

Correction

In the article, "Some Electrolyte Solution Refractive Indices at 5893 and 6528Å," by R. N. O'Brien [*J. Chem. Eng. Data*, **13** (1), 2 (1968)], the values for the HeNe laser wavelength 632.8 nm have been found to be in error by +0.00189. These values appear in Table I for water. In Tables V and VI, constant errors ranging from +0.00189 to 0.00070 were found with +0.00130 and 0.00110 being the most common.

The amount to be subtracted from the published values was found by interpolating between Tilton and Taylor's

values (1) for 630.0 and 635.0 nm and calibrating the instrument with an A.P.I. sample of toluene.

The corrected tables are shown below. Some disorder in the listings of concentrations has also been corrected.

Literature Cited

- (1) Tilton, L. W., Taylor, J. K., *J. Res. Nat. Bur. Stand.*, **20**, 419 (1938).

Table I. Refractive Index of Pure Water^a at Various Temperatures

Temp, °C	Refractive index		
	5893Å	5893Å (1)	6328Å
0	1.33377		
5	1.33371		
10	1.33364		1.33223
15	1.33346	1.33339	1.33204
20	1.33294	1.33299	1.33178
25	1.33248	1.33250	1.33126
30	1.33183	1.33194	1.33070
35			1.33010
40			1.32941
45			1.32871
50			1.32804

^a Distilled four times.

Table V. Refractive Indices of Some Common Electrolyte Solutions at 25°C and 6328Å

Concn, M	Refractive index		
	NaCl	KCl	CaCl ₂
1	1.34130	1.34083	1.35594
0.5	1.33628	1.33616	1.34383
0.2	1.33313	1.33326	1.33610
0.1	1.33216	1.33229	1.33365
0.05	1.33172	1.33170	1.33236
0.03	1.33151	1.33151	1.33178
0.02	1.33140	1.33132	1.33152
0.01	1.33126	1.33126	1.33126

Table VI. Refractive Indices of Various Salt Solutions at 25°C and 6328Å

Concn, N	Refractive index	Concn, N	Refractive index	Concn, N	Refractive index	Concn, N	Refractive index
Cupric nitrate		Zinc perchlorate		Ferrous perchlorate		Ferric chloride	
1.1670	1.34772	0.7669	1.34030	0.8722	1.34003	0.0276	1.33215
1.0545	1.34603	0.7584	1.34260	0.5815	1.33720	0.7198	1.34973
0.9331	1.34446	0.5750	1.33812	0.4361	1.33603	0.6405	1.34813
0.8192	1.34267	0.4792	1.33702	0.2567	1.33455	0.5180	1.34513
0.7124	1.34145	0.3833	1.33586	0.1253	1.33255	0.4364	1.34296
0.4672	1.33787	0.2875	1.33476	0.0581	1.33205	0.4146	1.33777
0.2543	1.33464	0.1916	1.33367			0.2904	1.33918
0.1171	1.33284	0.0950	1.33250	Ferric nitrate		0.2764	1.33570
0.0919	1.33257	0.0383	1.33183			0.2007	1.33687
0.0737	1.33225			3.0161	1.35183	0.1492	1.33538
0.0439	1.33187	Silver nitrate		2.6951	1.35018	0.1387	1.33358
0.0224	1.33155			2.4116	1.34881	0.0660	1.33309
		1.0728	1.34993	2.0907	1.34558	0.0553	1.33241
Cupric perchlorate		0.8593	1.34544	1.4537	1.34149	0.0285	1.33170
		0.6722	1.34295	1.8265	1.34392		
0.8920	1.34356	0.4234	1.33866	0.8891	1.33764	Ferrous sulfate	
0.7136	1.34113	0.2218	1.33512	0.6020	1.33560		
0.5352	1.33870	0.1034	1.33333	0.3004	1.33351	0.9271	1.35195
0.4460	1.33754	0.0897	1.33305	0.1230	1.33215	0.7417	1.34780
0.3568	1.33632	0.0630	1.33254			0.3708	1.33994
0.2676	1.33505	0.0408	1.33206	Ferric chloride		0.2781	1.33789
0.1784	1.33376	0.0257	1.33113			0.1854	1.33570
0.0713	1.33225			1.3822	1.35151	0.1112	1.35402
0.0357	1.33180	Ferrous perchlorate		1.1057	1.34762	0.0742	1.33299
0.0176	1.33150			0.8293	1.34366	0.0371	1.33231
		1.4537	1.34521	0.5528	1.33969		
		1.1630	1.34259				