

Typical Gas Properties

Gas or Vapor	Molecular Weight M	Ratio of Specific Heats k (14.7 psia)	Coefficient C'	Specific Gravity	Critical Pressure psia	Critical Temp.(°R) (°F+460)
Acetylene	26.04	1.25	342	0.899	890	555
Air	28.97	1.40	356	1.000	547	240
Ammonia	17.03	1.30	347	0.588	1638	730
Argon	39.94	1.66	377	1.379	706	272
Benzene	78.11	1.12	329	2.696	700	1011
N-Butane	58.12	1.18	335	2.006	551	766
Iso-Butane	58.12	1.19	336	2.006	529	735
Carbon Dioxide	44.01	1.29	346	1.519	1072	548
Carbon Disulphide	76.13	1.21	338	2.628	1147	994
Carbon Monoxide	28.01	1.40	356	0.967	507	240
Chlorine	70.90	1.35	352	2.447	1118	751
Cyclohexane	84.16	1.08	325	2.905	591	997
Ethane	30.07	1.19	336	1.038	708	550
Ethyl Alcohol	46.07	1.13	330	1.590	926	925
Ethyl Chloride	64.52	1.19	336	2.227	766	829
Ethylene	28.03	1.24	341	0.968	731	509
Freon 11	137.37	1.14	331	4.742	654	848
Freon 12	120.92	1.14	331	4.174	612	694
Freon 22	86.48	1.18	335	2.985	737	665
Freon 114	170.93	1.09	326	5.900	495	754
Helium	4.02	1.66	377	0.139	33	10
N-Heptane	100.20	1.05	321	3.459	397	973
Hexane	86.17	1.06	322	2.974	437	914
Hydrochloric Acid	36.47	1.41	357	1.259	1198	584
Hydrogen	2.02	1.41	357	0.070	188	60
Hydrogen Chloride	36.47	1.41	357	1.259	1205	585
Hydrogen Sulphide	34.08	1.32	349	1.176	1306	672
Methane	16.04	1.31	348	0.554	673	344
Methyl Alcohol	32.04	1.20	337	1.106	1154	924
Methyl Butane	72.15	1.08	325	2.491	490	829
Methyl Chloride	50.49	1.20	337	1.743	968	749
Natural Gas (Typical)	19.00	1.27	344	0.656	671	375
Nitric Oxide	30.00	1.40	356	1.036	956	323
Nitrogen	28.02	1.40	356	0.967	493	227
Nitrous Oxide	44.02	1.31	348	1.520	1054	557
N-Octane	114.22	1.05	321	3.943	362	1025
Oxygen	32.00	1.40	356	1.105	737	279
N-Pentane	72.15	1.08	325	2.491	490	846
Iso-Pentane	72.15	1.08	325	2.491	490	829
Propane	44.09	1.13	330	1.522	617	666
Sulfur Dioxide	64.04	1.27	344	2.211	1141	775
Toluene	92.13	1.09	326	3.180	611	1069

Compliments of:



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