# SEMI AUX030-0519
# 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, E54.18, E54.22, F79, and 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 Standard*[1]

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

4.2 *Miscellaneous Publications*

Dangerous Properties of Industrial Materials, 5th Edition, N. Irving Sax, © 1979[2]

Encyclopedia of Gas, Air Liquide, © 1976[3]

Matheson Gas Data Book, 6th Edition, © 1980[4]

[1] National Institute of Standards and Technology, 100 Bureau Drive, Stop 3460, Gaithersburg, MD 20899-3460, USA. Telephone: +1.301.975.6478; http://www.nist.gov

[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.



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The Merck Manual Index, 6th Edition[5]

4.3 *Data Sheets*

Air Products & Chemicals Data Sheet, © 1991[6]

American Cyanamid Data Sheet[7]

Callery Chemical Borazine Data Sheet, © 1984[8]

DuPont Data Sheet[9]

Schumacher Material Safety Data Sheet, No. R&D 49.3 JN, Revision Date 1/95[10]

Schumacher Product Data Sheet, No. 23, Revision 3[10]

Air Liquide/Aloha Product Data Sheet March 2005[11]

4.4 *Handbooks*

Chemical Engineers' Handbook, 5th Edition[12]

CRC Handbook of Chemistry and Physics, 75th Edition, © 1994[13]

4.5 *Other Documents*

Nomenclature of Organic Chemistry, authored by International Union of Pure and Applied Chemistry (IUPAC), edited by J. Rigaudy, © 1979[14]

Chemical Book — Online directory of Chemicals[15]

**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



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## 6 Gas Table Sorted by Code

**Table 1 Gases Sorted by Code**

| *Code* | *Gas Name* | *Symbol* | *Formula* | *Synonym* | *Ref* |
|---|---|---|---|---|---|
| 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 | $H_2O$ | | 2 |
| 21 | Bromine | Br2 | $Br_2$ | | 2 |
| 22 | Hydrogen Sulfide | H2S | $H_2S$ | | 1 |
| 23 | Hydrogen Selenide | H2Se | $H_2Se$ | | 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 | $N_2O$ | | 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 | $CH_3F$ | Fluoromethane or Methane, Fluoro | 1 |
| 34 | Carbonyl Sulfide | COS | COS | | 1 |
| 35 | Arsine | AsH3 | $AsH_3$ | | 1 |
| 36 | Methyl Chloride | CH3Cl | $CH_3Cl$ | Chloromethane or Methane, Chloro | 1 |
| 37 | Cyanogen Chloride | ClCN | ClCN | | 1 |
| 38 | Ethylene | C2H4 | $CH_2{=}CH_2$ | Ethene | 1 |



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| *Code* | *Gas Name* | *Symbol* | *Formula* | *Synonym* | *Ref* |
|---|---|---|---|---|---|
| 39 | Silane | SiH4 | $SiH_4$ | | 1 |
| 40 | Carbon Disulfide | CS2 | $CS_2$ | | 2 |
| 41 | Oxygen Difluoride | OF2 | $OF_2$ | | 1 |
| 42 | Acetylene | C2H2 | $HC{\equiv}CH$ | Ethyne | 1 |
| 43 | Germane | GeH4 | $GeH_4$ | | 1 |
| 44 | Methyl Bromide | CH3Br | $CH_3Br$ | Bromomethane or Methane, Bromo | 1 |
| 45 | Ethylene Oxide | C2H4O | $C_2H_4O$ | Oxirane, 1,2-epoxyethane | 1 |
| 46 | Carbonyl Fluoride | CF2O | $CF_2O$ | | 1 |
| 47 | Methyl Mercaptan | CH4S | $CH_3SH$ | | 1 |
| 48 | Boron Trifluoride | BF3 | $BF_3$ | | 1 |
| 49 | Fluoroform | CHF3 | $CHF_3$ | Trifluoromethane or Methane, Trifluoro, F-23, R-23 | 1 |
| 50 | Hydrazine | N2H4 | $H_2NNH_2$ | | 2 |
| 51 | Vinyl Fluoride | C2H3F | $H_2C{=}CHF$ | | 1 |
| 52 | Methylamine | CH5N | $CH_3NH_2$ | Amino Methane, Monomethylamine | 2 |
| 53 | Nitrogen Trifluoride | NF3 | $NF_3$ | | 1 |
| 54 | Ethane | C2H6 | $CH_3CH_3$ | | 1 |
| 55 | Vinyl Chloride | C2H3Cl | $CH_2{=}CHCl$ | Chloroethylene | 1 |
| 56 | Vinyl Bromide | C2H3Br | $CH_2{=}CHBr$ | | 1 |
| 57 | Chlorodifluoromethane | CHClF2 | $CClHF_2$ | F-22, R-22 | 1 |
| 58 | Diborane | B2H6 | $B_2H_6$ | | 1 |
| 59 | Cyanogen | C2N2 | NCCN | Oxalodinitrile | 1 |
| 60 | Phosgene | CCl2O | $CCl_2O$ | Carbonyl chloride | 1 |
| 61 | Cyclopropane | C3H6 | $C_3H_6$ | | 1 |
| 62 | Phosphorus Trifluoride | PF3 | $PF_3$ | | 1 |
| 63 | Carbon Tetrafluoride | CF4 | $CF_4$ | Tetrafluoromethane or Methane, Tetrafluoro | 1 |
| 64 | Difluoroethylene | C2H2F2 | $CH_2{=}CF_2$ | G-1132A,Vinylidenefluoride | 1 |
| 65 | Dichlorofluoromethane | CHCl2F | $CHCl_2F$ | F-21, R-21 | 1 |
| 66 | Allene | C3H4 | $CH_2{=}C{=}CH_2$ | Propadiene | 1 |
| 67 | Dichlorosilane | SiH2Cl2 | $SiH_2Cl_2$ | | 1 |
| 68 | Methyl Acetylene | C3H4 | $CH_3C{\equiv}CH$ | Propyne | 1 |
| 69 | Propylene | C3H6 | $CH_3CH{=}CH_2$ | Propene | 1 |
| 70 | Boron Trichloride | BCl3 | $BCl_3$ | | 1 |
| 71 | Chloroform | CHCl3 | $CHCl_3$ | Trichloromethane or Methane, Trichloro | 2 |
| 72 | Perchloryl Fluoride | ClO3F | $ClO_3F$ | | 1 |
| 73 | Dimethyl Ether | C2H6O | $CH_3OCH_3$ | Methyl ether | 1 |
| 74 | Chlorotrifluoromethane | CClF3 | $ClCF_3$ | F-13, R-13 | 1 |
| 75 | Ethyl Chloride | C2H5Cl | $C_2H_5Cl$ | Chloroethane or Ethane, Chloro or Ethyl Chloride | 1 |
| 76 | Bromine Trifluoride | BrF3 | $BrF_3$ | | 1 |



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| Code | Gas Name | Symbol | Formula | Synonym | Ref |
|---|---|---|---|---|---|
| 77 | Chlorine Trifluoride | ClF3 | $ClF_3$ | | 1 |
| 78 | Nitrogen Trioxide | N2O3 | $N_2O_3$ | | 1 |
| 79 | Boron Tribromide | BBr3 | $BBr_3$ | | 1 |
| 80 | Bromotrifluoromethane | CBrF3 | $BrCF_3$ | F-13B1, R-13B1 | 1 |
| 81 | Methyl vinyl ether | C3H6O | $H_3C\text{-}O\text{-}CH{=}CH_2$ | | 1 |
| 82 | Difluoroethane | C2H4F2 | $CH_3CHF_2$ | Ethylidene Fluoride, R-152A | 1 |
| 83 | Tribromomethane | CHBr3 | $CHBr_3$ | Bromoform | 2 |
| 84 | Dichlorodifluoromethane | CCl2F2 | $CCl_2F_2$ | F-12, R-12 | 1 |
| 85 | Dimethylamine | C2H7N | $(CH_3)_2NH$ | | 1 |
| 86 | Sulfur Tetrafluoride | SF4 | $SF_4$ | | 1 |
| 87 | Sulfuryl Fluoride | SO2F2 | $SO_2F_2$ | | 1 |
| 88 | Silicon Tetrafluoride | SiF4 | $SiF_4$ | | 1 |
| 89 | Propane | C3H8 | $CH_3CH_2CH_3$ | | 1 |
| 90 | Intentionally Left Blank | | | | |
| 91 | Trichlorofluoromethane | CCl3F | $CCl_3F$ | F-11, R-11 | 1 |
| 92 | Intentionally Left Blank | | | | |
| 93 | Ethyl Acetylene | C4H6 | $CH_3CH_2C{\equiv}CH$ | | 1 |
| 94 | Tetrafluorethylene | C2F4 | $F_2C{=}CF_2$ | | 1 |
| 95 | Nitrogen Tetroxide | N2O4 | $N_2O_4$ | Dinitrogenoxide | 2 |
| 96 | Arsenic Pentafluoride | AsF5 | $AsF_5$ | | 2 |
| 97 | Disilane | Si2H6 | $Si_2H_6$ | | 2 |
| 98 | Transbutene | C4H8 | $CH_3CH{=}CHCH_3$ | | 2 |
| 99 | Germanium Tetrafluoride | GeF4 | $GeF_4$ | Tetrafluorogermane | 2 |
| 100 | Butadiene | C4H6 | $CH_2{=}CH\text{-}CH{=}CH_2$ | 1,3-butadiene | 1 |
| 101 | Carbon Tetrachloride | CCl4 | $CCl_4$ | Tetrachloromethane or Methane, Tetrachloro | 2 |
| 102 | Phosphorous Oxychloride | POCl3 | $POCl_3$ | | 2 |
| 103 | Difluorochloroethane | C2H3ClF2 | $CF_2ClCH_3$ | F-142B, R-142B | 1 |
| 104 | Butene | C4H8 | $CH_3CH_2CH{=}CH_2$ | 1-Butene | 1 |
| 105 | Bromotrifluoroethylene | C2BrF3 | $CF_2CFBr$ | | 1 |
| 106 | Isobutene | C4H8 | $(CH_3)_2C{=}CH_2$ | Isobutylene,Methylpropene | 2 |
| 107 | Cisbutene | C4H8 | $CH_3CH{=}CHCH_3$ | Cis-2-Butene | 2 |
| 108 | Silicon Tetrachloride | SiCl4 | $SiCl_4$ | Tetrachlorosilane | 2 |
| 109 | Trimethylamine | C3H9N | $(CH_3)_3N$ | | 1 |
| 110 | Sulfur Hexafluoride | SF6 | $SF_6$ | | 1 |
| 111 | Isobutane | C4H10 | $(CH_3)_2CHCH_3$ | 2-Methylpropane or Propane, 2-Methyl | 1 |
| 112 | Trichloroethane | C2H3Cl3 | $CH_3CCl_3$ | TCA, Methylchloroform | 2 |
| 113 | Germanium Tetrachloride | GeCl4 | $GeCl_4$ | Tetrachlorogermane | 2 |
| 114 | Titanium Tetrachloride | TiCl4 | $TiCl_4$ | | 2 |
| 115 | Iodine Pentafluoride | IF5 | $IF_5$ | | 1 |
| 116 | Bromine Pentafluoride | BrF5 | $BrF_5$ | | 1 |
| 117 | Butane | C4H10 | $CH_3(CH_2)_2CH_3$ | | 1 |



