

Gas Name	MW	'n'	Critical Temp °R	Critical Press psia
Air	28.96	1.40	238	547
Allene (Propadiene CH <sub>2</sub> :C:CH <sub>2</sub> )	40.10	1.17	708	792
Ammonia (NH <sub>3</sub> )	17.03	1.31	730	1,636
Argon	39.94	1.67	272	705
Benzene (C <sub>6</sub> H <sub>6</sub> )	78.11	1.12	1,012	710
Boron Trichloride	117.00	1.15	814	561
Boron Trifluoride	68.00	1.20	470	723
Bromotrifluoroethylene (BFE)	161.00	1.10	825	650
Bromotrifluoromethane (Halon 1301)	149.00	1.14	612	575
1 3-Butadiene (C <sub>4</sub> H <sub>6</sub> )	54.09	1.12	765	628
N-Butane (C <sub>4</sub> H <sub>10</sub> )	58.12	1.09	765	551
1-Butene (Butylene C <sub>4</sub> H <sub>8</sub> )	56.11	1.11	756	583
CIS-2-Butene (C <sub>4</sub> H <sub>8</sub> )	56.11	1.10	784	610
Trans-2-Butene (C <sub>4</sub> H <sub>8</sub> )	56.11	1.12	771	595
Carbon Dioxide (CO <sub>2</sub> )	44.01	1.32	548	1,071
Carbon Monoxide (CO)	28.1	1.40	240	507
Carbon Tetrachloride (CCl <sub>4</sub> )	153.84	1.13	1,002	661
Carbon Tetrafluoride	88.00	1.16	410	542
Carbonyl Sulfide	60.00	1.24	675	852
Chlorine	70.91	1.31	751	1,118
Chlorodifluoromethane (R-22)	86.48	1.17	665	722
Chloroform (CHCl <sub>3</sub> )	119.39	1.15	966	794
Chlorotrifluoroethylene (C <sub>2</sub> ClF <sub>3</sub> )	116.47	1.14	682	589
Chlorotrifluoromethane (R-13)	104.47	1.14	544	561
Cyanogen	52.00	1.17	720	867
Cyanogen Chloride	61.00	1.21	808	869
Cyclohexane (C <sub>6</sub> H <sub>12</sub> )	84.16	1.09	997	591
Deuterium	4.00	1.40	70	242
Diborane	28.00	1.18	522	580
Dibromodifluoromethane (R-12B2)	209.00	1.12	849	773
Dichlorodifluoromethane (R-12)	120.92	1.14	693	598
Dichlorofluoromethane (R-21)	102.93	1.15	813	750
1 2 Dichlorotetrafluoroethane (R114)	170.94	1.08	754	473
1 1 Difluoro 1 Chloroethane (R142B)	100.00	1.11	738	598
Dimethylamine (DMA)	45.09	1.15	788	770
Dimethylether	46.07	1.11	720	764

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2,2-Dimethylpropane	72.00	1.08	781	464
Ethane (C <sub>2</sub> H <sub>6</sub> )	30.07	1.19	550	713
Ethyl Alcohol (Ethanol C <sub>2</sub> H <sub>5</sub> OH)	46.07	1.15	925	890
Ethyl Chloride (C <sub>2</sub> H <sub>5</sub> Cl)	64.50	1.19	829	764
Ethylacetylene	54.00	1.12	835	705
Ethylene (C <sub>2</sub> H <sub>4</sub> ) (Ethene)	28.05	1.24	510	742
Ethylene Oxide (C <sub>2</sub> H <sub>4</sub> O)	44.05	1.20	844	1,043
Fluorine	38.00	1.36	261	756
Helium	4.00	1.63	10	33
N-Heptane [CH <sub>3</sub> (CH <sub>2</sub> ) <sub>5</sub> CH <sub>3</sub> ]	100.20	1.05	972	397
N-Hexane (C <sub>6</sub> H <sub>14</sub> )	86.18	1.06	914	439
Hydrogen	2.02	1.41	60	188
Hydrogen Bromide	80.00	1.42	654	1,234
Hydrogen Chloride (HCl)	36.46	1.41	584	1,198
Hydrogen Cyanide	27.00	1.31	822	782
Hydrogen Fluoride	20.00	1.40	830	941
Hydrogen Iodine	128.00	1.40	763	1,191
Hydrogen Sulfide (H <sub>2</sub> S)	34.08	1.33	672	1,306
Isobutane (C <sub>4</sub> H <sub>10</sub> )	58.12	1.10	735	529
Isobutene (C <sub>4</sub> H <sub>8</sub> )	56.11	1.10	753	580
Isobutylene	56.10	1.12	752	579
Isopentane (C <sub>5</sub> H <sub>12</sub> )	72.15	1.08	829	490
Krypton	83.70	1.67	378	798
Methane (CH <sub>4</sub> )	16.04	1.31	345	673
Methanol (Methyl Alcohol)	32.04	1.24	923	1,174
Methyl Acetylene (CH <sub>3</sub> C≡CH)	40.00	1.06	725	814
Methyl Acetylene Propadiene (MAPP)	40.00	1.08	722	810
Methyl Bromide	95.00	1.23	841	757
3-Methyl-1-Butene	70.10	1.08	816	526
Methyl Chloride	50.49	1.28	750	969
Methyl Fluoride	34.00	1.28	572	911
Methyl Mercaptan	48.00	1.20	846	1,049
Monomethylamine (Methylamine) (MMA)	31.00	1.20	774	1,082
Methylene Chloride (CH <sub>2</sub> Cl <sub>2</sub> )	84.94	1.18	919	895
Neon	20.18	1.64	80	395
Nitric Oxide	30.00	1.40	325	950

