White Brook Solutions™

R-134a Enhanced Saturation Tables ----- basis NIST REFPROP 9.0

09/2011

TEMP	PRESSURE		VOLUME ft^3/lbm		DENSITY ρ lbm/ft^3		SATURATED ENTHALPY Btu/lbm			SENSIBLE ENTHALPY BTU/lbm °R		ENTROPY BTU/lbm°R		TEMP	PRESSURE	
°F	psia	psig	LIQUID v_f	VAPOR v_g	LIQUID $1/v_f$	VAPOR $1/v_g$	LIQUID h_f	LATENT h_{fg}	VAPOR h_g	LIQUID C_P	VAPOR C_P	LIQUID s_f	VAPOR s_g	°F	psia	psig
-70	2.86	-11.84	0.0109	14.1610	91.460	0.0706	54.83	101.52	156.35	0.2935	0.1676	0.16817	0.42869	-70	2.86	-11.84
-69	2.96	-11.74	0.0109	13.7080	91.363	0.0730	55.12	101.38	156.50	0.2937	0.1680	0.16892	0.42841	-69	2.96	-11.74
-68	3.06	-11.64	0.0110	13.2720	91.266	0.0753	55.42	101.23	156.65	0.2939	0.1683	0.16967	0.42814	-68	3.06	-11.64
-67	3.17	-11.53	0.0110	12.8530	91.169	0.0778	55.71	101.09	156.80	0.2941	0.1687	0.17042	0.42787	-67	3.17	-11.53
-66	3.28	-11.42	0.0110	12.4490	91.072	0.0803	56.01	100.94	156.95	0.2943	0.1691	0.17117	0.4276	-66	3.28	-11.42
-65	3.39	-11.31	0.0110	12.0600	90.974	0.0829	56.30	100.81	157.11	0.2945	0.1694	0.17192	0.42733	-65	3.39	-11.31
-64	3.51	-11.19	0.0110	11.6860	90.877	0.0856	56.60	100.66	157.26	0.2947	0.1698	0.17266	0.42707	-64	3.51	-11.19
-63	3.62	-11.07	0.0110	11.3260	90.779	0.0883	56.89	100.52	157.41	0.2949	0.1702	0.17341	0.42681	-63	3.62	-11.07
-62	3.75	-10.95	0.0110	10.9780	90.682	0.0911	57.19	100.37	157.56	0.2951	0.1705	0.17415	0.42656	-62	3.75	-10.95
-61	3.87	-10.82	0.0110	10.6440	90.584	0.0940	57.48	100.23	157.71	0.2953	0.1709	0.17489	0.42631	-61	3.87	-10.82
-60	4.00	-10.69	0.0111	10.3210	90.486	0.0969	57.78	100.08	157.86	0.2955	0.1713	0.17563	0.42606	-60	4.00	-10.69
-59	4.14	-10.56	0.0111	10.0100	90.388	0.0999	58.07	99.95	158.02	0.2957	0.1716	0.17637	0.42581	-59	4.14	-10.56
-58	4.27	-10.43	0.0111	9.7104	90.290	0.1030	58.37	99.80	158.17	0.2959	0.1720	0.17711	0.42557	-58	4.27	-10.43
-57	4.41	-10.28	0.0111	9.4212	90.192	0.1061	58.66	99.66	158.32	0.2961	0.1724	0.17784	0.42533	-57	4.41	-10.28
-56	4.56	-10.14	0.0111	9.1424	90.094	0.1094	58.96	99.51	158.47	0.2963	0.1728	0.17858	0.42509	-56	4.56	-10.14
-55	4.70	-9.99	0.0111	8.8733	89.995	0.1127	59.26	99.36	158.62	0.2965	0.1731	0.17931	0.42486	-55	4.70	-9.99
-54	4.85	-9.84	0.0111	8.6137	89.897	0.1161	59.55	99.23	158.78	0.2968	0.1735	0.18004	0.42463	-54	4.85	-9.84
-53	5.01	-9.69	0.0111	8.3631	89.798	0.1196	59.85	99.08	158.93	0.2970	0.1739	0.18077	0.4244	-53	5.01	-9.69
-52	5.17	-9.53	0.0111	8.1212	89.699	0.1231	60.15	98.93	159.08	0.2972	0.1743	0.1815	0.42417	-52	5.17	-9.53
-51	5.33	-9.36	0.0112	7.8876	89.600	0.1268	60.45	98.78	159.23	0.2974	0.1747	0.18223	0.42395	-51	5.33	-9.36
-50	5.50	-9.19	0.0112	7.6621	89.501	0.1305	60.74	98.64	159.38	0.2976	0.1751	0.18296	0.42373	-50	5.50	-9.19
-49	5.67	-9.02	0.0112	7.4442	89.402	0.1343	61.04	98.49	159.53	0.2978	0.1755	0.18368	0.42352	-49	5.67	-9.02
-48	5.85	-8.85	0.0112	7.2337	89.303	0.1382	61.34	98.35	159.69	0.2981	0.1758	0.18441	0.4233	-48	5.85	-8.85
-47	6.03	-8.67	0.0112	7.0304	89.204	0.1422	61.64	98.20	159.84	0.2983	0.1762	0.18513	0.42309	-47	6.03	-8.67
-46	6.22	-8.48	0.0112	6.8338	89.104	0.1463	61.94	98.05	159.99	0.2985	0.1766	0.18585	0.42288	-46	6.22	-8.48
-45	6.41	-8.29	0.0112	6.6438	89.004	0.1505	62.24	97.90	160.14	0.2987	0.1770	0.18657	0.42268	-45	6.41	-8.29
