



Pressure (psia)	Temp. (°F)	Volume (ft <sup>3</sup> /lbm)		Density (lbm/ft <sup>3</sup> )		Enthalpy (Btu/lbm)			Entropy (Btu/lbm-°R)		Int. Energy (Btu/lbm)		Cp/Cv		Sound Speed (ft/s)	
		Liquid	Vapor	Liquid	Vapor	Liquid	Latent	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor
7	-80.85	0.02549	13.5120	39.23	0.0740	-21.33	195.81	174.48	-0.0533	0.4636	-21.36	156.97	1.5829	1.2085	4192.6	719.8
8	-76.27	0.02562	11.9400	39.04	0.0838	-18.97	194.66	175.69	-0.0471	0.4606	-19.01	158.00	1.5852	1.2086	4138.9	722.6
9	-72.13	0.02573	10.7050	38.87	0.0934	-16.84	193.62	176.78	-0.0416	0.4580	-16.88	158.94	1.5873	1.2089	4090.3	725.0
10	-68.33	0.02584	9.7092	38.71	0.1030	-14.87	192.65	177.78	-0.0366	0.4557	-14.92	159.80	1.5891	1.2092	4045.8	727.1
11	-64.83	0.02594	8.8880	38.56	0.1125	-13.05	191.75	178.70	-0.0319	0.4537	-13.11	160.59	1.5909	1.2096	4004.7	729.0
12	-61.56	0.02603	8.1988	38.42	0.1220	-11.35	190.90	179.55	-0.0277	0.4519	-11.41	161.33	1.5925	1.2100	3966.4	730.6
13	-58.50	0.02612	7.6119	38.29	0.1314	-9.76	190.11	180.35	-0.0237	0.4502	-9.82	162.03	1.5941	1.2104	3930.5	732.2
14	-55.63	0.02620	7.1058	38.17	0.1407	-8.25	189.35	181.10	-0.0200	0.4487	-8.32	162.68	1.5955	1.2109	3896.6	733.5
15	-52.90	0.02628	6.6647	38.05	0.1500	-6.82	188.63	181.81	-0.0164	0.4473	-6.89	163.29	1.5969	1.2114	3864.6	734.8
16	-50.32	0.02636	6.2767	37.94	0.1593	-5.46	187.94	182.48	-0.0131	0.4460	-5.54	163.88	1.5983	1.2120	3834.3	735.9
17	-47.86	0.02643	5.9326	37.83	0.1686	-4.16	187.27	183.11	-0.0100	0.4448	-4.25	164.44	1.5995	1.2125	3805.3	736.9
18	-45.50	0.02650	5.6254	37.73	0.1778	-2.92	186.64	183.72	-0.0070	0.4437	-3.01	164.97	1.6008	1.2131	3777.6	737.9
19	-43.25	0.02657	5.3492	37.63	0.1869	-1.73	186.03	184.30	-0.0041	0.4426	-1.82	165.48	1.6020	1.2137	3751.1	738.7
20	-41.09	0.02664	5.0997	37.54	0.1961	-0.58	185.44	184.86	-0.0014	0.4416	-0.68	165.97	1.6031	1.2143	3725.6	739.5
21	-39.01	0.02671	4.8730	37.45	0.2052	0.53	184.86	185.39	0.0013	0.4407	0.42	166.44	1.6042	1.2149	3701.1	740.3
22	-37.00	0.02677	4.6661	37.36	0.2143	1.60	184.30	185.90	0.0038	0.4398	1.49	166.89	1.6053	1.2155	3677.5	741.0
23	-35.07	0.02683	4.4765	37.27	0.2234	2.63	183.77	186.40	0.0062	0.4390	2.52	167.33	1.6064	1.2162	3654.6	741.6
24	-33.19	0.02689	4.3021	37.19	0.2324	3.64	183.23	186.87	0.0086	0.4382	3.52	167.75	1.6074	1.2168	3632.5	742.2
25	-31.38	0.02695	4.1411	37.11	0.2415	4.61	182.72	187.33	0.0108	0.4375	4.48	168.16	1.6084	1.2175	3611.1	742.8
26	-29.62	0.02701	3.9920	37.03	0.2505	5.55	182.23	187.78	0.0130	0.4367	5.42	168.56	1.6094	1.2181	3590.3	743.3
27	-27.91	0.02706	3.8536	36.95	0.2595	6.47	181.74	188.21	0.0151	0.4361	6.34	168.94	1.6104	1.2188	3570.2	743.7
28	-26.25	0.02712	3.7246	36.88	0.2685	7.37	181.26	188.63	0.0172	0.4354	7.23	169.32	1.6114	1.2195	3550.6	744.2
29	-24.64	0.02717	3.6042	36.81	0.2775	8.24	180.79	189.03	0.0192	0.4348	8.10	169.68	1.6123	1.2202	3531.5	744.6
30	-23.06	0.02722	3.4915	36.74	0.2864	9.09	180.34	189.43	0.0211	0.4342	8.94	170.03	1.6133	1.2209	3512.9	745.0
31	-21.53	0.02727	3.3857	36.67	0.2954	9.93	179.88	189.81	0.0230	0.4336	9.77	170.38	1.6142	1.2215	3494.7	745.3
32	-20.03	0.02732	3.2863	36.60	0.3043	10.74	179.45	190.19	0.0249	0.4330	10.58	170.71	1.6151	1.2222	3477.0	745.6
33	-18.57	0.02737	3.1927	36.53	0.3132	11.54	179.02	190.55	0.0267	0.4325	11.37	171.04	1.6160	1.2229	3459.7	745.9
34	-17.14	0.02742	3.1044	36.47	0.3221	12.31	178.59	190.90	0.0284	0.4320	12.14	171.36	1.6169	1.2237	3442.8	746.2
35	-15.75	0.02747	3.0209	36.40	0.3310	13.08	178.17	191.25	0.0301	0.4315	12.90	171.67	1.6177	1.2244	3426.2	746.5
36	-14.38	0.02752	2.9419	36.34	0.3399	13.82	177.77	191.59	0.0318	0.4310	13.64	171.98	1.6186	1.2251	3410.0	746.7
37	-13.04	0.02757	2.8670	36.28	0.3488	14.56	177.36	191.92	0.0334	0.4305	14.37	172.28	1.6195	1.2258	3394.2	746.9
38	-11.73	0.02761	2.7958	36.22	0.3577	15.28	176.96	192.24	0.0350	0.4301	15.08	172.57	1.6203	1.2265	3378.6	747.1
39	-10.45	0.02766	2.7282	36.16	0.3665	15.98	176.58	192.56	0.0366	0.4297	15.78	172.85	1.6211	1.2273	3363.4	747.3
40	-9.19	0.02770	2.6638	36.10	0.3754	16.68	176.19	192.87	0.0381	0.4292	16.47	173.14	1.6220	1.2280	3348.4	747.5
41	-7.95	0.02775	2.6024	36.04	0.3843	17.36	175.81	193.17	0.0396	0.4288	17.15	173.41	1.6228	1.2287	3333.7	747.6
42	-6.74	0.02779	2.5439	35.99	0.3931	18.03	175.43	193.46	0.0411	0.4284	17.81	173.68	1.6236	1.2295	3319.3	747.7
43	-5.55	0.02783	2.4879	35.93	0.4020	18.69	175.06	193.75	0.0425	0.4280	18.47	173.94	1.6244	1.2302	3305.2	747.9
44	-4.37	0.02787	2.4344	35.88	0.4108	19.34	174.70	194.04	0.0439	0.4277	19.11	174.20	1.6252	1.2310	3291.2	748.0
45	-3.22	0.02792	2.3831	35.82	0.4196	19.98	174.34	194.32	0.0453	0.4273	19.75	174.46	1.6261	1.2317	3277.5	748.1
46	-2.09	0.02796	2.3340	35.77	0.4285	20.61	173.98	194.59	0.0467	0.4269	20.37	174.71	1.6269	1.2325	3264.1	748.1

Pressure (psia)	Temp. (°F)	Volume (ft <sup>3</sup> /lbm)		Density (lbm/ft <sup>3</sup> )		Enthalpy (Btu/lbm)			Entropy (Btu/lbm-°R)		Int. Energy (Btu/lbm)		Cp/Cv		Sound Speed (ft/s)	
		Liquid	Vapor	Liquid	Vapor	Liquid	Latent	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor
47	-0.98	0.02800	2.2869	35.72	0.4373	21.23	173.63	194.86	0.0480	0.4266	20.98	174.96	1.6276	1.2332	3250.8	748.2
48	0.12	0.02804	2.2417	35.66	0.4461	21.84	173.28	195.12	0.0494	0.4262	21.59	175.20	1.6284	1.2340	3237.8	748.3
49	1.20	0.02808	2.1983	35.61	0.4549	22.44	172.94	195.38	0.0507	0.4259	22.19	175.44	1.6292	1.2347	3224.9	748.3
50	2.26	0.02812	2.1565	35.56	0.4637	23.03	172.61	195.64	0.0519	0.4256	22.77	175.67	1.6300	1.2355	3212.2	748.3
