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Density-composition tables for aqueous solutions of sulphuric acid

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Committees responsible for this British Standard

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 Department of Trade and Industry (Laboratory of the Government Chemist)
 Department of Trade and Industry (National Weights and Measures Laboratory)
 Institute of Brewing
 Institute of Petroleum
 National Sulphuric Acid Association
 Royal Society of Chemistry
 Scientific Glassware Association
 Scotch Whisky Association
 Society of Glass Technology

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Foreword

This British Standard has been prepared under the direction of the Laboratory Apparatus Standards Committee.

This British Standard was first published in 1937 and was revised in 1959. This revision supersedes the 1959 edition which is withdrawn.

The United Kingdom participated in the preparation by Technical Committee TC 47, Chemistry, of the International Organization for Standardization (ISO) of the related ISO Recommendation ISO/R 911:1968, but disapproved it on technical grounds. The United Kingdom maintained the disapproval when ISO/R 911:1968 was converted to ISO 911:1977.

Together with hydrometers the tables provide a simple means of determining the strength of any given aqueous solution of sulphuric acid, or making up a solution of known strength. The tables may, of course, be used with other methods of determining density (for example, see BS 733).

The previous edition of this British Standard made reference to density and specific gravity hydrometers complying with BS 718:1953. When BS 718 was revised in 1979 it was aligned as far as possible with the intentions of Technical Committee 48, Laboratory glassware and related apparatus, of the International Organization for Standardization (ISO). The term "specific gravity" was replaced by "relative density", scales of relative density were excluded, and scales marked in kilograms per cubic metre were introduced as an alternative to grams per millilitre. Users who had a continuing need for relative density hydrometers ($d_{60/60}^{\circ\text{F}}$) were referred to ISO 650.

The readings of a $60/60^{\circ\text{F}}$ relative density hydrometer can readily be corrected (see Appendix A) to yield density (in kg/m^3) of the liquid at the temperature at which the hydrometer is used.

Within 1 to 2 parts in 1 000, readings at a temperature t (in $^{\circ}\text{C}$) of a $60/60^{\circ\text{F}}$ relative density hydrometer can be taken as the density (in kg/m^3) at t . To an accuracy which is very frequently adequate (within 1 part in 1 000), the reading at a temperature t between 10°C and 40°C on a 20°C or 15°C density hydrometer complying with BS 718 may be accepted as the density (in kg/m^3) of the liquid at t . Density and relative density hydrometers therefore may often be used without correction. Appendix A gives information on how the highest accuracy can be obtained. Recommendations as to the choice of suitable hydrometers for use in connection with these tables are given in Appendix B. Appendix C gives examples of the use of density-composition tables in conjunction with these hydrometers.

The principal differences between BS 753:1959 and this edition are:

- a) density, in Table 1, is given in kilograms per cubic metre instead of grams per millilitre;
- b) SI units have been used throughout and, where applicable, the tables have been recomputed;
- c) recommendations as to the choice of suitable hydrometers for use in conjunction with Table 1 have been revised to accord with BS 718;
- d) the temperature calculations given in Table 3 have been computed using the value of the thermal cubical expansion coefficient quoted in ISO 1768 for use in the preparation of measurement tables for liquids.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 58, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This British Standard gives a table that enables the composition of an aqueous solution of sulphuric acid to be determined from its density at temperatures between 10 °C and 40 °C.

Appendix A gives information on the corrections which are necessary when density is determined by a hydrometer complying with BS 718¹⁾.

Appendix B gives information on the choice of BS hydrometers that are suitable for the determination of density of sulphuric acid solutions.

Appendix C gives examples of the use of a BS hydrometer in conjunction with Table 1.

NOTE The titles of the publications referred to in this standard are listed on the inside back cover.

2 Basis of Table 1

Table 1 is based on data obtained from the International Critical Tables, 1928, Vol. III, page 56, which are still accepted as authoritative.

It should be observed that the table relates to mass, not to apparent mass in air.