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| Code | Gas Name | Symbol | Formula | Synonym | Ref |
|---|---|---|---|---|---|
| 118 | Hexafluoroethane | C2F6 | $F_3CCF_3$ | F-116, Perfluoroethane | 1 |
| 119 | Chloropentafluoroethane | C2ClF5 | $ClCF_2CF_3$ | F-115, R-115 | 1 |
| 120 | Methylbutene | C5H10 | $CH_3CH_2CCH_3{=}CH_2$ | 2-Methyl-1-Butene | 1 |
| 121 | Tungsten Hexafluoride | WF6 | $WF_6$ | | 2 |
| 122 | Dimethylpropane | C5H12 | $(CH_3)_4C$ | Neopentane | 2 |
| 123 | Uranium Hexafluoride | UF6 | $UF_6$ | | 2 |
| 124 | Molybdenum Hexafluoride | MoF6 | $MoF_6$ | | 2 |
| 125 | Dichlorotetrafluoroethane | C2Cl2F4 | $F_3CCCl_2F$ | F-114, R-114 | 1 |
| 126 | Trichlorotrifluoroethane | C2Cl3F3 | $CF_2ClCCl_2F$ | F-113, R-113 | 1 |
| 127 | Hexane | C6H14 | $CH_3(CH_2)_4CH_3$ | | 2 |
| 128 | Perfluoropropane | C3F8 | $CF_2(CF_3)_2$ | | 1 |
| 129 | Octafluorocyclobutane | C4F8 | $(CF_2)_4$ | Perfluorocyclobutane or Cyclobutane, Perfluoro | 1 |
| 130 | Dibromotetrafluorethane | C2Br2F4 | $BrF_2CCF_2Br$ | F-114B2, R-114B2 | 1 |
| 131 | Trimethoxyborine | C3H9BO3 | $B(OCH_3)_3$ | TMB, Trimethyl borate | 2 |
| 132 | Trimethylphosphorous | C3H9P | $(CH_3)_3P$ | Trimethylphosphine, TMP | 2 |
| 133 | Trimethyl phosphite | C3H9PO3 | $(CH_3O)_3P$ | TMPi, Trimethoxyphosphine | 2 |
| 134 | Difluorosilane | SiH2F2 | $SiH_2F_2$ | | 10 |
| 135 | Dimethylzinc | C2H6Zn | $(CH_3)_2Zn$ | | 3 |
| 136 | Ethanol | C2H6O | $CH_3CH_2OH$ | | 2 |
| 137 | Halothane | C2HBrClF3 | $BrClHCCF_3$ | | 6 |
| 138 | Hexafluoropropylene | C3F6 | $CF_3CF{=}CF_2$ | Perfluoropropylene or Propylene, Perfluoro | 1 |
| 139 | Hexamethyldisilane | C6H18Si2 | $(CH_3)_3Si_2(CH_3)_3$ | HMDSi, HMDS | 3 |
| 140 | Nickel Carbonyl | C4O4Ni | $Ni(CO)_4$ | | 1 |
| 141 | Nitrosyl Chloride | NOCl | NOCl | | 1 |
| 142 | Pentaborane | B5H9 | $B_5H_9$ | | 2 |
| 143 | Phosphorus Pentafluoride | PF5 | $PF_5$ | | 1 |
| 144 | Tetraethoxysilane | C8H20O4Si | $(C_2H_5O)_4Si$ | TEOS | 2 |
| 145 | Tin Tetrachloride | SnCl4 | $SnCl_4$ | Tetrachlorostannane | 2 |
| 146 | Tributylaluminum | C12H27Al | $(CH_3CH_2CH_2CH_2)_3Al$ | TBAl | 3 |
| 147 | Trichlorosilane | SiHCl3 | $SiHCl_3$ | | 5 |
| 148 | Triethylgallium | C6H15Ga | $(C_2H_5)_3Ga$ | TEGa | 4 |
| 149 | Trimethylaluminum | C3H9Al | $Al(CH_3)_3$ | TMA, TMAl | 4 |
| 150 | Trimethylantimony | C3H9Sb | $(CH_3)_3Sb$ | Trimethylstibene | 2 |
| 151 | Trimethylarsenic | C3H9As | $(CH_3)_3As$ | Trimethylarsine, TMAs | 2 |
| 152 | Trimethylgallium | C3H9Ga | $Ga(CH_3)_3$ | TMGa | 4 |
| 153 | Trimethylindium | C3H9In | $(CH_3)_3In$ | TMIn | 3 |
| 154 | Diethylsilane | C4H12Si | $(C_2H_5)_2SiH_2$ | | 2 |
| 155 | Pentafluoroethane | C2HF5 | $CF_3CHF_2$ | F-125, R-125 | 9 |
| 156 | Tetrafluoroethane | C2H2F4 | $CH_2FCF_3$ | R-134A, F-134A | 2 |
| 157 | Tetrafluorohydrazine | N2F4 | $F_2NNF_2$ | Dinitrogen Tetrafluoride | 1 |
| 158 | Tetramethylcyclotetra-siloxane | C4H16Si4O4 | $(CH_3)_4H_4(SiO)_4$ | TOMCATS | 7 |