51	3.31	0.02816	2.1163	35.51	0.4725	23.62	172.27	195.89	0.0532	0.4253	23.35	175.90	1.6308	1.2363	3199.8	748.4
52	4.34	0.02820	2.0775	35.46	0.4813	24.20	171.93	196.13	0.0544	0.4250	23.93	176.13	1.6316	1.2370	3187.5	748.4
53	5.36	0.02824	2.0402	35.41	0.4902	24.77	171.60	196.37	0.0556	0.4247	24.49	176.35	1.6323	1.2378	3175.4	748.4
54	6.36	0.02828	2.0042	35.37	0.4990	25.33	171.28	196.61	0.0568	0.4244	25.05	176.57	1.6331	1.2386	3163.4	748.4
55	7.35	0.02831	1.9694	35.32	0.5078	25.89	170.96	196.85	0.0580	0.4241	25.60	176.79	1.6339	1.2394	3151.6	748.4
56	8.32	0.02835	1.9359	35.27	0.5166	26.44	170.64	197.08	0.0592	0.4238	26.14	177.00	1.6346	1.2401	3140.0	748.4
57	9.29	0.02839	1.9035	35.23	0.5254	26.98	170.32	197.30	0.0603	0.4235	26.68	177.21	1.6354	1.2409	3128.5	748.3
58	10.24	0.02843	1.8721	35.18	0.5342	27.52	170.01	197.53	0.0615	0.4233	27.21	177.42	1.6362	1.2417	3117.1	748.3
59	11.17	0.02846	1.8418	35.13	0.5430	28.05	169.70	197.75	0.0626	0.4230	27.74	177.62	1.6369	1.2425	3105.9	748.3
60	12.10	0.02850	1.8124	35.09	0.5518	28.57	169.39	197.96	0.0637	0.4227	28.26	177.83	1.6377	1.2433	3094.8	748.2
61	13.01	0.02854	1.7839	35.04	0.5606	29.09	169.09	198.18	0.0648	0.4225	28.77	178.02	1.6384	1.2441	3083.9	748.2
62	13.92	0.02857	1.7564	35.00	0.5694	29.61	168.79	198.39	0.0658	0.4222	29.28	178.22	1.6392	1.2449	3073.1	748.1
63	14.81	0.02861	1.7296	34.96	0.5782	30.11	168.48	198.59	0.0669	0.4220	29.78	178.41	1.6400	1.2457	3062.4	748.0
64	15.69	0.02864	1.7037	34.91	0.5870	30.62	168.19	198.80	0.0680	0.4218	30.28	178.61	1.6407	1.2465	3051.9	748.0
65	16.56	0.02868	1.6785	34.87	0.5958	31.11	167.89	199.00	0.0690	0.4215	30.77	178.80	1.6415	1.2473	3041.4	747.9
66	17.42	0.02871	1.6541	34.83	0.6046	31.60	167.60	199.20	0.0700	0.4213	31.25	178.98	1.6422	1.2481	3031.1	747.8
67	18.28	0.02875	1.6304	34.79	0.6134	32.09	167.30	199.39	0.0710	0.4211	31.73	179.17	1.6430	1.2489	3020.9	747.7
68	19.12	0.02878	1.6073	34.74	0.6222	32.57	167.02	199.59	0.0720	0.4208	32.21	179.35	1.6437	1.2497	3010.8	747.6
69	19.95	0.02882	1.5849	34.70	0.6310	33.05	166.73	199.78	0.0730	0.4206	32.68	179.53	1.6445	1.2505	3000.8	747.5
70	20.78	0.02885	1.5631	34.66	0.6398	33.52	166.45	199.97	0.0740	0.4204	33.15	179.70	1.6452	1.2513	2990.9	747.4
71	21.59	0.02889	1.5418	34.62	0.6486	33.99	166.16	200.15	0.0749	0.4202	33.61	179.88	1.6460	1.2522	2981.2	747.3
72	22.40	0.02892	1.5212	34.58	0.6574	34.46	165.88	200.34	0.0759	0.4200	34.07	180.05	1.6467	1.2530	2971.5	747.1
73	23.20	0.02895	1.5011	34.54	0.6662	34.92	165.60	200.52	0.0768	0.4198	34.53	180.23	1.6475	1.2538	2961.9	747.0
74	23.99	0.02899	1.4815	34.50	0.6750	35.37	165.33	200.70	0.0778	0.4196	34.98	180.39	1.6482	1.2546	2952.4	746.9
75	24.77	0.02902	1.4624	34.46	0.6838	35.83	165.05	200.87	0.0787	0.4194	35.42	180.56	1.6490	1.2555	2943.0	746.8
76	25.55	0.02905	1.4437	34.42	0.6926	36.27	164.78	201.05	0.0796	0.4192	35.86	180.73	1.6497	1.2563	2933.7	746.6
77	26.32	0.02908	1.4256	34.38	0.7015	36.72	164.50	201.22	0.0805	0.4190	36.30	180.89	1.6504	1.2571	2924.4	746.5
78	27.08	0.02912	1.4079	34.35	0.7103	37.16	164.23	201.39	0.0814	0.4188	36.74	181.05	1.6512	1.2580	2915.3	746.3
79	27.83	0.02915	1.3906	34.31	0.7191	37.59	163.97	201.56	0.0823	0.4186	37.17	181.21	1.6519	1.2588	2906.3	746.2
80	28.58	0.02918	1.3737	34.27	0.7279	38.03	163.69	201.72	0.0832	0.4184	37.60	181.37	1.6527	1.2596	2897.3	746.0
81	29.31	0.02921	1.3573	34.23	0.7368	38.46	163.43	201.89	0.0840	0.4183	38.02	181.53	1.6534	1.2605	2888.4	745.9
82	30.05	0.02925	1.3412	34.19	0.7456	38.88	163.17	202.05	0.0849	0.4181	38.44	181.69	1.6542	1.2613	2879.6	745.7
83	30.77	0.02928	1.3255	34.16	0.7544	39.31	162.90	202.21	0.0857	0.4179	38.86	181.84	1.6549	1.2622	2870.8	745.5
84	31.49	0.02931	1.3101	34.12	0.7633	39.73	162.64	202.37	0.0866	0.4177	39.27	181.99	1.6557	1.2630	2862.2	745.4
85	32.21	0.02934	1.2951	34.08	0.7721	40.14	162.39	202.53	0.0874	0.4176	39.68	182.14	1.6564	1.2639	2853.6	745.2
86	32.91	0.02937	1.2804	34.05	0.7810	40.56	162.12	202.68	0.0883	0.4174	40.09	182.29	1.6572	1.2647	2845.0	745.0



Pressure (psia)	Temp. (°F)	Volume (ft <sup>3</sup> /lbm)		Density (lbm/ft <sup>3</sup> )		Enthalpy (Btu/lbm)			Entropy (Btu/lbm-°R)		Int. Energy (Btu/lbm)		Cp/Cv		Sound Speed (ft/s)	
		Liquid	Vapor	Liquid	Vapor	Liquid	Latent	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor
87	33.61	0.02940	1.2661	34.01	0.7898	40.97	161.87	202.84	0.0891	0.4172	40.49	182.44	1.6579	1.2656	2836.6	744.8
88	34.31	0.02943	1.2521	33.98	0.7987	41.37	161.62	202.99	0.0899	0.4171	40.89	182.59	1.6587	1.2665	2828.2	744.6
89	35.00	0.02946	1.2383	33.94	0.8076	41.78	161.36	203.14	0.0907	0.4169	41.29	182.73	1.6594	1.2673	2819.9	744.5
90	35.68	0.02950	1.2249	33.90	0.8164	42.18	161.11	203.29	0.0915	0.4167	41.69	182.88	1.6602	1.2682	2811.7	744.3
91	36.36	0.02953	1.2117	33.87	0.8253	42.58	160.86	203.44	0.0923	0.4166	42.08	183.02	1.6610	1.2690	2803.5	744.1
92	37.03	0.02956	1.1988	33.83	0.8342	42.97	160.61	203.58	0.0931	0.4164	42.47	183.16	1.6617	1.2699	2795.3	743.9
93	37.70	0.02959	1.1862	33.80	0.8430	43.37	160.36	203.73	0.0939	0.4163	42.86	183.30	1.6625	1.2708	2787.3	743.7
94	38.36	0.02962	1.1738	33.76	0.8519	43.76	160.11	203.87	0.0946	0.4161	43.24	183.44	1.6632	1.2717	2779.3	743.5
95	39.02	0.02965	1.1617	33.73	0.8608	44.14	159.87	204.01	0.0954	0.4160	43.62	183.57	1.6640	1.2725	2771.4	743.3
96	39.67	0.02968	1.1498	33.70	0.8697	44.53	159.62	204.15	0.0962	0.4158	44.00	183.71	1.6647	1.2734	2763.5	743.1
97	40.31	0.02971	1.1382	33.66	0.8786	44.91	159.38	204.29	0.0969	0.4157	44.38	183.84	1.6655	1.2743	2755.7	742.8
