

THERMAL AND MECHANICAL EQUIPMENT
COMPANY

1423 E. RICHEY ROAD
HOUSTON, TX 77073-3508



NUK- Steam Tables

Press psig	Press psia	Temp. °F	Spec. Vol (Cu.Ft./LB.)			Enthalpy (Btu/Lb.)			Entropy (Btu/°F/Lb.)			Internal Energy (Btu/Lb.)		
			Sat.	Evap	Sat Vapor	Sat.	Evap	Sat	Sat.	Evap	Sat	Sat.	Evap	Sat
			Liq.	vfg	vg	Liq.	hfg	Vapor	Liq.	sfg	Vapor	Liq.	ufg	Vapor
			vf			hf		hg	sf		sg	Uf		ug
-14.5	0.2	53.14	0.016	0	1526	21.21	1063.8	1085	0.0422	2.0741	2.1163	21.21	1007.3	1028.5
-14.4	0.3	64.47	0.0161	0	1039.5	32.52	1057.4	1090	0.0641	2.0171	2.0812	32.52	999.8	1032.3
-14.3	0.4	72.86	0.0161	0	791.9	40.89	1052.7	1093.6	0.0799	1.9764	2.0563	40.89	994.1	1035
-14.2	0.5	79.58	0.0161	0	641.4	47.6	1048.8	1096.4	0.0924	1.9448	2.0372	47.6	989.5	1037.1
-14.1	0.6	85.21	0.0161	0	540	53.21	1045.7	1098.9	0.1028	1.9188	2.0216	53.21	985.7	1038.9
-14	0.7	90.08	0.0161	0	466.9	58.07	1042.9	1101	0.1117	1.8968	2.0085	58.07	982.4	1040.5
-13.9	0.8	94.38	0.0161	0	411.7	62.36	1040.4	1102.8	0.1194	1.8777	1.9971	62.36	979.5	1041.9
-13.8	0.9	98.24	0.0161	0	368.4	66.21	1038.3	1104.5	0.1263	1.8608	1.9871	66.21	976.9	1043.1
-13.7	1	101.74	0.0161	0	333.6	69.7	1036.3	1106	0.1326	1.8456	1.9782	69.7	974.6	1044.3
-13.5	1.2	107.92	0.0162	0	280.9	75.87	1032.7	1108.6	0.1435	1.8193	1.9628	75.87	970.3	1046.2
-13.3	1.4	113.26	0.0162	0	243	81.2	1029.6	1110.8	0.1528	1.7971	1.9498	81.2	966.7	1047.9
-13.1	1.6	117.99	0.0162	0	214.3	85.91	1026.9	1112.8	0.161	1.7776	1.9386	85.91	963.5	1049.4
-12.9	1.8	122.23	0.0162	0	191.8	90.14	1024.5	1114.6	0.1683	1.7605	1.9288	90.14	960.6	1050
-12.7	2	126.08	0.0162	0	173.73	93.99	1022.2	1116.2	0.1749	1.7451	1.92	93.98	957.9	1051.9
-12.5	2.2	129.62	0.0162	0	158.85	97.52	1020.2	1117.7	0.1809	1.7311	1.912	97.51	955.5	1053.6
-12.3	2.4	132.89	0.0163	0	146.38	100.79	1018.3	1119.1	0.1864	1.7183	1.9047	100.78	953.3	1054.4
-12.1	2.6	135.94	0.0163	0	135.78	103.83	1016.5	1120.3	0.1916	1.7065	1.8981	103.82	951.2	1055
-11.9	2.8	138.79	0.0163	0	126.65	106.68	1014.8	1121.5	0.1963	1.6957	1.892	106.67	949.2	1055.9
-11.7	3	141.48	0.0163	0	118.71	109.37	1013.2	1122.6	0.2008	1.6855	1.8863	109.36	947.3	1056.7
-10.7	4	152.97	0.0164	0	90.63	120.86	1006.4	1127.3	0.2198	1.6427	1.8625	120.85	939.3	1060.2
-9.7	5	162.24	0.0164	0	73.52	130.13	1001	1131.1	0.2347	1.6094	1.8444	130.12	933	1063.1
-8.7	6	170.06	0.0165	0	61.98	137.96	996.2	1134.2	0.2472	1.582	1.8292	137.94	927.5	1065.4

