

Table 1 Measured densities of aqueous glycerol solutions
(Bosart and Snoddy 1928)

Glycerol content w/w %	Density at					Glycerol content w/w %	Density at				
	15 °C	15.5 °C	20 °C	25 °C	30 °C		15 °C	15.5 °C	20 °C	25 °C	30 °C
0	0.99913	0.99905	0.99823	0.99708	0.99568						
1	1.00155	1.00145	1.00060	0.99945	0.99800	51	1.13150	1.13125	1.12905	1.12650	1.12380
2	1.00395	1.00385	1.00300	1.00180	1.00035	52	1.13425	1.13400	1.13180	1.12920	1.12650
3	1.00635	1.00630	1.00540	1.00415	1.00270	53	1.13705	1.13680	1.13455	1.13195	1.12925
4	1.00875	1.00870	1.00780	1.00655	1.00505	54	1.13980	1.13955	1.13730	1.13465	1.13195
5	1.01120	1.01110	1.01015	1.00890	1.00735	55	1.14260	1.14230	1.14005	1.13740	1.13470
6	1.01360	1.01350	1.01255	1.01125	1.00970	56	1.14535	1.14510	1.14280	1.14015	1.13740
7	1.01600	1.01590	1.01495	1.01360	1.01205	57	1.14815	1.14785	1.14555	1.14285	1.14010
8	1.01840	1.01835	1.01730	1.01600	1.01440	58	1.15095	1.15065	1.14830	1.14560	1.14285
9	1.02085	1.02075	1.01970	1.01835	1.01670	59	1.15370	1.15340	1.15105	1.14835	1.14555
10	1.02325	1.02315	1.02210	1.02070	1.01905	60	1.15650	1.15615	1.15380	1.15105	1.14830
11	1.02575	1.02565	1.02455	1.02315	1.02150	61	1.15925	1.15895	1.15655	1.15380	1.15100
12	1.02830	1.02820	1.02705	1.02560	1.02395	62	1.16200	1.16170	1.15930	1.15655	1.15375
13	1.03080	1.03070	1.02955	1.02805	1.02640	63	1.16480	1.16445	1.16205	1.15925	1.15650
14	1.03330	1.03320	1.03200	1.03055	1.02885	64	1.16755	1.16725	1.16475	1.16200	1.15925
15	1.03580	1.03570	1.03450	1.03300	1.03130	65	1.17030	1.17000	1.16750	1.16475	1.16195
16	1.03835	1.03825	1.03695	1.03545	1.03370	66	1.17305	1.17275	1.17025	1.16745	1.16470
17	1.04085	1.04075	1.03945	1.03790	1.03615	67	1.17585	1.17555	1.17300	1.17020	1.16745
18	1.04335	1.04325	1.04195	1.04035	1.03860	68	1.17860	1.17830	1.17575	1.17295	1.17020
19	1.04590	1.04575	1.04440	1.04280	1.04105	69	1.18135	1.18105	1.17850	1.17565	1.17290
20	1.04840	1.04825	1.04690	1.04525	1.04350	70	1.18415	1.18385	1.18125	1.17840	1.17565
21	1.05100	1.05090	1.04950	1.04780	1.04600	71	1.18690	1.18655	1.18395	1.18110	1.17830
22	1.05365	1.05350	1.05205	1.05035	1.04850	72	1.18965	1.18930	1.18670	1.18380	1.18100
23	1.05625	1.05610	1.05465	1.05290	1.05100	73	1.19235	1.19205	1.18940	1.18650	1.18365
24	1.05885	1.05870	1.05720	1.05545	1.05350	74	1.19510	1.19480	1.19215	1.18925	1.18635
25	1.06150	1.06130	1.05980	1.05800	1.05605	75	1.19785	1.19750	1.19485	1.19195	1.18900
26	1.06410	1.06390	1.06240	1.06055	1.05855	76	1.20060	1.20025	1.19760	1.19465	1.19170
27	1.06670	1.06655	1.06495	1.06305	1.06105	77	1.20335	1.20300	1.20030	1.19735	1.19435
28	1.06935	1.06915	1.06755	1.06560	1.06355	78	1.20610	1.20570	1.20305	1.20005	1.19705
29	1.07195	1.07175	1.07010	1.06815	1.06605	79	1.20885	1.20845	1.20575	1.20275	1.19970
30	1.07455	1.07435	1.07270	1.07070	1.06855	80	1.21160	1.21120	1.20850	1.20545	1.20240
