 1, Tamaqua, PA 18252, USA. Telephone: +1.717.467.2981.

⁷ American Cyanamid Company, CALI Corporation Center, 50 Tice Blvd., Woodcliff Lake, NJ 07675, USA. Telephone: +1.201.930.0455.

⁸ Callery Chemical Company, P.O. Box 429, Pittsburgh, PA 15230, USA. Telephone: +1.412.967.4100.

⁹ E.I. du Pont de Nemours and Company, 1007 Market St., Wilmington, DE 19898, USA. Telephone: +1.302.774.1000.

¹⁰ Schumacher, 1969 Palomar Oaks Way, Carlsbad, CA 92009-1307, USA. Telephone: +1.619.931.9555.

¹¹ AIR LIQUIDE S.A., Tour AREVA 1 place de la Coupole, 92084, Paris.

¹² McGraw-Hill Inc., Princeton Rd., Hightstown, NJ 08520, USA. Telephone: +1.609.426.5934.

¹³ CRC Press LLC Headquarters, 2000 NW Corporate Blvd, Boca Raton, FL 33431, USA. Telephone: +1.561.994.0555; Fax: +1.561.989.9732.

¹⁴ This publication is available from Franklin Book Company, 7804 Montgomery Ave., Elkon's Park, PA 19027, USA. Telephone: +1.215.635.5252.

¹⁵ <http://www.chemicalbook.com>

6 Gas Table Sorted by Code

Table 1 Gases Sorted by Code

<i>Code</i>	<i>Gas Name</i>	<i>Symbol</i>	<i>Formula</i>	<i>Synonym</i>	<i>Ref</i>
1	Helium	He	He		1
2	Neon	Ne	Ne		1
3	Radon	Rn	Rn		2
4	Argon	Ar	Ar		1
5	Krypton	Kr	Kr		1
6	Xenon	Xe	Xe		1
7	Hydrogen	H2	H ₂		1
8	Air	Air			1
9	Carbon Monoxide	CO	CO		1
10	Hydrogen Bromide	HBr	HBr		1
11	Hydrogen Chloride	HCl	HCl		1
12	Hydrogen Fluoride	HF	HF		1
13	Nitrogen	N2	N ₂		1
14	Deuterium	D2	H ₂ ²	D2	2
15	Oxygen	O2	O ₂		1
16	Nitric Oxide	NO	NO		2
17	Hydrogen Iodide	HI	HI		1
18	Fluorine	F2	F ₂		1
19	Chlorine	Cl2	Cl ₂		1
20	Water Vapor	H2O	H ₂ O		2
21	Bromine	Br2	Br ₂		2
22	Hydrogen Sulfide	H2S	H ₂ S		1
23	Hydrogen Selenide	H2Se	H ₂ Se		1
24	Hydrogen Cyanide	HCN	HCN		1
25	Carbon Dioxide	CO2	CO ₂		1
26	Nitrogen Dioxide	NO2	NO ₂		1
27	Nitrous Oxide	N2O	N ₂ O		1
28	Methane	CH4	CH ₄		1
29	Ammonia	NH3	NH ₃		1
30	Ozone	O3	O ₃		1
31	Phosphine	PH3	PH ₃		1
32	Sulfur Dioxide	SO2	SO ₂		1
33	Methyl Fluoride	CH3F	CH ₃ F	Fluoromethane or Methane, Fluoro	1
34	Carbonyl Sulfide	COS	COS		1
35	Arsine	AsH3	AsH ₃		1
36	Methyl Chloride	CH3Cl	CH ₃ Cl	Chloromethane or Methane, Chloro	1
37	Cyanogen Chloride	CICN	CICN		1
38	Ethylene	C2H4	CH ₂ =CH ₂	Ethene	1

Code	Gas Name	Symbol	Formula	Synonym	Ref
39	Silane	SiH ₄	SiH ₄		1
40	Carbon Disulfide	CS ₂	CS ₂		2
41	Oxygen Difluoride	OF ₂	OF ₂		1
42	Acetylene	C ₂ H ₂	HC≡CH	Ethyne	1
43	Germane	GeH ₄	GeH ₄		1
44	Methyl Bromide	CH ₃ Br	CH ₃ Br	Bromomethane or Methane, Bromo	1
45	Ethylene Oxide	C ₂ H ₄ O	C ₂ H ₄ O	Oxirane, 1,2-epoxyethane	1
46	Carbonyl Fluoride	CF ₂ O	CF ₂ O		1
47	Methyl Mercaptan	CH ₄ S	CH ₃ SH		1
48	Boron Trifluoride	BF ₃	BF ₃		1
49	Fluoroform	CHF ₃	CHF ₃	Trifluoromethane or Methane, Trifluoro, F-23, R-23	1
50	Hydrazine	N ₂ H ₄	H ₂ NNH ₂		2
51	Vinyl Fluoride	C ₂ H ₃ F	H ₂ C=CHF		1
52	Methylamine	CH ₅ N	CH ₃ NH ₂	Amino Methane, Monomethylamine	2
53	Nitrogen Trifluoride	NF ₃	NF ₃		1
54	Ethane	C ₂ H ₆	CH ₃ CH ₃		1
55	Vinyl Chloride	C ₂ H ₃ Cl	CH ₂ =CHCl	Chloroethylene	1
56	Vinyl Bromide	C ₂ H ₃ Br	CH ₂ =CHBr		1
57	Chlorodifluoromethane	CHClF ₂	CClHF ₂	F-22, R-22	1
58	Diborane	B ₂ H ₆	B ₂ H ₆		1
59	Cyanogen	C ₂ N ₂	NCCN	Oxalodinitrile	1
60	Phosgene	CCl ₂ O	CCl ₂ O	Carbonyl chloride	1
61	Cyclopropane	C ₃ H ₆	C ₃ H ₆		1
62	Phosphorus Trifluoride	PF ₃	PF ₃		1
63	Carbon Tetrafluoride	CF ₄	CF ₄	Tetrafluoromethane or Methane, Tetrafluoro	1
64	Difluoroethylene	C ₂ H ₂ F ₂	CH ₂ =CF ₂	G-1132A, Vinylidene fluoride	1
65	Dichlorodifluoromethane	CHCl ₂ F	CHCl ₂ F	F-21, R-21	1
66	Allene	C ₃ H ₄	CH ₂ =C=CH ₂	Propadiene	1
67	Dichlorosilane	SiH ₂ Cl ₂	SiH ₂ Cl ₂		1
68	Methyl Acetylene	C ₃ H ₄	CH ₃ C≡CH	Propyne	1
69	Propylene	C ₃ H ₆	CH ₃ CH=CH ₂	Propene	1
70	Boron Trichloride	BCl ₃	BCl ₃		1
71	Chloroform	CHCl ₃	CHCl ₃	Trichloromethane or Methane, Trichloro	2
72	Perchloryl Fluoride	ClO ₃ F	ClO ₃ F		1
73	Dimethyl Ether	C ₂ H ₆ O	CH ₃ OCH ₃	Methyl ether	1
74	Chlorotrifluoromethane	CClF ₃	ClCF ₃	F-13, R-13	1
75	Ethyl Chloride	C ₂ H ₅ Cl	C ₂ H ₅ Cl	Chloroethane or Ethane, Chloro or Ethyl Chloride	1
76	Bromine Trifluoride	BrF ₃	BrF ₃		1

Code	Gas Name	Symbol	Formula	Synonym	Ref
77	Chlorine Trifluoride	ClF ₃	ClF ₃		1
78	Nitrogen Trioxide	N ₂ O ₃	N ₂ O ₃		1
79	Boron Tribromide	BBr ₃	BBr ₃		1
80	Bromotrifluoromethane	CBrF ₃	BrCF ₃	F-13B1, R-13B1	1
81	Methyl vinyl ether	C ₃ H ₆ O	H ₃ C-O-CH=CH ₂		1
82	Difluoroethane	C ₂ H ₄ F ₂	CH ₃ CHF ₂	Ethylidene Fluoride, R-152A	1
83	Tribromomethane	CHBr ₃	CHBr ₃	Bromoform	2
84	Dichlorodifluoromethane	CCl ₂ F ₂	CCl ₂ F ₂	F-12, R-12	1
85	Dimethylamine	C ₂ H ₇ N	(CH ₃) ₂ NH		1
86	Sulfur Tetrafluoride	SF ₄	SF ₄		1
87	Sulfuryl Fluoride	SO ₂ F ₂	SO ₂ F ₂		1
88	Silicon Tetrafluoride	SiF ₄	SiF ₄		1
89	Propane	C ₃ H ₈	CH ₃ CH ₂ CH ₃		1
90	Intentionally Left Blank				
91	Trichlorofluoromethane	CCl ₃ F	CCl ₃ F	F-11, R-11	1
92	Intentionally Left Blank				
93	Ethyl Acetylene	C ₄ H ₆	CH ₃ CH ₂ C≡CH		1
94	Tetrafluoroethylene	C ₂ F ₄	F ₂ C=CF ₂		1
95	Nitrogen Tetroxide	N ₂ O ₄	N ₂ O ₄	Dinitrogenoxide	2
96	Arsenic Pentafluoride	AsF ₅	AsF ₅		2
97	Disilane	Si ₂ H ₆	Si ₂ H ₆		2
98	Transbutene	C ₄ H ₈	CH ₃ CH=CHCH ₃		2
99	Germanium Tetrafluoride	GeF ₄	GeF ₄	Tetrafluorogermane	2
100	Butadiene	C ₄ H ₆	CH ₂ =CH-CH=CH ₂	1,3-butadiene	1
101	Carbon Tetrachloride	CCl ₄	CCl ₄	Tetrachloromethane or Methane, Tetrachloro	2
102	Phosphorous Oxychloride	POCl ₃	POCl ₃		2
103	Difluorochloroethane	C ₂ H ₃ ClF ₂	CF ₂ ClCH ₃	F-142B, R-142B	1
104	Butene	C ₄ H ₈	CH ₃ CH ₂ CH=CH ₂	1-Butene	1
105	Bromotrifluoroethylene	C ₂ BrF ₃	CF ₂ CFBr		1
106	Isobutene	C ₄ H ₈	(CH ₃) ₂ C=CH ₂	Isobutylene, Methylpropene	2
107	Cisbutene	C ₄ H ₈	CH ₃ CH=CHCH ₃	Cis-2-Butene	2
108	Silicon Tetrachloride	SiCl ₄	SiCl ₄	Tetrachlorosilane	2
109	Trimethylamine	C ₃ H ₉ N	(CH ₃) ₃ N		1
110	Sulfur Hexafluoride	SF ₆	SF ₆		1
111	Isobutane	C ₄ H ₁₀	(CH ₃) ₂ CHCH ₃	2-Methylpropane or Propane, 2-Methyl	1
112	Trichloroethane	C ₂ H ₃ Cl ₃	CH ₃ CCl ₃	TCA, Methylchloroform	2
113	Germanium Tetrachloride	GeCl ₄	GeCl ₄	Tetrachlorogermane	2
114	Titanium Tetrachloride	TiCl ₄	TiCl ₄		2
115	Iodine Pentafluoride	IF ₅	IF ₅		1
116	Bromine Pentafluoride	BrF ₅	BrF ₅		1
117	Butane	C ₄ H ₁₀	CH ₃ (CH ₂) ₂ CH ₃		1