-7.7	7	176.85	0.0165	0	53.64	144.76	992.1	1136.9	0.2581	1.5586	1.8167	144.74	922.7	1067.4
-6.7	8	182.86	0.0165	0	47.34	150.79	988.5	1139.3	0.2674	1.5383	1.8057	150.77	918.4	1069.2
-5.7	9	188.28	0.0166	0	42.4	156.22	985.2	1141.4	0.2759	1.5203	1.7962	156.19	914.6	1070.8
-4.7	10	193.21	0.0166	0	38.42	161.17	982.1	1143.3	0.2835	1.5041	1.7876	161.44	911.1	1072.2
0	14.696	212	0.0167	0	26.8	180.07	970.3	1150.4	0.312	1.4446	1.7566	180.02	897.5	1077.5
0.3	15	213.03	0.0167	0	26.29	181.11	969.7	1150.8	0.3135	1.4415	1.7549	181.06	896.7	1077.8
5.3	20	227.96	0.0168	0	20.09	196.16	960.1	1156.3	0.3356	1.3962	1.7319	196.1	885.8	1081.9
10.3	25	240.07	0.0169	0	16.3	208.42	952.1	1160.6	0.3533	1.3606	1.7139	208.34	876.8	1085.1
15.3	30	250.33	0.017	0	13.75	218.82	945.3	1164.1	0.368	1.3313	1.6993	218.73	869.1	1087.8
20.3	35	259.28	0.0171	0	11.9	227.91	939.2	1167.1	0.3807	1.3063	1.687	227.8	862.3	1090.1
25.3	40	267.25	0.0172	0	10.5	236.03	933.7	1169.7	0.3919	1.2844	1.6763	235.9	856.1	1092
30.3	45	274.44	0.0172	0	9.4	243.36	928.6	1172	0.4019	1.265	1.6669	243.22	850.5	1093.7
35.3	50	281.01	0.0173	0	8.52	250.09	924	1174.1	0.411	1.2474	1.6585	249.93	845.4	1095.3
40.3	55	287.07	0.0173	0	7.79	256.3	919.6	1175.9	0.4193	1.2316	1.6509	256.12	840.6	1096.7
45.3	60	292.71	0.0174	0	7.18	262.09	915.5	1177.6	0.427	1.2168	1.6438	261.9	836	1097.9
50.3	65	297.97	0.0174	0	6.66	267.5	911.6	1179.1	0.4342	1.2032	1.6374	267.29	831.8	1099.1
55.3	70	302.92	0.0175	0	6.21	272.61	907.9	1180.6	0.4409	1.1906	1.6315	272.38	827.8	1100.2
60.3	75	307.6	0.0175	0	5.82	277	904.5	1181.9	0.4472	1.1787	1.6259	277.19	824	1101.2
65.3	80	312.03	0.0176	0	5.47	282.02	901.1	1183.1	0.4531	1.1676	1.6207	281.76	820.3	1102.1
70.3	85	316.25	0.0176	0	5.1689	286.39	897.8	1184.2	0.4587	1.1571	1.6158	286.11	816.8	1102.9
75.3	90	320.27	0.0177	0	4.896	290.56	894.7	1185.3	0.4641	1.1471	1.6112	290.27	813.4	1103.7
80.3	95	324.12	0.0177	0	4.652	294.56	891.7	1186.2	0.4692	1.1376	1.6068	294.25	810.2	1104.5
85.3	100	327.81	0.0177	0	4.432	298.4	888.8	1187.2	0.474	1.1286	1.6026	298.08	807.1	1105.2
90.3	105	331.36	0.0178	0	4.232	302.1	886	1188.1	0.4787	1.1199	1.5986	301.75	804.1	1105.9
95.3	110	334.77	0.0178	0	4.049	305.66	883.2	1188.9	0.4832	1.1117	1.5948	305.3	801.2	1106.5
100.3	115	338.07	0.0179	0	3.882	309.11	880.6	1189.7	0.4875	1.1037	1.5912	308.73	798.4	1107.1
105.3	120	341.25	0.0179	0	3.728	312.44	877.9	1190.4	0.4916	1.0962	1.5878	312.05	795.6	1107.6
110.3	125	344.33	0.0179	0	3.587	315.68	875.4	1191.1	0.4956	1.0888	1.5844	315.26	792.8	1108.1
115.3	130	347.32	0.018	0	3.455	318.81	872.9	1191.7	0.4995	1.0817	1.5812	318.38	790.2	1108.6
120.3	135	350.21	0.018	0	3.333	321.85	870.6	1192.4	0.5032	1.0749	1.5781	321.4	787.7	1109.1
125.3	140	353.02	0.018	0	3.22	324.82	868.2	1193	0.5069	1.0682	1.5751	324.35	785.2	1109.6
130.3	145	355.76	0.0181	0	3.114	327.7	865.8	1193.5	0.5104	1.0618	1.5722	327.22	782.8	1110
135.3	150	358.42	0.0181	0	3.015	330.51	863.6	1194.1	0.5138	1.0556	1.5694	330.01	780.5	1110.5
145.3	160	363.53	0.0182	0	2.834	335.93	859.2	1195.1	0.5204	1.0436	1.564	335.39	775.8	1111.2

