

Table 3.2 Density and refractive indexes of sucrose

Density (g/cm ³)	Refractive index	% by weight (w/v)	Molarity
0.9982	1.3330	0	
1.0021	1.3344	1	0.029
1.0060	1.3359	2	0.059
1.0099	1.3374	3	0.089
1.0139	1.3388	4	0.119
1.0179	1.3403	5	0.149
1.0219	1.3418	6	0.179
1.0259	1.3433	7	0.210
1.0299	1.3488	8	0.211
1.0340	1.3464	9	0.272
1.0381	1.3479	10	0.303
1.0423	1.3494	11	0.335
1.0465	1.3510	12	0.367
1.0507	1.3526	13	0.399
1.0549	1.3541	14	0.431
1.0592	1.3557	15	0.464
1.0635	1.3573	16	0.497
1.0678	1.3590	17	0.530
1.0721	1.3606	18	0.564
1.0765	1.3622	19	0.597
1.0810	1.3639	20	0.632
1.0854	1.3655	21	0.666
1.0899	1.3672	22	0.701
1.0944	1.3689	23	0.735
1.0990	1.3706	24	0.771
1.1036	1.3723	25	0.806
1.1082	1.3740	26	0.842
1.1128	1.3758	27	0.878
1.1175	1.3775	28	0.914
1.1222	1.3793	29	0.951
1.1270	1.3811	30	0.988
1.1318	1.3829	31	1.025
1.1366	1.3847	32	1.063
1.1415	1.3865	33	1.100
1.1463	1.3883	34	1.138
1.1513	1.3902	35	1.177
1.1562	1.3920	36	1.216
1.1612	1.3939	37	1.255
1.1663	1.3958	38	1.295

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1.1713	1.3978	39	1.334
1.1764	1.3997	40	1.375
1.1816	1.4016	41	1.415
1.1868	1.4036	42	1.456
1.1920	1.4056	43	1.498
1.1972	1.4076	44	1.539
1.2025	1.4096	45	1.581
1.2296	1.4200	50	1.796
1.2575	1.4307	55	2.020
1.2865	1.4418	60	2.255
1.3163	1.4532	65	2.500



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*Dr. William H. Heidcamp, Biology Department, Gustavus Adolphus College,
St. Peter, MN 56082 -- cellab@gac.edu*