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| Code | Gas Name | Symbol | Formula | Synonym | Ref |
|---|---|---|---|---|---|
| 159 | Tritium | T2 | $H_3^2$ | T2 | 2 |
| 160 | Difluoromethane | CH2F2 | $CH_2F_2$ | Methylene Fluoride | 2 |
| 161 | Tertiarybutylarsine | C4H11As | $C(CH_3)_3AsH_2$ | TBA | 8 |
| 162 | Tertiarybutylphosphine | C4H11P | $C(CH_3)_3PH_2$ | TBP | 8 |
| 163 | Triethyl borate | C6H15O3B | $B(OC_2H_5)_3$ | TEB, Triethoxyborane | 2 |
| 164 | Dimethylaluminum hydride | C2H7Al | $(CH_3)_2AlH$ | DMAH | 14 |
| 165 | Trimethylamineralane | C3H12AlN | $(CH_3)_3NAlH_3$ | TMAA | 12 |
| 166 | Dimethylethylamineralane | C4H14NAl | $(CH_3)_2C_2H_5NAlH_3$ | DMEAA | 11 |
| 167 | Nitric Acid | HNO3 | $HNO_3$ | | 2 |
| 168 | Tetrachloroethylene | C2Cl4 | $Cl_2C=CCl_2$ | Perchloroethylene orEthylene, Perchloro | 2 |
| 169 | Ethyleneglycol | C2H6O2 | $HOCH_2CH_2OH$ | Ehtanediol, Glycol | 2 |
| 170 | Hexanediol-1,6 | C6H14O2 | $HO(CH_2)_6OH$ | Hexyleneglycol, Hexamethyleneglycol | 2 |
| 171 | Sulfuric Acid | H2SO4 | $H_2SO_4$ | | 2 |
| 172 | Chlorobenzene | C6H5Cl | $C_6H_5Cl$ | Chlorobenzol, Phenylchloride | 2 |
| 173 | Acetonitrile | C2H3N | $CH_3CN$ | | 2 |
| 174 | Ethylbenzene | C8H10 | $C_6H_5C_2H_5$ | | 2 |
| 175 | Intentionally Left Blank | | | | |
| 176 | Methanol | CH4O | $CH_3OH$ | Methyl Alcohol | 2 |
| 177 | Methylcyclohexane | C7H14 | $CH_3C_6H_{11}$ | Hexahydrotoluene | 2 |
| 178 | 4-Methyl, 1-Pentene | C6H12 | $(CH_3)_2CHCH_2CH=CH_2$ | | 2 |
| 179 | o-Xylene | C8H10 | $1,2\text{-}(CH_3)_2C_6H_4$ | 1,2-Dimethylbenzene | 2 |
| 180 | Phenol | C6H6O | $C_6H_5OH$ | | 2 |
| 181 | Toluene | C7H8 | $C_6H_5CH_3$ | Methylbenzene | 2 |
| 182 | Tetrahydrofuran | C4H8O | $C_4H_8O$ | | 2 |
| 183 | Methyltrichlorosilane | CH3Cl3Si | $CH_3SiCl_3$ | MTS | 2 |
| 184 | Acetone | C3H6O | $CH_3COCH_3$ | | 2 |
| 185 | Methylsilane | CH6Si | $CH_3SiH_3$ | Monomethylsilane | 2 |
| 186 | 2,2 Dichloro 1,1,1 Trifluoroethane | C2HCl2F3 | $CHCl_2\text{-}CF_3$ | Freon 123, Suva 123 | 2 |
| 187 | Isopropyl Alcohol | C3H8O | $(CH_3)_2CHOH$ | 2-Propanol | 2 |
| 188 | Diethoxydimethylsilane | C6H16O2Si | $(C_2H_5O)_2Si(CH_3)_2$ | | 2 |
| 189 | Sulfur Monochloride | S2Cl2 | $S_2Cl_2$ | | 2 |
| 190 | Trimethylsilane | C3H10Si | $(CH_3)_3SiH$ | | 2 |
| 191 | Dichloroethylene -trans | C2H2Cl2 | CHCl=CHCl | | 2 |
| 192 | Hexafluorobenzene | C6F6 | $C_6F_6$ | | 2 |
| 193 | Phosphorus Trichloride | PCl3 | $PCl_3$ | | 2 |
| 194 | Titanium Tetraisopropoxide | C12H28OTi | $Ti(OC_3H_7)_4$ | | 1 |
| 195 | Arsenic Trifluoride | AsF3 | $AsF_3$ | | 2 |
| 196 | Arsenic Triiodine | AsI3 | $AsI_3$ | | 2 |
| 197 | Benzene | C6H6 | $C_6H_6$ | | 2 |
| 198 | Borazine | B3N3H6 | $H_3B_3N_3H_3$ | | 11 |
| 199 | Bromochlorodifluoromethane | CBrClF2 | $BrClCF_2$ | | 2 |



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| *Code* | *Gas Name* | *Symbol* | *Formula* | *Synonym* | *Ref* |
|---|---|---|---|---|---|
| 200 | Carbon Tetrabromide | CBr4 | $CBr_4$ | | 2 |
| 201 | Chlorine Dioxide | ClO2 | $ClO_2$ | | 2 |
| 202 | Chlorine Pentafluoride | ClF5 | $ClF_5$ | | 2 |
| 203 | Chlorodifluoroethane | C2H3ClF2 | $CH_3$-$CF_2Cl$ | R-142b | 4 |
| 204 | Chlorodifluoroethylene | C2HClF2 | $CF_2$=CHCl | R-1122, FREON-1122 | 4 |
| 205 | Chlorosilane | SiH3Cl | $SiH_3Cl$ | | 2 |
| 206 | Chlorotrifluoroethylene | C2ClF3 | FCCl=$CF_2$ | R-1113, FREON-1113 | 2 |
| 207 | Cyclobutane | C4H8 | $C_4H_8$ | Tetramethylene | 2 |
| 208 | Diazomethane | CH2N2 | $CH_2N_2$ | Acomethylene | 2 |
| 209 | Dibromodifluoromethane | CBr2F2 | $Br_2CF_2$ | R-12B2, FREON-12B2 | 2 |
| 210 | Dichloroethylene | C2H2Cl2 | $CH_2$=$CCl_2$ | Vinylidene Chloride | 2 |
| 211 | Dichloroethylene -cis | C2H2Cl2 | CHCl=CHCl | | 2 |
| 212 | Dichlorodimethylsilane | C2H6SiCl2 | $(CH_3)_2SiCl_2$ | | 2 |
| 213 | Diethylamine | C4H11N | $(C_2H_5)_2NH$ | | 2 |
| 214 | Diethylzinc | C4H10Zn | $Zn(C_2H_5)_2$ | | 2 |
| 216 | Arsenic Trichloride | AsCl3 | $AsCl_3$ | | 2 |
| 217 | Digermane | Ge2H6 | $Ge_2H_6$ | | 2 |
| 218 | Dimethylcadmium | C2H6Cd | $(CH_3)_2Cd$ | | 2 |
| 219 | Dimethylsilane | C2H8Si | $(CH_3)_2SiH_2$ | | 2 |
| 220 | Dimethyltellurium | C2H6Te | $(CH_3)_2Te$ | | 2 |
| 221 | Ethyl Fluoride | C2H5F | $CH_3CH_2F$ | Fluoroethane, R-161, FREON-161 | 2 |
| 222 | Ethylene Dichloride | C2H4Cl2 | $ClCH_2CH_2Cl$ | 1,2 Dichloroethane | 2 |
| 223 | Fluoroacetylene | C2HF | FC≡CH | | 2 |
| 224 | Fluorotriethoxysilane | C6H15OSiF | $(C_2H_5O)_3SiF$ | | 2 |
| 225 | Hexafluoroacetone | C3F6O | $(CF_3)_2CO$ | | 2 |
| 226 | Aluminum Trifluoride | AlF3 | $AlF_3$ | | 2 |
| 227 | Hexamethyldisilazane | C6H19Si2N | $(CH_3)_6Si_2NH$ | | 2 |
| 228 | Hexamethyldisiloxane | C6H18Si2O | $(CH_3)_6Si_2O$ | | 2 |
| 229 | Hydrogen telluride | H2Te | $H_2Te$ | | 2 |
| 230 | Iron Carbonyl | C5O5Fe | $Fe(CO)_5$ | | 2 |
| 231 | Isopentane | C5H12 | $CH_3CH_2CH(CH_3)_2$ | 2-Methylbutane | 2 |
| 232 | Difluoroamidogen | NF2 | $NF_2$ | | 2 |
| 233 | Monoethylamine | C2H7N | $C_2H_5NH_2$ | | 2 |
| 234 | Monomethyl Hydrazine | CH6N2 | $CH_3N_2H_3$ | | 2 |
| 235 | Nitromethane | CH3NO2 | $CH_3NO_2$ | | 2 |
| 236 | Octafluorobutene | C4F8 | $C_4F_8$ | Octafluorobut-2-ene | 3 |
| 237 | Octane | C8H18 | $CH_3(CH_2)_6CH_3$ | | 2 |
| 238 | Oxygen Dichloride | OCl2 | $OCl_2$ | | 2 |
| 239 | Pentaborane(11) | B5H11 | $B_5H_{11}$ | | 2 |
| 240 | Pentane | C5H12 | $CH_3(CH_2)_3CH_3$ | | 2 |
| 241 | Perfluorobutane | C4F10 | $C_4F_{10}$ | | 3 |