3 Application of Table 1

3.1 Determination of D_t

Table 1 is arranged primarily for ease in determining the strength of an aqueous solution of sulphuric acid of known density. The density of a solution of known strength can, however, be obtained quite readily from the table. Moreover, by the application of small allowances (see Appendix A) Table 1 can be used to find the strength of solutions of known relative density or the relative density of solutions of known strength.

Consider, for example, a solution containing 10 g of H_2SO_4 in 100 g of solution, i.e. one for which $g = 10$. By looking up the value of D_t corresponding to the value $g = 10$ under any particular temperature in Table 1, the density of the solution at that temperature can be obtained. Thus, for example, the density of the solution is 1 070 kg/m³ at 10 °C, 1 066 kg/m³ at 20 °C, etc. Due allowance, based on the density of water at the various temperatures concerned, can then be made to find the corresponding relative densities at the same temperature as the acid.

It should be observed that the percentage composition g of a solution is independent of its temperature, but G , the number of grams of sulphuric acid in 1 L of solution, varies with the temperature of the solution owing to the change in volume of the solution with change in temperature. Hence, the concentration G should always be associated with a particular temperature. For a given value of G applicable at a particular temperature, Table 1 can be used to obtain the density of the solution at the specified temperature or at any other temperature within the range of the table. The value of G for the solution at temperatures other than the specified one can also be obtained. For example, consider a solution 1 L of which, at 20 °C, contains 200 g of H_2SO_4 . In Table 1 the value of D_t corresponding to $G = 200$ under 20 °C is 1 123 kg/m³ and the corresponding value of g is 17.8 g. By tracing the value $g = 17.8$ g through the table, and interpolating where necessary, the density D_t at various temperatures of the solution containing 200 g of H_2SO_4 in 1 L of solution at 20 °C can be obtained and also the number of grams of H_2SO_4 in 1 L of the solution at various temperatures.

The following are examples of values which may thus be obtained.

t	H_2SO_4 in 100 g of solution	Density of solution at t	H_2SO_4 in 1 L of solution at t
°C	g	kg/m ³	g
10	17.8	1 128	200
20	17.8	1 123	200
30	17.8	1 117	198
40	17.8	1 111	198

¹⁾ From hereon referred to as a BS hydrometer.

3.2 Double entries

Between $D_t = 1\ 811\ \text{kg/m}^3$ and $D_t = 1\ 846\ \text{kg/m}^3$ two values of g and two of G are given against certain values of D_t . This is necessary because the density of mixtures of sulphuric acid and water attains a maximum value at a concentration of approximately 97 g of sulphuric acid in 100 g of solution. Hence, over a small range on each side of the maximum, there are two possible concentrations for each particular density. Both values are given in Table 1, the values for the less concentrated solution being given in light type and those for the more concentrated solution in bold type.

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m^3) at a temperature t (in $^\circ\text{C}$) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 $^\circ\text{F}$ relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H_2SO_4 in 100 g mass of solution.

