

7. ALCOHOLOMETRIC DENSITY TABLE

TABLE XLIX

Density of Mixtures of Ethyl Alcohol and Water D_4^t

Per cent alcohol by weight	Temperature t						
	10° C	15° C	20° C	25° C	30° C	35° C	40° C
0	0.99973	0.99913	0.99823	0.99708	0.99568	0.99406	0.99225
1	.99785	.99725	.99636	.99520	.99379	.99217	.99034
2	.99602	.99542	.99453	.99336	.99194	.99031	.98846
3	.99426	.99365	.99275	.99157	.99014	.98849	.98663
4	.99258	.99195	.99103	.98984	.98839	.98672	.98485
5	.99098	.99032	.98938	.98817	.98670	.98501	.98311
6	.98946	.98877	.98780	.98656	.98507	.98335	.98142
7	.98801	.98729	.98627	.98500	.98347	.98172	.97975
8	.98660	.98584	.98478	.98346	.98189	.98009	.97808
9	.98524	.98442	.98331	.98193	.98031	.97846	.97641
10	.98393	.98304	.98187	.98043	.97875	.97685	.97475
11	.98267	.98171	.98047	.97897	.97723	.97527	.97312
12	.98145	.98041	.97910	.97753	.97573	.97371	.97150
13	.98026	.97914	.97775	.97611	.97424	.97216	.96989
14	.97911	.97790	.97643	.97472	.97278	.97063	.96829
15	.97800	.97669	.97514	.97334	.97133	.96911	.96670
16	.97692	.97552	.97387	.97199	.96990	.96760	.96512
17	.97583	.97433	.97259	.97062	.96844	.96607	.96352
18	.97473	.97313	.97129	.96923	.96697	.96452	.96189
19	.97363	.97191	.96997	.96782	.96547	.96294	.96023
20	.97252	.97068	.96864	.96639	.96395	.96134	.95856
21	.97139	.96944	.96729	.96495	.96242	.95973	.95687
22	.97024	.96818	.96592	.96348	.96087	.95809	.95516
23	.96907	.96689	.96453	.96199	.95929	.95643	.95343
24	.96787	.96558	.96312	.96048	.95769	.95476	.95168
25	.96665	.96424	.96168	.95895	.95607	.95306	.94991
26	.96539	.96287	.96020	.95738	.95442	.95133	.94810
27	.96406	.96144	.95867	.95576	.95272	.94955	.94625
28	.96268	.95996	.95710	.95410	.95098	.94774	.94438
29	.96125	.95844	.95548	.95241	.94922	.94590	.94248
30	.95977	.95686	.95382	.95067	.94741	.94403	.94055
31	.95823	.95524	.95212	.94890	.94557	.94214	.93860
32	.95665	.95357	.95038	.94709	.94370	.94021	.93662
33	.95502	.95186	.94860	.94525	.94180	.93825	.93461
34	.95334	.95011	.94679	.94337	.93986	.93626	.93257
35	.95162	.94832	.94494	.94146	.93790	.93425	.93051
36	.94986	.94650	.94306	.93952	.93591	.93221	.92843
37	.94805	.94464	.94114	.93756	.93390	.93016	.92634
38	.94620	.94273	.93919	.93556	.93186	.92808	.92422
39	.94431	.94079	.93720	.93353	.92979	.92597	.92208
40	.94238	.93882	.93518	.93148	.92770	.92385	.91992
41	.94042	.93682	.93314	.92940	.92558	.92170	.91774
42	.93842	.93478	.93107	.92729	.92344	.91952	.91554
43	.93639	.93271	.92897	.92516	.92128	.91733	.91332
44	.93433	.93062	.92685	.92301	.91910	.91513	.91108
45	.93226	.92852	.92472	.92085	.91692	.91291	.90884
46	.93017	.92640	.92257	.91868	.91472	.91069	.90660
47	.92806	.92426	.92041	.91649	.91250	.90845	.90434
48	.92593	.92211	.91823	.91429	.91028	.90621	.90207
49	.92379	.91995	.91604	.91208	.90805	.90396	.89979
50	.92162	.91776	.91384	.90985	.90580	.90168	.89750

