



Specific Gravities/ Weights/ Freezing points: Sulfuric Acid

* Values determined at a temperature of 60 degrees F / 15.6 degrees C

* For corrections to these values for other temperatures, see table 2

% H ₂ SO ₄	Degrees Baumé	Specific Gravity	Weight lb/US gal	Weight kg/l	Freezing Point		% H ₂ SO ₄	Degrees Baumé	Specific Gravity	Weight lb/US gal	Weight kg/l	Freezing Point	
					deg C	deg F						deg C	deg F
0.00	0.00	1.0000	8.338	1.0006	0.0	32.0	59.32	48.00	1.4948	12.449	1.4939	-28.8	-19.9
1.02	1.00	1.0069	8.395	1.0074	-0.3	31.4	60.75	49.00	1.5104	12.579	1.5095	-29.9	-21.8
2.08	2.00	1.0140	8.455	1.0146	-0.7	30.7	62.18	50.00	1.5263	12.711	1.5253	-31.7	-25.0
3.13	3.00	1.0211	8.515	1.0218	-1.2	29.8	63.66	51.00	1.5426	12.847	1.5416	-33.1	-27.5
4.21	4.00	1.0284	8.575	1.0290	-1.7	28.9	65.00	51.91	1.5577	12.988	1.5585	-36.8	-34.2
5.28	5.00	1.0357	8.636	1.0363	-2.2	28.0	66.00	52.58	1.5690	13.082	1.5698	-37.1	-34.8
6.37	6.00	1.0432	8.697	1.0436	-2.7	27.1	67.00	53.24	1.5803	13.176	1.5811	-37.7	-35.9
7.45	7.00	1.0507	8.734	1.0481	-3.3	26.1	68.00	53.91	1.5919	13.273	1.5927	-38.6	-37.4
8.55	8.00	1.0584	8.825	1.0590	-3.9	24.9	69.00	54.57	1.6035	13.370	1.6044	-41.2	-42.2
9.66	9.00	1.0662	8.890	1.0668	-4.4	24.0	70.00	55.23	1.6153	13.468	1.6161	-42.1	-43.8
10.77	10.00	1.0741	8.956	1.0747	-5.2	22.7	71.00	55.88	1.6271	13.566	1.6279	-40.7	-41.2
11.89	11.00	1.0821	9.023	1.0828	-6.0	21.2	72.00	56.53	1.6389	13.665	1.6398	-39.9	-39.8
13.01	12.00	1.0902	9.091	1.0909	-6.8	19.7	73.00	57.15	1.6506	13.762	1.6514	-39.5	-39.1
14.13	13.00	1.0985	9.159	1.0991	-7.7	18.1	74.00	57.77	1.6623	13.860	1.6632	-37.2	-35.0
15.25	14.00	1.1069	9.230	1.1076	-8.7	16.3	75.00	58.40	1.6743	13.960	1.6752	-28.9	-20.0
16.38	15.00	1.1154	9.300	1.1160	-9.7	14.6	76.00	59.00	1.6861	14.058	1.6869	-21.9	-7.5
17.53	16.00	1.1240	9.372	1.1246	-11.0	12.2	77.00	59.60	1.6979	14.157	1.6988	-15.4	4.3
18.71	17.00	1.1328	9.445	1.1334	-12.2	10.0	78.00	60.18	1.7096	14.254	1.7105	-9.6	14.8
19.89	18.00	1.1417	9.520	1.1424	-13.7	7.3	79.00	60.76	1.7211	14.350	1.7220	-4.4	24.1
21.07	19.00	1.1508	9.596	1.1515	-15.2	4.7	80.00	61.31	1.7325	14.445	1.7334	-1.3	29.7
22.25	20.00	1.1600	9.661	1.1593	-16.8	1.8	81.00	61.84	1.7436	14.538	1.7445	2.8	37.0
23.43	21.00	1.1694	9.739	1.1687	-18.8	-1.8	82.00	62.34	1.7542	14.626	1.7551	5.3	41.6