31	1.07725	1.07705	1.07535	1.07335	1.07120	81	1.21425	1.21385	1.21115	1.20810	1.20505
32	1.07995	1.07975	1.07800	1.07600	1.07380	82	1.21690	1.21650	1.21380	1.21075	1.20770
33	1.08265	1.08245	1.08070	1.07860	1.07645	83	1.21955	1.21915	1.21650	1.21340	1.21035
34	1.08530	1.08515	1.08335	1.08125	1.07905	84	1.22220	1.22180	1.21915	1.21605	1.21300
35	1.08800	1.08780	1.08600	1.08390	1.08165	85	1.22485	1.22445	1.22180	1.21870	1.21565
36	1.09070	1.09050	1.08865	1.08655	1.08430	86	1.22750	1.22710	1.22445	1.22135	1.21830
37	1.09340	1.09320	1.09135	1.08915	1.08690	87	1.23015	1.22980	1.22710	1.22400	1.22095
38	1.09605	1.09590	1.09400	1.09180	1.08955	88	1.23280	1.23245	1.22975	1.22665	1.22360
39	1.09875	1.09860	1.09665	1.09445	1.09215	89	1.23545	1.23510	1.23245	1.22935	1.22625
40	1.10145	1.10130	1.09930	1.09710	1.09475	90	1.23810	1.23775	1.23510	1.23200	1.22890
41	1.10415	1.10400	1.10200	1.09975	1.09740	91	1.24075	1.24040	1.23770	1.23460	1.23150
42	1.10690	1.10670	1.10470	1.10240	1.10005	92	1.24340	1.24305	1.24035	1.23725	1.23410
43	1.10960	1.10945	1.10740	1.10510	1.10265	93	1.24600	1.24565	1.24300	1.23985	1.23670
44	1.11235	1.11215	1.11010	1.10775	1.10530	94	1.24865	1.24830	1.24560	1.24250	1.23930
45	1.11510	1.11490	1.11280	1.11040	1.10795	95	1.25130	1.25095	1.24825	1.24515	1.24190
46	1.11780	1.11760	1.11550	1.11310	1.11055	96	1.25385	1.25350	1.25080	1.24770	1.24450
47	1.12055	1.12030	1.11820	1.11575	1.11320	97	1.25645	1.25610	1.25335	1.25030	1.24710
48	1.12325	1.12305	1.12090	1.11840	1.11580	98	1.25900	1.25865	1.25590	1.25290	1.24975
49	1.12600	1.12575	1.12360	1.12110	1.11845	99	1.26160	1.26125	1.25850	1.25545	1.25235
50	1.12870	1.12845	1.12630	1.12375	1.12110	100	1.26415	1.26381	1.26108	1.25802	1.25495

Table 2 Calculated densities of aqueous glycerol solutions

Glycerol content w/w %	Density at					Glycerol content w/w %	Density at				
	15 °C	15.5 °C	20 °C	25 °C	30 °C		15 °C	15.5 °C	20 °C	25 °C	30 °C
0	0.99897	0.99889	0.99805	0.99689	0.99552						
1	1.00129	1.00121	1.00034	0.99916	0.99778	51	1.13129	1.13105	1.12883	1.12632	1.12378
2	1.00364	1.00356	1.00267	1.00147	1.00006	52	1.13404	1.13379	1.13155	1.12902	1.12646
3	1.00601	1.00592	1.00501	1.00379	1.00236	53	1.13679	1.13654	1.13428	1.13173	1.12914
4	1.00840	1.00831	1.00737	1.00612	1.00467	54	1.13955	1.13930	1.13701	1.13443	1.13183
5	1.01080	1.01070	1.00974	1.00846	1.00699	55	1.14230	1.14205	1.13974	1.13714	1.13451
6	1.01321	1.01311	1.01212	1.01082	1.00933	56	1.14506	1.14480	1.14247	1.13984	1.13720
7	1.01563	1.01553	1.01452	1.01319	1.01168	57	1.14781	1.14755	1.14520	1.14255	1.13989
8	1.01807	1.01797	1.01693	1.01558	1.01404	58	1.15057	1.15031	1.14793	1.14526	1.14258
9	1.02052	1.02041	1.01935	1.01797	1.01641	59	1.15333	1.15306	1.15066	1.14797	1.14527
10	1.02298	1.02287	1.02178	1.02038	1.01879	60	1.15608	1.15582	1.15339	1.15068	1.14796
