

**Table I**  
**Thermodynamic Properties of**  
**Saturated Ammonia\* by Temperature**

Temperature F	Pressure Lbs. Per Sq. In. Absolute	Specific Heat BTU/LB. F	Specific Volume Cu. Ft. Per Lb.		Enthalpy of Liquid BTU/Lb.	Latent Heat of Evaporation BTU/Lb.	Enthalpy of Vapor BTU/Lb.	Entropy BTU/Lb. F		Density Pounds Per Cu. Ft.	
			LIQUID	VAPOR				LIQUID	VAPOR	LIQUID	VAPOR
-60	5.55	1.054	0.02278	44.730	(99.08)	610.8	511.7	(0.2225)	1.3061	43.91	0.02235
-50	7.67	1.058	0.02299	33.080	(88.51)	604.3	515.8	(0.1964)	1.2789	43.49	0.03023
-40	10.41	1.062	0.02322	24.860	(77.90)	597.6	519.7	(0.1708)	1.2534	43.08	0.04022
-30	13.90	1.066	0.02345	18.970	(67.24)	590.7	523.5	(0.1457)	1.2293	42.65	0.05271
-20	18.30	1.070	0.02369	14.680	(56.54)	583.6	527.1	(0.1210)	1.2066	42.22	0.06813
-10	23.74	1.075	0.02393	11.500	(45.79)	576.4	530.6	(0.0969)	1.1850	41.78	0.08695
0	30.42	1.080	0.02419	9.116	(34.98)	568.9	533.9	(0.0732)	1.1644	41.34	0.10970
10	38.51	1.085	0.02446	7.304	(24.11)	561.1	537.0	(0.0499)	1.1449	40.89	0.13690
20	48.21	1.091	0.02474	5.910	(13.19)	553.1	539.9	(0.0270)	1.1261	40.43	0.16920
30	59.74	1.097	0.02503	4.825	(2.19)	544.8	542.6	(0.0044)	1.1082	39.96	0.20730
40	73.32	1.104	0.02533	3.971	8.87	536.2	545.1	(0.0177)	1.0910	39.49	0.25180
50	89.19	1.112	0.02564	3.294	20.04	527.3	547.3	(0.0397)	1.0745	39.00	0.30360
60	107.60	1.120	0.02597	2.751	31.28	518.1	549.4	(0.0614)	1.0586	38.50	0.36350
70	128.80	1.129	0.02632	2.312	42.64	508.6	551.2	(0.0829)	1.0432	38.00	0.43250
80	153.00	1.138	0.02668	1.955	54.09	498.7	552.8	(0.1041)	1.0283	37.48	0.51150
90	180.60	1.147	0.02707	1.661	65.65	488.5	554.1	(0.1250)	1.0138	36.95	0.60190
100	211.90	1.156	0.02747	1.419	77.31	477.8	555.1	(0.1458)	0.9997	36.40	0.70480
110	247.00	1.168	0.02790	1.217	89.11	466.7	555.8	(0.1664)	0.9858	35.84	0.82190
120	286.40	1.183	0.02836	1.047	101.08	455.0	556.1	(0.1868)	0.9719	35.26	0.95490
130	330.30	(1.197)	0.02885	.....	(113.00)	443.0)	.....	.....	.....	34.66	.....
140	379.10	(1.213)	0.02938	.....	(125.00)	(430.0)	.....	.....	.....	34.04	.....
150	433.20	(1.230)	0.02995	.....	(138.00)	(416.0)	.....	.....	.....	33.39	.....
160	492.80	(1.250)	0.03056	.....	(151.00)	(401.0)	.....	.....	.....	32.72	.....
170	558.40	(1.270)	0.03124	.....	(163.00)	(386.0)	.....	.....	.....	32.01	.....
180	630.30	(1.300)	0.03198	.....	(177.00)	(369.0)	.....	.....	.....	31.27	.....
190	708.90	(1.340)	0.03281	.....	(191.00)	(351.0)	.....	.....	.....	30.48	.....
200	794.70	(1.380)	0.03375	.....	(205.00)	(332.0)	.....	.....	.....	29.63	.....
210	888.10	(1.430)	0.03482	.....	(219.00)	(310.0)	.....	.....	.....	28.72	.....
220	989.50	(1.490)	0.03610	.....	(235.00)	(287.0)	.....	.....	.....	27.70	.....
230	1,099.50	(1.570)	0.03760	.....	(251.00)	(260.0)	.....	.....	.....	26.60	.....
240	1,218.50	(1.700)	0.03950	.....	(268.00)	(229.0)	.....	.....	.....	25.30	.....
250	1,347.00	(1.900)	0.04220	.....	(287.00)	(192.0)	.....	.....	.....	23.70	.....
260	1,486.00	(2.330)	0.04630	.....	(309.00)	(142.0)	.....	.....	.....	21.60	.....
270	1,635.00	(5.300)	0.05770	.....	(341.00)	(52.0)	.....	.....	.....	17.30	.....
271.4	1,657.00	.....	0.06860	.....	(355.00)	0	.....	.....	.....	14.60	.....

\*Data from Bureau of Standards Circular No. 142

Base Temperature: 32F.

Note: The figures in parentheses were calculated from empirical equations given in Bureau of Standards Scientific papers Nos. 313 and 315 and represent values obtained by extrapolation beyond the range covered in the experimental work.