

## Physical Constants of Various Fluids

FLUID	FORMULA	MOLECULAR WEIGHT	BOILING POINT (°F AT 14.696 PSIA)	VAPOR PRESSURE AT 70°F (PSIG)	CRITICAL TEMPERATURE (°F)	CRITICAL PRESSURE (PSIA)	SPECIFIC GRAVITY	
							Liquid 60°F/60°F	Gas
Acetic Acid	HC <sub>2</sub> H <sub>3</sub> O <sub>3</sub>	60.06	245				1.05	
Acetone	C <sub>3</sub> H <sub>6</sub> O	58.08	133		455	691	0.79	2.01
Air	N <sub>2</sub> O <sub>2</sub>	28.97	-317		-221	547	0.86‡	1.0
Alcohol, Ethyl	C <sub>2</sub> H <sub>6</sub> O	46.07	173	2.3 <sup>(2)</sup>	470	925	0.794	1.59
Alcohol, Methyl	CH <sub>4</sub> O	32.04	148	4.63 <sup>(2)</sup>	463	1174	0.796	1.11
Ammonia	NH <sub>3</sub>	17.03	-28	114	270	1636	0.62	0.59
Ammonium Chloride <sup>(1)</sup>	NH <sub>4</sub> Cl						1.07	
Ammonium Hydroxide <sup>(1)</sup>	NH <sub>4</sub> OH						0.91	
Ammonium Sulfate <sup>(1)</sup>	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>						1.15	
Aniline	C <sub>6</sub> H <sub>7</sub> N	93.12	365		798	770	1.02	
Argon	A	39.94	-302		-188	705	1.65	1.38
Bromine	Br <sub>2</sub>	159.84	138		575		2.93	5.52
Calcium Chloride <sup>(1)</sup>	CaCl <sub>2</sub>						1.23	
Carbon Dioxide	CO <sub>2</sub>	44.01	-109	839	88	1072	0.801 <sup>(3)</sup>	1.52
Carbon Disulfide	CS <sub>2</sub>	76.1	115				1.29	2.63
Carbon Monoxide	CO	28.01	-314		-220	507	0.80	0.97
Carbon Tetrachloride	CCl <sub>4</sub>	153.84	170		542	661	1.59	5.31
Chlorine	Cl <sub>2</sub>	70.91	-30	85	291	1119	1.42	2.45
Chromic Acid	H <sub>2</sub> CrO <sub>4</sub>	118.03					1.21	
Citric Acid	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>	192.12					1.54	
Copper Sulfate <sup>(1)</sup>	CuSO <sub>4</sub>						1.17	
Ether	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O	74.12	34				0.74	2.55
Ferric Chloride <sup>(1)</sup>	FeCl <sub>3</sub>						1.23	
Fluorine	F <sub>2</sub>	38.00	-305	300	-200	809	1.11	1.31
Formaldehyde	H <sub>2</sub> CO	30.03	-6				0.82	1.08
Formic Acid	HCO <sub>2</sub> H	46.03	214				1.23	
Furfural	C <sub>5</sub> H <sub>4</sub> O <sub>2</sub>	96.08	324				1.16	
Glycerine	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	92.09	554				1.26	
Glycol	C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>	62.07	387				1.11	
Helium	He	4.003	-454		-450	33	0.18	0.14
Hydrochloric Acid	HCl	36.47	-115				1.64	
Hydrofluoric Acid	HF	20.01	66	0.9	446		0.92	
Hydrogen	H <sub>2</sub>	2.016	-422		-400	188	0.07 <sup>(3)</sup>	0.07
Hydrogen Chloride	HCl	36.47	-115	613	125	1198	0.86	1.26
Hydrogen Sulfide	H <sub>2</sub> S	34.07	-76	252	213	1307	0.79	1.17
Isopropyl Alcohol	C <sub>3</sub> H <sub>8</sub> O	60.09	180				0.78	2.08
Linseed Oil			538				0.93	

1. Aqueous Solution - 25% by weight of compound
2. Vapor pressure in psia at 100°F
3. Density of liquid, gm/ml at normal boiling point.