11	1.02545	1.02534	1.02422	1.02279	1.02119	61	1.15884	1.15857	1.15613	1.15340	1.15066
12	1.02794	1.02782	1.02667	1.02522	1.02359	62	1.16160	1.16132	1.15886	1.15611	1.15335
13	1.03043	1.03031	1.02914	1.02766	1.02601	63	1.16435	1.16408	1.16159	1.15882	1.15605
14	1.03294	1.03281	1.03161	1.03011	1.02843	64	1.16711	1.16683	1.16433	1.16154	1.15874
15	1.03545	1.03532	1.03410	1.03256	1.03087	65	1.16986	1.16958	1.16706	1.16425	1.16144
16	1.03798	1.03785	1.03659	1.03503	1.03331	66	1.17261	1.17233	1.16979	1.16696	1.16414
17	1.04051	1.04038	1.03910	1.03751	1.03577	67	1.17536	1.17508	1.17252	1.16968	1.16683
18	1.04306	1.04292	1.04161	1.04000	1.03823	68	1.17811	1.17783	1.17525	1.17239	1.16953
19	1.04562	1.04548	1.04414	1.04250	1.04071	69	1.18086	1.18057	1.17798	1.17510	1.17223
20	1.04818	1.04804	1.04668	1.04501	1.04319	70	1.18361	1.18332	1.18071	1.17781	1.17493
21	1.05076	1.05061	1.04922	1.04752	1.04568	71	1.18635	1.18606	1.18343	1.18052	1.17762
22	1.05334	1.05319	1.05177	1.05005	1.04819	72	1.18909	1.18880	1.18616	1.18323	1.18032
23	1.05594	1.05578	1.05434	1.05258	1.05070	73	1.19183	1.19154	1.18888	1.18594	1.18301
24	1.05854	1.05838	1.05691	1.05513	1.05322	74	1.19457	1.19427	1.19160	1.18865	1.18571
25	1.06115	1.06099	1.05949	1.05768	1.05574	75	1.19730	1.19701	1.19432	1.19136	1.18840
26	1.06377	1.06361	1.06207	1.06024	1.05828	76	1.20004	1.19974	1.19704	1.19406	1.19110
27	1.06640	1.06623	1.06467	1.06281	1.06082	77	1.20277	1.20247	1.19976	1.19677	1.19379
28	1.06904	1.06887	1.06727	1.06538	1.06338	78	1.20550	1.20519	1.20248	1.19947	1.19648
29	1.07168	1.07151	1.06989	1.06797	1.06594	79	1.20822	1.20792	1.20519	1.20217	1.19917
30	1.07433	1.07415	1.07251	1.07056	1.06850	80	1.21094	1.21064	1.20790	1.20487	1.20186
31	1.07699	1.07681	1.07513	1.07316	1.07108	81	1.21366	1.21336	1.21061	1.20757	1.20455
32	1.07965	1.07947	1.07777	1.07576	1.07366	82	1.21638	1.21607	1.21332	1.21027	1.20724
33	1.08233	1.08214	1.08041	1.07838	1.07625	83	1.21909	1.21879	1.21602	1.21297	1.20993
34	1.08501	1.08482	1.08306	1.08100	1.07885	84	1.22181	1.22150	1.21872	1.21566	1.21262
35	1.08769	1.08750	1.08571	1.08362	1.08145	85	1.22451	1.22420	1.22142	1.21835	1.21530
36	1.09038	1.09019	1.08837	1.08626	1.08406	86	1.22722	1.22691	1.22412	1.22104	1.21799
37	1.09308	1.09288	1.09103	1.08889	1.08667	87	1.22992	1.22961	1.22682	1.22373	1.22067
38	1.09578	1.09558	1.09371	1.09154	1.08929	88	1.23261	1.23230	1.22951	1.22642	1.22335
39	1.09849	1.09828	1.09638	1.09419	1.09192	89	1.23531	1.23499	1.23220	1.22910	1.22603
40	1.10120	1.10099	1.09906	1.09684	1.09455	90	1.23799	1.23768	1.23488	1.23178	1.22870
41	1.10392	1.10371	1.10175	1.09950	1.09718	91	1.24068	1.24036	1.23756	1.23446	1.23137
42	1.10664	1.10642	1.10444	1.10217	1.09983	92	1.24335	1.24304	1.24023	1.23713	1.23404
43	1.10937	1.10915	1.10714	1.10484	1.10247	93	1.24602	1.24570	1.24290	1.23979	1.23670
