

TABLE 6. THERMODYNAMIC PROPERTIES OF MOIST AIR^a, 29.921 IN. HG (CONTINUED)

TEMP DEG F	SATURATION HUMIDITY RATIO W _s WEIGHT OF WATER PER LB OF DRY AIR		VOLUME CU FT PER LB DRY AIR		ENTHALPY BTU PER LB DRY AIR		SPECIFIC HEAT OF LIQUID WATER BTU PER LB °F	SATURATION PRESSURE P _s		TEMP DEG F
	Pounds	Grains	Dry Air v _a	v _{as} (v _a - v _s)	Saturated Mixture v _h	Dry Air h _a	h _{as} (h _a - h _s)	In. of Hg	Lb per Sq In.	
0	0.0007652	5.60	11.58	0.01	11.59	0.000	0.832	0.03773	0.01853	0
1	0.0008275	5.79	11.60	.02	11.62	.240	.877	.03975	.01963	1
2	0.0008714	6.10	11.64	.01	11.64	.480	.924	.04186	.02056	2
3	0.0009179	6.43	11.65	.02	11.67	.720	.974	.04409	.02166	3
4	0.0009671	6.77	11.68	.02	11.70	.960	1.028	.04645	.02282	4
5	0.001017	7.12	11.70	0.02	11.72	1.200	1.080	.04886	.02400	5
6	0.001067	7.49	11.72	.02	11.75	1.440	1.137	.05134	.02527	6
7	0.001116	7.89	11.73	.02	11.77	1.680	1.197	.05394	.02658	7
8	0.001166	8.30	11.78	.02	11.80	1.920	1.260	.05662	.02798	8
9	0.001217	8.73	11.80	.03	11.83	2.160	1.336	.05938	.02941	9
10	0.001311	9.18	11.83	0.02	11.85	2.400	1.395	.06295	.03092	10
11	0.001379	9.65	11.86	.02	11.88	2.640	1.468	.06618	.03251	11
12	0.001450	10.15	11.88	.03	11.91	2.880	1.544	.06958	.03418	12
13	0.001523	10.66	11.91	.02	11.93	3.120	1.622	.07309	.03590	13
14	0.001600	11.20	11.93	.03	11.96	3.359	1.705	.07677	.03771	14
15	0.001682	11.77	11.96	0.03	11.99	3.599	1.793	.08087	.03963	15
16	0.001766	12.36	11.98	.03	12.01	3.839	1.883	.08469	.04160	16
17	0.001855	12.99	12.00	.04	12.04	4.079	1.979	.08855	.04369	17
18	0.001947	13.63	12.03	.04	12.07	4.319	2.078	.09257	.04589	18
19	0.002043	14.30	12.06	.05	12.09	4.559	2.182	.09677	.04812	19
20	0.002144	15.01	12.08	0.04	12.12	4.798	2.290	.10078	.05050	20
21	0.002250	15.75	12.11	.04	12.15	5.038	2.403	.10483	.05295	21
22	0.002361	16.53	12.13	.05	12.18	5.278	2.524	.10892	.05560	22
23	0.002476	17.33	12.16	.04	12.20	5.518	2.648	.11306	.05826	23
24	0.002596	18.17	12.18	.05	12.23	5.758	2.778	.11734	.06111	24
25	0.002722	19.05	12.21	0.05	12.26	5.998	2.914	.12168	.06405	25
26	0.002853	19.97	12.23	.06	12.29	6.237	3.055	.12618	.06710	26
27	0.002991	20.94	12.26	.06	12.32	6.477	3.205	.13074	.07034	27
28	0.003133	21.93	12.28	.06	12.34	6.717	3.358	.13546	.07368	28
29	0.003283	22.99	12.31	.06	12.37	6.957	3.520	.14024	.07717	29
30	0.003439	24.07	12.33	0.07	12.40	7.197	3.689	.14508	.08080	30
31	0.003601	25.21	12.36	.07	12.43	7.437	3.865	.15000	.08455	31
32	0.003771	26.40	12.38	.08	12.46	7.677	4.049	.15499	.08845	32
33	0.003951	27.62	12.41	.08	12.49	7.917	4.232	.16005	.09230	33
34	0.004139	28.86	12.43	.08	12.51	8.157	4.399	.16518	.09610	34