-44	6.60	-8.10	0.0112	6.4602	88.905	0.1548	62.54	97.76	160.29	0.2990	0.1774	0.18729	0.42247	-44	6.60	-8.10
-43	6.80	-7.90	0.0113	6.2825	88.805	0.1592	62.83	97.62	160.45	0.2992	0.1778	0.18801	0.42227	-43	6.80	-7.90
-42	7.00	-7.69	0.0113	6.1108	88.705	0.1637	63.13	97.47	160.60	0.2994	0.1782	0.18873	0.42208	-42	7.00	-7.69
-41	7.21	-7.48	0.0113	5.9446	88.605	0.1682	63.43	97.32	160.75	0.2996	0.1786	0.18944	0.42188	-41	7.21	-7.48
-40	7.43	-7.27	0.0113	5.7839	88.504	0.1729	63.73	97.17	160.90	0.2999	0.1790	0.19016	0.42169	-40	7.43	-7.27
-39	7.65	-7.05	0.0113	5.6283	88.404	0.1777	64.03	97.02	161.05	0.3001	0.1794	0.19087	0.4215	-39	7.65	-7.05
-38	7.87	-6.83	0.0113	5.4778	88.303	0.1826	64.33	96.87	161.20	0.3003	0.1798	0.19158	0.42131	-38	7.87	-6.83
-37	8.10	-6.60	0.0113	5.3321	88.203	0.1875	64.63	96.72	161.35	0.3006	0.1802	0.19229	0.42112	-37	8.10	-6.60
-36	8.34	-6.36	0.0114	5.1910	88.102	0.1926	64.94	96.58	161.51	0.3008	0.1807	0.193	0.42094	-36	8.34	-6.36
-35	8.58	-6.12	0.0114	5.0544	88.001	0.1979	65.24	96.42	161.66	0.3010	0.1811	0.19371	0.42076	-35	8.58	-6.12
-34	8.82	-5.87	0.0114	4.9221	87.900	0.2032	65.54	96.27	161.81	0.3013	0.1815	0.19442	0.42058	-34	8.82	-5.87
-33	9.07	-5.62	0.0114	4.7940	87.799	0.2086	65.84	96.12	161.96	0.3015	0.1819	0.19513	0.4204	-33	9.07	-5.62
-32	9.33	-5.37	0.0114	4.6698	87.697	0.2141	66.14	95.97	162.11	0.3018	0.1823	0.19583	0.42023	-32	9.33	-5.37
-31	9.59	-5.10	0.0114	4.5495	87.596	0.2198	66.44	95.82	162.26	0.3020	0.1827	0.19654	0.42006	-31	9.59	-5.10
-30	9.86	-4.83	0.0114	4.4330	87.494	0.2256	66.75	95.66	162.41	0.3022	0.1832	0.19724	0.41989	-30	9.86	-4.83
-29	10.1	-4.56	0.0114	4.3200	87.392	0.2315	67.05	95.51	162.56	0.3025	0.1836	0.19794	0.41972	-29	10.1	-4.56
-28	10.4	-4.28	0.0115	4.2104	87.290	0.2375	67.35	95.36	162.71	0.3027	0.1840	0.19864	0.41956	-28	10.4	-4.28
-27	10.7	-3.99	0.0115	4.1042	87.188	0.2437	67.66	95.21	162.86	0.3030	0.1845	0.19934	0.41939	-27	10.7	-3.99
-26	11.0	-3.70	0.0115	4.0012	87.086	0.2499	67.96	95.06	163.02	0.3032	0.1849	0.20004	0.41923	-26	11.0	-3.70
-25	11.3	-3.40	0.0115	3.9014	86.983	0.2563	68.26	94.91	163.17	0.3035	0.1853	0.20074	0.41907	-25	11.3	-3.40
-24	11.6	-3.09	0.0115	3.8045	86.881	0.2629	68.57	94.75	163.32	0.3037	0.1858	0.20144	0.41892	-24	11.6	-3.09
-23	11.9	-2.78	0.0115	3.7105	86.778	0.2695	68.87	94.60	163.47	0.3040	0.1862	0.20213	0.41876	-23	11.9	-2.78
-22	12.2	-2.46	0.0115	3.6193	86.675	0.2763	69.17	94.45	163.62	0.3042	0.1866	0.20283	0.41861	-22	12.2	-2.46
-21	12.6	-2.13	0.0116	3.5308	86.572	0.2832	69.48	94.29	163.77	0.3045	0.1871	0.20352	0.41846	-21	12.6	-2.13
-20	12.9	-1.80	0.0116	3.4449	86.469	0.2903	69.78	94.14	163.92	0.3047	0.1875	0.20421	0.41831	-20	12.9	-1.80
-19	13.2	-1.46	0.0116	3.3615	86.365	0.2975	70.09	93.98	164.07	0.3050	0.1880	0.2049	0.41817	-19	13.2	-1.46
-18	13.6	-1.11	0.0116	3.2805	86.262	0.3048	70.40	93.83	164.22	0.3053	0.1884	0.2056	0.41802	-18	13.6	-1.11
-17	13.9	-0.76	0.0116	3.2019	86.158	0.3123	70.70	93.67	164.37	0.3055	0.1889	0.20629	0.41788	-17	13.9	-0.76
-16	14.3	-0.39	0.0116	3.1255	86.054	0.3200	71.01	93.51	164.52	0.3058	0.1893	0.20697	0.41774	-16	14.3	-0.39
-15	14.7	-0.03	0.0116	3.0514	85.950	0.3277	71.31	93.36	164.67	0.3060	0.1898	0.20766	0.4176	-15	14.7	-0.03
-14	15.0	0.35	0.0116	2.9793	85.846	0.3357	71.62	93.19	164.81	0.3063	0.1902	0.20835	0.41746	-14	15.0	0.35