44	1.11210	1.11187	1.10984	1.10751	1.10512	94	1.24867	1.24836	1.24555	1.24245	1.23936
45	1.11483	1.11460	1.11254	1.11019	1.10778	95	1.25132	1.25100	1.24820	1.24509	1.24200
46	1.11757	1.11734	1.11525	1.11287	1.11044	96	1.25394	1.25363	1.25083	1.24773	1.24464
47	1.12031	1.12007	1.11796	1.11555	1.11310	97	1.25654	1.25623	1.25343	1.25034	1.24725
48	1.12305	1.12281	1.12067	1.11824	1.11577	98	1.25910	1.25879	1.25600	1.25291	1.24983
49	1.12579	1.12556	1.12339	1.12093	1.11843	99	1.26160	1.26129	1.25851	1.25543	1.25235
50	1.12854	1.12830	1.12611	1.12363	1.12111	100	1.26382	1.26351	1.26076	1.25770	1.25464

Table 3 Calculated densities of aqueous glycerol solutions
15 – 19°C

Glycerol content w/w %	Density at					Glycerol content w/w %	Density at				
	15 °C	16 °C	17 °C	18 °C	19 °C		15 °C	16 °C	17 °C	18 °C	19 °C
0	998.97	998.80	998.63	998.44	998.25						
1	1001.29	1001.12	1000.94	1000.75	1000.55	51	1131.29	1130.80	1130.31	1129.82	1129.33
2	1003.64	1003.47	1003.28	1003.09	1002.88	52	1134.04	1133.55	1133.05	1132.56	1132.06
3	1006.01	1005.83	1005.64	1005.44	1005.23	53	1136.79	1136.30	1135.79	1135.29	1134.79
4	1008.40	1008.21	1008.01	1007.81	1007.59	54	1139.55	1139.04	1138.54	1138.03	1137.52
5	1010.80	1010.60	1010.40	1010.19	1009.97	55	1142.30	1141.79	1141.28	1140.77	1140.25
6	1013.21	1013.01	1012.80	1012.58	1012.36	56	1145.06	1144.54	1144.03	1143.51	1142.99
7	1015.63	1015.43	1015.21	1014.99	1014.76	57	1147.82	1147.29	1146.77	1146.25	1145.72
8	1018.07	1017.86	1017.64	1017.41	1017.17	58	1150.57	1150.05	1149.52	1148.99	1148.46
9	1020.52	1020.30	1020.08	1019.84	1019.60	59	1153.33	1152.80	1152.27	1151.73	1151.20
10	1022.98	1022.76	1022.53	1022.28	1022.04	60	1156.09	1155.55	1155.01	1154.47	1153.93
11	1025.45	1025.22	1024.99	1024.74	1024.48	61	1158.84	1158.30	1157.76	1157.22	1156.67
12	1027.94	1027.70	1027.46	1027.20	1026.94	62	1161.60	1161.05	1160.51	1159.96	1159.41
13	1030.43	1030.19	1029.94	1029.68	1029.41	63	1164.35	1163.80	1163.25	1162.70	1162.15
14	1032.94	1032.69	1032.43	1032.17	1031.89	64	1167.11	1166.55	1166.00	1165.44	1164.88
15	1035.45	1035.20	1034.93	1034.66	1034.38	65	1169.86	1169.30	1168.74	1168.18	1167.62
16	1037.98	1037.72	1037.45	1037.17	1036.89	66	1172.61	1172.05	1171.49	1170.92	1170.36
17	1040.51	1040.25	1039.97	1039.69	1039.40	67	1175.36	1174.80	1174.23	1173.66	1173.09
18	1043.06	1042.79	1042.50	1042.22	1041.92	68	1178.11	1177.54	1176.97	1176.40	1175.82
19	1045.62	1045.34	1045.05	1044.75	1044.45	69	1180.86	1180.28	1179.71	1179.13	1178.56
20	1048.18	1047.90	1047.60	1047.30	1046.99	70	1183.61	1183.03	1182.45	1181.87	1181.29
21	1050.76	1050.47	1050.16	1049.86	1049.54	71	1186.35	1185.77	1185.18	1184.60	1184.02
22	1053.34	1053.04	1052.74	1052.42	1052.10	72	1189.09	1188.51	1187.92	1187.33	1186.75
23	1055.94	1055.63	1055.32	1055.00	1054.67	73	1191.83	1191.24	1190.65	1190.06	1189.47
