

Physical Constants of Various Fluids (continued)

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
Magnesium Chloride ⁽¹⁾	MgCl ₂						1.22	
Mercury	Hg	200.61	670				13.6	6.93
Methyl Bromide	CH ₃ Br	94.95	38	13	376		1.73	3.27
Methyl Chloride	CH ₃ Cl	50.49	-11	59	290	969	0.99	1.74
Naphthalene	C ₁₀ H ₈	128.16	424				1.14	4.43
Nitric Acid	HNO ₃	63.02	187				1.5	
Nitrogen	N ₂	28.02	-320		-233	493	0.81 ⁽³⁾	0.97
Oil, Vegetable							0.91 - 0.94	
Oxygen	O ₂	32	-297		-181	737	1.14 ⁽³⁾	1.105
Phosgene	COCl ₂	98.92	47	10.7	360	823	1.39	3.42
Phosphoric Acid	H ₃ PO ₄	98.00	415				1.83	
Potassium Carbonate ⁽¹⁾	K ₂ CO ₃						1.24	
Potassium Chloride ⁽¹⁾	KCl						1.16	
Potassium Hydroxide ⁽¹⁾	KOH						1.24	
Refrigerant 11	CCl ₃ F	137.38	75	13.4	388	635		5.04
Refrigerant 12	CCl ₂ F ₂	120.93	-22	70.2	234	597		4.2
Refrigerant 13	CClF ₃	104.47	-115	458.7	84	561		
Refrigerant 21	CHCl ₂ F	102.93	48	8.4	353	750		3.82
Refrigerant 22	CHClF ₂	86.48	-41	122.5	205	716		
Refrigerant 23	CHF ₃	70.02	-119	635	91	691		
Sodium Chloride ⁽¹⁾	NaCl						1.19	
Sodium Hydroxide ⁽¹⁾	NaOH						1.27	
Sodium Sulfate ⁽¹⁾	Na ₂ SO ₄						1.24	
Sodium Thiosulfate ⁽¹⁾	Na ₂ SO ₃						1.23	
Starch	(C ₆ H ₁₀ O ₅) _x						1.50	
Sugar Solutions ⁽¹⁾	C ₁₂ H ₂₂ O ₁₁						1.10	
Sulfuric Acid	H ₂ SO ₄	98.08	626				1.83	
Sulfur Dioxide	SO ₂	64.6	14	34.4	316	1145	1.39	2.21
Turpentine			320				0.87	
Water	H ₂ O	18.016	212	0.9492 ⁽²⁾	706	3208	1.00	0.62
Zinc Chloride ⁽¹⁾	ZnCl ₂						1.24	
Zinc Sulfate ⁽¹⁾	ZnSO ₄						1.31	

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.