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R-134a Enhanced Saturation Tables ----- basis NIST REFPROP 9.0

09/2011

TEMP	PRESSURE		VOLUME ft³/lbm		DENSITY ρ lbm/ft³		SATURATED ENTHALPY Btu/lbm			SENSIBLE ENTHALPY BTU/lbm °R		ENTROPY BTU/lbm°R		TEMP	PRESSURE	
°F	psia	psig	LIQUID v_f	VAPOR v_g	LIQUID $1/v_f$	VAPOR $1/v_g$	LIQUID h_f	LATENT h_{fg}	VAPOR h_g	LIQUID C_P	VAPOR C_P	LIQUID s_f	VAPOR s_g	°F	psia	psig
-13	15.4	0.74	0.0117	2.9093	85.742	0.3437	71.93	93.03	164.96	0.3066	0.1907	0.20903	0.41733	-13	15.4	0.74
-12	15.8	1.13	0.0117	2.8413	85.637	0.3520	72.23	92.88	165.11	0.3068	0.1912	0.20972	0.41719	-12	15.8	1.13
-11	16.2	1.53	0.0117	2.7752	85.532	0.3603	72.54	92.72	165.26	0.3071	0.1916	0.2104	0.41706	-11	16.2	1.53
-10	16.6	1.94	0.0117	2.7109	85.427	0.3689	72.85	92.56	165.41	0.3074	0.1921	0.21109	0.41693	-10	16.6	1.94
-9	17.0	2.35	0.0117	2.6485	85.322	0.3776	73.16	92.40	165.56	0.3077	0.1926	0.21177	0.4168	-9	17.0	2.35
-8	17.5	2.78	0.0117	2.5877	85.217	0.3864	73.46	92.25	165.71	0.3079	0.1931	0.21245	0.41668	-8	17.5	2.78
-7	17.9	3.21	0.0117	2.5287	85.111	0.3955	73.77	92.09	165.86	0.3082	0.1935	0.21313	0.41655	-7	17.9	3.21
-6	18.3	3.65	0.0118	2.4712	85.006	0.4047	74.08	91.92	166.00	0.3085	0.1940	0.21381	0.41643	-6	18.3	3.65
-5	18.8	4.10	0.0118	2.4154	84.900	0.4140	74.39	91.76	166.15	0.3088	0.1945	0.21449	0.41631	-5	18.8	4.10
-4	19.3	4.56	0.0118	2.3610	84.794	0.4235	74.70	91.60	166.30	0.3091	0.1950	0.21516	0.41619	-4	19.3	4.56
-3	19.7	5.02	0.0118	2.3082	84.687	0.4332	75.01	91.44	166.45	0.3093	0.1955	0.21584	0.41607	-3	19.7	5.02
-2	20.2	5.50	0.0118	2.2567	84.581	0.4431	75.32	91.27	166.59	0.3096	0.1960	0.21652	0.41595	-2	20.2	5.50
-1	20.7	5.98	0.0118	2.2067	84.474	0.4532	75.63	91.11	166.74	0.3099	0.1965	0.21719	0.41584	-1	20.7	5.98
0	21.2	6.48	0.0119	2.1579	84.368	0.4634	75.94	90.95	166.89	0.3102	0.1970	0.21786	0.41572	0	21.2	6.48
1	21.7	6.98	0.0119	2.1105	84.261	0.4738	76.25	90.79	167.04	0.3105	0.1975	0.21854	0.41561	1	21.7	6.98
2	22.2	7.49	0.0119	2.0643	84.153	0.4844	76.56	90.62	167.18	0.3108	0.1980	0.21921	0.4155	2	22.2	7.49
3	22.7	8.01	0.0119	2.0194	84.046	0.4952	76.87	90.46	167.33	0.3111	0.1985	0.21988	0.41539	3	22.7	8.01
4	23.2	8.54	0.0119	1.9756	83.938	0.5062	77.19	90.30	167.48	0.3114	0.1990	0.22055	0.41528	4	23.2	8.54
5	23.8	9.08	0.0119	1.9330	83.830	0.5173	77.50	90.12	167.62	0.3117	0.1995	0.22122	0.41518	5	23.8	9.08
6	24.3	9.63	0.0119	1.8914	83.722	0.5287	77.81	89.96	167.77	0.3120	0.2000	0.22189	0.41507	6	24.3	9.63
7	24.9	10.2	0.0120	1.8510	83.614	0.5403	78.12	89.79	167.91	0.3123	0.2005	0.22256	0.41497	7	24.9	10.2
8	25.5	10.8	0.0120	1.8116	83.505	0.5520	78.44	89.63	168.06	0.3126	0.2010	0.22322	0.41487	8	25.5	10.8
9	26.0	11.3	0.0120	1.7732	83.397	0.5640	78.75	89.45	168.20	0.3129	0.2015	0.22389	0.41476	9	26.0	11.3
10	26.6	11.9	0.0120	1.7357	83.288	0.5761	79.06	89.29	168.35	0.3132	0.2021	0.22456	0.41467	10	26.6	11.9
11	27.2	12.5	0.0120	1.6993	83.179	0.5885	79.38	89.12	168.49	0.3135	0.2026	0.22522	0.41457	11	27.2	12.5
12	27.8	13.1	0.0120	1.6637	83.069	0.6011	79.69	88.95	168.64	0.3138	0.2031	0.22588	0.41447	12	27.8	13.1
