

TABLE 2. THERMODYNAMIC PROPERTIES OF WATER AT SATURATION^a

FAHR. TEMP. (°F)	ABSOLUTE PRESSURE $p_s \times 10^3$		SPECIFIC VOLUME, CU FT PER LB ^b			ENTHALPY, BTU PER LB			ENTROPY, BTU PER (LB) (°F)			FAHR. TEMP. (°F)
	Lb/Sq In.	In. Hg	Sat. Solid v_f	Evap. $v_{fg} \times 10^{-3}$	Sat. Vapor $v_g \times 10^{-3}$	Sat. Solid h_f	Evap. h_{fg}	Sat. Vapor h_g	Sat. Solid s_f	Evap. s_{fg}	Sat. Vapor s_g	
-180	0.4949	1.008	0.01722	36.07	36.07	-222.05	1212.43	990.38	-0.4907	4.0456	3.5549	-180
-159	0.5592	1.138	0.01722	32.03	32.03	-221.73	1212.55	990.82	-0.4896	4.0325	3.5429	-159
-158	0.6312	1.285	0.01723	28.47	28.47	-221.41	1212.67	991.26	-0.4886	4.0196	3.5310	-158
-157	0.7121	1.450	0.01723	25.32	25.32	-221.09	1212.79	991.70	-0.4875	4.0067	3.5192	-157
-156	0.8026	1.634	0.01723	22.54	22.54	-220.76	1212.90	992.14	-0.4864	3.9939	3.5075	-156
-155	0.9040	1.840	0.01723	20.08	20.08	-220.44	1213.02	992.58	-0.4854	3.9812	3.4958	-155
-154	1.017	2.072	0.01723	17.90	17.90	-220.12	1213.15	993.03	-0.4843	3.9685	3.4842	-154
-153	1.144	2.329	0.01723	15.97	15.97	-219.79	1213.26	993.47	-0.4832	3.9559	3.4727	-153
-152	1.286	2.618	0.01723	14.26	14.26	-219.47	1213.38	993.91	-0.4822	3.9435	3.4613	-152
-151	1.444	2.939	0.01723	12.74	12.74	-219.14	1213.49	994.35	-0.4811	3.9311	3.4500	-151
-150	1.620	3.298	0.01723	11.39	11.39	-218.82	1213.62	994.80	-0.4801	3.9183	3.4387	-150
-149	1.816	3.698	0.01723	10.19	10.19	-218.49	1213.73	995.24	-0.4790	3.9065	3.4275	-149
-148	2.035	4.143	0.01724	9.123	9.123	-218.16	1213.84	995.68	-0.4780	3.8944	3.4164	-148
-147	2.278	4.630	0.01724	8.174	8.174	-217.83	1213.95	996.12	-0.4769	3.8823	3.4054	-147
-146	2.549	5.190	0.01724	7.330	7.330	-217.50	1214.06	996.56	-0.4758	3.8702	3.3944	-146
-145	2.850	5.803	0.01724	6.577	6.577	-217.17	1214.17	997.00	-0.4748	3.8583	3.3835	-145
-144	3.184	6.483	0.01724	5.905	5.905	-216.83	1214.28	997.45	-0.4737	3.8464	3.3727	-144
-143	3.556	7.240	0.01724	5.305	5.305	-216.50	1214.39	997.89	-0.4727	3.8346	3.3619	-143
-142	3.967	8.076	0.01724	4.770	4.770	-216.16	1214.49	998.33	-0.4716	3.8229	3.3513	-142
-141	4.423	9.005	0.01724	4.292	4.292	-215.83	1214.60	998.77	-0.4706	3.8112	3.3406	-141
-140	4.928	10.03	0.01724	3.864	3.864	-215.49	1214.70	999.21	-0.4695	3.7996	3.3301	-140
-139	5.487	11.17	0.01724	3.481	3.481	-215.16	1214.82	999.66	-0.4685	3.7881	3.3196	-139
-138	6.106	12.43	0.01724	3.138	3.138	-214.82	1214.92	1000.10	-0.4674	3.7766	3.3092	-138
-137	6.790	13.82	0.01724	2.831	2.831	-214.48	1215.02	1000.54	-0.4664	3.7653	3.2989	-137
-136	7.546	15.36	0.01725	2.555	2.555	-214.14	1215.12	1000.98	-0.4653	3.7540	3.2887	-136
-135	8.380	17.06	0.01725	2.308	2.308	-213.80	1215.22	1001.42	-0.4643	3.7428	3.2785	-135
-134	9.301	18.94	0.01725	2.086	2.086	-213.46	1215.32	1001.86	-0.4632	3.7315	3.2683	-134
-133	10.32	21.01	0.01725	1.886	1.886	-213.11	1215.42	1002.31	-0.4622	3.7205	3.2583	-133
-132	11.44	23.28	0.01725	1.707	1.707	-212.77	1215.52	1002.75	-0.4611	3.7093	3.2482	-132
-131	12.67	25.79	0.01725	1.545	1.545	-212.43	1215.62	1003.19	-0.4601	3.6984	3.2383	-131
-130	14.03	28.56	0.01725	1.400	1.400	-212.08	1215.71	1003.63	-0.4590	3.6874	3.2284	-130
-129	15.52	31.60	0.01725	1.269	1.269	-211.73	1215.80	1004.07	-0.4580	3.6766	3.2186	-129