98	40.95	0.02974	1.1268	33.63	0.8875	45.29	159.13	204.42	0.0977	0.4155	44.75	183.98	1.6663	1.2752	2747.9	742.6
99	41.59	0.02977	1.1156	33.60	0.8964	45.67	158.89	204.56	0.0984	0.4154	45.12	184.11	1.6670	1.2761	2740.2	742.4
100	42.22	0.02980	1.1046	33.56	0.9053	46.04	158.65	204.69	0.0991	0.4152	45.49	184.24	1.6678	1.2770	2732.5	742.2
101	42.85	0.02983	1.0938	33.53	0.9142	46.42	158.41	204.83	0.0999	0.4151	45.86	184.37	1.6686	1.2779	2724.9	742.0
102	43.47	0.02986	1.0833	33.50	0.9231	46.79	158.17	204.96	0.1006	0.4150	46.22	184.50	1.6693	1.2788	2717.4	741.7
103	44.09	0.02989	1.0729	33.46	0.9321	47.16	157.93	205.09	0.1013	0.4148	46.59	184.63	1.6701	1.2797	2709.9	741.5
104	44.71	0.02991	1.0627	33.43	0.9410	47.52	157.70	205.22	0.1020	0.4147	46.95	184.75	1.6709	1.2806	2702.5	741.3
105	45.32	0.02994	1.0527	33.40	0.9499	47.89	157.46	205.35	0.1027	0.4146	47.30	184.88	1.6716	1.2815	2695.1	741.0
106	45.92	0.02997	1.0429	33.37	0.9589	48.25	157.22	205.47	0.1034	0.4144	47.66	185.00	1.6724	1.2824	2687.7	740.8
107	46.52	0.03000	1.0332	33.33	0.9678	48.61	156.99	205.60	0.1041	0.4143	48.01	185.13	1.6732	1.2833	2680.4	740.6
108	47.12	0.03003	1.0238	33.30	0.9768	48.96	156.76	205.72	0.1048	0.4142	48.36	185.25	1.6740	1.2842	2673.2	740.3
109	47.71	0.03006	1.0145	33.27	0.9857	49.32	156.53	205.85	0.1055	0.4140	48.71	185.37	1.6747	1.2851	2666.0	740.1
110	48.30	0.03009	1.0053	33.24	0.9947	49.67	156.30	205.97	0.1062	0.4139	49.06	185.49	1.6755	1.2860	2658.8	739.9
111	48.89	0.03012	0.9963	33.21	1.0037	50.02	156.07	206.09	0.1069	0.4138	49.41	185.61	1.6763	1.2870	2651.7	739.6
112	49.47	0.03014	0.9875	33.17	1.0127	50.37	155.84	206.21	0.1076	0.4137	49.75	185.73	1.6771	1.2879	2644.7	739.4
113	50.04	0.03017	0.9788	33.14	1.0216	50.72	155.61	206.33	0.1082	0.4135	50.09	185.85	1.6779	1.2888	2637.7	739.1
114	50.62	0.03020	0.9703	33.11	1.0306	51.07	155.37	206.44	0.1089	0.4134	50.43	185.96	1.6787	1.2898	2630.7	738.9
115	51.19	0.03023	0.9619	33.08	1.0396	51.41	155.15	206.56	0.1096	0.4133	50.77	186.08	1.6795	1.2907	2623.7	738.6
116	51.75	0.03026	0.9536	33.05	1.0486	51.75	154.93	206.68	0.1102	0.4132	51.10	186.19	1.6802	1.2916	2616.8	738.4
117	52.32	0.03029	0.9455	33.02	1.0576	52.09	154.70	206.79	0.1109	0.4130	51.44	186.31	1.6810	1.2926	2610.0	738.1
118	52.88	0.03031	0.9375	32.99	1.0667	52.43	154.47	206.90	0.1115	0.4129	51.77	186.42	1.6818	1.2935	2603.2	737.8
119	53.43	0.03034	0.9297	32.96	1.0757	52.77	154.25	207.02	0.1122	0.4128	52.10	186.53	1.6826	1.2945	2596.4	737.6
120	53.98	0.03037	0.9219	32.93	1.0847	53.10	154.03	207.13	0.1128	0.4127	52.43	186.64	1.6834	1.2954	2589.7	737.3
121	54.53	0.03040	0.9143	32.90	1.0937	53.44	153.81	207.24	0.1135	0.4126	52.75	186.75	1.6842	1.2964	2583.0	737.0
122	55.08	0.03043	0.9068	32.87	1.1028	53.77	153.58	207.35	0.1141	0.4125	53.08	186.86	1.6850	1.2974	2576.3	736.8
123	55.62	0.03045	0.8994	32.84	1.1118	54.10	153.36	207.46	0.1147	0.4123	53.40	186.97	1.6858	1.2983	2569.7	736.5
124	56.16	0.03048	0.8922	32.81	1.1209	54.42	153.14	207.56	0.1153	0.4122	53.72	187.08	1.6867	1.2993	2563.2	736.2
125	56.69	0.03051	0.8850	32.78	1.1300	54.75	152.92	207.67	0.1160	0.4121	54.05	187.19	1.6875	1.3003	2556.6	736.0
126	57.23	0.03054	0.8779	32.75	1.1390	55.08	152.70	207.78	0.1166	0.4120	54.36	187.29	1.6883	1.3013	2550.1	735.7



Pressure (psia)	Temp. (°F)	Volume (ft <sup>3</sup> /lbm)		Density (lbm/ft <sup>3</sup> )		Enthalpy (Btu/lbm)			Entropy (Btu/lbm-°R)		Int. Energy (Btu/lbm)		Cp/Cv		Sound Speed (ft/s)	
		Liquid	Vapor	Liquid	Vapor	Liquid	Latent	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor
127	57.76	0.03056	0.8710	32.72	1.1481	55.40	152.48	207.88	0.1172	0.4119	54.68	187.40	1.6891	1.3023	2543.6	735.4
128	58.28	0.03059	0.8642	32.69	1.1572	55.72	152.27	207.99	0.1178	0.4118	55.00	187.50	1.6899	1.3033	2537.2	735.2
129	58.81	0.03062	0.8574	32.66	1.1663	56.04	152.05	208.09	0.1184	0.4117	55.31	187.61	1.6907	1.3043	2530.8	734.9
130	59.33	0.03065	0.8508	32.63	1.1754	56.36	151.83	208.19	0.1190	0.4116	55.62	187.71	1.6915	1.3053	2524.4	734.6
131	59.85	0.03067	0.8442	32.60	1.1845	56.68	151.61	208.29	0.1196	0.4115	55.93	187.81	1.6924	1.3063	2518.1	734.3
132	60.36	0.03070	0.8378	32.57	1.1936	56.99	151.40	208.39	0.1202	0.4114	56.24	187.92	1.6932	1.3073	2511.8	734.0
133	60.87	0.03073	0.8314	32.54	1.2027	57.31	151.18	208.49	0.1208	0.4113	56.55	188.02	1.6940	1.3083	2505.5	733.8
134	61.38	0.03076	0.8252	32.52	1.2119	57.62	150.97	208.59	0.1214	0.4111	56.86	188.12	1.6949	1.3093	2499.3	733.5
135	61.89	0.03078	0.8190	32.49	1.2210	57.93	150.76	208.69	0.1220	0.4110	57.16	188.22	1.6957	1.3103	2493.1	733.2
136	62.39	0.03081	0.8129	32.46	1.2302	58.24	150.55	208.79	0.1226	0.4109	57.47	188.31	1.6965	1.3114	2486.9	732.9
137	62.89	0.03084	0.8069	32.43	1.2393	58.55	150.33	208.88	0.1232	0.4108	57.77	188.41	1.6974	1.3124	2480.8	732.6
138	63.39	0.03086	0.8010	32.40	1.2485	58.86	150.12	208.98	0.1237	0.4107	58.07	188.51	1.6982	1.3134	2474.7	732.3
139	63.89	0.03089	0.7951	32.37	1.2576	59.16	149.91	209.07	0.1243	0.4106	58.37	188.61	1.6991	1.3145	2468.6	732.1
140	64.38	0.03092	0.7894	32.35	1.2668	59.47	149.70	209.17	0.1249	0.4105	58.67	188.70	1.6999	1.3155	2462.5	731.8
141	64.87	0.03094	0.7837	32.32	1.2760	59.77	149.49	209.26	0.1254	0.4104	58.97	188.80	1.7008	1.3166	2456.5	731.5
142	65.36	0.03097	0.7781	32.29	1.2852	60.08	149.28	209.35	0.1260	0.4103	59.26	188.89	1.7016	1.3176	2450.5	731.2
143	65.84	0.03100	0.7726	32.26	1.2944	60.38	149.06	209.44	0.1266	0.4102	59.56	188.99	1.7025	1.3187	2444.6	730.9