13	28.5	13.8	0.0121	1.6291	82.960	0.6139	80.00	88.78	168.78	0.3141	0.2037	0.22655	0.41437	13	28.5	13.8
14	29.1	14.4	0.0121	1.5953	82.850	0.6269	80.32	88.61	168.93	0.3144	0.2042	0.22721	0.41428	14	29.1	14.4
15	29.7	15.0	0.0121	1.5623	82.740	0.6401	80.63	88.44	169.07	0.3147	0.2047	0.22787	0.41419	15	29.7	15.0
16	30.4	15.7	0.0121	1.5302	82.629	0.6535	80.95	88.27	169.22	0.3151	0.2053	0.22853	0.4141	16	30.4	15.7
17	31.1	16.4	0.0121	1.4989	82.519	0.6672	81.27	88.10	169.36	0.3154	0.2058	0.22919	0.41401	17	31.1	16.4
18	31.7	17.0	0.0121	1.4683	82.408	0.6811	81.58	87.92	169.50	0.3157	0.2064	0.22985	0.41392	18	31.7	17.0
19	32.4	17.7	0.0122	1.4385	82.297	0.6952	81.90	87.75	169.65	0.3160	0.2069	0.23051	0.41383	19	32.4	17.7
20	33.1	18.4	0.0122	1.4094	82.186	0.7095	82.21	87.58	169.79	0.3164	0.2075	0.23117	0.41374	20	33.1	18.4
21	33.8	19.1	0.0122	1.3811	82.074	0.7241	82.53	87.40	169.93	0.3167	0.2081	0.23182	0.41366	21	33.8	19.1
22	34.6	19.9	0.0122	1.3534	81.962	0.7389	82.85	87.22	170.07	0.3170	0.2086	0.23248	0.41357	22	34.6	19.9
23	35.3	20.6	0.0122	1.3263	81.850	0.7540	83.17	87.05	170.22	0.3174	0.2092	0.23314	0.41349	23	35.3	20.6
24	36.0	21.3	0.0122	1.3000	81.738	0.7693	83.49	86.88	170.36	0.3177	0.2098	0.23379	0.41341	24	36.0	21.3
25	36.8	22.1	0.0123	1.2742	81.626	0.7848	83.80	86.70	170.50	0.3181	0.2103	0.23445	0.41332	25	36.8	22.1
26	37.6	22.9	0.0123	1.2491	81.513	0.8006	84.12	86.52	170.64	0.3184	0.2109	0.2351	0.41324	26	37.6	22.9
27	38.4	23.7	0.0123	1.2246	81.400	0.8166	84.44	86.34	170.78	0.3187	0.2115	0.23575	0.41316	27	38.4	23.7
28	39.2	24.5	0.0123	1.2006	81.286	0.8329	84.76	86.16	170.92	0.3191	0.2121	0.2364	0.41309	28	39.2	24.5
29	40.0	25.3	0.0123	1.1772	81.173	0.8495	85.08	85.98	171.06	0.3194	0.2127	0.23706	0.41301	29	40.0	25.3
30	40.8	26.1	0.0123	1.1543	81.059	0.8663	85.40	85.80	171.20	0.3198	0.2133	0.23771	0.41293	30	40.8	26.1
31	41.6	26.9	0.0124	1.1320	80.945	0.8834	85.72	85.62	171.34	0.3202	0.2138	0.23836	0.41286	31	41.6	26.9
32	42.5	27.8	0.0124	1.1102	80.830	0.9007	86.04	85.44	171.48	0.3205	0.2144	0.23901	0.41278	32	42.5	27.8
33	43.3	28.6	0.0124	1.0889	80.716	0.9183	86.36	85.26	171.62	0.3209	0.2151	0.23965	0.41271	33	43.3	28.6
34	44.2	29.5	0.0124	1.0681	80.601	0.9362	86.69	85.08	171.76	0.3213	0.2157	0.2403	0.41264	34	44.2	29.5
35	45.1	30.4	0.0124	1.0478	80.485	0.9544	87.01	84.89	171.90	0.3216	0.2163	0.24095	0.41257	35	45.1	30.4
36	46.0	31.3	0.0124	1.0279	80.370	0.9729	87.33	84.71	172.04	0.3220	0.2169	0.2416	0.4125	36	46.0	31.3
37	46.9	32.2	0.0125	1.0085	80.254	0.9916	87.65	84.53	172.18	0.3224	0.2175	0.24224	0.41243	37	46.9	32.2
38	47.8	33.1	0.0125	0.9895	80.138	1.0106	87.98	84.34	172.31	0.3227	0.2181	0.24289	0.41236	38	47.8	33.1
39	48.8	34.1	0.0125	0.9709	80.021	1.0299	88.30	84.15	172.45	0.3231	0.2188	0.24353	0.41229	39	48.8	34.1
40	49.7	35.0	0.0125	0.9528	79.904	1.0495	88.62	83.97	172.59	0.3235	0.2194	0.24418	0.41222	40	49.7	35.0
41	50.7	36.0	0.0125	0.9351	79.787	1.0694	88.95	83.78	172.73	0.3239	0.2200	0.24482	0.41216	41	50.7	36.0
42	51.7	37.0	0.0126	0.9177	79.670	1.0897	89.27	83.59	172.86	0.3243	0.2207	0.24547	0.41209	42	51.7	37.0
43	52.7	38.0	0.0126	0.9008	79.552	1.1102	89.60	83.40	173.00	0.3247	0.2213	0.24611	0.41203	43	52.7	38.0

