



Specific Gravity & Weights of Sulfuric Acid

Percent sulfuric acid H ₂ SO ₄	Degrees Baumé	Specific Gravity @ 60°F	Weight of 1 US gal (lbs)	Weight of 1 Liter (kg)	Percent sulfuric acid H ₂ SO ₄	Degrees Baumé	Specific Gravity @ 60°F	Weight of 1 US gal (lbs)	Weight of 1 Liter (kg)
0.00	0.00	1.0000	8.3373	0.999	49.47	41.00	1.39420	11.6230	1.393
1.02	1.00	1.0069	8.395	1.006	50.87	42.00	1.40780	11.7370	1.406
2.08	2.00	1.0140	8.454	1.013	52.26	43.00	1.42160	11.8520	1.420
3.13	3.00	1.0211	8.513	1.020	23.66	44.00	1.43560	11.9690	1.434
4.21	4.00	1.0284	8.574	1.027	55.07	45.00	1.45000	12.0890	1.448
5.28	5.00	1.0357	8.635	1.035	56.48	46.00	1.46460	12.2100	1.463
6.37	6.00	1.0432	8.697	1.042	57.90	47.00	1.47960	12.3350	1.478
7.45	7.00	1.0507	8.760	1.050	59.32	48.00	1.49480	12.4620	1.493
8.55	8.00	1.0584	8.824	1.057	60.75	49.00	1.51040	12.5920	1.509
9.66	9.00	1.0662	8.889	1.065	62.18	50.00	1.52630	12.7250	1.525
10.77	10.00	1.0741	8.955	1.073	63.66	51.00	1.54260	12.8610	1.541
11.89	11.00	1.0821	9.021	1.081	65.13	52.00	1.55910	12.9980	1.557
13.01	12.00	1.0902	9.089	1.089	66.63	53.00	1.57610	13.1400	1.574
14.13	13.00	1.0985	9.158	1.097	68.13	54.00	1.59340	13.2840	1.592
15.25	14.00	1.1069	9.228	1.106	69.65	55.00	1.61110	13.4320	1.609
16.38	15.00	1.1154	9.299	1.114	71.17	56.00	1.62920	13.5830	1.627
17.53	16.00	1.1240	9.371	1.123	72.75	57.00	1.64770	13.7370	1.646
18.71	17.00	1.1328	9.444	1.131	74.36	58.00	1.66670	13.8950	1.665
19.89	18.00	1.1417	9.518	1.140	75.99	59.00	1.68600	14.0560	1.684
21.07	19.00	1.1508	9.594	1.149	77.67	60.00	1.70590	14.2220	1.704
22.25	20.00	1.1600	9.671	1.159	79.43	61.00	1.72620	14.3910	1.724
23.43	21.00	1.1694	9.750	1.168	81.30	62.00	1.74700	14.5650	1.745
24.61	22.00	1.1789	9.828	1.177	83.34	63.00	1.76830	14.7420	1.766
25.81	23.00	1.1885	9.909	1.187	85.66	64.00	1.79010	14.9240	1.788
27.30	24.00	1.1983	9.990	1.197	86.33	64.25	1.79570	14.9710	1.794
28.28	25.00	1.2083	10.074	1.207	87.04	64.50	1.80120	15.0170	1.799
29.53	26.00	1.2185	10.159	1.217	87.81	64.75	1.80680	15.0630	1.805
30.79	27.00	1.2289	10.246	1.228	88.65	65.00	1.81250	15.1110	1.810
32.05	28.00	1.2393	10.332	1.238	89.59	65.25	1.81820	15.1580	1.816
33.33	29.00	1.2500	10.421	1.249	90.60	65.50	1.82390	15.2060	1.822
34.63	30.00	1.2609	10.512	1.259	91.80	65.75	1.82970	15.2540	1.828
35.93	31.00	1.2719	10.604	1.270	93.19	66.00	1.83540	15.3020	1.833
37.26	32.00	1.2832	10.698	1.282	93.77		1.83730	15.3180	1.835
38.58	33.00	1.2946	10.793	1.293	94.00		1.83810	15.3240	1.836
39.92	34.00	1.3062	10.891	1.305	95.00		1.84070	15.3460	1.839
41.27	35.00	1.3182	10.990	1.317	96.00		1.84270	15.3630	1.841
42.63	36.00	1.3303	11.091	1.329	97.00		1.84370	15.3710	1.842
43.99	37.00	1.3426	11.193	1.341	98.00		1.84370	15.3710	1.842
45.35	38.00	1.3551	11.297	1.353	99.00		1.84240	15.3600	1.840
46.72	39.00	1.3679	11.404	1.366	100.00		1.83910	15.3330	1.837
48.10	40.00	1.3810	11.513	1.379					



**Temperature Corrections to Specific Gravity & ° Baumé
for Sulfuric Acid**

Acid strength as measured			Correction (per deg F)		Correction (per deg C)	
%	° Baumé	Specific Gravity	Specific Gravity	° Baumé	Specific Gravity	° Baumé
10.77	10	1.0741	0.00023	0.0290	0.00041	0.0520
22.25	20	1.16	0.00034	0.0360	0.00061	0.0650
34.63	30	1.2609	0.00039	0.0350	0.00070	0.0630
48.1	40	1.381	0.00041	0.0310	0.00074	0.0560
62.18	50	1.5263	0.00045	0.0280	0.00081	0.0540
77.67	60	1.7059	0.00053	0.0260	0.00095	0.0470
83.34	63	1.7683	0.00057	0.0260	0.00103	0.0470
93.19	66	1.8354	0.00054	0.0235	0.00097	0.0420
94		1.8381	0.00054		0.00097	
96		1.8427	0.00053		0.00095	
98		1.8437	0.00052		0.00094	
100		1.8391	0.00052		0.00094	

To calculate the actual Specific Gravity or ° Baumé for temperatures other than 60°F/15.6 °C
 Subtract correction factor for each deg above 60°F/15.6 °C
 Add correction factor for each deg below 60°F/15.6 °C