G is the mass (in g) of H_2SO_4 in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 $^\circ\text{C}$		12 $^\circ\text{C}$		14 $^\circ\text{C}$		16 $^\circ\text{C}$		18 $^\circ\text{C}$		20 $^\circ\text{C}$		22 $^\circ\text{C}$	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 000	0.0	0	0.1	1	0.1	1	0.1	1	0.2	2	0.3	3	0.3	3
1 001	0.2	2	0.2	2	0.2	3	0.3	3	0.3	3	0.4	4	0.5	5
1 002	0.3	3	0.3	4	0.4	4	0.4	4	0.5	5	0.6	6	0.6	6
1 003	0.5	5	0.3	5	0.5	5	0.6	6	0.6	6	0.7	7	0.8	8
1 004	0.6	6	0.6	6	0.7	7	0.7	7	0.8	8	0.8	8	0.9	9
1 005	0.7	8	0.8	8	0.8	8	0.9	9	0.9	9	1.0	10	1.1	11
1 006	0.9	9	0.9	9	1.0	10	1.0	10	1.1	11	1.1	11	1.2	12
1 007	1.0	10	1.1	11	1.1	11	1.2	12	1.2	12	1.3	13	1.4	14
1 008	1.2	12	1.2	12	1.3	13	1.3	13	1.4	14	1.4	14	1.5	15
1 009	1.3	13	1.3	14	1.4	14	1.5	15	1.5	15	1.6	16	1.7	17
1 010	1.5	15	1.5	15	1.5	16	1.6	16	1.7	17	1.7	17	1.8	18
1 011	1.6	16	1.6	17	1.7	17	1.8	18	1.8	18	1.9	19	2.0	20
1 012	1.7	18	1.8	18	1.8	19	1.9	19	2.0	20	2.0	21	2.1	21
1 013	1.9	19	1.9	20	2.0	20	2.0	21	2.1	21	2.2	22	2.3	23
1 014	2.0	21	2.1	21	2.1	22	2.2	22	2.3	23	2.3	24	2.4	24
1 015	2.2	22	2.2	23	2.3	23	2.3	24	2.4	24	2.5	25	2.6	26
1 016	2.3	24	2.4	24	2.4	25	2.5	25	2.6	26	2.6	27	2.7	28
1 017	2.5	25	2.5	26	2.6	26	2.6	27	2.7	28	2.8	28	2.9	29
1 018	2.6	27	2.7	27	2.7	28	2.8	28	2.9	29	2.9	30	3.0	31
1 019	2.8	28	2.8	29	2.9	29	2.9	30	3.0	31	3.1	31	3.2	32
1 020	2.9	30	3.0	30	3.0	31	3.1	32	3.2	32	3.2	33	3.3	34
1 021	3.1	31	3.1	32	3.2	32	3.2	33	3.3	34	3.4	35	3.5	36
1 022	3.2	33	3.3	33	3.3	34	3.4	35	3.5	35	3.5	36	3.6	37
1 023	3.4	34	3.4	35	3.5	35	3.5	36	3.6	37	3.7	38	3.8	39
1 024	3.5	36	3.6	36	3.6	37	3.7	38	3.8	39	3.8	39	3.9	40
1 025	3.6	37	3.7	38	3.8	39	3.8	39	3.9	40	4.0	41	4.1	42
1 026	3.8	39	3.8	40	3.9	40	4.0	41	4.1	42	4.2	43	4.2	44
1 027	3.9	40	4.0	41	4.1	42	4.1	42	4.2	43	4.3	44	4.4	45
1 028	4.1	42	4.1	43	4.2	43	4.3	44	4.4	45	4.4	46	4.5	47
1 029	4.2	43	4.3	44	4.4	45	4.4	46	4.5	46	4.6	47	4.7	48
1 030	4.4	45	4.4	46	4.5	46	4.6	47	4.7	48	4.7	49	4.9	50
1 031	4.5	46	4.6	47	4.6	48	4.7	49	4.8	49	4.9	51	5.0	52
1 032	4.7	48	4.7	49	4.8	49	4.9	50	5.0	51	5.0	52	5.1	53