144	66.32	0.03102	0.7671	32.23	1.3036	60.68	148.86	209.54	0.1271	0.4101	59.85	189.08	1.7033	1.3198	2438.6	730.6
145	66.81	0.03105	0.7617	32.21	1.3128	60.97	148.66	209.63	0.1277	0.4100	60.14	189.17	1.7042	1.3209	2432.7	730.3
146	67.28	0.03108	0.7564	32.18	1.3221	61.27	148.45	209.72	0.1282	0.4099	60.43	189.27	1.7051	1.3219	2426.8	730.0
147	67.76	0.03110	0.7511	32.15	1.3313	61.57	148.23	209.80	0.1288	0.4098	60.72	189.36	1.7059	1.3230	2421.0	729.7
148	68.23	0.03113	0.7460	32.12	1.3405	61.86	148.03	209.89	0.1293	0.4097	61.01	189.45	1.7068	1.3241	2415.2	729.4
149	68.70	0.03116	0.7409	32.10	1.3498	62.16	147.82	209.98	0.1299	0.4097	61.30	189.54	1.7077	1.3252	2409.4	729.1
150	69.17	0.03118	0.7358	32.07	1.3591	62.45	147.62	210.07	0.1304	0.4096	61.58	189.63	1.7086	1.3263	2403.6	728.8
151	69.64	0.03121	0.7308	32.04	1.3683	62.74	147.41	210.15	0.1310	0.4095	61.87	189.72	1.7094	1.3274	2397.8	728.5
152	70.10	0.03124	0.7259	32.02	1.3776	63.03	147.21	210.24	0.1315	0.4094	62.15	189.81	1.7103	1.3286	2392.1	728.2
153	70.56	0.03126	0.7210	31.99	1.3869	63.32	147.00	210.32	0.1320	0.4093	62.43	189.89	1.7112	1.3297	2386.4	727.9
154	71.02	0.03129	0.7162	31.96	1.3962	63.61	146.80	210.41	0.1326	0.4092	62.72	189.98	1.7121	1.3308	2380.7	727.6
155	71.48	0.03131	0.7115	31.93	1.4055	63.90	146.60	210.49	0.1331	0.4091	63.00	190.07	1.7130	1.3319	2375.1	727.3
156	71.94	0.03134	0.7068	31.91	1.4148	64.18	146.39	210.57	0.1336	0.4090	63.28	190.15	1.7139	1.3331	2369.5	727.0
157	72.39	0.03137	0.7022	31.88	1.4242	64.47	146.19	210.65	0.1342	0.4089	63.55	190.24	1.7148	1.3342	2363.9	726.7
158	72.84	0.03139	0.6976	31.85	1.4335	64.75	145.98	210.73	0.1347	0.4088	63.83	190.32	1.7157	1.3354	2358.3	726.4
159	73.29	0.03142	0.6931	31.83	1.4428	65.03	145.78	210.81	0.1352	0.4087	64.11	190.41	1.7166	1.3365	2352.7	726.1
160	73.74	0.03145	0.6886	31.80	1.4522	65.31	145.58	210.89	0.1357	0.4086	64.38	190.49	1.7175	1.3377	2347.2	725.8
161	74.18	0.03147	0.6842	31.78	1.4616	65.59	145.38	210.97	0.1362	0.4085	64.66	190.58	1.7184	1.3388	2341.7	725.5
162	74.62	0.03150	0.6798	31.75	1.4709	65.87	145.18	211.05	0.1367	0.4085	64.93	190.66	1.7193	1.3400	2336.2	725.2
163	75.06	0.03152	0.6755	31.72	1.4803	66.15	144.98	211.13	0.1372	0.4084	65.20	190.74	1.7203	1.3412	2330.8	724.9
164	75.50	0.03155	0.6713	31.70	1.4897	66.43	144.78	211.21	0.1378	0.4083	65.47	190.82	1.7212	1.3424	2325.3	724.5
165	75.94	0.03158	0.6671	31.67	1.4991	66.71	144.57	211.28	0.1383	0.4082	65.74	190.90	1.7221	1.3435	2319.9	724.2
166	76.38	0.03160	0.6629	31.64	1.5085	66.98	144.38	211.36	0.1388	0.4081	66.01	190.98	1.7230	1.3447	2314.5	723.9



Pressure (psia)	Temp. (°F)	Volume (ft <sup>3</sup> /lbm)		Density (lbm/ft <sup>3</sup> )		Enthalpy (Btu/lbm)			Entropy (Btu/lbm-°R)		Int. Energy (Btu/lbm)		Cp/Cv		Sound Speed (ft/s)	
		Liquid	Vapor	Liquid	Vapor	Liquid	Latent	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor
167	76.81	0.03163	0.6588	31.62	1.5179	67.26	144.18	211.44	0.1393	0.4080	66.28	191.06	1.7240	1.3459	2309.1	723.6
168	77.24	0.03165	0.6547	31.59	1.5274	67.53	143.98	211.51	0.1398	0.4079	66.55	191.14	1.7249	1.3471	2303.8	723.3
169	77.67	0.03168	0.6507	31.57	1.5368	67.81	143.79	211.59	0.1403	0.4078	66.81	191.22	1.7258	1.3483	2298.4	723.0
170	78.10	0.03171	0.6467	31.54	1.5463	68.08	143.58	211.66	0.1408	0.4078	67.08	191.30	1.7268	1.3496	2293.1	722.7
171	78.52	0.03173	0.6428	31.52	1.5557	68.35	143.38	211.73	0.1413	0.4077	67.34	191.38	1.7277	1.3508	2287.8	722.3
172	78.95	0.03176	0.6389	31.49	1.5652	68.62	143.18	211.80	0.1417	0.4076	67.61	191.46	1.7287	1.3520	2282.5	722.0
173	79.37	0.03178	0.6351	31.46	1.5747	68.89	142.99	211.88	0.1422	0.4075	67.87	191.53	1.7296	1.3532	2277.3	721.7
174	79.79	0.03181	0.6313	31.44	1.5842	69.16	142.79	211.95	0.1427	0.4074	68.13	191.61	1.7306	1.3545	2272.1	721.4
175	80.21	0.03183	0.6275	31.41	1.5937	69.42	142.60	212.02	0.1432	0.4073	68.39	191.69	1.7316	1.3557	2266.8	721.1
176	80.62	0.03186	0.6238	31.39	1.6032	69.69	142.40	212.09	0.1437	0.4072	68.65	191.76	1.7325	1.3569	2261.6	720.7
177	81.04	0.03189	0.6201	31.36	1.6127	69.96	142.20	212.16	0.1442	0.4072	68.91	191.84	1.7335	1.3582	2256.5	720.4
178	81.45	0.03191	0.6164	31.34	1.6222	70.22	142.01	212.23	0.1446	0.4071	69.17	191.91	1.7345	1.3595	2251.3	720.1
179	81.86	0.03194	0.6128	31.31	1.6318	70.49	141.82	212.30	0.1451	0.4070	69.43	191.98	1.7354	1.3607	2246.2	719.8
180	82.27	0.03196	0.6093	31.29	1.6413	70.75	141.62	212.37	0.1456	0.4069	69.68	192.06	1.7364	1.3620	2241.0	719.4
181	82.68	0.03199	0.6057	31.26	1.6509	71.01	141.42	212.43	0.1461	0.4068	69.94	192.13	1.7374	1.3633	2235.9	719.1
182	83.09	0.03201	0.6022	31.24	1.6605	71.27	141.23	212.50	0.1465	0.4067	70.19	192.20	1.7384	1.3645	2230.8	718.8
183	83.49	0.03204	0.5988	31.21	1.6700	71.53	141.04	212.57	0.1470	0.4067	70.45	192.28	1.7394	1.3658	2225.8	718.5
184	83.90	0.03207	0.5954	31.19	1.6796	71.79	140.84	212.63	0.1475	0.4066	70.70	192.35	1.7404	1.3671	2220.7	718.1
185	84.30	0.03209	0.5920	31.16	1.6893	72.05	140.65	212.70	0.1479	0.4065	70.95	192.42	1.7414	1.3684	2215.7	717.8
186	84.70	0.03212	0.5886	31.14	1.6989	72.31	140.45	212.76	0.1484	0.4064	71.21	192.49	1.7424	1.3697	2210.7	717.5
187	85.10	0.03214	0.5853	31.11	1.7085	72.57	140.26	212.83	0.1489	0.4063	71.46	192.56	1.7434	1.3710	2205.7	717.1
188	85.49	0.03217	0.5820	31.09	1.7181	72.83	140.06	212.89	0.1493	0.4063	71.71	192.63	1.7444	1.3723	2200.7	716.8
189	85.89	0.03219	0.5788	31.06	1.7278	73.08	139.88	212.96	0.1498	0.4062	71.96	192.70	1.7454	1.3736	2195.7	716.5