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Nitrogen	28.01	1.40	228	493
Nitrogen Dioxide (NO2)	46.00	1.28	777	1,470
Nitrous Oxide	44.02	1.30	558	1,052
Octofluorocyclobutane (R-318)	200.04	1.06	699	404
Oxygen	32.00	1.41	279	731
Ozone (O3)	48.00	1.31	470	803
n-Octane	114.23	1.04	1024	361
n-Pentane	72.15	1.08	846	489
Perchloryl Fluoride	102.00	1.12	663	779
Propane (C3H8)	44.10	1.14	666	619
Propylene (Propene) (C3H6)	42.08	1.15	657	670
R11 (MF) (CCI3F)	137.38	1.14	848	635
R12 (CCI2F2)	120.92	1.14	693	598
R13 (CCIF3)	104.47	1.15	544	561
R14 (CF4)	88.01	1.16	410	543
R21 (CHCI2F)	102.93	1.18	813	750
R22 (CHCIF2)	86.48	1.18	665	722
R23 (CHF3)	70.02	1.19	539	701
R32 (CH2F2)	52.00	1.25	633	845
R113 (TF) (CCI2F-CCIF2)	187.39	1.08	877	495
R114 (CCIF2-CCIF2)	170.94	1.08	755	473
R115 (CCIF2-CF3)	154.48	1.09	636	453
R123 (CHCI2-CF3)	152.90	1.08	825	550
R124 (CHCIF-CF3)	136.50	1.10	712	518
R125 (CHF2-CCF3)	120.02	1.11	611	510
R134a (CH2F-CF3)	102.00	1.12	673	572
R141b (CH3-CCI2F)	116.95	1.10	870	673
R142b (CH3-CCIF2)	100.00	1.11	738	598
R143a (CH3-CF3)	84.00	1.13	623	550
R152a (CH3-CHF2)	66.00	1.12	696	653
R318	200.04	1.06	699	404
R500 (73.8% R12, 26.2% R152a)	99.30	1.14	682	642
R502 (48.8% R22, 51.2% R115)	111.64	1.13	654	618
R503 (40% R23, 60% R13)	87.28	1.17	527	632
R12B1 (Halon 1211) (CClBrF2)	165.40	1.12	769	595
R12B2 (CBr2F2)	209.83	1.12	849	773

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Gas Name		MW	'n'	Critical Temp °R	Critical Press psia
R13B1	(Halon 1301) (CBrF3)	148.93	1.18	612	575
Steam	(Water Vapor)	18.02	1.33	1,165	3,199
Sulfur Dioxide	(SO2)	64.06	1.29	776	1,143
Sulfur Hexafluoride	(SF6)	146.10	1.09	574	545
Tetrafluorethylene	(C2F4)	100.00	1.14	552	572
Toluene	(C7H8)	92.14	1.09	1,066	596
Trimethylamine	(TMA)	59.10	1.18	780	591
Vinyl Bromide		107.00	1.18	835	995
Vinyl Chloride	(CH2:CHCl)	62.50	1.18	765	835
Vinyl Fluoride		46.00	1.18	590	760
Water Vapor	(Steam)	18.02	1.33	1,165	3,199
Xenon		131.30	1.67	522	847

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