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
0.4	4	0.5	5	0.6	6	0.7	7	0.8	8	0.9	9	1.0	10	1.1	11	1.2	12	1 000
0.5	6	0.6	6	0.7	7	0.8	8	0.9	9	1.0	10	1.1	12	1.3	13	1.4	14	1 001
0.7	7	0.8	8	0.9	9	1.0	10	1.1	11	1.2	12	1.3	13	1.4	14	1.5	15	1 002
0.8	9	0.9	9	1.0	10	1.1	11	1.2	12	1.3	14	1.5	15	1.6	16	1.7	17	1 003
1.0	10	1.1	11	1.2	12	1.3	13	1.4	14	1.5	15	1.6	16	1.7	17	1.8	18	1 004
1.1	12	1.2	12	1.3	13	1.4	14	1.5	15	1.7	17	1.8	18	1.9	19	2.0	20	1 005
1.3	13	1.4	14	1.5	15	1.6	16	1.7	17	1.8	18	1.9	19	2.0	20	2.2	22	1 006
1.4	14	1.5	15	1.6	16	1.7	17	1.8	19	2.0	20	2.1	21	2.2	22	2.3	22	1 007
1.6	16	1.7	17	1.8	18	1.9	19	2.0	20	2.1	21	2.2	22	2.4	24	2.5	25	1 008
1.7	18	1.8	18	1.9	20	2.0	21	2.2	22	2.3	23	2.4	24	2.5	25	2.6	27	1 009
1.9	19	2.0	20	2.1	21	2.2	22	2.3	23	2.4	25	2.5	26	2.7	27	2.8	28	1 010
2.1	21	2.1	22	2.2	23	2.4	24	2.5	25	2.6	26	2.7	27	2.8	29	3.0	30	1 011
2.2	22	2.3	23	2.4	24	2.5	25	2.6	27	2.7	28	2.9	29	3.0	30	3.1	31	1 012
2.4	24	2.5	25	2.6	26	2.7	27	2.8	28	2.9	29	3.0	31	3.1	32	3.3	33	1 013
2.5	25	2.6	26	2.7	27	2.8	29	2.9	30	3.0	31	3.2	32	3.3	33	3.4	35	1 014
2.7	27	2.8	28	2.9	29	3.0	30	3.1	31	3.2	32	3.3	34	3.5	35	3.6	36	1 015
2.8	29	2.9	30	3.0	31	3.1	32	3.3	33	3.4	34	3.6	35	3.6	37	3.7	38	1 016
3.0	30	3.1	31	3.2	32	3.3	33	3.4	35	3.5	36	3.7	37	3.8	38	3.9	40	1 017
3.1	32	3.2	33	3.3	34	3.4	35	3.6	36	3.7	37	3.8	39	3.9	40	4.1	41	1 018
3.3	33	3.4	34	3.5	35	3.6	37	3.7	38	3.8	39	4.0	40	4.1	42	4.2	43	1 019
3.4	35	3.5	36	3.6	37	3.8	38	3.9	40	4.0	41	4.1	42	4.2	43	4.4	45	1 020
3.6	37	3.7	38	3.8	39	3.9	40	4.0	41	4.2	42	4.3	44	4.4	45	4.5	46	1 021
3.7	38	3.8	39	4.0	40	4.1	41	4.2	43	4.3	44	4.4	45	4.6	47	4.7	48	1 022
3.9	40	4.0	41	4.1	42	4.2	43	4.3	44	4.5	46	4.6	47	4.7	48	4.8	50	1 023
4.0	41	4.2	43	4.3	44	4.4	45	4.5	46	4.6	47	4.7	49	4.9	50	5.0	51	1 024
4.2	43	4.3	44	4.4	45	4.5	46	4.7	48	4.8	49	4.9	50	5.0	51	5.2	53	1 025
4.4	45	4.5	46	4.6	47	4.7	48	4.8	49	4.9	50	5.0	52	5.2	53	5.3	54	1 026
4.5	46	4.6	47	4.7	48	4.8	50	5.0	51	5.1	52	5.2	53	5.3	55	5.5	56	1 027
4.7	48	4.8	49	4.9	50	5.0	51	5.1	53	5.2	54	5.4	55	5.5	56	5.6	58	1 028
4.8	49	4.9	51	5.0	52	5.1	53	5.3	54	5.4	55	5.5	57	5.6	58	5.8	59	1 029
5.0	51	5.1	52	5.2	53	5.3	54	5.4	56	5.5	57	5.7	58	5.8	60	5.9	61	1 030
5.1	53	5.2	54	5.3	55	5.4	56	5.6	57	5.7	59	5.8	60	5.9	61	6.1	65	1 031
5.3	54	5.4	56	5.5	56	5.6	58	5.7	59	5.8	60	6.0	62	6.1	63	6.2	64	1 032