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| Code | Gas Name | Symbol | Formula | Synonym | Ref |
|---|---|---|---|---|---|
| 242 | Arsenic Tribromide | AsBr3 | $AsBr_3$ | | 2 |
| 243 | Rhenium Hexafluoride | ReF6 | $ReF_6$ | | 2 |
| 244 | Deuteriumsilane | SiD4 | $SiH^2{}_4$ | | 2 |
| 245 | Stibine | SbH3 | $SbH_3$ | | 2 |
| 246 | Sulfur Trioxide | SO3 | $SO_3$ | | 2 |
| 247 | Tellurium Hexafluoride | TeF6 | $TeF_6$ | | 2 |
| 248 | Tetrachlorodiborane | B2Cl4 | $B_2Cl_4$ | | 2 |
| 249 | Tetrafluorodiborane | B2F4 | $B_2F_4$ | | 2 |
| 250 | Tetramethylgermanium | C4H12Ge | $(CH_3)_4Ge$ | | 2 |
| 251 | Tetramethylsilane | C4H12Si | $(CH_3)_4Si$ | | 2 |
| 252 | Tetramethyltin | C4H12Sn | $(CH_3)_4Sn$ | | 2 |
| 253 | Tetrasilane | Si4H10 | $Si_4H_{10}$ | | 2 |
| 254 | Titanium Tetraiodide | TiI4 | $TiI_4$ | | 2 |
| 255 | Tribromostibine | SbBr3 | $SbBr_3$ | | 2 |
| 256 | Trichlorostibine | SbCl3 | $SbCl_3$ | | 2 |
| 257 | Triethylaluminum | C6H15Al | $(C_2H_5)_3Al$ | | 2 |
| 258 | Triethylantimony | C6H15Sb | $(C_2H_5)_3Sb$ | | 2 |
| 259 | Trifluoroacetic Acid | CF3CO2H | $CF_3CO_2H$ | | 2 |
| 260 | Trifluoroacetonitrile | C2F3N | $F_3CCN$ | | 2 |
| 261 | Trifluorosilane | SiHF3 | $SiHF_3$ | | 2 |
| 262 | Triisobutylaluminum | C12H27Al | $(C_4H_9)_3Al$ | | 2 |
| 263 | Xylene m- | C8H10 | $1,3\text{-}(CH_3)_2C_6H_4$ | 1,3 Dimethyl Benzene | 3 |
| 264 | Xylene p- | C8H10 | $1,4\text{-}(CH_3)_2C_6H_4$ | 1,4 Dimethyl Benzene | 3 |
| 265 | Dichloromethane | CH2Cl2 | $CH_2Cl_2$ | | |
| 266 | Octafluorocyclopentene | C5F8 | $CF_2{=}C(CF_3)\text{-}CF{=}CF_2$ | | 3 |
| 267 | Hexafluoropropane | C3H2F6 | $CH_2FCF_2CF_3$ | 1,1,1,2,2,3-Hexafluoropropane | 2 |
| 268 | Methylene Bromide | CH2Br2 | $CH_2Br_2$ | UN 2664; Methyl dibromide, Dibromomethane | 1 |
| 269 | Hydrazoic Acid | HN3 | $HN_3$ | | 1 |
| 270 | Hexafluoro-2-Butyne | C4F6 | $CF_3C{\equiv}CCF_3$ | Bis(trifluoromethyl)acetylene; Perfluoro-2-butyne | 3 |
| 271 | Butanol-1 | C4H10O | $CH_3CH_2CH_2CH_2OH$ | 1-butanol | 3 |
| 272 | Hexafluoroacetylacetone | C5H2F6O2 | $C_5H_2F_6O_2$ | | 1 |
| 273 | Tungsten Hexacarbonyl | C6O6W | $W(CO)_6$ | | 1 |
| 274 | Triethyl Arsenate | C6H15O4As | $(C_2H_5O)_3AsO$ | TEAsat | 1 |
| 275 | Hafnium Tetranitrate | HfN4O12 | $Hf(NO_3)_4$ | Hafnium nitrate | 1 |
| 276 | Acrylonitrile | C3H3N | $CH_2{=}CHCN$ | Acrylon; Propenenitrile | 3 |
| 277 | Trimethylborane | C3H9B | $(CH_3)_3B$ | | 2 |
| 278 | Silicon Tetrabromide | Br4Si | $Br_4Si$ | SiBr4; Tetrabromosilane; Silicon (IV) bromide | 2 |
| 279 | Tantalum (V) Ethoxide | C10H25O5Ta | $Ta(OC_2H_5)_5$ | Ta(OEt)5 | 2 |
| 280 | Diphenylmethylenediamine | C13H14N2 | $C_{13}H_{14}N_2$ | | 2 |



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|---|---|---|---|---|---|
| 281 | Diphenylmethan-4,4'-diisocyanat | C15H10N2O | $C_{15}H_{10}N_2O$ | 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 | $CH_3COOH$ | Ethanoic acid; UN 2789 | 2 |
| 284 | Dimethyl Selenide | C2H6Se | $C_2H_6Se$ | (CH3)2Se; Selenium dimethyl; Dimethylselenium | 2 |
| 285 | Ethoxysilane | C2H8OSi | $C_2H_8OSi$ | | 2 |
| 286 | Hexafluoropropylene Oxide | C3F6O | $C_3F_6O$ | Hexafluoroepoxypropane | 2 |
| 287 | Trimethoxysilane | C3H10O3Si | $C_3H_{10}O_3Si$ | | 2 |
| 288 | Pentafluoropropanol | C3H3F5O | $C_2F_5CH_2OH$ | Perfluorodihydropropanol, 1,1,1,2,2-Pentafluoropropane | 2 |
| 289 | Acrylic Acid | C3H4O2 | $C_3H_4O_2$ | 2-Propenoic acid; CH2=CHCOOH | 2 |
| 290 | Trifluoropropane | C3H5F3 | $C_3H_5F_3$ | 1,1,1-Trifluoropropane; CH3CH2CF3 | 2 |
| 291 | Ethyl Formate | C3H6O2 | $HCO_2C_2H_5$ | Ethyl ester formic acid; HC00C2H5 | 3 |
| 292 | Methyl Acetate | C3H6O2 | $CH_3CO_2CH_3$ | Methyl ester acetic acid; UN 1231 | 3 |
| 293 | Propenamine | C3H7N | $C_3H_7N$ | Allylamine; Monoallylamine; UN 2334 | 2 |
| 294 | Trimethyl Ester Phosphoric Acid | C3H9O4P | $C_3H_9O_4P$ | Trimethyl phosphate; Trimethoxyphosphine oxide | 2 |
| 295 | Heptafluoropropane | C3HF7 | $C_3HF_7$ | 1,1,1,2,3,3,3-Heptafluoropropane, Freon 227 | 2 |
| 296 | Hexafluorocyclobutene | C4F6 | $C_4F_6$ | 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 | $C_4H_{10}S$ | UN 2375; Ethyl sulfide | 2 |
| 299 | Tetramethoxygermanium | C4H12GeO4 | $(CH_3O)_4Ge$ | Ge(OMe)4 | 2 |
| 300 | Dimethoxydimethylsilane | C4H12O2Si | $(CH_3O)_2Si(CH_3)_2$ | KBM 22 | 2 |
| 301 | Tetramethoxysilane | C4H12O4Si | $(CH_3O)_4Si$ | Silicic Acid (H4SiO4); Tetramethyl ester; Tetramethyl silicate | 2 |
| 302 | Tetramethyllead | C4H12Pb | $(CH_3)_4Pb$ | (CH3)4Pb; Plumbane, tetramethyl | 2 |
| 303 | Trimethylvinylsilane | C5H12Si | $(CH_3)_3SiCH=CH_2$ | Vinyltrimethylsilane; CH2=CHSi(CH3)3 | 2 |
| 304 | Pyridine | C5H5N | $C_5H_5N$ | Azabenzene; Azine | 2 |
| 305 | Methyl Methacrylate Polymer | C5H8O2 | $CH_2=C(CH_3)COOCH_3$ | Poly(methyl methacrylate); 2-Methyl1-2-propenoic acid | 2 |
| 306 | Triethyarsine | C6H15As | $(C_2H_5)_3As$ | Triethylarsenic | 2 |
| 307 | Triethoxyarsine | C6H15AsO3 | $(C_2H_5O)_3As$ | Triethyl ester arsenous acid; Triethyl arsenite | 2 |
| 308 | Triethoxyborane | C6H15BO3 | $(C_2H_5O)_3B$ | Boron triethoxide; triethyl borate | 2 |
| 309 | Triethylindium | C6H15In | $(C_2H_5)_3In$ | Indium, triethyl | 2 |