Code	Gas Name	Symbol	Formula	Synonym	Ref
118	Hexafluoroethane	C2F6	F ₃ CCF ₃	F-116, Perfluoroethane	1
119	Chloropentafluoroethane	C2ClF5	ClCF ₂ CF ₃	F-115, R-115	1
120	Methylbutene	C5H10	CH ₃ CH ₂ CCH ₃ =CH ₂	2-Methyl-1-Butene	1
121	Tungsten Hexafluoride	WF6	WF ₆		2
122	Dimethylpropane	C5H12	(CH ₃) ₄ C	Neopentane	2
123	Uranium Hexafluoride	UF6	UF ₆		2
124	Molybdenum Hexafluoride	MoF6	MoF ₆		2
125	Dichlorotetrafluoroethane	C2Cl2F4	F ₃ CCCl ₂ F	F-114, R-114	1
126	Trichlorotrifluoroethane	C2Cl3F3	CF ₂ ClCCl ₂ F	F-113, R-113	1
127	Hexane	C6H14	CH ₃ (CH ₂) ₄ CH ₃		2
128	Perfluoropropane	C3F8	CF ₂ (CF ₃) ₂		1
129	Octafluorocyclobutane	C4F8	(CF ₂) ₄	Perfluorocyclobutane or Cyclobutane, Perfluoro	1
130	Dibromotetrafluoroethane	C2Br2F4	BrF ₂ CCF ₂ Br	F-114B2, R-114B2	1
131	Trimethoxyborine	C3H9BO3	B(OCH ₃) ₃	TMB, Trimethyl borate	2
132	Trimethylphosphorous	C3H9P	(CH ₃) ₃ P	Trimethylphosphine, TMP	2
133	Trimethyl phosphite	C3H9PO3	(CH ₃ O) ₃ P	TMPI, Trimethoxyphosphine	2
134	Difluorosilane	SiH2F2	SiH ₂ F ₂		10
135	Dimethylzinc	C2H6Zn	(CH ₃) ₂ Zn		3
136	Ethanol	C2H6O	CH ₃ CH ₂ OH		2
137	Halothane	C2HBrClF3	BrClHCCF ₃		6
138	Hexafluoropropylene	C3F6	CF ₃ CF=CF ₂	Perfluoropropylene or Propylene, Perfluoro	1
139	Hexamethyldisilane	C6H18Si2	(CH ₃) ₃ Si ₂ (CH ₃) ₃	HMDSi, HMDS	3
140	Nickel Carbonyl	C4O4Ni	Ni(CO) ₄		1
141	Nitrosyl Chloride	NOCl	NOCl		1
142	Pentaborane	B5H9	B ₅ H ₉		2
143	Phosphorus Pentafluoride	PF5	PF ₅		1
144	Tetraethoxysilane	C8H20O4Si	(C ₂ H ₅ O) ₄ Si	TEOS	2
145	Tin Tetrachloride	SnCl4	SnCl ₄	Tetrachlorostannane	2
146	Tributylaluminum	C12H27Al	(CH ₃ CH ₂ CH ₂ CH ₂) ₃ Al	TBAI	3
147	Trichlorosilane	SiHCl3	SiHCl ₃		5
148	Triethylgallium	C6H15Ga	(C ₂ H ₅) ₃ Ga	TEGa	4
149	Trimethylaluminum	C3H9Al	Al(CH ₃) ₃	TMA, TMAI	4
150	Trimethylantimony	C3H9Sb	(CH ₃) ₃ Sb	Trimethylstibene	2
151	Trimethylarsenic	C3H9As	(CH ₃) ₃ As	Trimethylarsine, TMAs	2
152	Trimethylgallium	C3H9Ga	Ga(CH ₃) ₃	TMGa	4
153	Trimethylindium	C3H9In	(CH ₃) ₃ In	TMIn	3
154	Diethylsilane	C4H12Si	(C ₂ H ₅) ₂ SiH ₂		2
155	Pentafluoroethane	C2HF5	CF ₃ CHF ₂	F-125, R-125	9
156	Tetrafluoroethane	C2H2F4	CH ₂ FCF ₃	R-134A, F-134A	2
157	Tetrafluorohydrazine	N2F4	F ₂ NNF ₂	Dinitrogen Tetrafluoride	1
158	Tetramethylcyclotetra-siloxane	C4H16Si4O4	(CH ₃) ₄ H ₄ (SiO) ₄	TOMCATS	7

Code	Gas Name	Symbol	Formula	Synonym	Ref
159	Tritium	T2	H ₃ ²	T2	2
160	Difluoromethane	CH ₂ F ₂	CH ₂ F ₂	Methylene Fluoride	2
161	Tertiarybutylarsine	C ₄ H ₁₁ As	C(CH ₃) ₃ AsH ₂	TBA	8
162	Tertiarybutylphosphine	C ₄ H ₁₁ P	C(CH ₃) ₃ PH ₂	TBP	8
163	Triethyl borate	C ₆ H ₁₅ O ₃ B	B(OC ₂ H ₅) ₃	TEB, Triethoxyborane	2
164	Dimethylaluminum hydride	C ₂ H ₇ Al	(CH ₃) ₂ AlH	DMAH	14
165	Trimethylaminealane	C ₃ H ₁₂ AlN	(CH ₃) ₃ NAlH ₃	TMAA	12
166	Dimethylethylaminealane	C ₄ H ₁₄ NAl	(CH ₃) ₂ C ₂ H ₅ NAlH ₃	DMEAA	11
167	Nitric Acid	HNO ₃	HNO ₃		2
168	Tetrachloroethylene	C ₂ Cl ₄	Cl ₂ C=CCl ₂	Perchloroethylene or Ethylene, Perchloro	2
169	Ethyleneglycol	C ₂ H ₆ O ₂	HOCH ₂ CH ₂ OH	Ehtanediol, Glycol	2
170	Hexanediol-1,6	C ₆ H ₁₄ O ₂	HO(CH ₂) ₆ OH	Hexyleneglycol, Hexamethyleneglycol	2
171	Sulfuric Acid	H ₂ SO ₄	H ₂ SO ₄		2
172	Chlorobenzene	C ₆ H ₅ Cl	C ₆ H ₅ Cl	Chlorobenzol, Phenylchloride	2
173	Acetonitrile	C ₂ H ₃ N	CH ₃ CN		2
174	Ethylbenzene	C ₈ H ₁₀	C ₆ H ₅ C ₂ H ₅		2
175	Intentionally Left Blank				
176	Methanol	CH ₄ O	CH ₃ OH	Methyl Alcohol	2
177	Methylcyclohexane	C ₇ H ₁₄	CH ₃ C ₆ H ₁₁	Hexahydrotoluene	2
178	4-Methyl, 1-Pentene	C ₆ H ₁₂	(CH ₃) ₂ CHCH ₂ CH=CH ₂		2
179	o-Xylene	C ₈ H ₁₀	1,2-(CH ₃) ₂ C ₆ H ₄	1,2-Dimethylbenzene	2
180	Phenol	C ₆ H ₆ O	C ₆ H ₅ OH		2
181	Toluene	C ₇ H ₈	C ₆ H ₅ CH ₃	Methylbenzene	2
182	Tetrahydrofuran	C ₄ H ₈ O	C ₄ H ₈ O		2
183	Methyltrichlorosilane	CH ₃ Cl ₃ Si	CH ₃ SiCl ₃	MTS	2
184	Acetone	C ₃ H ₆ O	CH ₃ COCH ₃		2
185	Methylsilane	CH ₆ Si	CH ₃ SiH ₃	Monomethylsilane	2
186	2,2 Dichloro 1,1,1 Trifluoroethane	C ₂ HCl ₂ F ₃	CHCl ₂ -CF ₃	Freon 123, Suva 123	2
187	Isopropyl Alcohol	C ₃ H ₈ O	(CH ₃) ₂ CHOH	2-Propanol	2
188	Diethoxydimethylsilane	C ₆ H ₁₆ O ₂ Si	(C ₂ H ₅ O) ₂ Si(CH ₃) ₂		2
189	Sulfur Monochloride	S ₂ Cl ₂	S ₂ Cl ₂		2
190	Trimethylsilane	C ₃ H ₁₀ Si	(CH ₃) ₃ SiH		2
191	Dichloroethylene -trans	C ₂ H ₂ Cl ₂	CHCl=CHCl		2
192	Hexafluorobenzene	C ₆ F ₆	C ₆ F ₆		2
193	Phosphorus Trichloride	PCl ₃	PCl ₃		2
194	Titanium Tetraisopropoxide	C ₁₂ H ₂₈ O ₄ Ti	Ti(OC ₃ H ₇) ₄		1
195	Arsenic Trifluoride	AsF ₃	AsF ₃		2
196	Arsenic Triiodine	AsI ₃	AsI ₃		2
197	Benzene	C ₆ H ₆	C ₆ H ₆		2
198	Borazine	B ₃ N ₃ H ₆	H ₃ B ₃ N ₃ H ₃		11
199	Bromochlorodifluoromethane	CB ₂ ClF ₂	BrClCF ₂		2