24	1058.54	1058.23	1057.91	1057.58	1057.25	74	1194.57	1193.98	1193.38	1192.79	1192.20
25	1061.15	1060.83	1060.50	1060.17	1059.83	75	1197.30	1196.71	1196.11	1195.52	1194.92
26	1063.77	1063.44	1063.11	1062.77	1062.43	76	1200.04	1199.44	1198.84	1198.24	1197.64
27	1066.40	1066.07	1065.73	1065.38	1065.03	77	1202.77	1202.17	1201.56	1200.96	1200.36
28	1069.04	1068.70	1068.35	1068.00	1067.64	78	1205.50	1204.89	1204.29	1203.68	1203.08
29	1071.68	1071.33	1070.98	1070.62	1070.26	79	1208.22	1207.61	1207.01	1206.40	1205.79
30	1074.33	1073.98	1073.62	1073.25	1072.88	80	1210.94	1210.33	1209.73	1209.12	1208.51
31	1076.99	1076.63	1076.26	1075.89	1075.52	81	1213.66	1213.05	1212.44	1211.83	1211.22
32	1079.66	1079.29	1078.92	1078.54	1078.15	82	1216.38	1215.77	1215.15	1214.54	1213.93
33	1082.33	1081.95	1081.57	1081.19	1080.80	83	1219.09	1218.48	1217.86	1217.25	1216.64
34	1085.01	1084.63	1084.24	1083.85	1083.46	84	1221.81	1221.19	1220.57	1219.96	1219.34
35	1087.69	1087.30	1086.91	1086.52	1086.11	85	1224.51	1223.89	1223.28	1222.66	1222.04
36	1090.38	1089.99	1089.59	1089.19	1088.78	86	1227.22	1226.60	1225.98	1225.36	1224.74
37	1093.08	1092.68	1092.27	1091.87	1091.45	87	1229.92	1229.30	1228.68	1228.06	1227.44
38	1095.78	1095.37	1094.96	1094.55	1094.13	88	1232.62	1231.99	1231.37	1230.75	1230.13
39	1098.49	1098.08	1097.66	1097.24	1096.81	89	1235.31	1234.68	1234.06	1233.44	1232.82
40	1101.20	1100.78	1100.36	1099.93	1099.50	90	1237.99	1237.37	1236.75	1236.12	1235.50
41	1103.92	1103.49	1103.06	1102.63	1102.19	91	1240.68	1240.05	1239.43	1238.80	1238.18
42	1106.64	1106.21	1105.77	1105.33	1104.89	92	1243.35	1242.73	1242.10	1241.48	1240.85
43	1109.37	1108.93	1108.49	1108.04	1107.59	93	1246.02	1245.39	1244.77	1244.14	1243.52
44	1112.10	1111.65	1111.20	1110.75	1110.30	94	1248.67	1248.05	1247.42	1246.80	1246.18
45	1114.83	1114.38	1113.92	1113.47	1113.01	95	1251.32	1250.69	1250.07	1249.45	1248.82
46	1117.57	1117.11	1116.65	1116.18	1115.72	96	1253.94	1253.32	1252.70	1252.07	1251.45
47	1120.31	1119.84	1119.38	1118.91	1118.43	97	1256.54	1255.92	1255.30	1254.68	1254.06
48	1123.05	1122.58	1122.11	1121.63	1121.15	98	1259.11	1258.48	1257.86	1257.24	1256.62
49	1125.79	1125.32	1124.84	1124.36	1123.88	99	1261.60	1260.98	1260.36	1259.74	1259.13
50	1128.54	1128.06	1127.57	1127.09	1126.60	100	1263.82	1263.21	1262.60	1261.98	1261.37

Table 4 Calculated densities of aqueous glycerol solutions
20 – 24 °C

Glycerol content w/w %	Density at					Glycerol content w/w %	Density at				
	20 °C	21 °C	22 °C	23 °C	24 °C		20 °C	21 °C	22 °C	23 °C	24 °C
0	998.05	997.83	997.61	997.38	997.14						
1	1000.34	1000.13	999.90	999.66	999.42	51	1128.83	1128.33	1127.83	1127.33	1126.83
2	1002.67	1002.45	1002.21	1001.97	1001.72	52	1131.55	1131.05	1130.55	1130.04	1129.53
3	1005.01	1004.78	1004.55	1004.30	1004.05	53	1134.28	1133.77	1133.26	1132.75	1132.24
4	1007.37	1007.14	1006.89	1006.64	1006.39	54	1137.01	1136.49	1135.98	1135.46	1134.95
