

Table 2 . . . Thermodynamic Properties of MOIST AIR* (Standard Atmospheric Pressure, 29.921 in. Hg)

Psychrometric Properties of Air-Water Vapor Mixtures														
Fahr. Temp. (°F)	Humidity Ratio $W_e \times 10^4$	Volume cu ft/lb dry air			Enthalpy Btu/lb dry air			Entropy Btu per (°F) (lb dry air)			Condensed Water			Fahr. Temp. (°F)
		v_a	v_{as}	v_s	h_a	h_{as}	h_s	s_a	s_{as}	s_s	Enthalpy Btu/lb h_w	Entropy Btu per (°F)(lb) s_w	Vap. Press in. Hg $p_s \times 10^4$	
-180	0.0001180	7.530	0.000	7.530	-35.504	0.000	-35.504	-0.10300	0.00000	-0.10300	-322.00	-0.4907	0.0001030	-180
-150	0.0001180	7.547	0.000	7.547	-35.598	0.000	-35.598	-0.09901	0.00000	-0.09901	-320.40	-0.4553	0.0001041	-150
-120	0.0001180	7.573	0.000	7.573	-35.688	0.000	-35.688	-0.09503	0.00000	-0.09503	-315.77	-0.4200	0.0001052	-120
-90	0.0001180	7.603	0.000	7.603	-35.781	0.000	-35.781	-0.09101	0.00000	-0.09101	-311.13	-0.3847	0.0001063	-90
-60	0.0001180	7.639	0.000	7.639	-35.874	0.000	-35.874	-0.08700	0.00000	-0.08700	-306.49	-0.3494	0.0001074	-60
-30	0.0001180	7.677	0.000	7.677	-35.974	0.000	-35.974	-0.08300	0.00000	-0.08300	-301.85	-0.3141	0.0001085	-30
0	0.0001180	7.726	0.000	7.726	-36.074	0.000	-36.074	-0.07900	0.00000	-0.07900	-297.21	-0.2788	0.0001096	0
30	0.0001180	7.782	0.000	7.782	-36.174	0.000	-36.174	-0.07500	0.00000	-0.07500	-292.57	-0.2435	0.0001107	30
60	0.0001180	7.843	0.000	7.843	-36.274	0.000	-36.274	-0.07100	0.00000	-0.07100	-287.93	-0.2082	0.0001118	60
90	0.0001180	7.909	0.000	7.909	-36.374	0.000	-36.374	-0.06700	0.00000	-0.06700	-283.29	-0.1729	0.0001129	90
120	0.0001180	7.980	0.000	7.980	-36.474	0.000	-36.474	-0.06300	0.00000	-0.06300	-278.65	-0.1376	0.0001140	120
150	0.0001180	8.056	0.000	8.056	-36.574	0.000	-36.574	-0.05900	0.00000	-0.05900	-274.01	-0.1023	0.0001151	150
180	0.0001180	8.137	0.000	8.137	-36.674	0.000	-36.674	-0.05500	0.00000	-0.05500	-269.37	-0.0670	0.0001162	180
210	0.0001180	8.223	0.000	8.223	-36.774	0.000	-36.774	-0.05100	0.00000	-0.05100	-264.73	-0.0317	0.0001173	210
240	0.0001180	8.314	0.000	8.314	-36.874	0.000	-36.874	-0.04700	0.00000	-0.04700	-260.09	0.0036	0.0001184	240
270	0.0001180	8.410	0.000	8.410	-36.974	0.000	-36.974	-0.04300	0.00000	-0.04300	-255.45	0.0283	0.0001195	270
300	0.0001180	8.511	0.000	8.511	-37.074	0.000	-37.074	-0.03900	0.00000	-0.03900	-250.81	0.0530	0.0001206	300
330	0.0001180	8.617	0.000	8.617	-37.174	0.000	-37.174	-0.03500	0.00000	-0.03500	-246.17	0.0777	0.0001217	330
360	0.0001180	8.728	0.000	8.728	-37.274	0.000	-37.274	-0.03100	0.00000	-0.03100	-241.53	0.1024	0.0001228	360