190	86.28	0.03222	0.5756	31.04	1.7374	73.34	139.68	213.02	0.1502	0.4061	72.20	192.77	1.7464	1.3749	2190.7	716.1
191	86.68	0.03224	0.5724	31.01	1.7471	73.59	139.49	213.08	0.1507	0.4060	72.45	192.84	1.7474	1.3763	2185.8	715.8
192	87.07	0.03227	0.5692	30.99	1.7568	73.85	139.29	213.14	0.1512	0.4059	72.70	192.91	1.7485	1.3776	2180.9	715.5
193	87.46	0.03230	0.5661	30.96	1.7665	74.10	139.10	213.20	0.1516	0.4059	72.95	192.97	1.7495	1.3789	2176.0	715.1
194	87.84	0.03232	0.5630	30.94	1.7762	74.35	138.92	213.27	0.1521	0.4058	73.19	193.04	1.7505	1.3803	2171.1	714.8
195	88.23	0.03235	0.5599	30.92	1.7859	74.60	138.73	213.33	0.1525	0.4057	73.44	193.11	1.7516	1.3816	2166.2	714.5
196	88.62	0.03237	0.5569	30.89	1.7956	74.86	138.54	213.39	0.1530	0.4056	73.68	193.17	1.7526	1.3830	2161.3	714.1
197	89.00	0.03240	0.5539	30.87	1.8054	75.11	138.35	213.45	0.1534	0.4055	73.92	193.24	1.7536	1.3843	2156.5	713.8
198	89.38	0.03242	0.5509	30.84	1.8151	75.36	138.16	213.51	0.1538	0.4055	74.17	193.31	1.7547	1.3857	2151.7	713.4
199	89.76	0.03245	0.5480	30.82	1.8249	75.60	137.96	213.56	0.1543	0.4054	74.41	193.37	1.7557	1.3870	2146.8	713.1
200	90.14	0.03247	0.5451	30.79	1.8347	75.85	137.77	213.62	0.1547	0.4053	74.65	193.44	1.7568	1.3884	2142.0	712.8
201	90.52	0.03250	0.5422	30.77	1.8445	76.10	137.58	213.68	0.1552	0.4052	74.89	193.50	1.7578	1.3898	2137.3	712.4
202	90.90	0.03253	0.5393	30.75	1.8543	76.35	137.39	213.74	0.1556	0.4052	75.13	193.56	1.7589	1.3912	2132.5	712.1
203	91.27	0.03255	0.5365	30.72	1.8641	76.59	137.20	213.79	0.1560	0.4051	75.37	193.63	1.7600	1.3926	2127.7	711.7
204	91.65	0.03258	0.5337	30.70	1.8739	76.84	137.01	213.85	0.1565	0.4050	75.61	193.69	1.7610	1.3940	2123.0	711.4
205	92.02	0.03260	0.5309	30.67	1.8837	77.08	136.83	213.91	0.1569	0.4049	75.85	193.75	1.7621	1.3954	2118.2	711.0
206	92.39	0.03263	0.5281	30.65	1.8936	77.33	136.63	213.96	0.1573	0.4048	76.08	193.82	1.7632	1.3968	2113.5	710.7



Pressure (psia)	Temp. (°F)	Volume (ft <sup>3</sup> /lbm)		Density (lbm/ft <sup>3</sup> )		Enthalpy (Btu/lbm)			Entropy (Btu/lbm-°R)		Int. Energy (Btu/lbm)		Cp/Cv		Sound Speed (ft/s)	
		Liquid	Vapor	Liquid	Vapor	Liquid	Latent	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor
207	92.76	0.03265	0.5254	30.63	1.9034	77.57	136.45	214.02	0.1578	0.4048	76.32	193.88	1.7643	1.3982	2108.8	710.3
208	93.13	0.03268	0.5227	30.60	1.9133	77.82	136.26	214.07	0.1582	0.4047	76.56	193.94	1.7654	1.3996	2104.1	710.0
209	93.50	0.03270	0.5200	30.58	1.9232	78.06	136.07	214.13	0.1586	0.4046	76.79	194.00	1.7664	1.4010	2099.4	709.6
210	93.86	0.03273	0.5173	30.56	1.9331	78.30	135.88	214.18	0.1591	0.4045	77.03	194.06	1.7675	1.4024	2094.8	709.3
211	94.23	0.03275	0.5147	30.53	1.9430	78.54	135.69	214.23	0.1595	0.4045	77.26	194.12	1.7686	1.4039	2090.1	708.9
212	94.59	0.03278	0.5121	30.51	1.9529	78.78	135.51	214.29	0.1599	0.4044	77.50	194.18	1.7697	1.4053	2085.5	708.6
213	94.95	0.03281	0.5095	30.48	1.9628	79.02	135.32	214.34	0.1603	0.4043	77.73	194.24	1.7708	1.4067	2080.9	708.2
214	95.32	0.03283	0.5069	30.46	1.9728	79.26	135.13	214.39	0.1607	0.4042	77.96	194.30	1.7719	1.4082	2076.2	707.9
215	95.68	0.03286	0.5044	30.44	1.9827	79.50	134.94	214.44	0.1612	0.4042	78.19	194.36	1.7731	1.4096	2071.6	707.5
216	96.03	0.03288	0.5018	30.41	1.9927	79.74	134.75	214.49	0.1616	0.4041	78.42	194.42	1.7742	1.4111	2067.0	707.2
217	96.39	0.03291	0.4993	30.39	2.0027	79.98	134.57	214.55	0.1620	0.4040	78.65	194.48	1.7753	1.4126	2062.5	706.8
218	96.75	0.03293	0.4969	30.37	2.0127	80.21	134.39	214.60	0.1624	0.4039	78.88	194.54	1.7764	1.4140	2057.9	706.4
219	97.10	0.03296	0.4944	30.34	2.0227	80.45	134.20	214.65	0.1628	0.4039	79.11	194.60	1.7775	1.4155	2053.3	706.1
220	97.46	0.03298	0.4920	30.32	2.0327	80.69	134.02	214.70	0.1632	0.4038	79.34	194.65	1.7787	1.4170	2048.8	705.7
221	97.81	0.03301	0.4895	30.30	2.0427	80.92	133.82	214.74	0.1637	0.4037	79.57	194.71	1.7798	1.4185	2044.3	705.4
222	98.16	0.03303	0.4872	30.27	2.0528	81.16	133.64	214.79	0.1641	0.4036	79.80	194.77	1.7809	1.4200	2039.7	705.0
223	98.51	0.03306	0.4848	30.25	2.0628	81.39	133.45	214.84	0.1645	0.4036	80.03	194.82	1.7821	1.4215	2035.2	704.6
224	98.86	0.03308	0.4824	30.23	2.0729	81.62	133.27	214.89	0.1649	0.4035	80.25	194.88	1.7832	1.4230	2030.7	704.3
225	99.21	0.03311	0.4801	30.20	2.0830	81.86	133.08	214.94	0.1653	0.4034	80.48	194.94	1.7844	1.4245	2026.3	703.9
226	99.56	0.03314	0.4778	30.18	2.0931	82.09	132.90	214.99	0.1657	0.4033	80.70	194.99	1.7855	1.4260	2021.8	703.5
227	99.90	0.03316	0.4755	30.16	2.1032	82.32	132.71	215.03	0.1661	0.4033	80.93	195.05	1.7867	1.4275	2017.3	703.2
228	100.25	0.03319	0.4732	30.13	2.1133	82.55	132.53	215.08	0.1665	0.4032	81.15	195.10	1.7879	1.4291	2012.9	702.8
229	100.59	0.03321	0.4709	30.11	2.1235	82.78	132.35	215.13	0.1669	0.4031	81.38	195.16	1.7890	1.4306	2008.4	702.4
230	100.93	0.03324	0.4687	30.09	2.1336	83.01	132.16	215.17	0.1673	0.4030	81.60	195.21	1.7902	1.4321	2004.0	702.1
231	101.27	0.03326	0.4665	30.06	2.1438	83.24	131.98	215.22	0.1677	0.4030	81.82	195.26	1.7914	1.4337	1999.6	701.7
232	101.61	0.03329	0.4643	30.04	2.1540	83.47	131.79	215.26	0.1681	0.4029	82.04	195.32	1.7925	1.4352	1995.2	701.3
233	101.95	0.03331	0.4621	30.02	2.1641	83.70	131.61	215.31	0.1685	0.4028	82.27	195.37	1.7937	1.4368	1990.8	701.0
234	102.29	0.03334	0.4599	30.00	2.1743	83.93	131.42	215.35	0.1689	0.4028	82.49	195.42	1.7949	1.4384	1986.4	700.6
235	102.63	0.03337	0.4578	29.97	2.1846	84.16	131.24	215.40	0.1693	0.4027	82.71	195.48	1.7961	1.4400	1982.0	700.2
236	102.97	0.03339	0.4556	29.95	2.1948	84.39	131.05	215.44	0.1697	0.4026	82.93	195.53	1.7973	1.4415	1977.6	699.8