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| Code | Gas Name | Symbol | Formula | Synonym | Ref |
|---|---|---|---|---|---|
| 310 | Triethylamine | C6H15N | $(C_2H_5)_3N$ | UN 1296 | 2 |
| 311 | Triethoxyphosphine | C6H15O3P | $(C_2H_5O)_3P$ | Triethyl phosphite; UN 2323; Phosphorous acid, triethyl ester | 2 |
| 312 | Triethoxysilane | C6H16O3Si | $(C_2H_5O)_3SiH$ | | 2 |
| 313 | Triethylsilane | C6H16Si | $(C_2H_5)_3SiH$ | (C2H5)3SiH, TES | 2 |
| 314 | Trimethylisoxazole | C6H9NO | $CH_3CH=CHCH=CHCONH_2$ | 3,4,5-Trimethylisoxazole, Sorbamide | 3 |
| 315 | Tetraethylgermane | C8H20Ge | $(C_2H_5)_4Ge$ | (C2H5)4Ge; Germanium tetraethyl | 2 |
| 316 | Tetraethyl lead | C8H20Pb | $(C_2H_5)_4Pb$ | Plumbane, tetraethyl; UN 1649 | 2 |
| 317 | Tetraethylsilane | C8H20Si | $C_8H_{20}Si$ | Tetraethylsilane; Tetraethylsilicon; (C2H5)4Si | 2 |
| 318 | Tetrakis(dimethylamido)titanium | C8H24N4Ti | $[(CH_3)_2N]_4Ti$ | TDMAT | 2 |
| 319 | Styrene | C8H8 | $C_6H_5CH=CH_2$ | Ethenylbenzene; UN 2055 | 2 |
| 320 | Triallylamine | C9H15N | $(CH_2=CHCH_2)_3N$ | Tri-2-propenylamine | 2 |
| 321 | Trifluoromethylhypofluorite | CF4O | $CF_3OF$ | CF3OF; Hypofluorous acid; trifuoromethyl ester | 2 |
| 322 | Formaldehyde | CH2O | HCHO | H2C0; UN 1198; BFV | 2 |
| 323 | Iodomethane | CH3I | $CH_3I$ | Methyl iodide; UN 2644 | 2 |
| 324 | Xenon difluoride | XeF2 | $XeF_2$ | $F_2Xe$; Xenon fluoride | 2 |
| 325 | Selenium hexafluoride | SeF6 | $SeF_6$ | UN 2194; Selenium fluoride | 2 |
| 326 | Disilane hexafluoride | Si2F6 | $Si2F_6$ | $F_6Si_2$; Hexafluorodisilane | 2 |
| 327 | Fluorosilane | SiH3F | $SiH_3F$ | $H_3FSi$ | 2 |
| 328 | Trisilane | Si3H8 | $Si_3H_8$ | Silicopropane; Trisilicane; $H_8Si3$ | 2 |
| 329 | Mercury | Hg | Hg | UN 2809 | 2 |
| 330 | Zinc | Zn | Zn | UN 1383 | 2 |
| 331 | Acetaldehyde Methoxy | C3H6O2 | $CH_3OCH_2CHO$ | | 3 |
| 332 | Acetone,hydroxyl | C3H6O2 | $CH_3COCH2OH$ | Acetol | 3 |
| 333 | Glycol Methylene Ether | C3H6O2 | $CH_2$-O-$CH_2$-$CH_2$-O | 1,3-Dioxolane, Formal glycol | 3 |
| 334 | Propanoic Acid | C3H6O2 | $CH_3CH_2CO_2H$ | Propionic acid | 3 |
| 335 | Glycidol | C3H6O2 | $CH_2CHCH_2OH$ | 1-Propanol, 2,3 epoxy | 3 |
| 336 | Butanol-2 | C4H10O | $CH_3CH_2CH(OH)CH_3$ | | 3 |
| 337 | Tertiary Butyl Alcohol | C4H10O | $(CH_3)_3COH$ | TBA, t-Butanol, t-Butyl alcohol | 3 |
| 338 | Diethyl Ether | C4H10O | $C_2H_5OC_2H_5$ | | 3 |
| 339 | Methyl Propyl Ether | C4H10O | $CH_3OC_3H_7$ | | 3 |
| 340 | Methyl Isopropyl Ether | C4H10O | $(CH_3)_2CHOCH_3$ | | 3 |
| 341 | Isobutyl Alcohol | C4H10O | $(CH_3)_2CHCH_2OH$ | | 3 |
| 342 | 3-one-2,5-dimethyl Hexadiene | C8H10 | $CH_2=C(CH_3)C\equiv CC(CH_3)CH_2$ | | 3 |
| 343 | 1,7-Octadiyne | C8H10 | $HC\equiv C(CH_2)_4C\equiv CH$ | | 3 |
| 344 | 2,6-Octadiyne | C8H10 | $CH_3C\equiv CCH_2CH_2C\equiv CCH_3$ | | 3 |
| 345 | 1,3,5,7-Octatetraene | C8H10 | $CH_2=CHCH=CHCH=CHCH=CH_2$ | | 3 |



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| Code | Gas Name | Symbol | Formula | Synonym | Ref |
|---|---|---|---|---|---|
| 346 | Niobium Pentachloride | NbCl5 | $NbCl_5$ | | 3 |
| 347 | Disilabutane | Si2C2H10 | $Si_2C_2H_{10}$ | | 3 |
| 348 | Ethane,1,1,1-Trifluoro | C2H3F3 | $C_2H_3F_3$ | HFC-143a | 3 |
| 349 | Diselenium Dichloride | Se2Cl2 | $Se_2Cl_2$ | | 3 |
| 350 | Deuterium Ammonia | ND3 | $ND_3$ | | 3 |
| 351 | Perfluoro (Oxacyclopentane) | C4F8O | $C_4F_8O$ | | 3 |
| 352 | Aluminum Trichloride | AlCl3 | $AlCl_3$ | Trichloroalumane | 13 |
| 353 | Intentionally Left Blank | | | | |
| 354 | 2,2,3-trifluoro-3-(1,1,2,3,3-pentafluoroprop-2-enyl)oxirane | C5F8O | $C_5F_80$ | Epoxyperfluorocyclopentene | 13 |
| 355 | Intentionally Left Blank | | | | |
| 356 | Intentionally Left Blank | | | | |
| 357 | Natural Gas | NG | NG | | 2 |
| 358 | Sulfur Trioxide | SO3 | $SO_3$ | Sulfan | 13 |
| 359 | Tetrakis(ethylmethylamido) Hafnium | C12H32HfN4 | $[(CH_3CH_2)(CH_3)N]4Hf$ | TEMAH | 13 |
| 360 | Trifluoroiodomethane | CF3I | $CF_3I$ | | 13 |
| 361 | Methyl-(methylethyl)-cyclohenxadiene | C10H16 | | ATRP, Alpha-Terpinene | |
| 362 | MethylDiethoxySilane | C5H14O2Si | $CH_3SiH(OC_2H_5)_2$ | mDEOE, DEMS | |
| 363 | Bicycloheptadiene | C7H8 | $C_7H_8$ | BCHD, Norbornadiene | |
| 364 | OctaMethylCyclo TetraSiloxane | C8H24O4Si4 | $(CH_3CH_3SiO)_4$ | OMCTS | |
| 365 | Dichloromethylsilane | CH3SiHCl2 | $CH_3SiHCl_2$ | DCMS | 2 |
| 366 | Perfluoropropyl Iodide | C3F7I | $C_3F_7I$ | | 2 |
| 367 | Difluorodichlorosilane | SiF2Cl2 | $SiF_2Cl_2$ | | 2 |
| 368 | Trisilylamine | H9NSi3 | $N(SiH_3)_3$ | | 3 |
| 369 | Tetrakis(trifluorophosphorus) nickel | Ni(PF3)4 | $Ni(PF_3)_4$ | | 3 |
| 370 | Heptafluorocyclopentene | C5HF7 | $C_5HF_7$ | | 15 |
| 371 | Dimethylethylamine | C4H11N | $(CH_3)_2NCH_2CH_3$ | | 15 |
| 372 | Nitroethane | C2H5NO2 | $C_2H_5NO_2$ | | 15 |
| 373 | Pentamethyl Silanamine | C5H15NSi | $C_5H_{15}NSi$ | N,N-Dimethylamino Trimethylsilane | 15 |
| 374 | Dimethylethanolamine | C4H11NO | $C_4H_{11}NO$ | N,N-Dimethylethanolamine | 15 |
| 375 | 2-Chloro-1,1,1,2-Tetrafluoroethane | C2HC1F4 | $C_2HClF_4$ | R124 | 15 |
| 376 | 2-Chlorobutane | C4H9Cl | $C4H_9Cl$ | | 15 |
| 377 | Borane | H3B | BH3 | | 15 |
| 378 | Dimethylsulfide | C2H6S | $C_2H_6S$ | | 15 |
| 379 | Methacrolein | C4H6O | $C_4H_6O$ | Methacrylaldehyde | 15 |
| 380 | Monoethanolamine | C2H7NO | $C_2H_7NO$ | 2-Amino-1-Ethanol, Glycinol | 15 |
| 381 | Perfluoromethyl-vinylether PMVE | C3H3F3O | $CH_2=CO-CF_3$ | | 15 |
| 382 | Trifluoropropene | C3H3F3 | $C(CH_3)F=CF_2$ | | 15 |
| 383 | 1,2-Propylene Oxide | C3H6O | $CH_3CHCH_2O$ | Epoxypropane | 15 |



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| Code | Gas Name | Symbol | Formula | Synonym | Ref |
|---|---|---|---|---|---|
| 384 | 1,1,2,2-Tetrafluoroethane (R-134) | C2H2F4 | $CF_2H$-$CF_2H$ | R-134 | 15 |
| 385 | 2,3,3,3-Tetrafloropropene | C3H2F4 | CH2=CFCF3 | | 15 |
| 386 | Butyltin Trichloride | C4H9Cl3Sn | C4H9Cl3Sn | n-Butyltin Trichloride | 15 |
| 387 | 2-Fluorobutane | $C_4H_9F$ | C4H9F | | 15 |
| 388 | Diazene | N2H2 | H2N2 | Diimine, Diimide | 15 |
| 389 | Formic Acid | CHOOH | CH2O2 | Methanoic acid | 15 |
| 390 | Tetramethylethylenediamine | C6H16N2 | $C_6H_{16}N_2$ | TMEDA | |
| 391 | Tris(Dimethylamino)Silane | C6H19N3Si | $C_6H_{19}N_3Si$ | 3-DMAS, tris(dimethylamido)silane, tris(dimethylamido)silylhydride | |
| 392 | Tetravinylsilane | C8H12Si | $C_8H_{12}Si$ | Tetraethenylsilane | |
| 393 | trans-1,3,3,3-tetrafluoropropene | C3H2F4 | $C_3H_2F_4$ | (1E)-1,3,3,3-tetrafluoro-1-propene | |
| 394 | Cyclohexane | C6H12 | $C_6H_{12}$ | | |
| 395 | Octamethylcyclotetrasiloxane | [-Si(CH3)2O-]4 | $C_8H_{24}O_4Si_4$ | OMCTS | |
| 396 | Butylamine | CH3(CH2)3NH | $C_4H_{11}N$ | | |
| 397 | Pyrrole | C4H5N | $C_4H_5N$ | | |
| 398 | Propylamine | CH3(CH2)2NH2 | $C_3H_9N$ | | |
| 399 | Antimony pentafluoride | SbF5 | $SbF_5$ | | |