155.3	170	368.41	0.0182	0	2.675	341.09	854.9	1196	0.5266	1.0324	1.559	340.52	771.4	1111.9
165.3	180	373.06	0.0183	0	2.532	346.03	850.8	1196.9	0.5325	1.0217	1.5542	345.42	767.1	1112.5
175.3	190	377.51	0.0183	0	2.404	350.79	846.8	1197.6	0.5381	1.0116	1.5497	350.15	763	1113.1
185.3	200	381.79	0.0184	0	2.288	355.36	843	1198.4	0.5435	1.0018	1.5453	354.68	759	1113.7
195.3	210	385.9	0.0184	0	2.183	359.77	839.2	1199	0.5487	0.9925	1.5412	359.05	755.2	1114.2
205.3	220	389.86	0.0185	0	2.087	364.02	835.6	1199.6	0.5537	0.9835	1.5372	363.27	751.3	1114.6
215.3	230	393.68	0.0185	0	1.9992	368.13	832	1200.1	0.5585	0.975	1.5334	367.34	747.7	1115
225.3	240	397.37	0.0186	0	1.9183	372.12	828.5	1200.6	0.5631	0.9667	1.5298	371.29	744.1	1115.4
235.3	250	400.95	0.0187	0	1.8438	376	825.1	1201.1	0.5675	0.9588	1.5263	375.14	740.7	1115.8
245.3	260	404.42	0.0187	0	1.7748	379.76	821.8	1201.5	0.5719	0.951	1.5229	378.86	737,3	1116.1
255.3	270	407.78	0.0188	0	1.7107	383.42	818.5	1201.9	0.576	0.9436	1.5196	382.48	733.9	1116.4
265.3	280	411.05	0.0188	0	1.6511	386.98	815.3	1202.3	0.5801	0.9363	1.5164	386.01	730.7	1116.7
275.3	290	414.23	0.0189	0	1.5954	390.46	812.1	1202.6	0.5841	0.9292	1.5133	389.45	727.5	1116.9
285.3	300	417.33	0.0189	0	1.5433	393.84	809	1202.8	0.5879	0.9225	1.5104	392.79	724.3	1117.1
335.3	350	431.72	0.0191	0	1.326	409.69	794.2	1203.9	0.6056	0.891	1.4966	408.45	709.6	1118
385.3	400	444.59	0.0193	0	1.1613	424	780.5	1204.5	0.6214	0.863	1.4844	422.6	695.9	1118.5
435.3	450	456.28	0.0195	0	1.032	437.2	767.4	1204.6	0.6356	0.8378	1.4734	435.5	683.2	1118.7
485.3	500	467.01	0.0197	0.9081	0.9278	449.4	755	1204.4	0.6487	0.8147	1.4634	447.6	0	1118.6
585.3	600	486.21	0.0201	0.7497	0.7698	471.6	731.6	1203.2	0.672	0.7734	1.4454	469.4	0	1117.7
685.3	700	503.1	0.0205	0.6349	0.6554	491.5	709.7	1201.2	0.6925	0.7371	1.4296	488.8	0	1116.3
