**Gases**

These are substances which are gaseous at standard temperature and pressure (25 °C, 1 bar). Species marked with an asterisk are subject to operational restrictions. Please contact us for further details.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Formula | IUPAC Name | Alternate Name | Restrictions? | CAS Number |
|  |  |  |  |  |
| H2 | Hydrogen |   |   | 1333-74-0 |
| D2 | Deuterium |   |   | 7782-39-0 |
| CH4 | Methane |   |   | 74-82-8 |
| CO | Carbon Monoxide |   |   |  630-08-0 |
| CO2 | Carbon Dioxide |   |   | 124-38-9 |
| N2 | Nitrogen |   |   | 7727-37-9 |
| O2 | Oxygen\* |   | [Contact us](http://www.hidenisochema.com/contact/) | 7782-44-7 |
| He | Helium |   |   | 7440-59-7 |
| Ne | Neon |   |   | 7440-01-9 |
| Ar | Argon |   |   | 7440-37-1 |
| Kr | Krypton |   |   | 7439-90-9 |
| Xe | Xenon |   |   | 7440-63-3 |
| NH3 | Azane\* | Ammonia\* | [Contact us](http://www.hidenisochema.com/contact/) | 7664-41-7 |
| N2O | Dinitrogen Monoxide | Nitrous Oxide |   | 10024-97-2 |
| SF6 | Sulfur Hexafluoride | Elagas/Esaflon |   |  2551-62-4 |
| C2H4 | Ethene | Ethylene |   |  74-85-1 |
| C2H6 | Ethane |   |   |  74-84-0 |
| C3H6 | Propene | Propylene |   | 115-07-1 |
| C3H8 | Propane |   |   | 74-98-6 |
| C4H10 | Butane |   n-Butane |   | 106-97-8 |
| CBrF3 | Bromotrifluoromethane | Freon-13B1 |   | 75-63-8 |
| CClF3 | Chlorotrifluoromethane | Freon-13 |   | 75-72-9 |
| CCl2F2 | Dichlorodifluoromethane |  Freon-12 |   | 75-71-8 |
| CHClF2 | Chlorodifluoromethane | Freon-22 |   | 75-45-6 |
| CH2F2 | Difluoromethane | Freon-32 |   | 75-10-5 |
| CH3Cl | Chloromethane | Freon-40 |   | 74-87-3 |
| C2Cl2F4 | 1,2-Dichlorotetrafluoroethane | Freon-114 |   | 76-14-2 |
| C2HF5 | Pentafluoroethane | Freon-125 |   | 354-33-6 |
| C2H2F4 | 1,1,1,2-Tetrafluoroethane | Freon-134a |   | 811-97-2 |
| C2H3ClF2 | 1-Chloro-1,1-difluoroethane | Freon-142b |   | 75-68-3 |
| C2H3F3 | 1,1,1-Trifluoroethane | Freon-143a |   | 420-46-2 |
| C3HF7 | 1,1,1,2,3,3,3-Heptafluoropropane | Freon-227 |   | 431-89-0 |
| C3H2F4 | (1E)-1,3,3,3-Tetrafluoroprop-1-ene | Freon-1234ze |   | 29118-24-9 |
| C3H2F4 | 2,3,3,3-Tetrafluoroprop-1-ene | Freon-1234yf |   | 754-12-1 |
| C3H3F3 | 3,3,3-Trifluoropropene | Freon-1243z |   | 677-21-4 |
| C3H3F5 | 1,1,1,3,3-Pentafluoropropane | Freon-245fa |   | 460-73-1 |