237	103.30	0.03342	0.4535	29.93	2.2050	84.61	130.87	215.48	0.1701	0.4025	83.15	195.58	1.7985	1.4431	1973.3	699.5
238	103.63	0.03344	0.4514	29.90	2.2153	84.84	130.69	215.53	0.1705	0.4025	83.37	195.63	1.7997	1.4447	1968.9	699.1
239	103.97	0.03347	0.4493	29.88	2.2256	85.07	130.50	215.57	0.1709	0.4024	83.59	195.68	1.8009	1.4463	1964.6	698.7
240	104.30	0.03349	0.4473	29.86	2.2359	85.29	130.32	215.61	0.1712	0.4023	83.80	195.73	1.8021	1.4479	1960.3	698.4
241	104.63	0.03352	0.4452	29.84	2.2462	85.52	130.13	215.65	0.1716	0.4022	84.02	195.78	1.8033	1.4496	1955.9	698.0
242	104.96	0.03354	0.4432	29.81	2.2565	85.74	129.95	215.69	0.1720	0.4022	84.24	195.83	1.8046	1.4512	1951.6	697.6
243	105.29	0.03357	0.4412	29.79	2.2668	85.97	129.77	215.73	0.1724	0.4021	84.46	195.88	1.8058	1.4528	1947.3	697.2
244	105.62	0.03360	0.4391	29.77	2.2772	86.19	129.59	215.78	0.1728	0.4020	84.67	195.93	1.8070	1.4545	1943.0	696.8
245	105.95	0.03362	0.4372	29.74	2.2875	86.41	129.41	215.82	0.1732	0.4020	84.89	195.98	1.8083	1.4561	1938.8	696.5
246	106.27	0.03365	0.4352	29.72	2.2979	86.64	129.23	215.86	0.1736	0.4019	85.10	196.03	1.8095	1.4578	1934.5	696.1



Pressure (psia)	Temp. (°F)	Volume (ft <sup>3</sup> /lbm)		Density (lbm/ft <sup>3</sup> )		Enthalpy (Btu/lbm)			Entropy (Btu/lbm-°R)		Int. Energy (Btu/lbm)		Cp/Cv		Sound Speed (ft/s)	
		Liquid	Vapor	Liquid	Vapor	Liquid	Latent	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor
247	106.60	0.03367	0.4332	29.70	2.3083	86.86	129.04	215.90	0.1739	0.4018	85.32	196.08	1.8107	1.4594	1930.2	695.7
248	106.92	0.03370	0.4313	29.68	2.3187	87.08	128.86	215.94	0.1743	0.4017	85.53	196.13	1.8120	1.4611	1926.0	695.3
249	107.24	0.03372	0.4294	29.65	2.3291	87.30	128.67	215.97	0.1747	0.4017	85.75	196.18	1.8133	1.4628	1921.7	694.9
250	107.57	0.03375	0.4274	29.63	2.3395	87.52	128.49	216.01	0.1751	0.4016	85.96	196.23	1.8145	1.4645	1917.5	694.6
251	107.89	0.03378	0.4255	29.61	2.3500	87.74	128.31	216.05	0.1755	0.4015	86.17	196.27	1.8158	1.4662	1913.3	694.2
252	108.21	0.03380	0.4237	29.59	2.3605	87.96	128.13	216.09	0.1758	0.4015	86.39	196.32	1.8170	1.4679	1909.1	693.8
253	108.53	0.03383	0.4218	29.56	2.3709	88.18	127.95	216.13	0.1762	0.4014	86.60	196.37	1.8183	1.4696	1904.9	693.4
254	108.85	0.03385	0.4199	29.54	2.3814	88.40	127.77	216.17	0.1766	0.4013	86.81	196.41	1.8196	1.4713	1900.7	693.0
255	109.16	0.03388	0.4181	29.52	2.3919	88.62	127.58	216.20	0.1770	0.4012	87.02	196.46	1.8209	1.4730	1896.5	692.7
256	109.48	0.03390	0.4162	29.50	2.4025	88.84	127.40	216.24	0.1773	0.4012	87.23	196.51	1.8222	1.4748	1892.3	692.3
257	109.80	0.03393	0.4144	29.47	2.4130	89.06	127.22	216.28	0.1777	0.4011	87.44	196.55	1.8235	1.4765	1888.2	691.9
258	110.11	0.03396	0.4126	29.45	2.4236	89.27	127.04	216.31	0.1781	0.4010	87.65	196.60	1.8248	1.4783	1884.0	691.5
259	110.43	0.03398	0.4108	29.43	2.4341	89.49	126.86	216.35	0.1784	0.4010	87.86	196.64	1.8261	1.4800	1879.9	691.1
260	110.74	0.03401	0.4091	29.41	2.4447	89.71	126.67	216.38	0.1788	0.4009	88.07	196.69	1.8274	1.4818	1875.7	690.7
261	111.05	0.03403	0.4073	29.38	2.4553	89.92	126.50	216.42	0.1792	0.4008	88.28	196.73	1.8287	1.4836	1871.6	690.3
262	111.36	0.03406	0.4055	29.36	2.4659	90.14	126.31	216.45	0.1795	0.4007	88.49	196.78	1.8300	1.4854	1867.5	690.0
263	111.67	0.03408	0.4038	29.34	2.4766	90.36	126.14	216.49	0.1799	0.4007	88.70	196.82	1.8313	1.4872	1863.3	689.6
264	111.98	0.03411	0.4021	29.32	2.4872	90.57	125.95	216.52	0.1803	0.4006	88.90	196.87	1.8326	1.4890	1859.2	689.2
265	112.29	0.03414	0.4003	29.29	2.4979	90.79	125.78	216.56	0.1806	0.4005	89.11	196.91	1.8340	1.4908	1855.1	688.8
266	112.60	0.03416	0.3986	29.27	2.5086	91.00	125.59	216.59	0.1810	0.4005	89.32	196.95	1.8353	1.4926	1851.1	688.4
267	112.91	0.03419	0.3969	29.25	2.5193	91.21	125.41	216.62	0.1814	0.4004	89.52	197.00	1.8367	1.4944	1847.0	688.0
268	113.21	0.03421	0.3953	29.23	2.5300	91.43	125.22	216.65	0.1817	0.4003	89.73	197.04	1.8380	1.4963	1842.9	687.6
269	113.52	0.03424	0.3936	29.21	2.5407	91.64	125.05	216.69	0.1821	0.4002	89.93	197.08	1.8394	1.4981	1838.8	687.2
270	113.82	0.03427	0.3919	29.18	2.5514	91.85	124.87	216.72	0.1824	0.4002	90.14	197.12	1.8407	1.5000	1834.8	686.8
271	114.13	0.03429	0.3903	29.16	2.5622	92.07	124.69	216.75	0.1828	0.4001	90.34	197.17	1.8421	1.5019	1830.7	686.4
272	114.43	0.03432	0.3887	29.14	2.5730	92.28	124.50	216.78	0.1832	0.4000	90.55	197.21	1.8435	1.5038	1826.7	686.0
273	114.73	0.03434	0.3870	29.12	2.5838	92.49	124.32	216.81	0.1835	0.4000	90.75	197.25	1.8449	1.5057	1822.7	685.7
274	115.03	0.03437	0.3854	29.10	2.5946	92.70	124.15	216.85	0.1839	0.3999	90.96	197.29	1.8463	1.5076	1818.6	685.3
275	115.33	0.03440	0.3838	29.07	2.6054	92.91	123.97	216.88	0.1842	0.3998	91.16	197.33	1.8476	1.5095	1814.6	684.9
276	115.63	0.03442	0.3822	29.05	2.6163	93.12	123.79	216.91	0.1846	0.3998	91.36	197.37	1.8490	1.5114	1810.6	684.5
277	115.93	0.03445	0.3806	29.03	2.6271	93.33	123.61	216.94	0.1849	0.3997	91.57	197.41	1.8504	1.5133	1806.6	684.1
278	116.23	0.03448	0.3791	29.01	2.6380	93.54	123.43	216.97	0.1853	0.3996	91.77	197.45	1.8519	1.5153	1802.6	683.7
279	116.53	0.03450	0.3775	28.98	2.6489	93.75	123.25	217.00	0.1856	0.3995	91.97	197.49	1.8533	1.5172	1798.7	683.3
280	116.82	0.03453	0.3760	28.96	2.6598	93.96	123.06	217.02	0.1860	0.3995	92.17	197.53	1.8547	1.5192	1794.7	682.9
281	117.12	0.03455	0.3744	28.94	2.6707	94.17	122.88	217.05	0.1864	0.3994	92.37	197.57	1.8561	1.5212	1790.7	682.5
282	117.41	0.03458	0.3729	28.92	2.6817	94.38	122.70	217.08	0.1867	0.3993	92.57	197.61	1.8576	1.5232	1786.8	682.1