5	1009.74	1009.50	1009.25	1009.00	1008.74	55	1139.74	1139.22	1138.70	1138.18	1137.66
6	1012.12	1011.88	1011.63	1011.37	1011.10	56	1142.47	1141.94	1141.42	1140.90	1140.37
7	1014.52	1014.27	1014.01	1013.75	1013.48	57	1145.20	1144.67	1144.14	1143.61	1143.08
8	1016.93	1016.67	1016.41	1016.14	1015.86	58	1147.93	1147.40	1146.86	1146.33	1145.80
9	1019.35	1019.09	1018.82	1018.54	1018.26	59	1150.66	1150.13	1149.59	1149.05	1148.51
10	1021.78	1021.51	1021.24	1020.96	1020.67	60	1153.39	1152.85	1152.31	1151.77	1151.23
11	1024.22	1023.95	1023.67	1023.39	1023.09	61	1156.13	1155.58	1155.04	1154.49	1153.94
12	1026.67	1026.40	1026.11	1025.82	1025.53	62	1158.86	1158.31	1157.76	1157.21	1156.66
13	1029.14	1028.86	1028.57	1028.27	1027.97	63	1161.59	1161.04	1160.49	1159.93	1159.38
14	1031.61	1031.33	1031.03	1030.73	1030.42	64	1164.33	1163.77	1163.21	1162.65	1162.09
15	1034.10	1033.81	1033.51	1033.20	1032.89	65	1167.06	1166.50	1165.94	1165.37	1164.81
16	1036.59	1036.30	1035.99	1035.68	1035.36	66	1169.79	1169.23	1168.66	1168.09	1167.53
17	1039.10	1038.80	1038.48	1038.17	1037.84	67	1172.52	1171.95	1171.38	1170.81	1170.24
18	1041.62	1041.31	1040.99	1040.67	1040.34	68	1175.25	1174.68	1174.11	1173.53	1172.96
19	1044.14	1043.82	1043.50	1043.17	1042.84	69	1177.98	1177.40	1176.83	1176.25	1175.68
20	1046.68	1046.35	1046.03	1045.69	1045.35	70	1180.71	1180.13	1179.55	1178.97	1178.39
21	1049.22	1048.89	1048.56	1048.22	1047.87	71	1183.43	1182.85	1182.27	1181.69	1181.10
22	1051.77	1051.44	1051.10	1050.76	1050.41	72	1186.16	1185.57	1184.99	1184.40	1183.82
23	1054.34	1054.00	1053.65	1053.30	1052.95	73	1188.88	1188.29	1187.70	1187.12	1186.53
24	1056.91	1056.56	1056.21	1055.86	1055.49	74	1191.60	1191.01	1190.42	1189.83	1189.24
25	1059.49	1059.14	1058.78	1058.42	1058.05	75	1194.33	1193.73	1193.14	1192.54	1191.95
26	1062.07	1061.72	1061.36	1060.99	1060.62	76	1197.04	1196.45	1195.85	1195.25	1194.66
27	1064.67	1064.31	1063.94	1063.57	1063.19	77	1199.76	1199.16	1198.56	1197.96	1197.36
28	1067.28	1066.91	1066.53	1066.16	1065.77	78	1202.48	1201.87	1201.27	1200.67	1200.07
29	1069.89	1069.51	1069.13	1068.75	1068.36	79	1205.19	1204.58	1203.98	1203.38	1202.77
30	1072.51	1072.13	1071.74	1071.35	1070.96	80	1207.90	1207.29	1206.69	1206.08	1205.48
31	1075.13	1074.75	1074.36	1073.96	1073.56	81	1210.61	1210.00	1209.39	1208.78	1208.18
32	1077.77	1077.38	1076.98	1076.58	1076.17	82	1213.32	1212.71	1212.10	1211.49	1210.88
33	1080.41	1080.01	1079.61	1079.20	1078.79	83	1216.02	1215.41	1214.80	1214.19	1213.58
34	1083.06	1082.65	1082.24	1081.83	1081.42	84	1218.72	1218.11	1217.50	1216.88	1216.27
35	1085.71	1085.30	1084.89	1084.47	1084.05	85	1221.42	1220.81	1220.19	1219.58	1218.97
36	1088.37	1087.95	1087.54	1087.11	1086.69	86	1224.12	1223.50	1222.89	1222.27	1221.66
37	1091.03	1090.61	1090.19	1089.76	1089.33	87	1226.82	1226.20	1225.58	1224.96	1224.35