Code	Gas Name	Symbol	Formula	Synonym	Ref
200	Carbon Tetrabromide	CBr ₄	CBr ₄		2
201	Chlorine Dioxide	ClO ₂	ClO ₂		2
202	Chlorine Pentafluoride	ClF ₅	ClF ₅		2
203	Chlorodifluoroethane	C ₂ H ₃ ClF ₂	CH ₃ -CF ₂ Cl	R-142b	4
204	Chlorodifluoroethylene	C ₂ HClF ₂	CF ₂ =CHCl	R-1122, FREON-1122	4
205	Chlorosilane	SiH ₃ Cl	SiH ₃ Cl		2
206	Chlorotrifluoroethylene	C ₂ ClF ₃	FCCl=CF ₂	R-1113, FREON-1113	2
207	Cyclobutane	C ₄ H ₈	C ₄ H ₈	Tetramethylene	2
208	Diazomethane	CH ₂ N ₂	CH ₂ N ₂	Acomethylene	2
209	Dibromodifluoromethane	CBr ₂ F ₂	Br ₂ CF ₂	R-12B2, FREON-12B2	2
210	Dichloroethylene	C ₂ H ₂ Cl ₂	CH ₂ =CCl ₂	Vinylidene Chloride	2
211	Dichloroethylene -cis	C ₂ H ₂ Cl ₂	CHCl=CHCl		2
212	Dichlorodimethylsilane	C ₂ H ₆ SiCl ₂	(CH ₃) ₂ SiCl ₂		2
213	Diethylamine	C ₄ H ₁₁ N	(C ₂ H ₅) ₂ NH		2
214	Diethylzinc	C ₄ H ₁₀ Zn	Zn(C ₂ H ₅) ₂		2
216	Arsenic Trichloride	AsCl ₃	AsCl ₃		2
217	Digermane	Ge ₂ H ₆	Ge ₂ H ₆		2
218	Dimethylcadmium	C ₂ H ₆ Cd	(CH ₃) ₂ Cd		2
219	Dimethylsilane	C ₂ H ₈ Si	(CH ₃) ₂ SiH ₂		2
220	Dimethyltellurium	C ₂ H ₆ Te	(CH ₃) ₂ Te		2
221	Ethyl Fluoride	C ₂ H ₅ F	CH ₃ CH ₂ F	Fluoroethane, R-161, FREON-161	2
222	Ethylene Dichloride	C ₂ H ₄ Cl ₂	ClCH ₂ CH ₂ Cl	1,2 Dichloroethane	2
223	Fluoroacetylene	C ₂ HF	FC≡CH		2
224	Fluorotriethoxysilane	C ₆ H ₁₅ OSiF	(C ₂ H ₅ O) ₃ SiF		2
225	Hexafluoroacetone	C ₃ F ₆ O	(CF ₃) ₂ CO		2
226	Aluminum Trifluoride	AlF ₃	AlF ₃		2
227	Hexamethyldisilazane	C ₆ H ₁₉ Si ₂ N	(CH ₃) ₆ Si ₂ NH		2
228	Hexamethyldisiloxane	C ₆ H ₁₈ Si ₂ O	(CH ₃) ₆ Si ₂ O		2
229	Hydrogen telluride	H ₂ Te	H ₂ Te		2
230	Iron Carbonyl	C ₅ O ₅ Fe	Fe(CO) ₅		2
231	Isopentane	C ₅ H ₁₂	CH ₃ CH ₂ CH(CH ₃) ₂	2-Methylbutane	2
232	Difluoroamidogen	NF ₂	NF ₂		2
233	Monoethylamine	C ₂ H ₇ N	C ₂ H ₅ NH ₂		2
234	Monomethyl Hydrazine	CH ₆ N ₂	CH ₃ N ₂ H ₃		2
235	Nitromethane	CH ₃ NO ₂	CH ₃ NO ₂		2
236	Octafluorobutene	C ₄ F ₈	C ₄ F ₈	Octafluorobut-2-ene	3
237	Octane	C ₈ H ₁₈	CH ₃ (CH ₂) ₆ CH ₃		2
238	Oxygen Dichloride	OCl ₂	OCl ₂		2
239	Pentaborane(11)	B ₅ H ₁₁	B ₅ H ₁₁		2
240	Pentane	C ₅ H ₁₂	CH ₃ (CH ₂) ₃ CH ₃		2
241	Perfluorobutane	C ₄ F ₁₀	C ₄ F ₁₀		3

Code	Gas Name	Symbol	Formula	Synonym	Ref
242	Arsenic Tribromide	AsBr ₃	AsBr ₃		2
243	Rhenium Hexafluoride	ReF ₆	ReF ₆		2
244	Deuteriumsiline	SiD ₄	SiH ² ₄		2
245	Stibine	SbH ₃	SbH ₃		2
246	Sulfur Trioxide	SO ₃	SO ₃		2
247	Tellurium Hexafluoride	TeF ₆	TeF ₆		2
248	Tetrachlorodiborane	B ₂ Cl ₄	B ₂ Cl ₄		2
249	Tetrafluorodiborane	B ₂ F ₄	B ₂ F ₄		2
250	Tetramethylgermanium	C ₄ H ₁₂ Ge	(CH ₃) ₄ Ge		2
251	Tetramethylsilane	C ₄ H ₁₂ Si	(CH ₃) ₄ Si		2
252	Tetramethyltin	C ₄ H ₁₂ Sn	(CH ₃) ₄ Sn		2
253	Tetrasilane	Si ₄ H ₁₀	Si ₄ H ₁₀		2
254	Titanium Tetraiodide	TiI ₄	TiI ₄		2
255	Tribromostibine	SbBr ₃	SbBr ₃		2
256	Trichlorostibine	SbCl ₃	SbCl ₃		2
257	Triethylaluminum	C ₆ H ₁₅ Al	(C ₂ H ₅) ₃ Al		2
258	Triethylantimony	C ₆ H ₁₅ Sb	(C ₂ H ₅) ₃ Sb		2
259	Trifluoroacetic Acid	CF ₃ CO ₂ H	CF ₃ CO ₂ H		2
260	Trifluoroacetonitrile	C ₂ F ₃ N	F ₃ CCN		2
261	Trifluorosilane	SiHF ₃	SiHF ₃		2
262	Triisobutylaluminum	C ₁₂ H ₂₇ Al	(C ₄ H ₉) ₃ Al		2
263	Xylene m-	C ₈ H ₁₀	1,3-(CH ₃) ₂ C ₆ H ₄	1,3 Dimethyl Benzene	3
264	Xylene p-	C ₈ H ₁₀	1,4-(CH ₃) ₂ C ₆ H ₄	1,4 Dimethyl Benzene	3
265	Dichloromethane	CH ₂ Cl ₂	CH ₂ Cl ₂		
266	Octafluorocyclopentene	C ₅ F ₈	CF ₂ =C(CF ₃)-CF=CF ₂		3
267	Hexafluoropropane	C ₃ H ₂ F ₆	CH ₂ FCF ₂ CF ₃	1,1,1,2,2,3-Hexafluoropropane	2
268	Methylene Bromide	CH ₂ Br ₂	CH ₂ Br ₂	UN 2664; Methyl dibromide, Dibromomethane	1
269	Hydrazoic Acid	HN ₃	HN ₃		1
270	Hexafluoro-2-Butyne	C ₄ F ₆	CF ₃ C≡CCF ₃	Bis(trifluoromethyl)acetylene; Perfluoro-2-butyne	3
271	Butanol-1	C ₄ H ₁₀ O	CH ₃ CH ₂ CH ₂ CH ₂ OH	1-butanol	3
272	Hexafluoroacetylacetone	C ₅ H ₂ F ₆ O ₂	C ₅ H ₂ F ₆ O ₂		1
273	Tungsten Hexacarbonyl	C ₆ O ₆ W	W(CO) ₆		1
274	Triethyl Arsenate	C ₆ H ₁₅ O ₄ As	(C ₂ H ₅ O) ₃ AsO	TEAsat	1
275	Hafnium Tetranitrate	HfN ₄ O ₁₂	Hf(NO ₃) ₄	Hafnium nitrate	1
276	Acrylonitrile	C ₃ H ₃ N	CH ₂ =CHCN	Acrylon; Propenenitrile	3
277	Trimethylborane	C ₃ H ₉ B	(CH ₃) ₃ B		2
278	Silicon Tetrabromide	Br ₄ Si	Br ₄ Si	SiBr ₄ ; Tetrabromosilane; Silicon (IV) bromide	2
279	Tantalum (V) Ethoxide	C ₁₀ H ₂₅ O ₅ Ta	Ta(OC ₂ H ₅) ₅	Ta(OEt) ₅	2
280	Diphenylmethylenediamine	C ₁₃ H ₁₄ N ₂	C ₁₃ H ₁₄ N ₂		2