White Brook Solutions™

R-134a Enhanced Saturation Tables ----- basis NIST REFPROP 9.0

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TEMP	PRESSURE		VOLUME ft³/lbm		DENSITY ρ lbm/ft³		SATURATED ENTHALPY Btu/lbm			SENSIBLE ENTHALPY BTU/lbm °R		ENTROPY BTU/lbm°R		TEMP	PRESSURE	
°F	psia	psig	LIQUID v_f	VAPOR v_g	LIQUID $1/v_f$	VAPOR $1/v_g$	LIQUID h_f	LATENT h_{fg}	VAPOR h_g	LIQUID C_P	VAPOR C_P	LIQUID s_f	VAPOR s_g	°F	psia	psig
44	53.7	39.0	0.0126	0.8842	79.434	1.1310	89.92	83.21	173.13	0.3251	0.2220	0.24675	0.41196	44	53.7	39.0
45	54.7	40.1	0.0126	0.8680	79.316	1.1521	90.25	83.02	173.27	0.3255	0.2226	0.24739	0.4119	45	54.7	40.1
46	55.8	41.1	0.0126	0.8521	79.197	1.1736	90.57	82.84	173.41	0.3259	0.2233	0.24803	0.41184	46	55.8	41.1
47	56.9	42.2	0.0126	0.8366	79.078	1.1954	90.90	82.64	173.54	0.3263	0.2240	0.24867	0.41178	47	56.9	42.2
48	57.9	43.2	0.0127	0.8214	78.959	1.2175	91.23	82.44	173.67	0.3267	0.2246	0.24931	0.41171	48	57.9	43.2
49	59.0	44.3	0.0127	0.8065	78.839	1.2399	91.56	82.26	173.81	0.3271	0.2253	0.24995	0.41165	49	59.0	44.3
50	60.1	45.4	0.0127	0.7920	78.719	1.2627	91.88	82.06	173.94	0.3275	0.2260	0.25059	0.41159	50	60.1	45.4
51	61.3	46.6	0.0127	0.7778	78.599	1.2858	92.21	81.87	174.08	0.3280	0.2267	0.25123	0.41154	51	61.3	46.6
52	62.4	47.7	0.0127	0.7638	78.478	1.3092	92.54	81.67	174.21	0.3284	0.2274	0.25187	0.41148	52	62.4	47.7
53	63.6	48.9	0.0128	0.7502	78.357	1.3330	92.87	81.47	174.34	0.3288	0.2280	0.2525	0.41142	53	63.6	48.9
54	64.7	50.0	0.0128	0.7369	78.235	1.3571	93.20	81.27	174.47	0.3292	0.2287	0.25314	0.41136	54	64.7	50.0
55	65.9	51.2	0.0128	0.7238	78.114	1.3816	93.53	81.07	174.60	0.3297	0.2295	0.25378	0.41131	55	65.9	51.2
56	67.1	52.4	0.0128	0.7110	77.991	1.4065	93.86	80.88	174.74	0.3301	0.2302	0.25441	0.41125	56	67.1	52.4
57	68.3	53.6	0.0128	0.6985	77.869	1.4317	94.19	80.68	174.87	0.3306	0.2309	0.25505	0.4112	57	68.3	53.6
58	69.6	54.9	0.0129	0.6862	77.746	1.4572	94.52	80.48	175.00	0.3310	0.2316	0.25568	0.41114	58	69.6	54.9
59	70.8	56.1	0.0129	0.6742	77.623	1.4832	94.85	80.28	175.13	0.3315	0.2323	0.25632	0.41109	59	70.8	56.1
60	72.1	57.4	0.0129	0.6625	77.499	1.5095	95.19	80.08	175.26	0.3319	0.2331	0.25695	0.41103	60	72.1	57.4
61	73.4	58.7	0.0129	0.6510	77.375	1.5362	95.52	79.87	175.39	0.3324	0.2338	0.25759	0.41098	61	73.4	58.7
62	74.7	60.0	0.0129	0.6397	77.250	1.5633	95.85	79.66	175.51	0.3329	0.2346	0.25822	0.41093	62	74.7	60.0
63	76.0	61.3	0.0130	0.6286	77.126	1.5908	96.18	79.46	175.64	0.3333	0.2353	0.25885	0.41088	63	76.0	61.3
64	77.4	62.7	0.0130	0.6178	77.000	1.6187	96.52	79.25	175.77	0.3338	0.2361	0.25948	0.41082	64	77.4	62.7
65	78.7	64.0	0.0130	0.6072	76.875	1.6470	96.85	79.05	175.90	0.3343	0.2368	0.26011	0.41077	65	78.7	64.0
66	80.1	65.4	0.0130	0.5968	76.749	1.6757	97.19	78.84	176.03	0.3348	0.2376	0.26075	0.41072	66	80.1	65.4
67	81.5	66.8	0.0131	0.5866	76.622	1.7048	97.52	78.63	176.15	0.3353	0.2384	0.26138	0.41067	67	81.5	66.8
68	82.9	68.2	0.0131	0.5766	76.495	1.7343	97.86	78.42	176.28	0.3358	0.2392	0.26201	0.41062	68	82.9	68.2
69	84.4	69.7	0.0131	0.5668	76.368	1.7642	98.20	78.21	176.40	0.3363	0.2400	0.26264	0.41057	69	84.4	69.7
70	85.8	71.1	0.0131	0.5572	76.240	1.7946	98.53	78.00	176.53	0.3368	0.2408	0.26327	0.41052	70	85.8	71.1