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 033	4.8	50	4.9	50	4.9	51	5.0	52	5.1	53	5.2	54	5.3	55
1 034	4.9	51	5.0	52	5.1	53	5.2	53	5.2	54	5.3	55	5.4	56
1 035	5.1	53	5.2	53	5.2	54	5.3	55	5.4	56	5.5	57	5.6	58
1 036	5.2	54	5.3	55	5.4	56	5.5	57	5.5	57	5.6	58	5.7	59
1 037	5.4	56	5.5	57	5.5	57	5.6	58	5.7	59	5.8	60	5.9	61
1 038	5.5	57	5.6	58	5.7	59	5.8	60	5.8	61	5.9	62	6.0	63
1 039	5.7	59	5.7	60	5.8	60	5.9	61	6.0	62	6.1	63	6.2	64
1 040	5.8	60	5.9	61	6.0	62	6.0	63	6.1	64	6.2	65	6.3	66
1 041	5.9	62	6.0	63	6.1	64	6.2	64	6.3	65	6.4	66	6.5	67
1 042	6.1	63	6.2	64	6.2	65	6.3	66	6.4	67	6.5	68	6.6	69
1 043	6.2	65	6.3	66	6.4	67	6.5	68	6.6	68	6.7	69	6.8	71
1 044	6.4	67	6.5	67	6.5	68	6.6	69	6.7	70	6.8	71	6.9	72
1 045	6.5	68	6.6	69	6.7	70	6.8	71	6.9	72	7.0	73	7.1	74
1 046	6.7	70	6.7	71	6.8	71	6.9	72	7.0	73	7.1	74	7.2	76
1 047	6.8	71	6.9	72	7.0	73	7.1	74	7.1	75	7.2	76	7.4	77
1 048	6.9	73	7.0	74	7.1	75	7.2	75	7.3	76	7.4	77	7.5	79
1 049	7.1	74	7.2	75	7.3	76	7.3	77	7.4	78	7.5	79	7.7	80
1 050	7.2	76	7.3	77	7.4	78	7.5	79	7.6	80	7.7	81	7.8	82
1 051	7.4	77	7.5	78	7.5	79	7.6	80	7.7	81	7.8	82	7.9	83
1 052	7.5	79	7.6	80	7.7	81	7.8	82	7.9	83	8.0	84	8.1	85
1 053	7.6	80	7.7	81	7.8	82	7.9	83	8.0	84	8.1	86	8.2	87
1 054	7.8	82	7.9	83	8.0	84	8.1	85	8.2	86	8.3	87	8.4	88
1 055	7.9	84	8.0	85	8.1	85	8.2	87	8.3	88	8.4	89	8.5	90
1 056	8.1	85	8.2	86	8.2	87	8.3	88	8.4	89	8.6	90	8.7	91
1 057	8.2	87	8.3	88	8.4	89	8.5	90	8.6	91	8.7	92	8.8	93
1 058	8.3	88	8.4	89	8.5	90	8.6	91	0.7	92	8.8	93	9.0	95
1 059	8.5	89	8.6	91	8.7	92	8.8	93	8.9	94	9.0	95	9.1	96
1 060	8.6	91	8.7	92	8.8	93	8.9	95	9.0	96	9.1	97	9.2	98
1 061	8.7	93	8.8	94	8.9	95	9.1	96	9.2	97	9.3	98	9.4	100
1 062	8.9	94	9.0	95	9.1	96	9.2	98	9.3	99	9.4	100	9.5	101
1 063	9.0	96	9.1	97	9.2	98	9.3	99	9.4	100	9.6	102	9.7	103
1 064	9.2	98	9.3	99	9.4	100	9.5	101	9.6	102	9.7	103	9.8	104
1 065	9.3	99	9.4	100	9.5	101	9.6	102	9.7	104	9.8	105	10.0	106
1 066	9.4	101	9.6	102	9.6	103	9.8	104	9.9	105	10.0	106	10.1	108
1 067	9.6	102	9.7	103	9.8	104	9.9	106	10.0	107	10.1	108	10.2	109
1 068	9.7	104	9.8	105	9.9	106	10.0	107	10.2	109	10.3	110	10.4	111