Code	Gas Name	Symbol	Formula	Synonym	Ref
281	Diphenylmethan-4,4'-diisocyanat	C15H10N2O	C ₁₅ H ₁₀ N ₂ O	UN 2489; Benzene, 1,1'-methylenebis(isocyanatophenyl)	2
282	Tetrakis(diethylamido)titanium	C16H40N4Ti	Ti(N(CH ₃) ₂) ₄	TDEAT	2
283	Acetic Acid	C2H4O2	CH ₃ COOH	Ethanoic acid; UN 2789	2
284	Dimethyl Selenide	C2H6Se	C ₂ H ₆ Se	(CH ₃) ₂ Se; Selenium dimethyl; Dimethylselenium	2
285	Ethoxysilane	C2H8OSi	C ₂ H ₈ OSi		2
286	Hexafluoropropylene Oxide	C3F6O	C ₃ F ₆ O	Hexafluoroepoxypropane	2
287	Trimethoxysilane	C3H10O3Si	C ₃ H ₁₀ O ₃ Si		2
288	Pentafluoropropanol	C3H3F5O	C ₂ F ₅ CH ₂ OH	Perfluorodihydropropanol, 1,1,1,2,2-Pentafluoropropane	2
289	Acrylic Acid	C3H4O2	C ₃ H ₄ O ₂	2-Propenoic acid; CH ₂ =CHCOOH	2
290	Trifluoropropane	C3H5F3	C ₃ H ₅ F ₃	1,1,1-Trifluoropropane; CH ₃ CH ₂ CF ₃	2
291	Ethyl Formate	C3H6O2	HCO ₂ C ₂ H ₅	Ethyl ester formic acid; HC00C2H5	3
292	Methyl Acetate	C3H6O2	CH ₃ CO ₂ CH ₃	Methyl ester acetic acid; UN 1231	3
293	Propenamine	C3H7N	C ₃ H ₇ N	Allylamine; Monoallylamine; UN 2334	2
294	Trimethyl Ester Phosphoric Acid	C3H9O4P	C ₃ H ₉ O ₄ P	Trimethyl phosphate; Trimethoxyphosphine oxide	2
295	Heptafluoropropane	C3HF7	C ₃ HF ₇	1,1,1,2,3,3,3-Heptafluoropropane, Freon 227	2
296	Hexafluorocyclobutene	C4F6	C ₄ F ₆	Perfluorocyclobutene; 1,2,3,3,4,4-Hexafluorocyclobutene	3
297	Hexafluoro Butadiene-1,3	C4F6	CF ₂ =CF-CF=CF ₂	Perfluorobutadiene-1,3	3
298	Diethyl Sulfide	C4H10S	C ₄ H ₁₀ S	UN 2375; Ethyl sulfide	2
299	Tetramethoxygermanium	C4H12GeO4	(CH ₃ O) ₄ Ge	Ge(OMe) ₄	2
300	Dimethoxydimethylsilane	C4H12O2Si	(CH ₃ O) ₂ Si(CH ₃) ₂	KBM 22	2
301	Tetramethoxysilane	C4H12O4Si	(CH ₃ O) ₄ Si	Silicic Acid (H ₄ SiO ₄); Tetramethyl ester; Tetramethyl silicate	2
302	Tetramethyllead	C4H12Pb	(CH ₃) ₄ Pb	(CH ₃) ₄ Pb; Plumbane, tetramethyl	2
303	Trimethylvinylsilane	C5H12Si	(CH ₃) ₃ SiCH=CH ₂	Vinyltrimethylsilane; CH ₂ =CHSi(CH ₃) ₃	2
304	Pyridine	C5H5N	C ₅ H ₅ N	Azabenzene; Azine	2
305	Methyl Methacrylate Polymer	C5H8O2	CH ₂ =C(CH ₃)COOCH ₃	Poly(methyl methacrylate); 2-Methyl-2-propenoic acid	2
306	Triethyarsine	C6H15As	(C ₂ H ₅) ₃ As	Triethylarsenic	2
307	Triethoxyarsine	C6H15AsO3	(C ₂ H ₅ O) ₃ As	Triethyl ester arsenous acid; Triethyl arsenite	2
308	Triethoxyborane	C6H15BO3	(C ₂ H ₅ O) ₃ B	Boron triethoxide; triethyl borate	2
309	Triethylindium	C6H15In	(C ₂ H ₅) ₃ In	Indium, triethyl	2

Code	Gas Name	Symbol	Formula	Synonym	Ref
310	Triethylamine	C ₆ H ₁₅ N	(C ₂ H ₅) ₃ N	UN 1296	2
311	Triethoxyphosphine	C ₆ H ₁₅ O ₃ P	(C ₂ H ₅ O) ₃ P	Triethyl phosphite; UN 2323; Phosphorous acid, triethyl ester	2
312	Triethoxysilane	C ₆ H ₁₆ O ₃ Si	(C ₂ H ₅ O) ₃ SiH		2
313	Triethylsilane	C ₆ H ₁₆ Si	(C ₂ H ₅) ₃ SiH	(C ₂ H ₅) ₃ SiH, TES	2
314	Trimethylisoxazole	C ₆ H ₉ NO	CH ₃ CH=CHCH=CHCONH ₂	3,4,5-Trimethylisoxazole, Sorbamide	3
315	Tetraethylgermane	C ₈ H ₂₀ Ge	(C ₂ H ₅) ₄ Ge	(C ₂ H ₅) ₄ Ge; Germanium tetraethyl	2
316	Tetraethyl lead	C ₈ H ₂₀ Pb	(C ₂ H ₅) ₄ Pb	Plumbane, tetraethyl; UN 1649	2
317	Tetraethylsilane	C ₈ H ₂₀ Si	C ₈ H ₂₀ Si	Tetraethylsilane; Tetraethylsilicon; (C ₂ H ₅) ₄ Si	2
318	Tetrakis(dimethylamido)titanium	C ₈ H ₂₄ N ₄ Ti	[(CH ₃) ₂ N] ₄ Ti	TDMAT	2
319	Styrene	C ₈ H ₈	C ₆ H ₅ CH=CH ₂	Ethenylbenzene; UN 2055	2
320	Triallylamine	C ₉ H ₁₅ N	(CH ₂ =CHCH ₂) ₃ N	Tri-2-propenylamine	2
321	Trifluoromethylhypofluorite	CF ₄ O	CF ₃ OF	CF ₃ OF; Hypofluorous acid; trifluoromethyl ester	2
322	Formaldehyde	CH ₂ O	HCHO	H ₂ C0; UN 1198; BFV	2
323	Iodomethane	CH ₃ I	CH ₃ I	Methyl iodide; UN 2644	2
324	Xenon difluoride	XeF ₂	XeF ₂	F ₂ Xe; Xenon fluoride	2
325	Selenium hexafluoride	SeF ₆	SeF ₆	UN 2194; Selenium fluoride	2
326	Disilane hexafluoride	Si ₂ F ₆	Si ₂ F ₆	F ₆ Si ₂ ; Hexafluorodisilane	2
327	Fluorosilane	SiH ₃ F	SiH ₃ F	H ₃ FSi	2
328	Trisilane	Si ₃ H ₈	Si ₃ H ₈	Silicopropane; Trisilicane; H ₈ Si ₃	2
329	Mercury	Hg	Hg	UN 2809	2
330	Zinc	Zn	Zn	UN 1383	2
331	Acetaldehyde Methoxy	C ₃ H ₆ O ₂	CH ₃ OCH ₂ CHO		3
332	Acetone,hydroxyl	C ₃ H ₆ O ₂	CH ₃ COCH ₂ OH	Acetol	3
333	Glycol Methylene Ether	C ₃ H ₆ O ₂	CH ₂ -O-CH ₂ -CH ₂ -O	1,3-Dioxolane, Formal glycol	3
334	Propanoic Acid	C ₃ H ₆ O ₂	CH ₃ CH ₂ CO ₂ H	Propionic acid	3
335	Glycidol	C ₃ H ₆ O ₂	CH ₂ CHCH ₂ OH	1-Propanol, 2,3 epoxy	3
336	Butanol-2	C ₄ H ₁₀ O	CH ₃ CH ₂ CH(OH)CH ₃		3
337	Tertiary Butyl Alcohol	C ₄ H ₁₀ O	(CH ₃) ₃ COH	TBA, t-Butanol, t-Butyl alcohol	3
338	Diethyl Ether	C ₄ H ₁₀ O	C ₂ H ₅ OC ₂ H ₅		3
339	Methyl Propyl Ether	C ₄ H ₁₀ O	CH ₃ OC ₃ H ₇		3
340	Methyl Isopropyl Ether	C ₄ H ₁₀ O	(CH ₃) ₂ CHOCH ₃		3
341	Isobutyl Alcohol	C ₄ H ₁₀ O	(CH ₃) ₂ CHCH ₂ OH		3
342	3-one-2,5-dimethyl Hexadiene	C ₈ H ₁₀	CH ₂ =C(CH ₃)C≡CC(CH ₃)CH ₂		3
343	1,7-Octadiyne	C ₈ H ₁₀	HC≡C(CH ₂) ₄ C≡CH		3
344	2,6-Octadiyne	C ₈ H ₁₀	CH ₃ C≡CCH ₂ CH ₂ C≡CCCH ₃		3
345	1,3,5,7-Octatetraene	C ₈ H ₁₀	CH ₂ =CHCH=CHCH=CHCH=CH ₂		3