71	87.3	72.6	0.0131	0.5478	76.112	1.8254	98.87	77.78	176.65	0.3373	0.2416	0.2639	0.41047	71	87.3	72.6
72	88.8	74.1	0.0132	0.5386	75.983	1.8566	99.21	77.57	176.78	0.3378	0.2424	0.26453	0.41043	72	88.8	74.1
73	90.3	75.6	0.0132	0.5296	75.854	1.8883	99.55	77.35	176.90	0.3383	0.2432	0.26516	0.41038	73	90.3	75.6
74	91.8	77.1	0.0132	0.5207	75.724	1.9204	99.88	77.14	177.02	0.3389	0.2440	0.26578	0.41033	74	91.8	77.1
75	93.4	78.7	0.0132	0.5120	75.594	1.9530	100.22	76.93	177.15	0.3394	0.2449	0.26641	0.41028	75	93.4	78.7
76	94.9	80.2	0.0133	0.5035	75.464	1.9860	100.56	76.71	177.27	0.3399	0.2457	0.26704	0.41023	76	94.9	80.2
77	96.5	81.8	0.0133	0.4952	75.333	2.0195	100.90	76.49	177.39	0.3405	0.2466	0.26767	0.41019	77	96.5	81.8
78	98.1	83.4	0.0133	0.4870	75.201	2.0535	101.24	76.27	177.51	0.3410	0.2474	0.26829	0.41014	78	98.1	83.4
79	99.7	85.0	0.0133	0.4789	75.069	2.0880	101.59	76.04	177.63	0.3416	0.2483	0.26892	0.41009	79	99.7	85.0
80	101.4	86.7	0.0133	0.4710	74.937	2.1229	101.93	75.82	177.75	0.3422	0.2492	0.26955	0.41005	80	101.4	86.7
81	103.1	88.4	0.0134	0.4633	74.804	2.1584	102.27	75.60	177.87	0.3427	0.2501	0.27017	0.41	81	103.1	88.4
82	104.7	90.0	0.0134	0.4557	74.670	2.1943	102.61	75.38	177.99	0.3433	0.2510	0.2708	0.40996	82	104.7	90.0
83	106.5	91.8	0.0134	0.4483	74.536	2.2308	102.96	75.15	178.11	0.3439	0.2519	0.27143	0.40991	83	106.5	91.8
84	108.2	93.5	0.0134	0.4410	74.402	2.2678	103.30	74.93	178.23	0.3445	0.2528	0.27205	0.40986	84	108.2	93.5
85	109.9	95.2	0.0135	0.4338	74.266	2.3052	103.65	74.69	178.34	0.3451	0.2537	0.27268	0.40982	85	109.9	95.2
86	111.7	97.0	0.0135	0.4268	74.131	2.3433	103.99	74.47	178.46	0.3457	0.2547	0.2733	0.40977	86	111.7	97.0
87	113.5	98.8	0.0135	0.4199	73.995	2.3818	104.34	74.24	178.58	0.3463	0.2556	0.27393	0.40973	87	113.5	98.8
88	115.3	100.6	0.0135	0.4131	73.858	2.4209	104.68	74.01	178.69	0.3470	0.2566	0.27455	0.40968	88	115.3	100.6
89	117.2	102.5	0.0136	0.4064	73.721	2.4605	105.03	73.77	178.80	0.3476	0.2575	0.27518	0.40964	89	117.2	102.5
90	119.0	104.3	0.0136	0.3999	73.583	2.5007	105.38	73.54	178.92	0.3482	0.2585	0.2758	0.40959	90	119.0	104.3
91	120.9	106.2	0.0136	0.3935	73.444	2.5415	105.73	73.30	179.03	0.3489	0.2595	0.27643	0.40955	91	120.9	106.2
92	122.8	108.1	0.0136	0.3872	73.305	2.5828	106.08	73.06	179.14	0.3495	0.2605	0.27705	0.4095	92	122.8	108.1
93	124.7	110.0	0.0137	0.3810	73.166	2.6247	106.42	72.84	179.26	0.3502	0.2615	0.27767	0.40946	93	124.7	110.0
94	126.7	112.0	0.0137	0.3749	73.026	2.6672	106.77	72.60	179.37	0.3509	0.2625	0.2783	0.40941	94	126.7	112.0
95	128.6	114.0	0.0137	0.3690	72.885	2.7103	107.13	72.35	179.48	0.3516	0.2636	0.27892	0.40937	95	128.6	114.0
96	130.6	115.9	0.0137	0.3631	72.743	2.7541	107.48	72.11	179.59	0.3522	0.2646	0.27955	0.40932	96	130.6	115.9
97	132.7	118.0	0.0138	0.3574	72.601	2.7984	107.83	71.87	179.70	0.3529	0.2657	0.28017	0.40928	97	132.7	118.0
98	134.7	120.0	0.0138	0.3517	72.459	2.8433	108.18	71.63	179.81	0.3537	0.2668	0.28079	0.40923	98	134.7	120.0
99	136.8	122.1	0.0138	0.3462	72.315	2.8889	108.53	71.38	179.91	0.3544	0.2679	0.28142	0.40918	99	136.8	122.1
100	138.9	124.2	0.0139	0.3407	72.171	2.9352	108.89	71.13	180.02	0.3551	0.2690	0.28204	0.40914	100	138.9	124.2