TABLE XLIX—Continued

Per cent alcohol by weight	Temperature t						
	10° C	15° C	20° C	25° C	30° C	35° C	40° C
50	0.92162	0.91776	0.91384	0.90985	0.90580	0.90168	0.89750
51	.91943	.91555	.91160	.90760	.90353	.89940	.89519
52	.91723	.91333	.90936	.90534	.90125	.89710	.89288
53	.91502	.91110	.90711	.90307	.89896	.89479	.89056
54	.91279	.90885	.90485	.90079	.89667	.89248	.88823
55	.91055	.90659	.90258	.89850	.89437	.89016	.88589
56	.90831	.90433	.90031	.89621	.89206	.88784	.88356
57	.90607	.90207	.89803	.89392	.88975	.88552	.88122
58	.90381	.89980	.89574	.89162	.88744	.88319	.87888
59	.90154	.89752	.89344	.88931	.88512	.88085	.87650
60	.89927	.89523	.89113	.88699	.88278	.87851	.87417
61	.89698	.89293	.88882	.88466	.88044	.87615	.87180
62	.89468	.89062	.88650	.88233	.87809	.87379	.86943
63	.89237	.88830	.88417	.87998	.87574	.87142	.86705
64	.89006	.88597	.88183	.87763	.87337	.86905	.86466
65	.88774	.88364	.87948	.87527	.87100	.86667	.86227
66	.88541	.88130	.87713	.87291	.86863	.86429	.85987
67	.88308	.87895	.87477	.87054	.86625	.86190	.85747
68	.88074	.87660	.87241	.86817	.86387	.85950	.85507
69	.87839	.87424	.87004	.86579	.86148	.85710	.85266
70	.87602	.87187	.86766	.86340	.85908	.85470	.85025
71	.87365	.86949	.86527	.86100	.85667	.85228	.84783
72	.87127	.86710	.86287	.85859	.85426	.84986	.84540
73	.86888	.86470	.86047	.85618	.85184	.84743	.84297
74	.86648	.86229	.85806	.85376	.84941	.84500	.84053
75	.86408	.85988	.85564	.85134	.84698	.84257	.83809
76	.86168	.85747	.85322	.84891	.84455	.84013	.83564
77	.85927	.85505	.85079	.84647	.84211	.83768	.83319
78	.85685	.85262	.84835	.84403	.83966	.83523	.83074
79	.85442	.85018	.84590	.84158	.83720	.83277	.82827
80	.85197	.84772	.84344	.83911	.83473	.83029	.82578
81	.84950	.84525	.84096	.83664	.83224	.82780	.82329
82	.84702	.84277	.83848	.83415	.82974	.82530	.82079
83	.84453	.84028	.83599	.83164	.82724	.82279	.81828
84	.84203	.83777	.83348	.82913	.82473	.82027	.81576
85	.83951	.83525	.83095	.82660	.82220	.81774	.81322
86	.83697	.83271	.82840	.82405	.81965	.81519	.81067
87	.83441	.83014	.82583	.82148	.81708	.81262	.80811
88	.83181	.82754	.82323	.81888	.81448	.81003	.80552
89	.82919	.82492	.82062	.81626	.81186	.80742	.80291
90	.82654	.82227	.81797	.81362	.80922	.80478	.80028
91	.82386	.81959	.81529	.81094	.80655	.80211	.79761
92	.82114	.81688	.81257	.80823	.80384	.79941	.79491
93	.81839	.81413	.80983	.80549	.80111	.79669	.79220
94	.81561	.81134	.80705	.80272	.79835	.79393	.78947
95	.81278	.80852	.80424	.79991	.79555	.79114	.78670
96	.80991	.80566	.80138	.79706	.79271	.78831	.78388
97	.80698	.80274	.79846	.79415	.78981	.78542	.78100
98	.80399	.79975	.79547	.79117	.78684	.78247	.77806
99	.80094	.79670	.79243	.78814	.78382	.77946	.77507
100	.79784	.79360	.78934	.78506	.78075	.77641	.77203