390	0.0001180	8.844	0.000	8.844	-37.374	0.000	-37.374	-0.02700	0.00000	-0.02700	-236.89	0.1271	0.0001239	390
420	0.0001180	8.965	0.000	8.965	-37.474	0.000	-37.474	-0.02300	0.00000	-0.02300	-232.25	0.1518	0.0001250	420
450	0.0001180	9.091	0.000	9.091	-37.574	0.000	-37.574	-0.01900	0.00000	-0.01900	-227.61	0.1765	0.0001261	450
480	0.0001180	9.222	0.000	9.222	-37.674	0.000	-37.674	-0.01500	0.00000	-0.01500	-222.97	0.2012	0.0001272	480
510	0.0001180	9.358	0.000	9.358	-37.774	0.000	-37.774	-0.01100	0.00000	-0.01100	-218.33	0.2259	0.0001283	510
540	0.0001180	9.499	0.000	9.499	-37.874	0.000	-37.874	-0.00700	0.00000	-0.00700	-213.69	0.2506	0.0001294	540
570	0.0001180	9.645	0.000	9.645	-37.974	0.000	-37.974	-0.00300	0.00000	-0.00300	-209.05	0.2753	0.0001305	570
600	0.0001180	9.796	0.000	9.796	-38.074	0.000	-38.074	0.00000	0.00000	0.00000	-204.41	0.3000	0.0001316	600
630	0.0001180	9.952	0.000	9.952	-38.174	0.000	-38.174	0.00000	0.00000	0.00000	-199.77	0.3247	0.0001327	630
660	0.0001180	10.113	0.000	10.113	-38.274	0.000	-38.274	0.00000	0.00000	0.00000	-195.13	0.3494	0.0001338	660
690	0.0001180	10.279	0.000	10.279	-38.374	0.000	-38.374	0.00000	0.00000	0.00000	-190.49	0.3741	0.0001349	690
720	0.0001180	10.450	0.000	10.450	-38.474	0.000	-38.474	0.00000	0.00000	0.00000	-185.85	0.3988	0.0001360	720
750	0.0001180	10.626	0.000	10.626	-38.574	0.000	-38.574	0.00000	0.00000	0.00000	-181.21	0.4235	0.0001371	750
780	0.0001180	10.807	0.000	10.807	-38.674	0.000	-38.674	0.00000	0.00000	0.00000	-176.57	0.4482	0.0001382	780
810	0.0001180	10.993	0.000	10.993	-38.774	0.000	-38.774	0.00000	0.00000	0.00000	-171.93	0.4729	0.0001393	810
840	0.0001180	11.184	0.000	11.184	-38.874	0.000	-38.874	0.00000	0.00000	0.00000	-167.29	0.4976	0.0001404	840
870	0.0001180	11.380	0.000	11.380	-38.974	0.000	-38.974	0.00000	0.00000	0.00000	-162.65	0.5223	0.0001415	870
900	0.0001180	11.581	0.000	11.581	-39.074	0.000	-39.074	0.00000	0.00000	0.00000	-158.01	0.5470	0.0001426	900
930	0.0001180	11.787	0.000	11.787	-39.174	0.000	-39.174	0.00000	0.00000	0.00000	-153.37	0.5717	0.0001437	930
960	0.0001180	11.998	0.000	11.998	-39.274	0.000	-39.274	0.00000	0.00000	0.00000	-148.73	0.5964	0.0001448	960
990	0.0001180	12.214	0.000	12.214	-39.374	0.000	-39.374	0.00000	0.00000	0.00000	-144.09	0.6211	0.0001459	990
1020	0.0001180	12.435	0.000	12.435	-39.474	0.000	-39.474	0.00000	0.00000	0.00000	-139.45	0.6458	0.0001470	1020
1050	0.0001180	12.661	0.000	12.661	-39.574	0.000	-39.574	0.00000	0.00000	0.00000	-134.81	0.6705	0.0001481	1050
1080	0.0001180	12.892	0.000	12.892	-39.674	0.000	-39.674	0.00000	0.00000	0.00000	-130.17	0.6952	0.0001492	1080