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TEMP	PRESSURE		VOLUME ft^3/lbm		DENSITY ρ lbm/ft^3		SATURATED ENTHALPY Btu/lbm			SENSIBLE ENTHALPY BTU/lbm °R		ENTROPY BTU/lbm°R		TEMP	PRESSURE	
°F	psia	psig	LIQUID v_f	VAPOR v_g	LIQUID $1/v_f$	VAPOR $1/v_g$	LIQUID h_f	LATENT h_{fg}	VAPOR h_g	LIQUID C_P	VAPOR C_P	LIQUID s_f	VAPOR s_g	°F	psia	psig
101	141.0	126.3	0.0139	0.3353	72.027	2.9820	109.24	70.89	180.13	0.3558	0.2701	0.28266	0.40909	101	141.0	126.3
102	143.1	128.4	0.0139	0.3301	71.881	3.0296	109.60	70.63	180.23	0.3566	0.2712	0.28328	0.40905	102	143.1	128.4
103	145.3	130.6	0.0139	0.3249	71.735	3.0778	109.95	70.39	180.34	0.3574	0.2724	0.28391	0.409	103	145.3	130.6
104	147.4	132.8	0.0140	0.3198	71.589	3.1267	110.31	70.13	180.44	0.3581	0.2735	0.28453	0.40895	104	147.4	132.8
105	149.7	135.0	0.0140	0.3148	71.441	3.1763	110.67	69.88	180.55	0.3589	0.2747	0.28515	0.40891	105	149.7	135.0
106	151.9	137.2	0.0140	0.3099	71.293	3.2266	111.03	69.62	180.65	0.3597	0.2759	0.28578	0.40886	106	151.9	137.2
107	154.1	139.5	0.0141	0.3051	71.144	3.2776	111.38	69.37	180.75	0.3605	0.2771	0.2864	0.40881	107	154.1	139.5
108	156.4	141.7	0.0141	0.3004	70.995	3.3294	111.74	69.11	180.85	0.3613	0.2784	0.28702	0.40876	108	156.4	141.7
109	158.7	144.0	0.0141	0.2957	70.844	3.3819	112.10	68.85	180.95	0.3622	0.2796	0.28765	0.40871	109	158.7	144.0
110	161.1	146.4	0.0141	0.2911	70.693	3.4351	112.46	68.59	181.05	0.3630	0.2809	0.28827	0.40867	110	161.1	146.4
111	163.4	148.7	0.0142	0.2866	70.541	3.4891	112.83	68.32	181.15	0.3639	0.2822	0.28889	0.40862	111	163.4	148.7
112	165.8	151.1	0.0142	0.2822	70.388	3.5439	113.19	68.06	181.25	0.3648	0.2835	0.28952	0.40857	112	165.8	151.1
113	168.2	153.5	0.0142	0.2778	70.235	3.5994	113.55	67.79	181.34	0.3656	0.2848	0.29014	0.40852	113	168.2	153.5
114	170.7	156.0	0.0143	0.2735	70.081	3.6558	113.91	67.53	181.44	0.3665	0.2862	0.29076	0.40847	114	170.7	156.0
115	173.1	158.4	0.0143	0.2693	69.925	3.7130	114.28	67.25	181.53	0.3675	0.2876	0.29139	0.40842	115	173.1	158.4
116	175.6	160.9	0.0143	0.2652	69.769	3.7710	114.64	66.99	181.63	0.3684	0.2889	0.29201	0.40836	116	175.6	160.9
117	178.1	163.5	0.0144	0.2611	69.612	3.8298	115.01	66.71	181.72	0.3693	0.2904	0.29263	0.40831	117	178.1	163.5
118	180.7	166.0	0.0144	0.2571	69.455	3.8895	115.38	66.43	181.81	0.3703	0.2918	0.29326	0.40826	118	180.7	166.0
119	183.3	168.6	0.0144	0.2532	69.296	3.9501	115.75	66.15	181.90	0.3713	0.2933	0.29388	0.40821	119	183.3	168.6
120	185.9	171.2	0.0145	0.2493	69.137	4.0116	116.12	65.87	181.99	0.3723	0.2948	0.29451	0.40815	120	185.9	171.2
121	188.5	173.8	0.0145	0.2455	68.976	4.0739	116.48	65.60	182.08	0.3733	0.2963	0.29513	0.4081	121	188.5	173.8
122	191.1	176.5	0.0145	0.2417	68.815	4.1372	116.86	65.31	182.17	0.3743	0.2978	0.29576	0.40804	122	191.1	176.5
123	193.8	179.1	0.0146	0.2380	68.652	4.2014	117.23	65.02	182.25	0.3754	0.2994	0.29638	0.40799	123	193.8	179.1
124	196.5	181.8	0.0146	0.2344	68.489	4.2666	117.60	64.74	182.34	0.3764	0.3010	0.29701	0.40793	124	196.5	181.8
125	199.3	184.6	0.0146	0.2308	68.325	4.3327	117.97	64.45	182.42	0.3775	0.3026	0.29764	0.40787	125	199.3	184.6
126	202.0	187.4	0.0147	0.2273	68.159	4.3999	118.35	64.16	182.51	0.3786	0.3043	0.29826	0.40781	126	202.0	187.4
127	204.8	190.2	0.0147	0.2238	67.993	4.4680	118.72	63.87	182.59	0.3798	0.3060	0.29889	0.40775	127	204.8	190.2
128	207.7	193.0	0.0147	0.2204	67.826	4.5372	119.10	63.57	182.67	0.3809	0.3077	0.29952	0.40769	128	207.7	193.0
129	210.5	195.8	0.0148	0.2170	67.657	4.6074	119.47	63.28	182.75	0.3821	0.3095	0.30014	0.40763	129	210.5	195.8
130	213.4	198.7	0.0148	0.2137	67.488	4.6786	119.85	62.98	182.83	0.3833	0.3113	0.30077	0.40757	130	213.4	198.7
131	216.3	201.6	0.0149	0.2105	67.317	4.7510	120.23	62.68	182.91	0.3845	0.3131	0.3014	0.40751	131	216.3	201.6
132	219.3	204.6	0.0149	0.2073	67.145	4.8245	120.61	62.37	182.98	0.3858	0.3150	0.30203	0.40744	132	219.3	204.6
133	222.2	207.6	0.0149	0.2041	66.972	4.8991	120.99	62.07	183.06	0.3871	0.3169	0.30266	0.40738	133	222.2	207.6
134	225.2	210.6	0.0150	0.2010	66.798	4.9748	121.37	61.76	183.13	0.3884	0.3188	0.30329	0.40731	134	225.2	210.6
135	228.3	213.6	0.0150	0.1980	66.623	5.0517	121.76	61.44	183.20	0.3897	0.3208	0.30392	0.40725	135	228.3	213.6
136	231.3	216.7	0.0151	0.1949	66.447	5.1299	122.14	61.13	183.27	0.3911	0.3228	0.30455	0.40718	136	231.3	216.7
137	234.4	219.8	0.0151	0.1920	66.269	5.2092	122.53	60.81	183.34	0.3924	0.3249	0.30518	0.40711	137	234.4	219.8
138	237.6	222.9	0.0151	0.1890	66.090	5.2898	122.91	60.50	183.41	0.3939	0.3270	0.30581	0.40704	138	237.6	222.9
139	240.7	226.0	0.0152	0.1862	65.910	5.3717	123.30	60.18	183.48	0.3953	0.3292	0.30645	0.40696	139	240.7	226.0
140	243.9	229.2	0.0152	0.1833	65.728	5.4549	123.69	59.85	183.54	0.3968	0.3315	0.30708	0.40689	140	243.9	229.2
141	247.1	232.5	0.0153	0.1805	65.545	5.5395	124.08	59.52	183.60	0.3983	0.3337	0.30771	0.40681	141	247.1	232.5
142	250.4	235.7	0.0153	0.1778	65.361	5.6253	124.47	59.20	183.67	0.3999	0.3361	0.30835	0.40674	142	250.4	235.7
143	253.7	239.0	0.0153	0.1751	65.175	5.7126	124.86	58.87	183.73	0.4015	0.3385	0.30898	0.40666	143	253.7	239.0
144	257.0	242.3	0.0154	0.1724	64.988	5.8014	125.25	58.53	183.78	0.4031	0.3409	0.30962	0.40658	144	257.0	242.3
145	260.4	245.7	0.0154	0.1697	64.799	5.8916	125.65	58.19	183.84	0.4048	0.3435	0.31026	0.4065	145	260.4	245.7
146	263.7	249.1	0.0155	0.1671	64.609	5.9832	126.04	57.86	183.90	0.4065	0.3461	0.3109	0.40641	146	263.7	249.1
147	267.2	252.5	0.0155	0.1646	64.417	6.0765	126.44	57.51	183.95	0.4082	0.3487	0.31154	0.40633	147	267.2	252.5
148	270.6	255.9	0.0156	0.1620	64.224	6.1712	126.84	57.16	184.00	0.4100	0.3514	0.31218	0.40624	148	270.6	255.9
149	274.1	259.4	0.0156	0.1596	64.029	6.2676	127.24	56.81	184.05	0.4119	0.3543	0.31282	0.40615	149	274.1	259.4
150	277.6	262.9	0.0157	0.1571	63.832	6.3657	127.64	56.46	184.10	0.4138	0.3571	0.31346	0.40606	150	277.6	262.9
151	281.2	266.5	0.0157	0.1547	63.634	6.4654	128.04	56.11	184.15	0.4158	0.3601	0.3141	0.40597	151	281.2	266.5
152	284.8	270.1	0.0158	0.1523	63.434	6.5669	128.45	55.74	184.19	0.4178	0.3632	0.31475	0.40588	152	284.8	270.1
153	288.4	273.7	0.0158	0.1499	63.232	6.6702	128.85	55.38	184.23	0.4198	0.3663	0.31539	0.40578	153	288.4	273.7
154	292.0	277.3	0.0159	0.1476	63.028	6.7752	129.26	55.01	184.27	0.4220	0.3696	0.31604	0.40568	154	292.0	277.3
155	295.7	281.0	0.0159	0.1453	62.822	6.8822	129.67	54.64	184.31	0.4242	0.3729	0.31669	0.40558	155	295.7	281.0
156	299.5	284.8	0.0160	0.1430	62.615	6.9911	130.08	54.27	184.35	0.4264	0.3764	0.31733	0.40547	156	299.5	284.8
157	303.2	288.5	0.0160	0.1408	62.405	7.1020	130.49	53.89	184.38	0.4287	0.3799	0.31798	0.40537	157	303.2	288.5