38	1093.71	1093.28	1092.85	1092.42	1091.98	88	1229.51	1228.89	1228.27	1227.65	1227.03
39	1096.38	1095.95	1095.51	1095.08	1094.63	89	1232.20	1231.58	1230.96	1230.34	1229.72
40	1099.06	1098.63	1098.19	1097.74	1097.29	90	1234.88	1234.26	1233.64	1233.02	1232.40
41	1101.75	1101.31	1100.86	1100.41	1099.96	91	1237.56	1236.94	1236.32	1235.70	1235.08
42	1104.44	1103.99	1103.54	1103.09	1102.63	92	1240.23	1239.61	1238.99	1238.37	1237.75
43	1107.14	1106.68	1106.23	1105.76	1105.30	93	1242.90	1242.28	1241.65	1241.03	1240.41
44	1109.84	1109.38	1108.91	1108.45	1107.98	94	1245.55	1244.93	1244.31	1243.69	1243.07
45	1112.54	1112.08	1111.61	1111.14	1110.66	95	1248.20	1247.58	1246.96	1246.34	1245.71
46	1115.25	1114.78	1114.30	1113.83	1113.35	96	1250.83	1250.21	1249.59	1248.97	1248.35
47	1117.96	1117.48	1117.00	1116.52	1116.04	97	1253.43	1252.81	1252.19	1251.57	1250.96
48	1120.67	1120.19	1119.71	1119.22	1118.73	98	1256.01	1255.39	1254.77	1254.15	1253.53
49	1123.39	1122.90	1122.41	1121.92	1121.43	99	1258.51	1257.89	1257.28	1256.66	1256.04
50	1126.11	1125.62	1125.12	1124.63	1124.13	100	1260.76	1260.15	1259.54	1258.92	1258.31

Table 5 Calculated densities of aqueous glycerol solutions
25 – 29 °C

Glycerol content w/w %	Density at					Glycerol content w/w %	Density at				
	25 °C	26 °C	27 °C	28 °C	29 °C		25 °C	26 °C	27 °C	28 °C	29 °C
0	996.89	996.63	996.37	996.09	995.81						
1	999.17	998.90	998.63	998.36	998.07	51	1126.32	1125.82	1125.31	1124.80	1124.29
2	1001.47	1001.20	1000.93	1000.65	1000.36	52	1129.02	1128.51	1128.00	1127.49	1126.98
3	1003.79	1003.52	1003.24	1002.95	1002.66	53	1131.73	1131.21	1130.70	1130.18	1129.66
4	1006.12	1005.84	1005.56	1005.27	1004.97	54	1134.43	1133.91	1133.39	1132.87	1132.35
5	1008.47	1008.19	1007.90	1007.60	1007.30	55	1137.14	1136.61	1136.09	1135.56	1135.04
6	1010.82	1010.54	1010.25	1009.95	1009.64	56	1139.84	1139.32	1138.79	1138.26	1137.73
7	1013.19	1012.91	1012.61	1012.31	1012.00	57	1142.55	1142.02	1141.49	1140.96	1140.42
8	1015.58	1015.28	1014.98	1014.68	1014.36	58	1145.26	1144.73	1144.19	1143.65	1143.12
9	1017.97	1017.67	1017.37	1017.06	1016.74	59	1147.97	1147.43	1146.89	1146.35	1145.81
10	1020.38	1020.07	1019.76	1019.45	1019.12	60	1150.68	1150.14	1149.60	1149.05	1148.51
11	1022.79	1022.49	1022.17	1021.85	1021.52	61	1153.40	1152.85	1152.30	1151.75	1151.21
12	1025.22	1024.91	1024.59	1024.26	1023.93	62	1156.11	1155.56	1155.01	1154.46	1153.90
13	1027.66	1027.34	1027.02	1026.69	1026.35	63	1158.82	1158.27	1157.71	1157.16	1156.60
14	1030.11	1029.78	1029.46	1029.12	1028.78	64	1161.54	1160.98	1160.42	1159.86	1159.30
15	1032.56	1032.24	1031.90	1031.57	1031.22	65	1164.25	1163.69	1163.13	1162.56	1162.00
16	1035.03	1034.70	1034.36	1034.02	1033.67	66	1166.96	1166.40	1165.83	1165.27	1164.70
17	1037.51	1037.18	1036.83	1036.48	1036.13	67	1169.68	1169.11	1168.54	1167.97	1167.40