Code	Gas Name	Symbol	Formula	Synonym	Ref
346	Niobium Pentachloride	NbCl ₅	NbCl ₅		3
347	Disilabutane	Si ₂ C ₂ H ₁₀	Si ₂ C ₂ H ₁₀		3
348	Ethane,1,1,1-Trifluoro	C ₂ H ₃ F ₃	C ₂ H ₃ F ₃	HFC-143a	3
349	Diselenium Dichloride	Se ₂ Cl ₂	Se ₂ Cl ₂		3
350	Deuterium Ammonia	ND ₃	ND ₃		3
351	Perfluoro (Oxacyclopentane)	C ₄ F ₈ O	C ₄ F ₈ O		3
352	Aluminum Trichloride	AlCl ₃	AlCl ₃	Trichloroalumane	13
353	Intentionally Left Blank				
354	2,2,3-trifluoro-3-(1,1,2,3,3-pentafluoroprop-2-enyl)oxirane	C ₅ F ₈ O	C ₅ F ₈ O	Epoxyperfluorocyclopentene	13
355	Intentionally Left Blank				
356	Intentionally Left Blank				
357	Natural Gas	NG	NG		2
358	Sulfur Trioxide	SO ₃	SO ₃	<u>Sulfan</u>	13
359	Tetrakis(ethylmethyamido) Hafnium	C ₁₂ H ₃₂ HfN ₄	[(CH ₃ CH ₂)(CH ₃)N] ₄ Hf	TEMAH	13
360	Trifluoroiodomethane	CF ₃ I	CF ₃ I		13
361	Methyl-(methylethyl)-cyclohexadiene	C ₁₀ H ₁₆		ATRP, Alpha-Terpinene	
362	MethylDiethoxySilane	C ₅ H ₁₄ O ₂ Si	CH ₃ SiH(OC ₂ H ₅) ₂	mDEOE, DEMS	
363	Bicycloheptadiene	C ₇ H ₈	C ₇ H ₈	BCHD, Norbornadiene	
364	OctaMethylCyclo TetraSiloxane	C ₈ H ₂₄ O ₄ Si ₄	(CH ₃ CH ₃ SiO) ₄	OMCTS	
365	Dichloromethylsilane	CH ₃ SiHCl ₂	CH ₃ SiHCl ₂	DCMS	2
366	Perfluoropropyl Iodide	C ₃ F ₇ I	C ₃ F ₇ I		2
367	Difluorodichlorosilane	SiF ₂ Cl ₂	SiF ₂ Cl ₂		2
368	Trisilylamine	H ₉ NSi ₃	N(SiH ₃) ₃		3
369	Tetrakis(trifluorophosphorus) nickel	Ni(PF ₃) ₄	Ni(PF ₃) ₄		3
370	Heptafluorocyclopentene	C ₅ HF ₇	C ₅ HF ₇		15
371	Dimethylethylamine	C ₄ H ₁₁ N	(CH ₃) ₂ NCH ₂ CH ₃		15
372	Nitroethane	C ₂ H ₅ NO ₂	C ₂ H ₅ NO ₂		15
373	Pentamethyl Silanamine	C ₅ H ₁₅ NSi	C ₅ H ₁₅ NSi	N,N-Dimethylamino Trimethylsilane	15
374	Dimethylethanolamine	C ₄ H ₁₁ NO	C ₄ H ₁₁ NO	N,N-Dimethylethanolamine	15
375	2-Chloro-1,1,1,2-Tetrafluoroethane	C ₂ HC1F ₄	C ₂ HCIF ₄	R124	15
376	2-Chlorobutane	C ₄ H ₉ Cl	C ₄ H ₉ Cl		15
377	Borane	H ₃ B	BH ₃		15
378	Dimethylsulfide	C ₂ H ₆ S	C ₂ H ₆ S		15
379	Methacrolein	C ₄ H ₆ O	C ₄ H ₆ O	Methacrylaldehyde	15
380	Monoethanolamine	C ₂ H ₇ NO	C ₂ H ₇ NO	2-Amino-1-Ethanol, Glycinol	15
381	Perfluoromethyl-vinylether PMVE	C ₃ H ₃ F ₃ O	CH ₂ =CO-CF ₃		15
382	Trifluoropropene	C ₃ H ₃ F ₃	C(CH ₃)F=CF ₂		15
383	1,2-Propylene Oxide	C ₃ H ₆ O	CH ₃ CHCH ₂ O	Epoxypropane	15

Code	Gas Name	Symbol	Formula	Synonym	Ref
384	1,1,2,2-Tetrafluoroethane (R-134)	C ₂ H ₂ F ₄	CF ₂ H-CF ₂ H	R-134	15
385	2,3,3,3-Tetrafluoropropene	C ₃ H ₂ F ₄	CH ₂ =CFCF ₃		15
386	Butyltin Trichloride	C ₄ H ₉ Cl ₃ Sn	C ₄ H ₉ Cl ₃ Sn	n-Butyltin Trichloride	15
387	2-Fluorobutane	C ₄ H ₉ F	C ₄ H ₉ F		15
388	Diazene	N ₂ H ₂	H ₂ N ₂	Diimine, Diimide	15
389	Formic Acid	CHOOH	CH ₂ O ₂	Methanoic acid	15
390	Tetramethylethylenediamine	C ₆ H ₁₆ N ₂	C ₆ H ₁₆ N ₂	TMEDA	
391	Tris(Dimethylamino)Silane	C ₆ H ₁₉ N ₃ Si	C ₆ H ₁₉ N ₃ Si	3-DMAS, tris(dimethylamido)silane, tris(dimethylamido)silylhydride	
392	Tetravinylsilane	C ₈ H ₁₂ Si	C ₈ H ₁₂ Si	Tetraethenylsilane	
393	trans-1,3,3,3-tetrafluoropropene	C ₃ H ₂ F ₄	C ₃ H ₂ F ₄	(1E)-1,3,3,3-tetrafluoro-1-propene	
394	Cyclohexane	C ₆ H ₁₂	C ₆ H ₁₂		
395	Octamethylcyclotetrasiloxane	[-Si(CH ₃) ₂ O-] ₄	C ₈ H ₂₄ O ₄ Si ₄	OMCTS	
396	Butylamine	CH ₃ (CH ₂) ₃ NH	C ₄ H ₁₁ N		
397	Pyrrole	C ₄ H ₅ N	C ₄ H ₅ N		
398	Propylamine	CH ₃ (CH ₂) ₂ NH ₂	C ₃ H ₉ N		
399	Antimony pentafluoride	SbF ₅	SbF ₅		
400	Trifluoroacetyl Fluoride	C ₂ F ₄ O	C ₂ F ₄ O		
401	2-Chloro-2-Methylpropane	C ₄ H ₉ Cl	C ₄ H ₉ Cl		
402	(E)-1,1,1,4,4,4-hexafluoro-2-butene	C ₄ H ₂ F ₆	CF ₃ -CH=CH-CF ₃	HFO-1336mzz(E)	
403	Dimethylaluminum Chloride	C ₂ H ₆ AlCl	(CH ₃) ₂ AlCl		
404	Molybdenum Pentachloride	MoCl ₅	MoCl ₅	Molybdenum(V) chloride	
405	Octafluorotoluene	C ₇ F ₈	C ₇ F ₈	Perfluorotoluene	15
406	Molybdenum Dichloride Dioxide	MoO ₂ Cl ₂	MoO ₂ Cl ₂	Molybdenum(VI) dichloride dioxide	
407	Nitryl Fluoride	NO ₂ F	NO ₂ F		
408	Iodotrifluoroethylene	C ₂ F ₃ I	C ₂ F ₃ I		
409	Hexafluoroisobutene	C ₄ H ₂ F ₆	(CF ₃) ₂ C=CH ₂	HFIB	
410	Iridium Hexafluoride	IrF ₆	IrF ₆	Iridium(VI) fluoride	
411	Thionyl Chloride	SOCl ₂	SOCl ₂	Thionyl dichloride, Sulfinyl chloride	
412	Molybdenum Hexacarbonyl	Mo(CO) ₆	Mo(CO) ₆		
413	Diethyl Disulfide	C ₄ H ₁₀ S ₂	C ₄ H ₁₀ S ₂		
414	Acetylene Sulfide	C ₂ S	C ₂ S		
415	Bis(Dimethylamino)Methylsilane	C ₅ H ₁₆ N ₂ Si	C ₅ H ₁₆ N ₂ Si		
416	Bis(Dimethylsilyl) Ether	C ₄ H ₁₄ OSi ₂	C ₄ H ₁₄ OSi ₂	1,1,3,3-Tetramethyldisiloxane	
417	Dicarbonylcyclopentadienyl Cobalt(I)	C ₇ H ₅ CoO ₂	C ₇ H ₅ CoO ₂	Cyclopentadienyl cobalt(I) dicarbonyl	
418	Dodecafluoropentane	C ₅ F ₁₂	C ₅ F ₁₂	Perfluoropentane (PFP)	