## 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) | C2H2F4 | $CF_2H$-$CF_2H$ | R-134 | 15 |
| 383 | 1,2-Propylene Oxide | C3H6O | $CH_3CHCH_2O$ | Epoxypropane | 15 |
| 345 | 1,3,5,7-Octatetraene | C8H10 | $CH_2$=CHCH=CHCH=CHCH=$CH_2$ | | 3 |
| 343 | 1,7-Octadiyne | C8H10 | HC≡C$(CH_2)_4$C≡CH | | 3 |
| 186 | 2,2 Dichloro 1,1,1 Trifluoroethane | C2HCl2F3 | $CHCl_2$-$CF_3$ | Freon 123, Suva 123 | 2 |
| 354 | 2,2,3-trifluoro-3-(1,1,2,3,3-pentafluoroprop-2-enyl)oxirane | C5F8O | $C_5F_80$ | Epoxyperfluorocyclopentene | 13 |
| 385 | 2,3,3,3-Tetrafloropropene | C3H2F4 | CH2=CFCF3 | | 15 |
| 344 | 2,6-Octadiyne | C8H10 | $CH_3$C≡C$CH_2CH_2$C≡$CCH_3$ | | 3 |
| 375 | 2-Chloro-1,1,1,2-Tetrafluoroethane | C2HC1F4 | $C_2HClF_4$ | R124 | 15 |
| 376 | 2-Chlorobutane | C4H9Cl | $C4H_9Cl$ | | 15 |
| 387 | 2-Fluorobutane | $C_4H_9F$ | C4H9F | | 15 |
| 342 | 3-one-2,5-dimethyl hexadiene | C8H10 | $CH_2$=C$(CH_3)$C≡CC$(CH_3)CH_2$ | | 3 |
| 178 | 4-Methyl, 1-Pentene | C6H12 | $(CH_3)_2CHCH_2CH$=$CH_2$ | | 2 |



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| Code | Gas Name | Symbol | Formula | Synonym | Ref |
|---|---|---|---|---|---|
| 331 | Acetaldehyde Methoxy | C3H6O2 | $CH_3OCH_2CHO$ | | 3 |
| 283 | Acetic Acid | C2H4O2 | $CH_3COOH$ | Ethanoic acid; UN 2789 | 2 |
| 184 | Acetone | C3H6O | $CH_3COCH_3$ | | 2 |
| 332 | Acetone,hydroxyl | C3H6O2 | $CH_3COCH2OH$ | Acetol | 3 |
| 173 | Acetonitrile | C2H3N | $CH_3CN$ | | 2 |
| 42 | Acetylene | C2H2 | HC≡CH | Ethyne | 1 |
| 289 | Acrylic Acid | C3H4O2 | $C_3H_4O_2$ | 2-Propenoic acid; CH2=CHCOOH | 2 |
| 276 | Acrylonitrile | C3H3N | $CH_2=CHCN$ | Acrylon; Propenenitrile | 3 |
| 8 | Air | Air | | | 1 |
| 66 | Allene | C3H4 | $CH_2=C=CH_2$ | Propadiene | 1 |
| 352 | Aluminum Trichloride | AlCl3 | $AlCl_3$ | Trichloroalumane | 13 |
| 226 | Aluminum Trifluoride | AlF3 | $AlF_3$ | | 2 |
| 29 | Ammonia | NH3 | $NH_3$ | | 1 |
| 399 | Antimony pentafluoride | SbF5 | $SbF_5$ | | |
| 4 | Argon | Ar | Ar | | 1 |
| 96 | Arsenic Pentafluoride | AsF5 | $AsF_5$ | | 2 |
| 242 | Arsenic Tribromide | AsBr3 | $AsBr_3$ | | 2 |
| 216 | Arsenic Trichloride | AsCl3 | $AsCl_3$ | | 2 |
| 195 | Arsenic Trifluoride | AsF3 | $AsF_3$ | | 2 |
| 196 | Arsenic Triiodine | AsI3 | $AsI_3$ | | 2 |
| 35 | Arsine | AsH3 | $AsH_3$ | | 1 |
| 197 | Benzene | C6H6 | $C_6H_6$ | | 2 |
| 363 | Bicycloheptadiene | C7H8 | $C_7H_8$ | BCHD, Norbornadiene | |
| 377 | Borane | H3B | BH3 | | 15 |
| 198 | Borazine | B3N3H6 | $H_3B_3N_3H_3$ | | 11 |
| 79 | Boron Tribromide | BBr3 | $BBr_3$ | | 1 |
| 70 | Boron Trichloride | BCl3 | $BCl_3$ | | 1 |
| 48 | Boron Trifluoride | BF3 | $BF_3$ | | 1 |
| 21 | Bromine | Br2 | $Br_2$ | | 2 |
| 116 | Bromine Pentafluoride | BrF5 | $BrF_5$ | | 1 |
| 76 | Bromine Trifluoride | BrF3 | $BrF_3$ | | 1 |
| 199 | Bromochlorodifluoromethane | CBrClF2 | $BrClCF_2$ | | 2 |
| 105 | Bromotrifluoroethylene | C2BrF3 | $CF_2CFBr$ | | 1 |
| 80 | Bromotrifluoromethane | CBrF3 | $BrCF_3$ | F-13B1, R-13B1 | 1 |
| 100 | Butadiene | C4H6 | $CH_2=CH-CH=CH_2$ | 1,3-butadiene | 1 |
| 117 | Butane | C4H10 | $CH_3(CH_2)_2CH_3$ | | 1 |
| 271 | Butanol-1 | C4H10O | $CH_3CH_2CH_2CH_2OH$ | 1-butanol | 3 |
| 336 | Butanol-2 | C4H10O | $CH_3CH_2CH(OH)CH_3$ | | 3 |
| 104 | Butene | C4H8 | $CH_3CH_2CH=CH_2$ | 1-Butene | 1 |
| 396 | Butylamine | CH3(CH2)3NH | $C_4H_{11}N$ | | |
| 386 | Butyltin Trichloride | C4H9Cl3Sn | C4H9Cl3Sn | n-Butyltin Trichloride | 15 |



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| Code | Gas Name | Symbol | Formula | Synonym | Ref |
|---|---|---|---|---|---|
| 25 | Carbon Dioxide | CO2 | $CO_2$ | | 1 |
| 40 | Carbon Disulfide | CS2 | $CS_2$ | | 2 |
| 9 | Carbon Monoxide | CO | CO | | 1 |
| 200 | Carbon Tetrabromide | CBr4 | $CBr_4$ | | 2 |
| 101 | Carbon Tetrachloride | CCl4 | $CCl_4$ | Tetrachloromethane or Methane, Tetrachloro | 2 |
| 63 | Carbon Tetrafluoride | CF4 | $CF_4$ | Tetrafluoromethane or Methane, Tetrafluoro | 1 |
| 46 | Carbonyl Fluoride | CF2O | $CF_2O$ | | 1 |
| 34 | Carbonyl Sulfide | COS | COS | | 1 |
| 19 | Chlorine | Cl2 | $Cl_2$ | | 1 |
| 201 | Chlorine Dioxide | ClO2 | $ClO_2$ | | 2 |
| 202 | Chlorine Pentafluoride | ClF5 | $ClF_5$ | | 2 |
| 77 | Chlorine Trifluoride | ClF3 | $ClF_3$ | | 1 |
| 172 | Chlorobenzene | C6H5Cl | $C_6H_5Cl$ | Chlorobenzol, Phenylchloride | 2 |
| 203 | Chlorodifluoroethane | C2H3ClF2 | $CH_3$-$CF_2Cl$ | R-142b | 4 |
| 204 | Chlorodifluoroethylene | C2HClF2 | $CF_2$=CHCl | R-1122, FREON-1122 | 4 |
| 57 | Chlorodifluoromethane | CHClF2 | $CClHF_2$ | F-22, R-22 | 1 |
| 71 | Chloroform | CHCl3 | $CHCl_3$ | Trichloromethane or Methane, Trichloro | 2 |
| 119 | Chloropentafluoroethane | C2ClF5 | $ClCF_2CF_3$ | F-115, R-115 | 1 |
| 205 | Chlorosilane | SiH3Cl | $SiH_3Cl$ | | 2 |
| 206 | Chlorotrifluoroethylene | C2ClF3 | FCCl=$CF_2$ | R-1113, FREON-1113 | 2 |
| 74 | Chlorotrifluoromethane | CClF3 | $ClCF_3$ | F-13, R-13 | 1 |
| 107 | Cisbutene | C4H8 | $CH_3CH$=$CHCH_3$ | Cis-2-Butene | 2 |
| 59 | Cyanogen | C2N2 | NCCN | Oxalodinitrile | 1 |
| 37 | Cyanogen Chloride | ClCN | ClCN | | 1 |
| 207 | Cyclobutane | C4H8 | $C_4H_8$ | Tetramethylene | 2 |
| 394 | Cyclohexane | C6H12 | $C_6H_{12}$ | | |
| 61 | Cyclopropane | C3H6 | $C_3H_6$ | | 1 |
| 14 | Deuterium | D2 | $H_2^2$ | D2 | 2 |
| 350 | Deuterium Ammonia | ND3 | $ND_3$ | | 3 |
| 244 | Deuteriumsilane | SiD4 | $SiH^2{}_4$ | | 2 |
| 388 | Diazene | N2H2 | H2N2 | Diimine, Diimide | 15 |
| 208 | Diazomethane | CH2N2 | $CH_2N_2$ | Acomethylene | 2 |
| 58 | Diborane | B2H6 | $B_2H_6$ | | 1 |
| 209 | Dibromodifluoromethane | CBr2F2 | $Br_2CF_2$ | R-12B2, FREON-12B2 | 2 |
| 130 | Dibromotetrafluorethane | C2Br2F4 | $BrF_2CCF_2Br$ | F-114B2, R-114B2 | 1 |
| 84 | Dichlorodifluoromethane | CCl2F2 | $CCl_2F_2$ | F-12, R-12 | 1 |
| 212 | Dichlorodimethylsilane | C2H6SiCl2 | $(CH_3)_2SiCl_2$ | | 2 |
| 210 | Dichloroethylene | C2H2Cl2 | $CH_2$=$CCl_2$ | Vinylidene Chloride | 2 |
| 211 | Dichloroethylene -cis | C2H2Cl2 | CHCl=CHCl | | 2 |
| 191 | Dichloroethylene -trans | C2H2Cl2 | CHCl=CHCl | | 2 |