White Brook Solutions™

R-134a Enhanced Saturation Tables ----- basis NIST REFPROP 9.0

09/2011

TEMP	PRESSURE		VOLUME ft³/lbm		DENSITY ρ lbm/ft³		SATURATED ENTHALPY Btu/lbm			SENSIBLE ENTHALPY BTU/lbm °R		ENTROPY BTU/lbm°R		TEMP	PRESSURE	
°F	psia	psig	LIQUID v_f	VAPOR v_g	LIQUID $1/v_f$	VAPOR $1/v_g$	LIQUID h_f	LATENT h_{fg}	VAPOR h_g	LIQUID C_P	VAPOR C_P	LIQUID s_f	VAPOR s_g	°F	psia	psig
158	307.0	292.3	0.0161	0.1386	62.194	7.2149	130.91	53.50	184.41	0.4312	0.3836	0.31864	0.40526	158	307.0	292.3
159	310.9	296.2	0.0161	0.1364	61.980	7.3299	131.32	53.12	184.44	0.4336	0.3874	0.31929	0.40515	159	310.9	296.2
160	314.7	300.0	0.0162	0.1343	61.764	7.4471	131.74	52.72	184.46	0.4362	0.3914	0.31995	0.40503	160	314.7	300.0
161	318.6	303.9	0.0162	0.1322	61.546	7.5665	132.16	52.33	184.49	0.4388	0.3955	0.3206	0.40492	161	318.6	303.9
162	322.6	307.9	0.0163	0.1301	61.326	7.6882	132.58	51.93	184.51	0.4416	0.3997	0.32126	0.4048	162	322.6	307.9
163	326.6	311.9	0.0164	0.1280	61.103	7.8123	133.00	51.53	184.53	0.4444	0.4041	0.32192	0.40467	163	326.6	311.9
164	330.6	315.9	0.0164	0.1260	60.877	7.9388	133.42	51.12	184.54	0.4474	0.4086	0.32258	0.40455	164	330.6	315.9
165	334.7	320.0	0.0165	0.1240	60.650	8.0678	133.85	50.71	184.56	0.4504	0.4134	0.32325	0.40442	165	334.7	320.0
166	338.7	324.1	0.0166	0.1220	60.419	8.1994	134.28	50.29	184.57	0.4536	0.4183	0.32391	0.40428	166	338.7	324.1
167	342.9	328.2	0.0166	0.1200	60.186	8.3338	134.71	49.86	184.57	0.4569	0.4234	0.32458	0.40415	167	342.9	328.2
168	347.1	332.4	0.0167	0.1181	59.950	8.4709	135.14	49.44	184.58	0.4603	0.4287	0.32525	0.404	168	347.1	332.4
169	351.3	336.6	0.0167	0.1161	59.711	8.6109	135.58	49.00	184.58	0.4638	0.4343	0.32592	0.40386	169	351.3	336.6
170	355.5	340.8	0.0168	0.1142	59.469	8.7539	136.02	48.55	184.57	0.4675	0.4400	0.32659	0.40371	170	355.5	340.8
171	359.8	345.1	0.0169	0.1124	59.224	8.9000	136.46	48.11	184.57	0.4714	0.4461	0.32727	0.40356	171	359.8	345.1
172	364.2	349.5	0.0170	0.1105	58.976	9.0493	136.90	47.66	184.56	0.4754	0.4524	0.32795	0.4034	172	364.2	349.5
173	368.5	353.8	0.0170	0.1087	58.725	9.2019	137.34	47.20	184.54	0.4796	0.4591	0.32863	0.40324	173	368.5	353.8
174	373.0	358.3	0.0171	0.1069	58.470	9.3580	137.79	46.74	184.53	0.4840	0.4660	0.32932	0.40307	174	373.0	358.3
175	377.4	362.7	0.0172	0.1051	58.211	9.5177	138.24	46.27	184.51	0.4887	0.4733	0.33001	0.4029	175	377.4	362.7
176	381.9	367.2	0.0173	0.1033	57.948	9.6812	138.70	45.78	184.48	0.4935	0.4809	0.3307	0.40272	176	381.9	367.2
177	386.5	371.8	0.0173	0.1015	57.682	9.8486	139.15	45.30	184.45	0.4986	0.4890	0.33139	0.40254	177	386.5	371.8
178	391.0	376.3	0.0174	0.0998	57.411	10.0200	139.61	44.81	184.42	0.5040	0.4975	0.33209	0.40235	178	391.0	376.3
179	395.7	381.0	0.0175	0.0981	57.136	10.1960	140.07	44.31	184.38	0.5096	0.5065	0.33279	0.40216	179	395.7	381.0
180	400.3	385.6	0.0176	0.0964	56.857	10.3760	140.54	43.79	184.33	0.5156	0.5159	0.3335	0.40196	180	400.3	385.6
181	405.1	390.4	0.0177	0.0947	56.573	10.5610	141.01	43.27	184.28	0.5219	0.5260	0.33421	0.40175	181	405.1	390.4
182	409.8	395.1	0.0178	0.0930	56.284	10.7510	141.48	42.75	184.23	0.5286	0.5366	0.33492	0.40153	182	409.8	395.1
183	414.6	399.9	0.0179	0.0914	55.989	10.9460	141.96	42.21	184.17	0.5357	0.5480	0.33564	0.40131	183	414.6	399.9
184	419.5	404.8	0.0180	0.0897	55.690	11.1460	142.44	41.66	184.10	0.5432	0.5600	0.33636	0.40108	184	419.5	404.8
185	424.4	409.7	0.0181	0.0881	55.384	11.3530	142.93	41.10	184.03	0.5513	0.5729	0.33709	0.40084	185	424.4	409.7
186	429.3	414.6	0.0182	0.0865	55.072	11.5650	143.42	40.53	183.95	0.5599	0.5867	0.33782	0.4006	186	429.3	414.6
187	434.3	419.6	0.0183	0.0849	54.754	11.7840	143.91	39.95	183.86	0.5691	0.6015	0.33856	0.40034	187	434.3	419.6
188	439.3	424.6	0.0184	0.0833	54.428	12.0090	144.41	39.36	183.77	0.5790	0.6174	0.33931	0.40007	188	439.3	424.6
189	444.4	429.7	0.0185	0.0817	54.096	12.2420	144.92	38.74	183.66	0.5896	0.6346	0.34006	0.3998	189	444.4	429.7
190	449.5	434.8	0.0186	0.0801	53.755	12.4820	145.43	38.12	183.55	0.6012	0.6532	0.34082	0.39951	190	449.5	434.8
191	454.7	440.0	0.0187	0.0786	53.407	12.7310	145.94	37.50	183.44	0.6137	0.6734	0.34159	0.39921	191	454.7	440.0
192	459.9	445.2	0.0189	0.0770	53.049	12.9880	146.46	36.85	183.31	0.6274	0.6954	0.34236	0.3989	192	459.9	445.2
193	465.2	450.5	0.0190	0.0754	52.682	13.2550	146.99	36.18	183.17	0.6423	0.7194	0.34314	0.39857	193	465.2	450.5
194	470.5	455.8	0.0191	0.0739	52.304	13.5320	147.53	35.49	183.02	0.6587	0.7459	0.34394	0.39823	194	470.5	455.8
195	475.9	461.2	0.0193	0.0724	51.915	13.8200	148.08	34.78	182.86	0.6768	0.7751	0.34474	0.39787	195	475.9	461.2
196	481.3	466.6	0.0194	0.0708	51.514	14.1200	148.63	34.05	182.68	0.6969	0.8075	0.34556	0.39749	196	481.3	466.6
197	486.8	472.1	0.0196	0.0693	51.099	14.4330	149.19	33.30	182.49	0.7194	0.8438	0.34638	0.3971	197	486.8	472.1
198	492.4	477.7	0.0197	0.0677	50.670	14.7610	149.77	32.52	182.29	0.7447	0.8846	0.34723	0.39668	198	492.4	477.7
199	497.9	483.3	0.0199	0.0662	50.224	15.1040	150.35	31.72	182.07	0.7734	0.9307	0.34808	0.39624	199	497.9	483.3
200	503.6	488.9	0.0201	0.0647	49.761	15.4650	150.95	30.88	181.83	0.8062	0.9835	0.34896	0.39577	200	503.6	488.9
201	509.3	494.6	0.0203	0.0631	49.277	15.8460	151.56	30.01	181.57	0.8442	1.0445	0.34985	0.39528	201	509.3	494.6
202	515.0	500.4	0.0205	0.0615	48.771	16.2480	152.19	29.10	181.29	0.8886	1.1156	0.35077	0.39475	202	515.0	500.4
203	520.9	506.2	0.0207	0.0600	48.238	16.6770	152.83	28.15	180.98	0.9413	1.1997	0.35171	0.39418	203	520.9	506.2
204	526.7	512.0	0.0210	0.0584	47.676	17.1350	153.50	27.14	180.64	1.0049	1.3008	0.35268	0.39357	204	526.7	512.0
205	532.7	518.0	0.0212	0.0567	47.078	17.6270	154.19	26.07	180.26	1.0831	1.4246	0.35368	0.39291	205	532.7	518.0
206	538.7	524.0	0.0215	0.0551	46.438	18.1610	154.91	24.93	179.84	1.1816	1.5798	0.35473	0.39218	206	538.7	524.0
207	544.7	530.1	0.0219	0.0533	45.747	18.7450	155.66	23.71	179.37	1.3098	1.7803	0.35583	0.39138	207	544.7	530.1
208	550.9	536.2	0.0222	0.0516	44.992	19.3920	156.46	22.37	178.83	1.4833	2.0493	0.35699	0.39049	208	550.9	536.2
209	557.1	542.4	0.0226	0.0497	44.152	20.1220	157.32	20.89	178.21	1.7311	2.4294	0.35824	0.38948	209	557.1	542.4
210	563.4	548.7	0.0232	0.0477	43.197	20.9670	158.26	19.22	177.48	2.1134	3.0079	0.3596	0.3883	210	563.4	548.7
211	569.7	555.0	0.0238	0.0455	42.070	21.9810	159.33	17.25	176.58	2.7781	3.9952	0.36115	0.38687	211	569.7	555.0

Acknowledgement: Lemmon, E.W., Huber, M.L., McLinden, M.O. NIST Standard Reference Database 23: Reference Fluid Thermodynamic and Transport Properties - REFPROP, Version 9.0, National Institute of Standards and Technology, Standard Reference Data Program, Gaithersburg, 2010.