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
5.4	56	5.5	57	5.6	58	5.7	59	5.9	61	6.0	62	6.1	63	6.2	65	6.4	66	1 033
5.5	57	5.7	59	5.8	60	5.9	61	6.0	62	6.1	63	6.3	65	6.4	66	6.5	68	1 034
5.7	59	5.8	60	5.9	61	6.0	63	6.2	64	6.3	65	6.4	66	6.6	68	6.7	69	1 035
5.8	61	6.0	62	6.1	63	6.2	64	6.3	65	6.4	67	6.6	68	6.7	69	6.8	71	1 036
6.0	62	6.1	63	6.2	65	6.3	66	6.5	67	6.6	68	6.7	70	6.9	71	7.0	72	1 037
6.1	64	6.3	65	6.4	66	6.5	67	6.6	69	6.7	70	6.9	71	7.0	73	7.1	74	1 038
6.3	65	6.4	66	6.5	68	6.6	69	6.8	70	6.9	71	7.0	73	7.2	74	7.3	76	1 039
6.4	67	6.6	68	6.7	69	6.8	71	6.9	72	7.0	73	7.2	75	7.3	76	7.4	77	1 040
6.6	68	6.7	70	6.8	71	6.9	72	7.1	73	7.2	75	7.3	76	7.5	78	7.6	79	1 041
6.7	70	6.9	71	7.0	73	7.1	74	7.2	75	7.3	76	7.5	78	7.6	79	7.7	81	1 042
6.9	72	7.0	73	7.1	74	7.2	76	7.4	77	7.5	78	7.6	79	7.8	81	7.9	82	1 043
7.0	73	7.1	75	7.3	76	7.4	77	7.5	78	7.6	80	7.8	81	7.9	83	8.0	84	1 044
7.2	75	7.3	76	7.4	77	7.5	79	7.7	80	7.8	81	7.9	83	8.1	84	8.2	86	1 045
7.3	77	7.4	78	7.6	79	7.7	80	7.8	82	7.9	83	8.1	84	8.2	86	8.4	87	1 046
7.5	78	7.6	79	7.7	81	7.8	82	8.0	83	8.1	85	8.2	86	8.4	88	8.5	89	1 047
7.6	80	7.7	81	7.9	82	8.0	84	8.1	85	8.2	86	8.4	88	8.5	89	8.7	91	1 048
7.8	81	7.9	83	8.0	84	8.1	85	8.3	87	8.4	88	8.5	89	8.7	91	8.8	92	1 049
7.9	83	8.0	84	8.1	86	8.3	87	8.4	88	8.5	90	8.7	91	8.8	93	9.0	94	1 050
8.1	85	8.2	86	8.3	87	8.4	89	8.6	90	8.7	91	8.8	93	9.0	94	9.1	96	1 051
8.2	86	8.3	88	8.4	89	8.6	90	8.7	92	8.8	93	9.0	94	9.1	96	9.3	97	1 052
8.3	88	8.5	89	8.6	90	8.7	92	8.9	93	9.0	95	9.1	96	9.3	98	9.4	99	1 053
8.5	89	8.6	91	8.4	92	8.9	93	9.0	95	9.1	96	9.3	98	9.4	99	9.6	101	1 054
8.6	91	8.8	92	8.9	94	9.0	95	9.2	97	9.3	98	9.4	99	9.6	101	9.7	102	1 055
8.8	93	8.9	94	9.0	95	9.2	97	9.3	98	9.4	100	9.6	101	9.7	102	9.9	104	1 056
8.9	94	9.0	96	9.2	97	9.3	98	9.4	100	9.6	101	9.7	103	9.9	104	10.0	106	1 057
9.1	96	9.2	97	9.3	99	9.5	100	9.6	101	9.7	103	9.9	104	10.0	106	10.2	107	1 058
9.2	97	9.3	99	9.5	100	9.6	101	9.7	103	9.9	104	10.0	106	10.2	107	10.3	109	1 059
9.4	99	9.5	100	9.6	102	9.8	103	9.9	105	10.0	106	10.2	107	10.3	109	10.4	111	1 060
9.5	101	9.6	102	9.7	103	9.9	105	10.0	106	10.2	108	10.3	109	10.4	111	10.6	112	1 061
9.7	102	9.8	104	9.9	105	10.0	107	10.2	108	10.3	109	10.5	111	10.6	113	10.7	114	1 062
9.8	104	9.9	105	10.0	107	10.2	108	10.3	110	10.5	111	10.6	113	10.7	114	10.9	116	1 063
9.9	106	10.1	107	10.2	108	10.3	110	10.5	111	10.6	113	10.8	114	10.9	116	11.0	118	1 064
10.1	107	10.2	109	10.3	110	10.5	112	10.6	113	10.8	114	10.9	116	11.0	118	11.2	119	1 065
10.2	109	10.4	110	10.5	112	10.6	113	10.8	115	10.9	116	11.0	118	11.2	119	11.3	121	1 066
10.4	111	10.5	112	10.6	113	10.8	115	10.9	117	11.0	118	11.2	119	11.3	121	11.5	123	1 067
10.5	112	10.6	114	10.8	115	10.9	117	11.1	118	11.2	120	11.3	121	11.5	123	11.6	124	1 068