24.61	22.00	1.1789	9.818	1.1782	-21.2	-6.2	83.00	62.83	1.7647	14.714	1.7657	7.6	45.6
25.81	23.00	1.1885	9.898	1.1878	-23.8	-10.9	84.00	63.29	1.7745	14.795	1.7754	8.6	47.4
27.03	24.00	1.1983	9.980	1.1976	-26.3	-15.4	85.00	63.72	1.7839	14.874	1.7849	8.1	46.6
28.28	25.00	1.2083	10.063	1.2076	-29.4	-20.9	86.00	64.14	1.7932	14.951	1.7941	6.8	44.3
29.53	26.00	1.2185	10.148	1.2178	-33.4	-28.2	87.00	64.49	1.8010	15.016	1.8019	4.9	40.8
30.79	27.00	1.2288	10.234	1.2281	-37.4	-35.3	88.00	64.79	1.8077	15.072	1.8086	2.1	35.7
32.05	28.00	1.2393	10.321	1.2385	-42.6	-44.7	89.00	65.11	1.8149	15.132	1.8158	-1.2	29.8
33.33	29.00	1.2500	10.410	1.2492	-47.8	-54.0	90.00	65.36	1.8206	15.180	1.8216	-5.3	22.5
34.63	30.00	1.2609	10.501	1.2601	-54.8	-66.6	91.00	65.59	1.8259	15.224	1.8269	-11.2	11.9
35.93	31.00	1.2719	10.593	1.2712	-61.7	-79.1	92.00	65.79	1.8305	15.262	1.8314	-17.9	-0.3
37.26	32.00	1.2832	10.687	1.2824	-59.1	-74.3	93.00	65.97	1.8347	15.297	1.8356	-27.0	-16.6
38.58	33.00	1.2946	10.782	1.2938	-57.1	-70.8	93.19	66.00	1.8354	15.303	1.8363	-28.9	-20.0
39.92	34.00	1.3063	10.879	1.3055	-55.2	-67.3	93.30		1.8357	15.306	1.8367	-29.8	-21.7
41.27	35.00	1.3182	10.978	1.3174	-54.1	-65.3	93.40		1.8360	15.308	1.8369	-31.0	-23.8
42.63	36.00	1.3303	11.079	1.3295	-52.9	-63.3	93.50		1.8364	15.311	1.8373	-32.1	-25.8
43.99	37.00	1.3426	11.181	1.3417	-49.7	-57.4	93.60		1.8367	15.314	1.8377	-33.1	-27.5
45.35	38.00	1.3551	11.286	1.3543	-45.7	-50.2	93.70		1.8371	15.317	1.8380	-34.1	-29.3
46.72	39.00	1.3679	11.392	1.3670	-42.5	-44.5	93.80		1.8374	15.320	1.8384	-34.6	-30.3
48.10	40.00	1.3810	11.501	1.3801	-38.9	-38.0	93.90		1.8378	15.323	1.8387	-33.2	-27.8
49.47	41.00	1.3942	11.611	1.3933	-36.4	-33.5	94.00		1.8381	15.326	1.8391	-31.7	-25.0
50.87	42.00	1.4078	11.724	1.4069	-34.1	-29.3	95.00		1.8407	15.347	1.8416	-20.7	-5.3
52.26	43.00	1.4216	11.839	1.4207	-31.9	-25.4	96.00		1.8427	15.364	1.8437	-14.7	5.5
53.66	44.00	1.4356	11.956	1.4347	-30.3	-22.6	97.00		1.8437	15.372	1.8446	-6.3	20.7
55.07	45.00	1.4500	12.076	1.4491	-29.2	-20.6	98.00		1.8437	15.372	1.8446	-1.1	30.0
56.48	46.00	1.4646	12.198	1.4638	-28.6	-19.4	99.00		1.8424	15.361	1.8433	4.5	40.1
57.90	47.00	1.4796	12.322	1.4786	-28.4	-19.1	100.00		1.8391	15.334	1.8401	10.4	50.7

* To calculate weight in pounds per Imperial gallon, multiply specific gravity (above) by 10.