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|---|---|---|---|---|---|
| 65 | Dichlorofluoromethane | CHCl2F | $CHCl_2F$ | F-21, R-21 | 1 |
| 265 | Dichloromethane | CH2Cl2 | $CH_2Cl_2$ | | |
| 365 | Dichloromethylsilane | CH3SiHCl2 | $CH_3SiHCl_2$ | DCMS | 2 |
| 67 | Dichlorosilane | SiH2Cl2 | $SiH_2Cl_2$ | | 1 |
| 125 | Dichlorotetrafluoroethane | C2Cl2F4 | $F_3CCCl_2F$ | F-114, R-114 | 1 |
| 188 | Diethoxydimethylsilane | C6H16O2Si | $(C_2H_5O)_2Si(CH_3)_2$ | | 2 |
| 338 | Diethyl Ether | C4H10O | $C_2H_5OC_2H_5$ | | 3 |
| 298 | Diethyl Sulfide | C4H10S | $C_4H_{10}S$ | UN 2375; Ethyl sulfide | 2 |
| 213 | Diethylamine | C4H11N | $(C_2H_5)_2NH$ | | 2 |
| 154 | Diethylsilane | C4H12Si | $(C_2H_5)_2SiH_2$ | | 2 |
| 214 | Diethylzinc | C4H10Zn | $Zn(C_2H_5)_2$ | | 2 |
| 232 | Difluoroamidogen | NF2 | $NF_2$ | | 2 |
| 103 | Difluorochloroethane | C2H3ClF2 | $CF_2ClCH_3$ | F-142B, R-142B | 1 |
| 367 | Difluorodichlorosilane | SiF2Cl2 | $SiF_2Cl_2$ | | 2 |
| 82 | Difluoroethane | C2H4F2 | $CH_3CHF_2$ | Ethylidene Fluoride, R-152A | 1 |
| 64 | Difluoroethylene | C2H2F2 | $CH_2{=}CF_2$ | G-1132A,Vinylidenefluoride | 1 |
| 160 | Difluoromethane | CH2F2 | $CH_2F_2$ | Methylene Fluoride | 2 |
| 134 | Difluorosilane | SiH2F2 | $SiH_2F_2$ | | 10 |
| 217 | Digermane | Ge2H6 | $Ge_2H_6$ | | 2 |
| 300 | Dimethoxydimethylsilane | C4H12O2Si | $(CH_3O)_2Si(CH_3)_2$ | KBM 22 | 2 |
| 73 | Dimethyl Ether | C2H6O | $CH_3OCH_3$ | Methyl ether | 1 |
| 284 | Dimethyl Selenide | C2H6Se | $C_2H_6Se$ | (CH3)2Se; Selenium dimethyl; Dimethylselenium | 2 |
| 164 | Dimethylaluminum Hydride | C2H7Al | $(CH_3)_2AlH$ | DMAH | 14 |
| 85 | Dimethylamine | C2H7N | $(CH_3)_2NH$ | | 1 |
| 218 | Dimethylcadmium | C2H6Cd | $(CH_3)_2Cd$ | | 2 |
| 374 | Dimethylethanolamine | C4H11NO | $C_4H_{11}NO$ | N,N-Dimethylethanolamine | 15 |
| 371 | Dimethylethylamine | C4H11N | $(CH_3)_2NCH_2CH_3$ | | 15 |
| 166 | Dimethylethylaminealane | C4H14NAl | $(CH_3)_2C_2H_5NAlH_3$ | DMEAA | 11 |
| 122 | Dimethylpropane | C5H12 | $(CH_3)_4C$ | Neopentane | 2 |
| 219 | Dimethylsilane | C2H8Si | $(CH_3)_2SiH_2$ | | 2 |
| 378 | Dimethylsulfide | C2H6S | $C_2H_6S$ | | 15 |
| 220 | Dimethyltellurium | C2H6Te | $(CH_3)_2Te$ | | 2 |
| 135 | Dimethylzinc | C2H6Zn | $(CH_3)_2Zn$ | | 3 |
| 281 | Diphenylmethan-4,4'-diisocyanat | C15H10N2O | $C_{15}H_{10}N_2O$ | UN 2489; Benzene,1,1'-methylenebis(isocyanatophenyl) | 2 |
| 280 | Diphenylmethylenediamine | C13H14N2 | $C_{13}H_{14}N_2$ | | 2 |
| 349 | Diselenium Dichloride | Se2Cl2 | $Se_2Cl_2$ | | 3 |
| 347 | Disilabutane | Si2C2H10 | $Si_2C_2H_{10}$ | | 3 |
| 97 | Disilane | Si2H6 | $Si_2H_6$ | | 2 |
| 326 | Disilane Hexafluoride | Si2F6 | $Si2F_6$ | $F_6Si_2$; Hexafluorodisilane | 2 |
| 54 | Ethane | C2H6 | $CH_3CH_3$ | | 1 |
| 348 | Ethane,1,1,1-Trifluoro | C2H3F3 | $C_2H_3F_3$ | HFC-143a | 3 |



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|---|---|---|---|---|---|
| 136 | Ethanol | C2H6O | $CH_3CH_2OH$ | | 2 |
| 285 | Ethoxysilane | C2H8OSi | $C_2H_8OSi$ | | 2 |
| 93 | Ethyl Acetylene | C4H6 | $CH_3CH_2C{\equiv}CH$ | | 1 |
| 75 | Ethyl Chloride | C2H5Cl | $C_2H_5Cl$ | Chloroethane or Ethane, Chloro or Ethyl Chloride | 1 |
| 221 | Ethyl Fluoride | C2H5F | $CH_3CH_2F$ | Fluoroethane, R-161, FREON-161 | 2 |
| 291 | Ethyl Formate | C3H6O2 | $HCO_2C_2H_5$ | Ethyl ester formic acid; HC00C2H5 | 3 |
| 174 | Ethylbenzene | C8H10 | $C_6H_5C_2H_5$ | | 2 |
| 38 | Ethylene | C2H4 | $CH_2{=}CH_2$ | Ethene | 1 |
| 222 | Ethylene Dichloride | C2H4Cl2 | $ClCH_2CH_2Cl$ | 1,2 Dichloroethane | 2 |
| 45 | Ethylene Oxide | C2H4O | $C_2H_4O$ | Oxirane, 1,2-epoxyethane | 1 |
| 169 | Ethyleneglycol | C2H6O2 | $HOCH_2CH_2OH$ | Ehtanediol, Glycol | 2 |
| 18 | Fluorine | F2 | $F_2$ | | 1 |
| 223 | Fluoroacetylene | C2HF | $FC{\equiv}CH$ | | 2 |
| 49 | Fluoroform | CHF3 | $CHF_3$ | Trifluoromethane or Methane, Trifluoro, F-23, R-23 | 1 |
| 327 | Fluorosilane | SiH3F | $SiH_3F$ | $H_3FSi$ | 2 |
| 224 | Fluorotriethoxysilane | C6H15OSiF | $(C_2H_5O)_3SiF$ | | 2 |
| 322 | Formaldehyde | CH2O | HCHO | H2C0; UN 1198; BFV | 2 |
| 389 | Formic Acid | CHOOH | CH2O2 | Methanoic acid | 15 |
| 43 | Germane | GeH4 | $GeH_4$ | | 1 |
| 113 | Germanium Tetrachloride | GeCl4 | $GeCl_4$ | Tetrachlorogermane | 2 |
| 99 | Germanium Tetrafluoride | GeF4 | $GeF_4$ | Tetrafluorogermane | 2 |
| 335 | Glycidol | C3H6O2 | $CH_2CHCH_2OH$ | 1-Propanol, 2,3 epoxy | 3 |
| 333 | Glycol Methylene Ether | C3H6O2 | $CH_2$-O-$CH_2$-$CH_2$-O | 1,3-Dioxolane, Formal glycol | 3 |
| 275 | Hafnium Tetranitrate | HfN4O12 | $Hf(NO_3)_4$ | Hafnium nitrate | 1 |
| 137 | Halothane | C2HBrClF3 | $BrClHCCF_3$ | | 6 |
| 1 | Helium | He | He | | 1 |
| 370 | Heptafluorocyclopentene | C5HF7 | $C_5HF_7$ | | 15 |
| 295 | Heptafluoropropane | C3HF7 | $C_3HF_7$ | 1,1,1,2,3,3,3-Heptafluoropropane, Freon 227 | 2 |
| 297 | Hexafluoro Butadiene-1,3 | C4F6 | $CF_2{=}CF$-$CF{=}CF_2$ | Perfluorobutadiene-1,3 | 3 |
| 270 | Hexafluoro-2-Butyne | C4F6 | $CF_3C{\equiv}CCF_3$ | Bis(trifluoromethyl)acetylene; Perfluoro-2-butyne | 3 |
| 225 | Hexafluoroacetone | C3F6O | $(CF_3)_2CO$ | | 2 |
| 272 | Hexafluoroacetylacetone | C5H2F6O2 | $C_5H_2F_6O_2$ | | 1 |
| 192 | Hexafluorobenzene | C6F6 | $C_6F_6$ | | 2 |
| 296 | Hexafluorocyclobutene | C4F6 | $C_4F_6$ | Perfluorocyclobutene; 1,2,3,3,4,4-Hexafluorocyclobutene | 3 |
| 118 | Hexafluoroethane | C2F6 | $F_3CCF_3$ | F-116, Perfluoroethane | 1 |
| 267 | Hexafluoropropane | C3H2F6 | $CH_2FCF_2CF_3$ | 1,1,1,2,2,3-Hexafluoropropane | 2 |