7 Gas Table Sorted by Name

Table 2 Gases Sorted by Name

Code	Gas Name	Symbol	Formula	Synonym	Ref
384	1,1,2,2-Tetrafluoroethane (R-134)	C ₂ H ₂ F ₄	CF ₂ H-CF ₂ H	R-134	15
383	1,2-Propylene Oxide	C ₃ H ₆ O	CH ₃ CHCH ₂ O	Epoxypropane	15
345	1,3,5,7-Octatetraene	C ₈ H ₁₀	CH ₂ =CHCH=CHCH=CHCH=CH ₂		3
343	1,7-Octadiyne	C ₈ H ₁₀	HC≡C(CH ₂) ₄ C≡CH		3
401	2-Chloro-2-Methylpropane	C ₄ H ₉ Cl	C ₄ H ₉ Cl		
186	2,2 Dichloro 1,1,1 Trifluoroethane	C ₂ HCl ₂ F ₃	CHCl ₂ -CF ₃	Freon 123, Suva 123	2
354	2,2,3-trifluoro-3-(1,1,2,3,3-pentafluoroprop-2-enyl)oxirane	C ₅ F ₈ O	C ₅ F ₈ O	Epoxyperfluorocyclopentene	13
385	2,3,3,3-Tetrafluoropropene	C ₃ H ₂ F ₄	CH ₂ =CFCF ₃		15
344	2,6-Octadiyne	C ₈ H ₁₀	CH ₃ C≡CCH ₂ CH ₂ C≡CCH ₃		3
375	2-Chloro-1,1,1,2-Tetrafluoroethane	C ₂ HClF ₄	C ₂ HClF ₄	R124	15
376	2-Chlorobutane	C ₄ H ₉ Cl	C ₄ H ₉ Cl		15
387	2-Fluorobutane	C ₄ H ₉ F	C ₄ H ₉ F		15
342	3-one-2,5-dimethyl hexadiene	C ₈ H ₁₀	CH ₂ =C(CH ₃)C≡CC(CH ₃)CH ₂		3
178	4-Methyl, 1-Pentene	C ₆ H ₁₂	(CH ₃) ₂ CHCH ₂ CH=CH ₂		2
331	Acetaldehyde Methoxy	C ₃ H ₆ O ₂	CH ₃ OCH ₂ CHO		3
283	Acetic Acid	C ₂ H ₄ O ₂	CH ₃ COOH	Ethanoic acid; UN 2789	2
184	Acetone	C ₃ H ₆ O	CH ₃ COCH ₃		2
332	Acetone,hydroxyl	C ₃ H ₆ O ₂	CH ₃ COCH ₂ OH	Acetol	3
173	Acetonitrile	C ₂ H ₃ N	CH ₃ CN		2
42	Acetylene	C ₂ H ₂	HC≡CH	Ethyne	1
414	Acetylene Sulfide	C ₂ S	C ₂ S		
289	Acrylic Acid	C ₃ H ₄ O ₂	C ₃ H ₄ O ₂	2-Propenoic acid; CH ₂ =CHCOOH	2
276	Acrylonitrile	C ₃ H ₃ N	CH ₂ =CHCN	Acrylon; Propenenitrile	3
8	Air	Air			1
66	Allene	C ₃ H ₄	CH ₂ =C=CH ₂	Propadiene	1
352	Aluminum Trichloride	AlCl ₃	AlCl ₃	Trichloroalumane	13
226	Aluminum Trifluoride	AlF ₃	AlF ₃		2
29	Ammonia	NH ₃	NH ₃		1
399	Antimony pentafluoride	SbF ₅	SbF ₅		
4	Argon	Ar	Ar		1
96	Arsenic Pentafluoride	AsF ₅	AsF ₅		2
242	Arsenic Tribromide	AsBr ₃	AsBr ₃		2
216	Arsenic Trichloride	AsCl ₃	AsCl ₃		2
195	Arsenic Trifluoride	AsF ₃	AsF ₃		2

Code	Gas Name	Symbol	Formula	Synonym	Ref
196	Arsenic Triiodine	AsI ₃	AsI ₃		2
35	Arsine	AsH ₃	AsH ₃		1
197	Benzene	C ₆ H ₆	C ₆ H ₆		2
363	Bicycloheptadiene	C ₇ H ₈	C ₇ H ₈	BCHD, Norbornadiene	
415	Bis(Dimethylamino) Methylsilane	C ₅ H ₁₆ N ₂ Si	C ₅ H ₁₆ N ₂ Si		
416	Bis(Dimethylsilyl) Ether	C ₄ H ₁₄ OSi ₂	C ₄ H ₁₄ OSi ₂	1,1,3,3-Tetramethyldisiloxane	
377	Borane	H ₃ B	BH ₃		15
198	Borazine	B ₃ N ₃ H ₆	H ₃ B ₃ N ₃ H ₃		11
79	Boron Tribromide	BBr ₃	BBr ₃		1
70	Boron Trichloride	BCl ₃	BCl ₃		1
48	Boron Trifluoride	BF ₃	BF ₃		1
21	Bromine	Br ₂	Br ₂		2
116	Bromine Pentafluoride	BrF ₅	BrF ₅		1
76	Bromine Trifluoride	BrF ₃	BrF ₃		1
199	Bromochlorodifluoromethane	CBrClF ₂	BrClCF ₂		2
105	Bromotrifluoroethylene	C ₂ BrF ₃	CF ₂ CFBr		1
80	Bromotrifluoromethane	CBrF ₃	BrCF ₃	F-13B1, R-13B1	1
100	Butadiene	C ₄ H ₆	CH ₂ =CH-CH=CH ₂	1,3-butadiene	1
117	Butane	C ₄ H ₁₀	CH ₃ (CH ₂) ₂ CH ₃		1
271	Butanol-1	C ₄ H ₁₀ O	CH ₃ CH ₂ CH ₂ CH ₂ OH	1-butanol	3
336	Butanol-2	C ₄ H ₁₀ O	CH ₃ CH ₂ CH(OH)CH ₃		3
104	Butene	C ₄ H ₈	CH ₃ CH ₂ CH=CH ₂	1-Butene	1
396	Butylamine	CH ₃ (CH ₂) ₃ NH	C ₄ H ₁₁ N		
386	Butyltin Trichloride	C ₄ H ₉ Cl ₃ Sn	C ₄ H ₉ Cl ₃ Sn	n-Butyltin Trichloride	15
25	Carbon Dioxide	CO ₂	CO ₂		1
40	Carbon Disulfide	CS ₂	CS ₂		2
9	Carbon Monoxide	CO	CO		1
200	Carbon Tetrabromide	CBr ₄	CBr ₄		2
101	Carbon Tetrachloride	CCl ₄	CCl ₄	Tetrachloromethane or Methane, Tetrachloro	2
63	Carbon Tetrafluoride	CF ₄	CF ₄	Tetrafluoromethane or Methane, Tetrafluoro	1
46	Carbonyl Fluoride	CF ₂ O	CF ₂ O		1
34	Carbonyl Sulfide	COS	COS		1
19	Chlorine	Cl ₂	Cl ₂		1
201	Chlorine Dioxide	ClO ₂	ClO ₂		2
202	Chlorine Pentafluoride	ClF ₅	ClF ₅		2
77	Chlorine Trifluoride	ClF ₃	ClF ₃		1
172	Chlorobenzene	C ₆ H ₅ Cl	C ₆ H ₅ Cl	Chlorobenzol, Phenylchloride	2
203	Chlorodifluoroethane	C ₂ H ₃ ClF ₂	CH ₃ -CF ₂ Cl	R-142b	4
204	Chlorodifluoroethylene	C ₂ HClF ₂	CF ₂ =CHCl	R-1122, FREON-1122	4
57	Chlorodifluoromethane	CHClF ₂	CClHF ₂	F-22, R-22	1