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 069	9.9	105	10.0	107	10.1	108	10.2	109	10.3	110	10.4	111	10.5	113
1 070	10.0	107	10.1	108	10.2	109	10.3	110	10.4	112	10.6	113	10.7	114
1 071	10.1	109	10.3	110	10.3	111	10.5	112	10.6	113	10.7	115	10.8	116
1 072	10.3	110	10.4	111	10.5	112	10.6	114	10.7	115	10.8	116	11.0	117
1 073	10.4	112	10.5	113	10.6	114	10.7	115	10.9	117	11.0	118	11.1	119
1 074	10.6	113	10.7	114	10.8	116	10.9	117	11.0	118	11.1	120	11.2	121
1 075	10.7	115	10.8	116	10.9	117	11.0	118	11.1	120	11.3	121	11.4	122
1 076	10.8	116	10.9	118	11.0	119	11.2	120	11.3	121	11.4	123	11.5	124
1 077	11.0	118	11.1	119	11.2	120	11.3	122	11.4	123	11.6	124	11.7	126
1 078	11.1	120	11.2	121	11.3	122	11.4	123	11.6	125	11.7	126	11.8	127
1 079	11.2	121	11.4	122	11.5	124	11.6	125	11.7	126	11.8	128	11.9	129
1 080	11.4	123	11.5	125	11.6	125	11.7	127	11.8	128	12.0	129	12.1	130
1 081	11.5	124	11.6	126	11.7	127	11.9	128	12.0	130	12.1	131	12.2	132
1 082	11.6	126	11.8	127	11.9	129	12.0	130	12.1	131	12.3	133	12.4	134
1 083	11.8	128	11.9	129	12.0	130	12.1	131	12.3	133	12.4	134	12.5	135
1 084	11.9	129	12.0	131	12.1	132	12.3	133	12.4	134	12.5	136	12.6	137
1 085	12.1	131	12.2	132	12.3	133	12.4	135	12.5	136	12.7	137	12.8	139
1 086	12.2	132	12.3	134	12.4	135	12.5	136	12.7	138	12.8	139	12.9	140
1 087	12.3	134	12.4	135	12.6	137	12.7	138	12.8	139	12.9	141	13.1	142
1 088	12.5	136	12.6	137	12.7	138	12.8	139	12.9	141	13.1	142	13.2	144
1 089	12.6	137	12.7	138	12.8	140	13.0	141	13.1	142	13.2	144	13.3	145
1 090	12.7	139	12.9	140	13.0	141	13.1	143	13.2	144	13.4	146	13.5	147
1 091	12.9	140	13.0	142	13.1	143	13.2	144	13.4	146	13.5	147	13.6	149
1 092	13.0	142	13.1	143	13.2	145	13.4	146	13.5	147	13.6	149	13.8	150
1 093	13.1	144	13.3	145	13.4	146	13.5	148	13.6	149	13.8	151	13.9	152
1 094	13.3	145	13.4	146	13.5	148	13.6	149	13.8	151	13.9	152	14.0	154
1 095	13.4	147	13.5	148	13.6	149	13.8	151	13.9	152	14.0	154	14.2	155
1 096	13.5	148	13.7	150	13.8	151	13.9	153	14.0	154	14.2	155	14.3	157
1 097	13.7	150	13.8	151	13.9	153	14.1	154	14.2	155	14.3	157	14.5	159
1 098	13.8	152	13.9	153	14.1	154	14.2	156	14.3	157	14.5	159	14.6	160
1 099	13.9	153	14.1	155	14.2	156	14.3	157	14.5	159	14.6	160	14.7	162
1 100	14.1	155	14.2	156	14.3	158	14.5	159	14.6	160	14.7	162	14.9	163
1 101	14.2	156	14.3	158	14.5	159	14.6	161	14.7	162	14.9	164	15.0	165
1 102	14.3	158	14.5	159	14.6	161	14.7	162	14.9	164	15.0	165	15.1	167
1 103	14.5	160	14.6	161	14.7	162	14.9	164	15.0	165	15.1	167	15.3	168
1 104	14.6	161	14.7	163	14.9	164	15.0	166	15.1	167	15.3	169	15.4	170