18	1040.00	1039.66	1039.31	1038.96	1038.60	68	1172.39	1171.82	1171.24	1170.67	1170.10
19	1042.50	1042.15	1041.80	1041.44	1041.08	69	1175.10	1174.53	1173.95	1173.38	1172.80
20	1045.01	1044.65	1044.30	1043.93	1043.57	70	1177.81	1177.23	1176.66	1176.08	1175.50
21	1047.52	1047.17	1046.80	1046.44	1046.06	71	1180.52	1179.94	1179.36	1178.78	1178.20
22	1050.05	1049.69	1049.32	1048.95	1048.57	72	1183.23	1182.65	1182.06	1181.48	1180.90
23	1052.58	1052.22	1051.84	1051.47	1051.08	73	1185.94	1185.35	1184.77	1184.18	1183.60
24	1055.13	1054.75	1054.38	1054.00	1053.61	74	1188.65	1188.06	1187.47	1186.88	1186.30
25	1057.68	1057.30	1056.92	1056.53	1056.14	75	1191.36	1190.76	1190.17	1189.58	1188.99
26	1060.24	1059.86	1059.47	1059.08	1058.68	76	1194.06	1193.47	1192.87	1192.28	1191.69
27	1062.81	1062.42	1062.03	1061.63	1061.23	77	1196.77	1196.17	1195.57	1194.98	1194.38
28	1065.38	1064.99	1064.59	1064.19	1063.79	78	1199.47	1198.87	1198.27	1197.68	1197.08
29	1067.97	1067.57	1067.17	1066.76	1066.35	79	1202.17	1201.57	1200.97	1200.37	1199.77
30	1070.56	1070.16	1069.75	1069.34	1068.92	80	1204.87	1204.27	1203.67	1203.07	1202.46
31	1073.16	1072.75	1072.34	1071.92	1071.50	81	1207.57	1206.97	1206.36	1205.76	1205.16
32	1075.77	1075.35	1074.94	1074.51	1074.09	82	1210.27	1209.66	1209.06	1208.45	1207.85
33	1078.38	1077.96	1077.54	1077.11	1076.68	83	1212.97	1212.36	1211.75	1211.14	1210.54
34	1081.00	1080.57	1080.15	1079.72	1079.28	84	1215.66	1215.05	1214.44	1213.83	1213.22
35	1083.62	1083.20	1082.76	1082.33	1081.89	85	1218.35	1217.74	1217.13	1216.52	1215.91
36	1086.26	1085.82	1085.39	1084.95	1084.50	86	1221.04	1220.43	1219.82	1219.21	1218.60
37	1088.89	1088.46	1088.01	1087.57	1087.12	87	1223.73	1223.12	1222.50	1221.89	1221.28
38	1091.54	1091.09	1090.65	1090.20	1089.75	88	1226.42	1225.80	1225.19	1224.57	1223.96
39	1094.19	1093.74	1093.29	1092.83	1092.38	89	1229.10	1228.48	1227.87	1227.25	1226.64
40	1096.84	1096.39	1095.93	1095.47	1095.01	90	1231.78	1231.16	1230.55	1229.93	1229.32
41	1099.50	1099.04	1098.58	1098.12	1097.65	91	1234.46	1233.84	1233.22	1232.61	1231.99
42	1102.17	1101.70	1101.24	1100.77	1100.30	92	1237.13	1236.51	1235.89	1235.27	1234.66
43	1104.84	1104.37	1103.90	1103.42	1102.95	93	1239.79	1239.17	1238.56	1237.94	1237.32
44	1107.51	1107.04	1106.56	1106.08	1105.60	94	1242.45	1241.83	1241.21	1240.59	1239.98
45	1110.19	1109.71	1109.23	1108.75	1108.26	95	1245.10	1244.48	1243.86	1243.24	1242.62
46	1112.87	1112.39	1111.90	1111.41	1110.93	96	1247.73	1247.11	1246.49	1245.87	1245.25
47	1115.55	1115.07	1114.58	1114.09	1113.59	97	1250.34	1249.72	1249.10	1248.48	1247.87
48	1118.24	1117.75	1117.26	1116.76	1116.26	98	1252.91	1252.30	1251.68	1251.06	1250.44
49	1120.93	1120.44	1119.94	1119.44	1118.94	99	1255.43	1254.81	1254.19	1253.58	1252.96
50	1123.63	1123.13	1122.62	1122.12	1121.61	100	1257.70	1257.09	1256.48	1255.86	1255.25