^aCompiled by John A. Goff and S. Gratch.TABLE 2. THERMODYNAMIC PROPERTIES OF WATER AT SATURATION^a (Continued)

FAHR. TEMP. (°F)	ABSOLUTE PRESSURE $p_s \times 10^3$		SPECIFIC VOLUME, CU FT PER LB ^b			ENTHALPY, BTU PER LB			ENTROPY, BTU PER (LB) (°F)			FAHR. TEMP. (°F)
	Lb/Sq In.	In. Hg	Sat. Solid v_f	Evap. $v_{fg} \times 10^{-3}$	Sat. Vapor $v_g \times 10^{-3}$	Sat. Solid h_f	Evap. h_{fg}	Sat. Vapor h_g	Sat. Solid s_f	Evap. s_{fg}	Sat. Vapor s_g	
-128	1.716	3.494	0.01726	11.51	11.51	-211.39	1215.91	1004.52	-0.4589	3.6658	3.2089	-128
-127	1.897	3.862	0.01726	10.45	10.45	-211.04	1216.00	1004.96	-0.4579	3.6551	3.1992	-127
-126	2.095	4.285	0.01726	9.489	9.489	-210.69	1216.09	1005.40	-0.4568	3.6444	3.1896	-126
-125	2.312	4.708	0.01726	8.622	8.622	-210.34	1216.18	1005.84	-0.4558	3.6338	3.1800	-125
-124	2.551	5.194	0.01726	7.839	7.839	-209.99	1216.27	1006.28	-0.4547	3.6232	3.1705	-124
-123	2.812	5.726	0.01726	7.131	7.131	-209.64	1216.37	1006.73	-0.4537	3.6127	3.1610	-123
-122	3.090	6.310	0.01726	6.491	6.491	-209.28	1216.45	1007.17	-0.4526	3.6022	3.1516	-122
-121	3.413	6.949	0.01726	5.911	5.911	-208.93	1216.54	1007.61	-0.4496	3.5919	3.1423	-121
-120	3.757	7.649	0.01726	5.386	5.386	-208.58	1216.63	1008.05	-0.4485	3.5815	3.1330	-120
-119	4.133	8.414	0.01726	4.911	4.911	-208.22	1216.71	1008.49	-0.4475	3.5713	3.1238	-119
-118	4.544	9.251	0.01727	4.480	4.480	-207.86	1216.80	1008.94	-0.4464	3.5611	3.1147	-118
-117	4.993	10.17	0.01727	4.088	4.088	-207.51	1216.89	1009.38	-0.4454	3.5510	3.1056	-117
-116	5.484	11.16	0.01727	3.733	3.733	-207.15	1216.97	1009.82	-0.4444	3.5409	3.0965	-116
-115	6.019	12.26	0.01727	3.411	3.411	-206.79	1217.05	1010.26	-0.4433	3.5308	3.0875	-115
-114	6.604	13.44	0.01727	3.118	3.118	-206.43	1217.13	1010.70	-0.4423	3.5209	3.0786	-114
-113	7.241	14.74	0.01727	2.852	2.852	-206.07	1217.21	1011.14	-0.4412	3.5109	3.0697	-113
-112	7.936	16.16	0.01727	2.610	2.610	-205.70	1217.29	1011.59	-0.4402	3.5011	3.0609	-112
-111	8.693	17.70	0.01727	2.389	2.389	-205.34	1217.37	1012.03	-0.4391	3.4912	3.0521	-111
-110	9.517	19.38	0.01728	2.189	2.189	-204.98	1217.45	1012.47	-0.4381	3.4815	3.0434	-110
-109	10.41	21.20	0.01728	2.006	2.006	-204.61	1217.52	1012.91	-0.4370	3.4718	3.0348	-109
-108	11.39	23.19	0.01728	1.839	1.839	-204.24	1217.60	1013.36	-0.4360	3.4621	3.0261	-108
-107	12.45	25.35	0.01728	1.687	1.687	-203.88	1217.68	1013.80	-0.4350	3.4526	3.0176	-107
-106	13.60	27.70	0.01728	1.549	1.549	-203.51	1217.75	1014.24	-0.4339	3.4430	3.0091	-106
-105	14.86	30.25	0.01728	1.422	1.422	-203.14	1217.82	1014.68	-0.4329	3.4335	3.0006	-105
-104	16.22	33.01	0.01728	1.307	1.307	-202.77	1217.89	1015.12	-0.4318	3.4240	2.9922	-104
-103	17.69	36.02	0.01728	1.201	1.201	-202.40	1217.96	1015.56	-0.4308	3.4146	2.9838	-103
-102	19.29	39.28	0.01728	1.104	1.104	-202.03	1218.04	1016.01	-0.4298	3.4053	2.9755	-102
-101	21.03	42.81	0.01729	1.016	1.016	-201.65	1218.10	1016.45	-0.4287	3.3960	2.9673	-101
-100	22.91	46.64	0.01729	0.9352	0.9352	-201.28	1218.17	1016.89	-0.4277	3.3868	2.9591	-100
-99	24.94	50.79	0.01729	0.8613	0.8613	-200.90	1218.23	1017.33	-0.4266	3.3775	2.9509	-99
-98	27.15	55.28	0.01729	0.7936	0.7936	-200.53	1218.30	1017.77	-0.4256	3.3684	2.9428	-98
-97	29.54	60.14	0.01729	0.7314	0.7314	-200.15	1218.37	1018.22	-0.4246	3.3593	2.9347	-97

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