283	117.71	0.03461	0.3714	28.90	2.6927	94.59	122.52	217.11	0.1871	0.3993	92.77	197.65	1.8590	1.5252	1782.8	681.7
284	118.00	0.03463	0.3699	28.87	2.7036	94.79	122.35	217.14	0.1874	0.3992	92.97	197.69	1.8605	1.5272	1778.9	681.3
285	118.30	0.03466	0.3684	28.85	2.7146	95.00	122.17	217.17	0.1877	0.3991	93.17	197.72	1.8619	1.5292	1774.9	680.9
286	118.59	0.03469	0.3669	28.83	2.7257	95.21	121.98	217.19	0.1881	0.3990	93.37	197.76	1.8634	1.5312	1771.0	680.5



Pressure (psia)	Temp. (°F)	Volume (ft <sup>3</sup> /lbm)		Density (lbm/ft <sup>3</sup> )		Enthalpy (Btu/lbm)			Entropy (Btu/lbm-°R)		Int. Energy (Btu/lbm)		Cp/Cv		Sound Speed (ft/s)	
		Liquid	Vapor	Liquid	Vapor	Liquid	Latent	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor
287	118.88	0.03471	0.3654	28.81	2.7367	95.42	121.81	217.22	0.1884	0.3990	93.57	197.80	1.8649	1.5333	1767.1	680.1
288	119.17	0.03474	0.3639	28.79	2.7477	95.62	121.63	217.25	0.1888	0.3989	93.77	197.84	1.8663	1.5353	1763.2	679.7
289	119.46	0.03477	0.3625	28.76	2.7588	95.83	121.44	217.27	0.1891	0.3988	93.97	197.88	1.8678	1.5374	1759.3	679.3
290	119.75	0.03479	0.3610	28.74	2.7699	96.03	121.27	217.30	0.1895	0.3988	94.17	197.91	1.8693	1.5395	1755.4	678.9
291	120.04	0.03482	0.3596	28.72	2.7810	96.24	121.08	217.32	0.1898	0.3987	94.36	197.95	1.8708	1.5416	1751.5	678.5
292	120.32	0.03485	0.3582	28.70	2.7921	96.45	120.91	217.35	0.1902	0.3986	94.56	197.98	1.8723	1.5437	1747.6	678.1
293	120.61	0.03487	0.3567	28.68	2.8033	96.65	120.73	217.38	0.1905	0.3986	94.76	198.02	1.8738	1.5458	1743.7	677.7
294	120.90	0.03490	0.3553	28.66	2.8144	96.85	120.55	217.40	0.1908	0.3985	94.95	198.06	1.8754	1.5480	1739.9	677.3
295	121.18	0.03493	0.3539	28.63	2.8256	97.06	120.36	217.42	0.1912	0.3984	95.15	198.09	1.8769	1.5501	1736.0	676.9
296	121.47	0.03495	0.3525	28.61	2.8368	97.26	120.19	217.45	0.1915	0.3983	95.35	198.13	1.8784	1.5523	1732.2	676.5
297	121.75	0.03498	0.3511	28.59	2.8480	97.47	120.00	217.47	0.1919	0.3983	95.54	198.16	1.8800	1.5544	1728.3	676.1
298	122.03	0.03501	0.3497	28.57	2.8593	97.67	119.83	217.50	0.1922	0.3982	95.74	198.20	1.8815	1.5566	1724.5	675.7
299	122.32	0.03503	0.3484	28.55	2.8705	97.87	119.65	217.52	0.1925	0.3981	95.93	198.23	1.8831	1.5588	1720.7	675.3
300	122.60	0.03506	0.3470	28.52	2.8818	98.08	119.47	217.54	0.1929	0.3981	96.13	198.27	1.8847	1.5610	1716.8	674.9
301	122.88	0.03509	0.3457	28.50	2.8931	98.28	119.29	217.57	0.1932	0.3980	96.32	198.30	1.8862	1.5632	1713.0	674.5
302	123.16	0.03511	0.3443	28.48	2.9044	98.48	119.11	217.59	0.1936	0.3979	96.52	198.33	1.8878	1.5655	1709.2	674.1
303	123.44	0.03514	0.3430	28.46	2.9157	98.68	118.93	217.61	0.1939	0.3978	96.71	198.37	1.8894	1.5677	1705.4	673.7
304	123.72	0.03517	0.3416	28.44	2.9271	98.88	118.75	217.63	0.1942	0.3978	96.90	198.40	1.8910	1.5700	1701.6	673.3
305	124.00	0.03519	0.3403	28.42	2.9385	99.09	118.57	217.65	0.1946	0.3977	97.10	198.43	1.8927	1.5723	1697.9	672.9
306	124.28	0.03522	0.3390	28.39	2.9499	99.29	118.39	217.68	0.1949	0.3976	97.29	198.47	1.8943	1.5745	1694.1	672.5
307	124.55	0.03525	0.3377	28.37	2.9613	99.49	118.21	217.70	0.1952	0.3976	97.48	198.50	1.8959	1.5768	1690.3	672.1
308	124.83	0.03527	0.3364	28.35	2.9727	99.69	118.03	217.72	0.1956	0.3975	97.68	198.53	1.8975	1.5792	1686.5	671.7
309	125.10	0.03530	0.3351	28.33	2.9842	99.89	117.85	217.74	0.1959	0.3974	97.87	198.56	1.8992	1.5815	1682.8	671.3
310	125.38	0.03533	0.3338	28.31	2.9956	100.09	117.67	217.76	0.1962	0.3973	98.06	198.60	1.9009	1.5838	1679.0	670.9
311	125.65	0.03536	0.3326	28.28	3.0071	100.29	117.49	217.78	0.1965	0.3973	98.25	198.63	1.9025	1.5862	1675.3	670.4
312	125.93	0.03538	0.3313	28.26	3.0186	100.49	117.31	217.80	0.1969	0.3972	98.44	198.66	1.9042	1.5886	1671.6	670.0
313	126.20	0.03541	0.3300	28.24	3.0302	100.69	117.13	217.82	0.1972	0.3971	98.63	198.69	1.9059	1.5910	1667.8	669.6
314	126.47	0.03544	0.3288	28.22	3.0417	100.88	116.96	217.84	0.1975	0.3971	98.82	198.72	1.9076	1.5934	1664.1	669.2
315	126.75	0.03546	0.3275	28.20	3.0533	101.08	116.77	217.85	0.1979	0.3970	99.01	198.75	1.9093	1.5958	1660.4	668.8
316	127.02	0.03549	0.3263	28.18	3.0649	101.28	116.59	217.87	0.1982	0.3969	99.20	198.78	1.9110	1.5982	1656.7	668.4
317	127.29	0.03552	0.3251	28.15	3.0765	101.48	116.41	217.89	0.1985	0.3968	99.39	198.81	1.9127	1.6007	1653.0	668.0
318	127.56	0.03555	0.3238	28.13	3.0881	101.68	116.23	217.91	0.1988	0.3968	99.58	198.84	1.9145	1.6032	1649.3	667.6
319	127.83	0.03557	0.3226	28.11	3.0998	101.87	116.06	217.93	0.1992	0.3967	99.77	198.87	1.9162	1.6056	1645.6	667.2
320	128.10	0.03560	0.3214	28.09	3.1114	102.07	115.87	217.94	0.1995	0.3966	99.96	198.90	1.9180	1.6081	1641.9	666.8
321	128.36	0.03563	0.3202	28.07	3.1231	102.27	115.69	217.96	0.1998	0.3966	100.15	198.93	1.9197	1.6107	1638.2	666.4
322	128.63	0.03566	0.3190	28.05	3.1349	102.47	115.51	217.98	0.2001	0.3965	100.34	198.96	1.9215	1.6132	1634.6	666.0
323	128.90	0.03568	0.3178	28.02	3.1466	102.66	115.33	217.99	0.2005	0.3964	100.53	198.99	1.9233	1.6157	1630.9	665.5
324	129.16	0.03571	0.3166	28.00	3.1584	102.86	115.15	218.01	0.2008	0.3963	100.72	199.01	1.9251	1.6183	1627.2	665.1
325	129.43	0.03574	0.3154	27.98	3.1701	103.05	114.98	218.03	0.2011	0.3963	100.90	199.04	1.9269	1.6209	1623.6	664.7
326	129.70	0.03577	0.3143	27.96	3.1820	103.25	114.79	218.04	0.2014	0.3962	101.09	199.07	1.9287	1.6235	1619.9	664.3



Pressure (psia)	Temp. (°F)	Volume (ft <sup>3</sup> /lbm)		Density (lbm/ft <sup>3</sup> )		Enthalpy (Btu/lbm)			Entropy (Btu/lbm-°R)		Int. Energy (Btu/lbm)		Cp/Cv		Sound Speed (ft/s)	