^aCompiled by W. M. Sawdon and extended by John A. Goff.TABLE 6. THERMODYNAMIC PROPERTIES OF MOIST AIR^a, 29.921 IN. HG (CONTINUED)

TEMP DEG F	SATURATION HUMIDITY RATIO W _s WEIGHT OF WATER PER LB OF DRY AIR		VOLUME CU FT PER LB DRY AIR		ENTHALPY BTU PER LB DRY AIR		SPECIFIC HEAT OF LIQUID WATER BTU PER LB °F	SATURATION PRESSURE P _s		TEMP DEG F
	Pounds	Grains	Dry Air v _a	v _{as} (v _a - v _s)	Saturated Mixture v _h	Dry Air h _a	h _{as} (h _a - h _s)	In. of Hg	Lb per Sq In.	
35	0.004262	29.83	12.46	0.08	12.54	8.397	4.582	0.20380	0.1000	35
36	0.004438	31.07	12.48	.08	12.57	8.636	4.773	.21195	.1041	36
37	0.004618	32.33	12.51	.08	12.60	8.876	4.969	.22050	.1083	37
38	0.004803	33.62	12.53	.10	12.63	9.116	5.169	.22925	.1128	38
39	0.004986	34.97	12.56	.10	12.66	9.356	5.380	.23842	.1171	39
40	0.005194	36.36	12.59	0.10	12.69	9.596	5.595	.24778	.1217	40
41	0.005401	37.80	12.61	.11	12.72	9.836	5.821	.25745	.1265	41
42	0.005616	39.31	12.64	.11	12.75	10.08	6.05	.26733	.1315	42
43	0.005840	40.88	12.66	.12	12.78	10.32	6.30	.27832	.1367	43
44	0.006069	42.48	12.69	.12	12.81	10.56	6.55	.28911	.1420	44
45	0.006306	44.14	12.71	0.13	12.84	10.80	6.81	.30031	.1475	45
46	0.006553	45.87	12.74	.13	12.87	11.04	7.08	.31191	.1532	46
47	0.006808	47.66	12.76	.14	12.90	11.28	7.36	.32393	.1591	47
48	0.007072	49.50	12.79	.14	12.93	11.52	7.64	.33635	.1652	48
49	0.007345	51.42	12.81	.15	12.96	11.76	7.94	.34917	.1715	49
50	0.007626	53.38	12.84	0.15	12.99	12.00	8.25	.36241	.1780	50
51	0.007921	55.45	12.86	.16	13.02	12.23	8.57	.37625	.1848	51
52	0.008226	57.58	12.89	.17	13.05	12.47	8.91	.39061	.1918	52
53	0.008534	59.74	12.91	.18	13.08	12.71	9.24	.40496	.1989	53
54	0.008856	61.99	12.94	.18	13.12	12.95	9.59	.42003	.2063	54
55	0.009192	64.34	12.96	0.19	13.15	13.19	9.96	.43570	.2140	55
56	0.009536	66.75	12.99	.20	13.18	13.43	10.34	.45170	.2220	56
57	0.009890	69.23	13.01	.21	13.22	13.67	10.73	.46828	.2300	57
58	0.01026	71.82	13.04	.21	13.25	13.91	11.14	.48538	.2384	58
59	0.01064	74.48	13.06	.23	13.29	14.15	11.55	.50310	.2471	59
60	0.01103	77.21	13.09	0.23	13.32	14.39	11.98	.52142	.2561	60
61	0.01156	80.08	13.11	.24	13.35	14.63	12.43	.54035	.2654	61
62	0.01209	83.03	13.14	.25	13.39	14.87	12.89	.55970	.2749	62
63	0.01262	86.03	13.16	.26	13.42	15.11	13.37	.57985	.2848	63
64	0.01274	89.18	13.19	.27	13.46	15.35	13.86	.60042	.2949	64
65	0.01320	92.40	13.21	0.28	13.49	15.60	14.37	.62179	.3054	65
66	0.01368	95.76	13.24	.29	13.53	15.83	14.84	.64378	.3162	66
67	0.01417	99.10	13.26	.31	13.57	16.07	15.31	.66638	.3273	67
68	0.01468	102.8	13.29	.31	13.60	16.31	15.79	.68958	.3383	68
69	0.01520	106.4	13.31	.33	13.64	16.55	16.57	.71382	.3506	69

^aCompiled by W. M. Sawdon and extended by John A. Goff.