Code	Gas Name	Symbol	Formula	Synonym	Ref
71	Chloroform	CHCl ₃	CHCl ₃	Trichloromethane or Methane, Trichloro	2
119	Chloropentafluoroethane	C ₂ ClF ₅	ClCF ₂ CF ₃	F-115, R-115	1
205	Chlorosilane	SiH ₃ Cl	SiH ₃ Cl		2
206	Chlorotrifluoroethylene	C ₂ ClF ₃	FCCl=CF ₂	R-1113, FREON-1113	2
74	Chlorotrifluoromethane	CClF ₃	ClCF ₃	F-13, R-13	1
107	Cisbutene	C ₄ H ₈	CH ₃ CH=CHCH ₃	Cis-2-Butene	2
59	Cyanogen	C ₂ N ₂	NCCN	Oxalodinitrile	1
37	Cyanogen Chloride	ClCN	ClCN		1
207	Cyclobutane	C ₄ H ₈	C ₄ H ₈	Tetramethylene	2
394	Cyclohexane	C ₆ H ₁₂	C ₆ H ₁₂		
61	Cyclopropane	C ₃ H ₆	C ₃ H ₆		1
14	Deuterium	D ₂	H ₂ ²	D ₂	2
350	Deuterium Ammonia	ND ₃	ND ₃		3
244	Deuteriumsilane	SiD ₄	SiH ₂ ² ₄		2
388	Diazene	N ₂ H ₂	H ₂ N ₂	Diimine, Diimide	15
208	Diazomethane	CH ₂ N ₂	CH ₂ N ₂	Acomethylene	2
58	Diborane	B ₂ H ₆	B ₂ H ₆		1
209	Dibromodifluoromethane	CB ₂ F ₂	Br ₂ CF ₂	R-12B ₂ , FREON-12B ₂	2
130	Dibromotetrafluoroethane	C ₂ Br ₂ F ₄	BrF ₂ CCF ₂ Br	F-114B ₂ , R-114B ₂	1
84	Dichlorodifluoromethane	CCl ₂ F ₂	CCl ₂ F ₂	F-12, R-12	1
212	Dichlorodimethylsilane	C ₂ H ₆ SiCl ₂	(CH ₃) ₂ SiCl ₂		2
210	Dichloroethylene	C ₂ H ₂ Cl ₂	CH ₂ =CCl ₂	Vinylidene Chloride	2
211	Dichloroethylene -cis	C ₂ H ₂ Cl ₂	CHCl=CHCl		2
191	Dichloroethylene -trans	C ₂ H ₂ Cl ₂	CHCl=CHCl		2
65	Dichlorofluoromethane	CHCl ₂ F	CHCl ₂ F	F-21, R-21	1
265	Dichloromethane	CH ₂ Cl ₂	CH ₂ Cl ₂		
365	Dichloromethylsilane	CH ₃ SiHCl ₂	CH ₃ SiHCl ₂	DCMS	2
67	Dichlorosilane	SiH ₂ Cl ₂	SiH ₂ Cl ₂		1
125	Dichlorotetrafluoroethane	C ₂ Cl ₂ F ₄	F ₃ CCCl ₂ F	F-114, R-114	1
417	Dicarbonylcyclopentadienyl Cobalt(I)	C ₇ H ₅ CoO ₂	C ₇ H ₅ CoO ₂	Cyclopentadienyl cobalt(I) dicarbonyl	
188	Diethoxydimethylsilane	C ₆ H ₁₆ O ₂ Si	(C ₂ H ₅ O) ₂ Si(CH ₃) ₂		2
413	Diethyl Disulfide	C ₄ H ₁₀ S ₂	C ₄ H ₁₀ S ₂		
338	Diethyl Ether	C ₄ H ₁₀ O	C ₂ H ₅ OC ₂ H ₅		3
298	Diethyl Sulfide	C ₄ H ₁₀ S	C ₄ H ₁₀ S	UN 2375; Ethyl sulfide	2
213	Diethylamine	C ₄ H ₁₁ N	(C ₂ H ₅) ₂ NH		2
154	Diethylsilane	C ₄ H ₁₂ Si	(C ₂ H ₅) ₂ SiH ₂		2
214	Diethylzinc	C ₄ H ₁₀ Zn	Zn(C ₂ H ₅) ₂		2
232	Difluoroamidogen	NF ₂	NF ₂		2
103	Difluorochloroethane	C ₂ H ₃ ClF ₂	CF ₂ ClCH ₃	F-142B, R-142B	1
367	Difluorodichlorosilane	SiF ₂ Cl ₂	SiF ₂ Cl ₂		2
82	Difluoroethane	C ₂ H ₄ F ₂	CH ₃ CHF ₂	Ethylidene Fluoride, R-152A	1

Code	Gas Name	Symbol	Formula	Synonym	Ref
64	Difluoroethylene	C2H2F2	CH ₂ =CF ₂	G-1132A, Vinylidene fluoride	1
160	Difluoromethane	CH2F2	CH ₂ F ₂	Methylene Fluoride	2
134	Difluorosilane	SiH2F2	SiH ₂ F ₂		10
217	Digermane	Ge2H6	Ge ₂ H ₆		2
300	Dimethoxydimethylsilane	C4H12O2Si	(CH ₃ O) ₂ Si(CH ₃) ₂	KBM 22	2
73	Dimethyl Ether	C2H6O	CH ₃ OCH ₃	Methyl ether	1
284	Dimethyl Selenide	C2H6Se	C ₂ H ₆ Se	(CH ₃) ₂ Se; Selenium dimethyl; Dimethylselenium	2
403	Dimethylaluminum Chloride	C2H6AlCl	(CH ₃) ₂ AlCl		
164	Dimethylaluminum Hydride	C2H7Al	(CH ₃) ₂ AlH	DMAH	14
85	Dimethylamine	C2H7N	(CH ₃) ₂ NH		1
218	Dimethylcadmium	C2H6Cd	(CH ₃) ₂ Cd		2
374	Dimethylethanolamine	C4H11NO	C ₄ H ₁₁ NO	N,N-Dimethylethanolamine	15
371	Dimethylethylamine	C4H11N	(CH ₃) ₂ NCH ₂ CH ₃		15
166	Dimethylethylaminealane	C4H14NAI	(CH ₃) ₂ C ₂ H ₅ NAIH ₃	DMEAA	11
122	Dimethylpropane	C5H12	(CH ₃) ₄ C	Neopentane	2
219	Dimethylsilane	C2H8Si	(CH ₃) ₂ SiH ₂		2
378	Dimethylsulfide	C2H6S	C ₂ H ₆ S		15
220	Dimethyltellurium	C2H6Te	(CH ₃) ₂ Te		2
135	Dimethylzinc	C2H6Zn	(CH ₃) ₂ Zn		3
281	Diphenylmethan-4,4'-diisocyanat	C15H10N2O	C ₁₅ H ₁₀ N ₂ O	UN 2489; Benzene, 1,1'-methylenebis(isocyanatophenyl)	2
280	Diphenylmethylenediamine	C13H14N2	C ₁₃ H ₁₄ N ₂		2
349	Diselenium Dichloride	Se2Cl2	Se ₂ Cl ₂		3
347	Disilabutane	Si2C2H10	Si ₂ C ₂ H ₁₀		3
97	Disilane	Si2H6	Si ₂ H ₆		2
326	Disilane Hexafluoride	Si2F6	Si ₂ F ₆	F ₆ Si ₂ ; Hexafluorodisilane	2
418	Dodecafluoropentane	C5F12	C ₅ F ₁₂	Perfluoropentane (PFP)	
402	(E)-1,1,1,4,4,4-hexafluoro-2-butene	C4H2F6	CF ₃ -CH=CH-CF ₃	HFO-1336mzz(E)	
54	Ethane	C2H6	CH ₃ CH ₃		1
348	Ethane, 1,1,1-Trifluoro	C2H3F3	C ₂ H ₃ F ₃	HFC-143a	3
136	Ethanol	C2H6O	CH ₃ CH ₂ OH		2
285	Ethoxysilane	C2H8OSi	C ₂ H ₈ OSi		2
93	Ethyl Acetylene	C4H6	CH ₃ CH ₂ C≡CH		1
75	Ethyl Chloride	C2H5Cl	C ₂ H ₅ Cl	Chloroethane or Ethane, Chloro or Ethyl Chloride	1
221	Ethyl Fluoride	C2H5F	CH ₃ CH ₂ F	Fluoroethane, R-161, FREON-161	2
291	Ethyl Formate	C3H6O2	HCO ₂ C ₂ H ₅	Ethyl ester formic acid; HC00C2H5	3
174	Ethylbenzene	C8H10	C ₆ H ₅ C ₂ H ₅		2
38	Ethylene	C2H4	CH ₂ =CH ₂	Ethene	1
222	Ethylene Dichloride	C2H4Cl2	ClCH ₂ CH ₂ Cl	1,2 Dichloroethane	2

Code	Gas Name	Symbol	Formula	Synonym	Ref
45	Ethylene Oxide	C ₂ H ₄ O	C ₂ H ₄ O	Oxirane, 1,2-epoxyethane	1
169	Ethyleneglycol	C ₂ H ₆ O ₂	HOCH ₂ CH ₂ OH	Ehtanediol, Glycol	2
18	Fluorine	F ₂	F ₂		1
223	Fluoroacetylene	C ₂ HF	FC≡CH		2
49	Fluoroform	CHF ₃	CHF ₃	Trifluoromethane or Methane, Trifluoro, F-23, R-23	1
327	Fluorosilane	SiH ₃ F	SiH ₃ F	H ₃ FSi	2
224	Fluorotriethoxysilane	C ₆ H ₁₅ OSiF	(C ₂ H ₅ O) ₃ SiF		2
322	Formaldehyde	CH ₂ O	HCHO	H ₂ C0; UN 1198; BFV	2
389	Formic Acid	CHOOH	CH ₂ O ₂	Methanoic acid	15
43	Germane	GeH ₄	GeH ₄		1
113	Germanium Tetrachloride	GeCl ₄	GeCl ₄	Tetrachlorogermane	2
99	Germanium Tetrafluoride	GeF ₄	GeF ₄	Tetrafluorogermane	2
335	Glycidol	C ₃ H ₆ O ₂	CH ₂ CHCH ₂ OH	1-Propanol, 2,3 epoxy	3
333	Glycol Methylene Ether	C ₃ H ₆ O ₂	CH ₂ -O-CH ₂ -CH ₂ -O	1,3-Dioxolane, Formal glycol	3
275	Hafnium Tetranitrate	HfN ₄ O ₁₂	Hf(NO ₃) ₄	Hafnium nitrate	1
137	Halothane	C ₂ HBrClF ₃	BrClHCCF ₃		6
1	Helium	He	He		1
370	Heptafluorocyclopentene	C ₅ HF ₇	C ₅ HF ₇		15
295	Heptafluoropropane	C ₃ HF ₇	C ₃ HF ₇	1,1,1,2,3,3,3-Heptafluoropropane, Freon 227	2
297	Hexafluoro Butadiene-1,3	C ₄ F ₆	CF ₂ =CF-CF=CF ₂	Perfluorobutadiene-1,3	3
270	Hexafluoro-2-Butyne	C ₄ F ₆	CF ₃ C≡CCF ₃	Bis(trifluoromethyl)acetylene; Perfluoro-2-butyne	3
225	Hexafluoroacetone	C ₃ F ₆ O	(CF ₃) ₂ CO		2
272	Hexafluoroacetylacetone	C ₅ H ₂ F ₆ O ₂	C ₅ H ₂ F ₆ O ₂		1
192	Hexafluorobenzene	C ₆ F ₆	C ₆ F ₆		2
296	Hexafluorocyclobutene	C ₄ F ₆	C ₄ F ₆	Perfluorocyclobutene; 1,2,3,3,4,4-Hexafluorocyclobutene	3
118	Hexafluoroethane	C ₂ F ₆	F ₃ CCF ₃	F-116, Perfluoroethane	1
409	Hexafluoroisobutene	C ₄ H ₂ F ₆	(CF ₃) ₂ C=CH ₂	HFIB	
267	Hexafluoropropane	C ₃ H ₂ F ₆	CH ₂ FCF ₂ CF ₃	1,1,1,2,2,3-Hexafluoropropane	2
138	Hexafluoropropylene	C ₃ F ₆	CF ₃ CF=CF ₂	Perfluoropropylene or Propylene, Perfluoro	1
286	Hexafluoropropylene Oxide	C ₃ F ₆ O	C ₃ F ₆ O	Hexafluoroepoxypropane	2
139	Hexamethyldisilane	C ₆ H ₁₈ Si ₂	(CH ₃) ₃ Si ₂ (CH ₃) ₃	HMDSi, HMDS	3
227	Hexamethyldisilazane	C ₆ H ₁₉ Si ₂ N	(CH ₃) ₆ Si ₂ NH		2
228	Hexamethyldisiloxane	C ₆ H ₁₈ Si ₂ O	(CH ₃) ₆ Si ₂ O		2
127	Hexane	C ₆ H ₁₄	CH ₃ (CH ₂) ₄ CH ₃		2
170	Hexanediol-1,6	C ₆ H ₁₄ O ₂	HO(CH ₂) ₆ OH	Hexyleneglycol, Hexamethyleneglycol	2
50	Hydrazine	N ₂ H ₄	H ₂ NNH ₂		2
269	Hydrazoic Acid	HN ₃	HN ₃		1
7	Hydrogen	H ₂	H ₂		1