		Liquid	Vapor	Liquid	Vapor	Liquid	Latent	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor
327	129.96	0.03580	0.3131	27.94	3.1938	103.45	114.61	218.06	0.2017	0.3961	101.28	199.10	1.9306	1.6261	1616.3	663.9
328	130.22	0.03582	0.3120	27.92	3.2056	103.64	114.43	218.07	0.2021	0.3960	101.47	199.12	1.9324	1.6287	1612.7	663.5
329	130.49	0.03585	0.3108	27.89	3.2175	103.84	114.25	218.09	0.2024	0.3960	101.65	199.15	1.9342	1.6314	1609.0	663.1
330	130.75	0.03588	0.3097	27.87	3.2294	104.03	114.07	218.10	0.2027	0.3959	101.84	199.18	1.9361	1.6341	1605.4	662.7
331	131.01	0.03591	0.3085	27.85	3.2413	104.23	113.88	218.11	0.2030	0.3958	102.02	199.20	1.9380	1.6367	1601.8	662.3
332	131.27	0.03593	0.3074	27.83	3.2532	104.42	113.71	218.13	0.2033	0.3958	102.21	199.23	1.9399	1.6394	1598.2	661.8
333	131.53	0.03596	0.3063	27.81	3.2652	104.61	113.53	218.14	0.2037	0.3957	102.40	199.26	1.9418	1.6422	1594.6	661.4
334	131.79	0.03599	0.3051	27.79	3.2772	104.81	113.34	218.15	0.2040	0.3956	102.58	199.28	1.9437	1.6449	1591.0	661.0
335	132.05	0.03602	0.3040	27.76	3.2892	105.00	113.17	218.17	0.2043	0.3955	102.77	199.31	1.9456	1.6477	1587.4	660.6
336	132.31	0.03605	0.3029	27.74	3.3012	105.20	112.98	218.18	0.2046	0.3955	102.95	199.33	1.9476	1.6504	1583.8	660.2
337	132.57	0.03607	0.3018	27.72	3.3133	105.39	112.80	218.19	0.2049	0.3954	103.14	199.36	1.9495	1.6532	1580.3	659.8
338	132.83	0.03610	0.3007	27.70	3.3254	105.58	112.62	218.20	0.2052	0.3953	103.32	199.38	1.9515	1.6560	1576.7	659.4
339	133.09	0.03613	0.2996	27.68	3.3375	105.77	112.45	218.22	0.2055	0.3952	103.51	199.41	1.9534	1.6589	1573.1	658.9
340	133.34	0.03616	0.2986	27.66	3.3496	105.97	112.26	218.23	0.2059	0.3952	103.69	199.43	1.9554	1.6617	1569.6	658.5
341	133.60	0.03619	0.2975	27.63	3.3617	106.16	112.08	218.24	0.2062	0.3951	103.87	199.46	1.9574	1.6646	1566.0	658.1
342	133.86	0.03622	0.2964	27.61	3.3739	106.35	111.90	218.25	0.2065	0.3950	104.06	199.48	1.9594	1.6675	1562.5	657.7
343	134.11	0.03624	0.2953	27.59	3.3861	106.54	111.72	218.26	0.2068	0.3949	104.24	199.50	1.9615	1.6704	1558.9	657.3
344	134.37	0.03627	0.2943	27.57	3.3983	106.74	111.53	218.27	0.2071	0.3949	104.43	199.53	1.9635	1.6733	1555.4	656.9
345	134.62	0.03630	0.2932	27.55	3.4105	106.93	111.35	218.28	0.2074	0.3948	104.61	199.55	1.9656	1.6763	1551.9	656.5
346	134.87	0.03633	0.2922	27.53	3.4228	107.12	111.17	218.29	0.2077	0.3947	104.79	199.57	1.9676	1.6793	1548.3	656.0
347	135.13	0.03636	0.2911	27.50	3.4351	107.31	110.99	218.30	0.2080	0.3946	104.97	199.59	1.9697	1.6822	1544.8	655.6
348	135.38	0.03639	0.2901	27.48	3.4474	107.50	110.81	218.31	0.2084	0.3946	105.16	199.62	1.9718	1.6853	1541.3	655.2
349	135.63	0.03642	0.2890	27.46	3.4598	107.69	110.63	218.32	0.2087	0.3945	105.34	199.64	1.9739	1.6883	1537.8	654.8
350	135.88	0.03645	0.2880	27.44	3.4721	107.88	110.45	218.33	0.2090	0.3944	105.52	199.66	1.9760	1.6913	1534.3	654.4
351	136.13	0.03647	0.2870	27.42	3.4845	108.07	110.26	218.33	0.2093	0.3943	105.70	199.68	1.9782	1.6944	1530.8	654.0
352	136.39	0.03650	0.2860	27.40	3.4969	108.26	110.08	218.34	0.2096	0.3943	105.88	199.70	1.9803	1.6975	1527.3	653.5
353	136.64	0.03653	0.2850	27.37	3.5094	108.45	109.90	218.35	0.2099	0.3942	106.07	199.72	1.9825	1.7006	1523.8	653.1
354	136.88	0.03656	0.2839	27.35	3.5218	108.64	109.72	218.36	0.2102	0.3941	106.25	199.74	1.9846	1.7038	1520.3	652.7
355	137.13	0.03659	0.2829	27.33	3.5343	108.83	109.53	218.36	0.2105	0.3940	106.43	199.77	1.9868	1.7069	1516.9	652.3
356	137.38	0.03662	0.2819	27.31	3.5468	109.02	109.35	218.37	0.2108	0.3940	106.61	199.79	1.9891	1.7101	1513.4	651.9
357	137.63	0.03665	0.2810	27.29	3.5594	109.21	109.17	218.38	0.2111	0.3939	106.79	199.81	1.9913	1.7133	1509.9	651.4
358	137.88	0.03668	0.2800	27.27	3.5720	109.40	108.98	218.38	0.2114	0.3938	106.97	199.83	1.9935	1.7166	1506.5	651.0
359	138.12	0.03671	0.2790	27.24	3.5845	109.59	108.80	218.39	0.2117	0.3937	107.15	199.85	1.9958	1.7198	1503.0	650.6
360	138.37	0.03674	0.2780	27.22	3.5972	109.78	108.62	218.40	0.2120	0.3937	107.33	199.86	1.9980	1.7231	1499.5	650.2
361	138.62	0.03677	0.2770	27.20	3.6098	109.97	108.43	218.40	0.2123	0.3936	107.51	199.88	2.0003	1.7264	1496.1	649.8
362	138.86	0.03679	0.2761	27.18	3.6225	110.16	108.25	218.41	0.2126	0.3935	107.69	199.90	2.0026	1.7297	1492.7	649.3
363	139.11	0.03682	0.2751	27.16	3.6352	110.34	108.07	218.41	0.2129	0.3934	107.87	199.92	2.0049	1.7331	1489.2	648.9
364	139.35	0.03685	0.2741	27.14	3.6479	110.53	107.89	218.42	0.2132	0.3933	108.05	199.94	2.0073	1.7365	1485.8	648.5
365	139.59	0.03688	0.2732	27.11	3.6607	110.72	107.70	218.42	0.2135	0.3933	108.23	199.96	2.0096	1.7399	1482.4	648.1
366	139.84	0.03691	0.2722	27.09	3.6735	110.91	107.51	218.42	0.2139	0.3932	108.41	199.97	2.0120	1.7433	1478.9	647.6



Pressure (psia)	Temp. (°F)	Volume (ft <sup>3</sup> /lbm)		Density (lbm/ft <sup>3</sup> )		Enthalpy (Btu/lbm)			Entropy (Btu/lbm-°R)		Int. Energy (Btu/lbm)		Cp/Cv		Sound Speed (ft/s)	
		Liquid	Vapor	Liquid	Vapor	Liquid	Latent	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor	Liquid	Vapor
367	140.08	0.03694	0.2713	27.07	3.6863	111.09	107.34	218.43	0.2142	0.3931	108.58	199.99	2.0144	1.7467	1475.5	647.2
368	140.32	0.03697	0.2703	27.05	3.6991	111.28	107.15	218.43	0.2145	0.3930	108.76	200.01	2.0168	1.7502	1472.1	646.8
369	140.56	0.03700	0.2694	27.03	3.7120	111.47	106.96	218.43	0.2148	0.3930	108.94	200.03	2.0192	1.7537	1468.7	646.4
370	140.80	0.03703	0.2685	27.00	3.7249	111.66	106.78	218.44	0.2151	0.3929	109.12	200.04	2.0216	1.7572	1465.3	645.9