785.3	800	518.23	0.0209	0.5478	0.5687	509.7	688.9	1198.6	0.7108	0.7045	1.4153	506.6	0	1114.4
885.3	900	531.98	0.0212	0.4794	0.5006	526.6	668.8	1195.4	0.7275	0.6744	1.402	523.1	0	1112.1
985.3	1000	544.61	0.0216	0.424	0.4456	542.4	649.4	1191.8	0.743	0.6467	1.3897	538.4	0	1109.4
1085.3	1100	556.31	0.022	0.3781	0.4001	557.4	630.4	1187.8	0.7575	0.6205	1.378	552.9	0	1106.4
1185.3	1200	567.22	0.0223	0.3396	0.3619	571.7	611.7	1183.4	0.771	0.5956	1.3667	566.7	0	1103
1285.3	1300	577.46	0.0227	0.3066	0.3293	585.4	593.2	1178.6	0.784	0.5719	1.3559	580	0	1099.4
1385.3	1400	587.1	0.0231	0.2781	0.3012	598.7	574.7	1173.4	0.7963	0.5491	1.3454	592.7	0	1095.4
1485.3	1500	596.23	0.0235	0.253	0.2765	611.6	556.3	1167.9	0.8082	0.5269	1.3351	605.1	0	1091.2
1585.3	1600	604.9	0.0239	0.2309	0.2548	624.1	538	1162.1	0.8196	0.5053	1.3249	617	0	1086.7
1685.3	1700	613.15	0.0243	0.2111	0.2354	636.3	519.6	1155.9	0.8306	0.4843	1.3149	628.7	0	1081.8
1785.3	1800	621.03	0.0247	0.1932	0.2179	648.3	501.1	1149.4	0.8412	0.4637	1.3049	640.1	0	1076.8
1885.3	1900	628.58	0.0252	0.1769	0.2021	660.1	482.4	1142.4	0.8516	0.4433	1.2949	651.2	0	1071.4
1985.3	2000	635.82	0.0257	0.1621	0.1878	671.7	463.4	1135.1	0.8619	0.423	1.2849	662.2	0	1065.6
2185.3	2200	649.46	0.0268	0.1358	0.1625	694.8	424.4	1119.1	0.882	0.3826	1.2646	683.9	0	1053.1

2385.3	2400	662.12	0.028	0.1128	0.1407	718.4	382.7	1101.1	0.9023	0.3411	1.2434	706	0	1038.6
2585.3	2600	673.94	0.0295	0.0918	0.1213	743	337.2	1080.2	0.9232	0.2973	1.2205	728.8	0	1021.9
2785.3	2800	684.99	0.0315	0.0719	0.1035	770.1	284.7	1054.8	0.9459	0.2487	1.1946	753.8	0	1001.2
2985.3	3000	695.36	0.0346	0.0512	0.0858	802.5	217.8	1020.3	0.9731	0.1885	1.1615	783.4	0	972.7
3185.3	3200	705.11	0.0444	0.0114	0.058	872.4	62	934.4	1.032	0.0532	1.0852	846	0	898.4
3191.5	3206.2	705.4	0.0503	0	0.0503	902.7	0	902.7	1.058	0	1.058	872.9	0	872.9