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|---|---|---|---|---|---|
| 138 | Hexafluoropropylene | C3F6 | $CF_3CF{=}CF_2$ | Perfluoropropylene or Propylene, Perfluoro | 1 |
| 286 | Hexafluoropropylene Oxide | C3F6O | $C_3F_6O$ | Hexafluoroepoxypropane | 2 |
| 139 | Hexamethyldisilane | C6H18Si2 | $(CH_3)_3Si_2(CH_3)_3$ | HMDSi, HMDS | 3 |
| 227 | Hexamethyldisilazane | C6H19Si2N | $(CH_3)_6Si_2NH$ | | 2 |
| 228 | Hexamethyldisiloxane | C6H18Si2O | $(CH_3)_6Si_2O$ | | 2 |
| 127 | Hexane | C6H14 | $CH_3(CH_2)_4CH_3$ | | 2 |
| 170 | Hexanediol-1,6 | C6H14O2 | $HO(CH_2)_6OH$ | Hexyleneglycol, Hexamethyleneglycol | 2 |
| 50 | Hydrazine | N2H4 | $H_2NNH_2$ | | 2 |
| 269 | Hydrazoic Acid | HN3 | $HN_3$ | | 1 |
| 7 | Hydrogen | H2 | $H_2$ | | 1 |
| 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 | H2Se | $H_2Se$ | | 1 |
| 22 | Hydrogen Sulfide | H2S | $H_2S$ | | 1 |
| 229 | Hydrogen Telluride | H2Te | $H_2Te$ | | 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 | IF5 | $IF_5$ | | 1 |
| 323 | Iodomethane | CH3I | $CH_3I$ | Methyl iodide; UN 2644 | 2 |
| 230 | Iron Carbonyl | C5O5Fe | $Fe(CO)_5$ | | 2 |
| 111 | Isobutane | C4H10 | $(CH_3)_2CHCH_3$ | 2-Methylpropane or Propane, 2-Methyl | 1 |
| 106 | Isobutene | C4H8 | $(CH_3)_2C{=}CH_2$ | Isobutylene,Methylpropene | 2 |
| 341 | Isobutyl Alcohol | C4H10O | $(CH_3)_2CHCH_2OH$ | | 3 |
| 231 | Isopentane | C5H12 | $CH_3CH_2CH(CH_3)_2$ | 2-Methylbutane | 2 |
| 187 | Isopropyl Alcohol | C3H8O | $(CH_3)_2CHOH$ | 2-Propanol | 2 |
| 5 | Krypton | Kr | Kr | | 1 |
| 329 | Mercury | Hg | Hg | UN 2809 | 2 |
| 379 | Methacrolein | C4H6O | $C_4H_6O$ | Methacrylaldehyde | 15 |
| 28 | Methane | CH4 | $CH_4$ | | 1 |
| 176 | Methanol | CH4O | $CH_3OH$ | Methyl Alcohol | 2 |
| 292 | Methyl Acetate | C3H6O2 | $CH_3CO_2CH_3$ | Methyl ester acetic acid; UN 1231 | 3 |
| 68 | Methyl Acetylene | C3H4 | $CH_3C{\equiv}CH$ | Propyne | 1 |



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|---|---|---|---|---|---|
| 44 | Methyl Bromide | CH3Br | $CH_3Br$ | Bromomethane or Methane, Bromo | 1 |
| 36 | Methyl Chloride | CH3Cl | $CH_3Cl$ | Chloromethane or Methane, Chloro | 1 |
| 33 | Methyl Fluoride | CH3F | $CH_3F$ | Fluoromethane or Methane, Fluoro | 1 |
| 340 | Methyl Isopropyl Ether | C4H10O | $(CH_3)_2CHOCH_3$ | | 3 |
| 47 | Methyl Mercaptan | CH4S | $CH_3SH$ | | 1 |
| 305 | Methyl Methacrylate Polymer | C5H8O2 | $CH_2=C(CH_3)COOCH_3$ | Poly(methyl methacrylate); 2-Methyl1-2-propenoic acid | 2 |
| 339 | Methyl Propyl Ether | C4H10O | $CH_3OC_3H_7$ | | 3 |
| 81 | Methyl Vinyl Ether | C3H6O | $H_3C\text{-}O\text{-}CH=CH_2$ | | 1 |
| 361 | Methyl-(methylethyl)-cyclohenxadiene | C10H16 | | ATRP, Alpha-Terpinene | |
| 52 | Methylamine | CH5N | $CH_3NH_2$ | Amino Methane, Monomethylamine | 2 |
| 120 | Methylbutene | C5H10 | $CH_3CH_2CCH_3=CH_2$ | 2-Methyl-1-Butene | 1 |
| 177 | Methylcyclohexane | C7H14 | $CH_3C_6H_{11}$ | Hexahydrotoluene | 2 |
| 362 | MethylDiethoxySilane | C5H14O2Si | $CH_3SiH(OC_2H_5)_2$ | mDEOE, DEMS | |
| 268 | Methylene Bromide | CH2Br2 | $CH_2Br_2$ | UN 2664; Methyl dibromide, Dibromomethane | 1 |
| 185 | Methylsilane | CH6Si | $CH_3SiH_3$ | Monomethylsilane | 2 |
| 183 | Methyltrichlorosilane | CH3Cl3Si | $CH_3SiCl_3$ | MTS | 2 |
| 124 | Molybdenum Hexafluoride | MoF6 | $MoF_6$ | | 2 |
| 380 | Monoethanolamine | C2H7NO | $C_2H_7NO$ | 2-Amino-1-Ethanol, Glycinol | 15 |
| 233 | Monoethylamine | C2H7N | $C_2H_5NH_2$ | | 2 |
| 234 | Monomethyl Hydrazine | CH6N2 | $CH_3N_2H_3$ | | 2 |
| 357 | Natural Gas | NG | NG | | 2 |
| 2 | Neon | Ne | Ne | | 1 |
| 140 | Nickel Carbonyl | C4O4Ni | $Ni(CO)_4$ | | 1 |
| 346 | Niobium Pentachloride | NbCl5 | $NbCl_5$ | | 3 |
| 167 | Nitric Acid | HNO3 | $HNO_3$ | | 2 |
| 16 | Nitric Oxide | NO | NO | | 2 |
| 372 | Nitroethane | C2H5NO2 | $C_2H_5NO_2$ | | 15 |
| 13 | Nitrogen | N2 | $N_2$ | | 1 |
| 26 | Nitrogen Dioxide | NO2 | $NO_2$ | | 1 |
| 95 | Nitrogen Tetroxide | N2O4 | $N_2O_4$ | Dinitrogenoxide | 2 |
| 53 | Nitrogen Trifluoride | NF3 | $NF_3$ | | 1 |
| 78 | Nitrogen Trioxide | N2O3 | $N_2O_3$ | | 1 |
| 235 | Nitromethane | CH3NO2 | $CH_3NO_2$ | | 2 |
| 141 | Nitrosyl Chloride | NOCl | NOCl | | 1 |
| 27 | Nitrous Oxide | N2O | $N_2O$ | | 1 |
| 236 | Octafluorobutene | C4F8 | $C_4F_8$ | Octafluorobut-2-ene | 3 |



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