Code	Gas Name	Symbol	Formula	Synonym	Ref
10	Hydrogen Bromide	HBr	HBr		1
11	Hydrogen Chloride	HCl	HCl		1
24	Hydrogen Cyanide	HCN	HCN		1
12	Hydrogen Fluoride	HF	HF		1
17	Hydrogen Iodide	HI	HI		1
23	Hydrogen Selenide	H ₂ Se	H ₂ Se		1
22	Hydrogen Sulfide	H ₂ S	H ₂ S		1
229	Hydrogen Telluride	H ₂ Te	H ₂ Te		2
90	Intentionally Left Blank				
92	Intentionally Left Blank				
175	Intentionally Left Blank				
353	Intentionally Left Blank				
355	Intentionally Left Blank				
356	Intentionally Left Blank				
115	Iodine Pentafluoride	IF ₅	IF ₅		1
323	Iodomethane	CH ₃ I	CH ₃ I	Methyl iodide; UN 2644	2
408	Iodotrifluoroethylene	C ₂ F ₃ I	C ₂ F ₃ I		
410	Iridium Hexafluoride	IrF ₆	IrF ₆	Iridium(VI) fluoride	
230	Iron Carbonyl	C ₅ O ₅ Fe	Fe(CO) ₅		2
111	Isobutane	C ₄ H ₁₀	(CH ₃) ₂ CHCH ₃	2-Methylpropane or Propane, 2-Methyl	1
106	Isobutene	C ₄ H ₈	(CH ₃) ₂ C=CH ₂	Isobutylene, Methylpropene	2
341	Isobutyl Alcohol	C ₄ H ₁₀ O	(CH ₃) ₂ CHCH ₂ OH		3
231	Isopentane	C ₅ H ₁₂	CH ₃ CH ₂ CH(CH ₃) ₂	2-Methylbutane	2
187	Isopropyl Alcohol	C ₃ H ₈ O	(CH ₃) ₂ CHOH	2-Propanol	2
5	Krypton	Kr	Kr		1
329	Mercury	Hg	Hg	UN 2809	2
379	Methacrolein	C ₄ H ₆ O	C ₄ H ₆ O	Methacrylaldehyde	15
28	Methane	CH ₄	CH ₄		1
176	Methanol	CH ₄ O	CH ₃ OH	Methyl Alcohol	2
292	Methyl Acetate	C ₃ H ₆ O ₂	CH ₃ CO ₂ CH ₃	Methyl ester acetic acid; UN 1231	3
68	Methyl Acetylene	C ₃ H ₄	CH ₃ C≡CH	Propyne	1
44	Methyl Bromide	CH ₃ Br	CH ₃ Br	Bromomethane or Methane, Bromo	1
36	Methyl Chloride	CH ₃ Cl	CH ₃ Cl	Chloromethane or Methane, Chloro	1
33	Methyl Fluoride	CH ₃ F	CH ₃ F	Fluoromethane or Methane, Fluoro	1
340	Methyl Isopropyl Ether	C ₄ H ₁₀ O	(CH ₃) ₂ CHOCH ₃		3
47	Methyl Mercaptan	CH ₄ S	CH ₃ SH		1
305	Methyl Methacrylate Polymer	C ₅ H ₈ O ₂	CH ₂ =C(CH ₃)COOCH ₃	Poly(methyl methacrylate); 2-Methyl-2-propenoic acid	2
339	Methyl Propyl Ether	C ₄ H ₁₀ O	CH ₃ OC ₃ H ₇		3

Code	Gas Name	Symbol	Formula	Synonym	Ref
81	Methyl Vinyl Ether	C3H6O	H ₃ C-O-CH=CH ₂		1
361	Methyl-(methylethyl)-cyclohexadiene	C10H16		ATRP, Alpha-Terpinene	
52	Methylamine	CH ₅ N	CH ₃ NH ₂	Amino Methane, Monomethylamine	2
120	Methylbutene	C ₅ H ₁₀	CH ₃ CH ₂ CCH ₃ =CH ₂	2-Methyl-1-Butene	1
177	Methylcyclohexane	C ₇ H ₁₄	CH ₃ C ₆ H ₁₁	Hexahydrotoluene	2
362	MethylDiethoxySilane	C ₅ H ₁₄ O ₂ Si	CH ₃ SiH(OC ₂ H ₅) ₂	mDEOE, DEMS	
268	Methylene Bromide	CH ₂ Br ₂	CH ₂ Br ₂	UN 2664; Methyl dibromide, Dibromomethane	1
185	Methylsilane	CH ₆ Si	CH ₃ SiH ₃	Monomethylsilane	2
183	Methyltrichlorosilane	CH ₃ Cl ₃ Si	CH ₃ SiCl ₃	MTS	2
406	Molybdenum Dichloride Dioxide	MoO ₂ Cl ₂	MoO ₂ Cl ₂	Molybdenum(VI) dichloride dioxide	
412	Molybdenum Hexacarbonyl	Mo(CO) ₆	Mo(CO) ₆		
124	Molybdenum Hexafluoride	MoF ₆	MoF ₆		2
404	Molybdenum Pentachloride	MoCl ₅	MoCl ₅	Molybdenum(V) chloride	
380	Monoethanolamine	C ₂ H ₇ NO	C ₂ H ₇ NO	2-Amino-1-Ethanol, Glycinol	15
233	Monoethylamine	C ₂ H ₇ N	C ₂ H ₅ NH ₂		2
234	Monomethyl Hydrazine	CH ₆ N ₂	CH ₃ N ₂ H ₃		2
357	Natural Gas	NG	NG		2
2	Neon	Ne	Ne		1
140	Nickel Carbonyl	C ₄ O ₄ Ni	Ni(CO) ₄		1
346	Niobium Pentachloride	NbCl ₅	NbCl ₅		3
167	Nitric Acid	HNO ₃	HNO ₃		2
16	Nitric Oxide	NO	NO		2
372	Nitroethane	C ₂ H ₅ NO ₂	C ₂ H ₅ NO ₂		15
13	Nitrogen	N ₂	N ₂		1
26	Nitrogen Dioxide	NO ₂	NO ₂		1
95	Nitrogen Tetroxide	N ₂ O ₄	N ₂ O ₄	Dinitrogenoxide	2
53	Nitrogen Trifluoride	NF ₃	NF ₃		1
78	Nitrogen Trioxide	N ₂ O ₃	N ₂ O ₃		1
235	Nitromethane	CH ₃ NO ₂	CH ₃ NO ₂		2
141	Nitrosyl Chloride	NOCl	NOCl		1
27	Nitrous Oxide	N ₂ O	N ₂ O		1
407	Nitryl Fluoride	NO ₂ F	NO ₂ F		
236	Octafluorobutene	C ₄ F ₈	C ₄ F ₈	Octafluorobut-2-ene	3
129	Octafluorocyclobutane	C ₄ F ₈	(CF ₂) ₄	Perfluorocyclobutane or Cyclobutane, Perfluoro	1
266	Octafluorocyclopentene	C ₅ F ₈	CF ₂ =C(CF ₃)-CF=CF ₂		3
405	Octafluorotoluene	C ₇ F ₈	C ₇ F ₈	Perfluorotoluene	15
395	Octamethylcyclotetrasiloxane	[-Si(CH ₃) ₂ O-] ₄	C ₈ H ₂₄ O ₄ Si ₄	OMCTS	
364	OctaMethylCyclo TetraSiloxane	C ₈ H ₂₄ O ₄ Si ₄	(CH ₃ CH ₃ SiO) ₄	OMCTS	
237	Octane	C ₈ H ₁₈	CH ₃ (CH ₂) ₆ CH ₃		2