1110	0.0001180	13.128	0.000	13.128	-39.774	0.000	-39.774	0.00000	0.00000	0.00000	-125.53	0.7199	0.0001503	1110
1140	0.0001180	13.369	0.000	13.369	-39.874	0.000	-39.874	0.00000	0.00000	0.00000	-120.89	0.7446	0.0001514	1140
1170	0.0001180	13.615	0.000	13.615	-39.974	0.000	-39.974	0.00000	0.00000	0.00000	-116.25	0.7693	0.0001525	1170
1200	0.0001180	13.866	0.000	13.866	-40.074	0.000	-40.074	0.00000	0.00000	0.00000	-111.61	0.7940	0.0001536	1200
1230	0.0001180	14.122	0.000	14.122	-40.174	0.000	-40.174	0.00000	0.00000	0.00000	-106.97	0.8187	0.0001547	1230
1260	0.0001180	14.383	0.000	14.383	-40.274	0.000	-40.274	0.00000	0.00000	0.00000	-102.33	0.8434	0.0001558	1260
1290	0.0001180	14.649	0.000	14.649	-40.374	0.000	-40.374	0.00000	0.00000	0.00000	-97.69	0.8681	0.0001569	1290
1320	0.0001180	14.920	0.000	14.920	-40.474	0.000	-40.474	0.00000	0.00000	0.00000	-93.05	0.8928	0.0001580	1320
1350	0.0001180	15.196	0.000	15.196	-40.574	0.000	-40.574	0.00000	0.00000	0.00000	-88.41	0.9175	0.0001591	1350
1380	0.0001180	15.477	0.000	15.477	-40.674	0.000	-40.674	0.00000	0.00000	0.00000	-83.77	0.9422	0.0001602	1380
1410	0.0001180	15.763	0.000	15.763	-40.774	0.000	-40.774	0.00000	0.00000	0.00000	-79.13	0.9669	0.0001613	1410
1440	0.0001180	16.054	0.000	16.054	-40.874	0.000	-40.874	0.00000	0.00000	0.00000	-74.49	0.9916	0.0001624	1440
1470	0.0001180	16.350	0.000	16.350	-40.974	0.000	-40.974	0.00000	0.00000	0.00000	-69.85	1.0163	0.0001635	1470
1500	0.0001180	16.651	0.000	16.651	-41.074	0.000	-41.074	0.00000	0.00000	0.00000	-65.21	1.0410	0.0001646	1500
1530	0.0001180	16.957	0.000	16.957	-41.174	0.000	-41.174	0.00000	0.00000	0.00000	-60.57	1.0657	0.0001657	1530
1560	0.0001180	17.268	0.000	17.268	-41.274	0.000	-41.274	0.00000	0.00000	0.00000	-55.93	1.0904	0.0001668	1560
1590	0.0001180	17.584	0.000	17.584	-41.374	0.000	-41.374	0.00000	0.00000	0.00000	-51.29	1.1151	0.0001679	1590
1620	0.0001180	17.905	0.000	17.905	-41.474	0.000	-41.474	0.00000	0.00000	0.00000	-46.65	1.1398	0.0001690	1620
1650	0.0001180	18.231	0.000	18.231	-41.574	0.000	-41.574	0.00000	0.00000	0.00000	-42.01	1.1645	0.0001701	1650
1680	0.0001180	18.562	0.000	18.562	-41.674	0.000	-41.674	0.00000	0.00000	0.00000	-37.37	1.1892	0.0001712	1680
1710	0.0001180	18.898	0.000	18.898	-41.774	0.000	-41.774	0.00000	0.00000	0.00000	-32.73	1.2139	0.0001723	1710
1740	0.0001180	19.239	0.000	19.239	-41.874	0.000	-41.874	0.00000	0.00000	0.00000	-28.09	1.2386	0.0001734	1740
1770	0.0001180	19.585	0.000	19.585	-41.974	0.000	-41.974	0.00000	0.00000	0.00000	-23.45	1.2633	0.0001745	1770
1800	0.0001180	19.936	0.000	19.936	-42.074	0.000	-42.074	0.						