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
10.7	114	10.8	115	10.9	117	11.1	118	11.2	120	11.3	121	11.5	123	11.6	124	11.8	126	1 069
10.8	116	10.9	117	11.1	118	11.2	120	11.3	121	11.5	123	11.6	124	11.8	126	11.9	128	1 070
10.9	117	11.1	119	11.2	120	11.3	121	11.5	123	11.6	125	11.8	126	11.9	128	12.1	129	1 071
11.1	119	11.2	120	11.3	122	11.5	123	11.6	125	11.8	126	11.9	128	12.1	129	12.2	131	1 072
11.2	120	11.4	122	11.5	123	11.6	125	11.8	126	11.9	128	12.1	129	12.2	131	12.4	133	1 073
11.4	122	11.5	123	11.6	125	11.8	126	11.9	128	12.1	130	12.2	131	12.4	133	12.5	134	1 074
11.5	124	11.6	125	11.8	127	11.9	128	12.1	130	12.2	131	12.4	133	12.5	134	12.7	136	1 075
11.6	125	11.8	127	11.9	128	12.1	130	12.2	131	12.3	131	12.5	134	12.6	136	12.8	138	1 076
11.8	127	11.9	128	12.1	130	12.2	131	12.3	133	12.5	135	12.6	136	12.8	138	12.9	139	1 077
11.9	129	12.1	130	12.2	132	12.3	133	12.5	135	12.6	136	12.8	138	12.9	139	13.1	141	1 078
12.1	130	12.2	132	12.3	133	12.5	135	12.6	136	12.8	138	12.9	140	13.1	141	13.2	143	1 079
12.2	132	12.3	133	12.5	135	12.6	136	12.8	138	12.9	140	13.1	141	13.2	143	13.4	144	1 080
12.4	134	12.5	135	12.6	137	12.8	138	12.9	140	13.1	141	13.2	143	13.4	144	13.5	146	1 081
12.5	135	12.6	137	12.8	138	12.9	140	13.1	141	13.2	143	13.4	144	13.5	146	13.7	148	1 082
12.6	137	12.8	138	12.9	140	13.1	141	13.2	143	13.4	145	13.5	146	13.6	148	13.8	149	1 083
12.8	139	12.9	140	13.1	142	13.2	143	13.3	145	13.5	146	13.6	148	13.8	149	13.9	151	1 084
12.9	140	13.1	142	13.2	143	13.3	145	13.5	146	13.6	148	13.8	149	13.9	151	14.1	153	1 085
13.1	142	13.2	143	13.3	145	13.5	146	13.6	148	13.8	150	13.9	151	14.1	153	14.2	155	1 086
13.2	143	13.3	145	13.5	146	13.6	148	13.8	150	13.9	151	14.1	153	14.2	154	14.4	156	1 087
13.3	145	13.5	147	13.6	148	13.8	150	13.9	151	14.1	153	14.2	154	14.4	156	14.5	158	1 088
13.5	147	13.6	148	13.8	150	13.9	151	14.0	153	14.2	155	14.3	156	14.5	158	14.7	160	1 089
13.6	148	13.7	150	13.9	151	14.0	153	14.2	155	14.3	156	14.5	158	14.6	160	14.8	161	1 090
13.7	150	13.9	152	14.0	153	14.2	155	14.3	156	14.5	158	14.6	160	14.8	161	14.9	163	1 091
13.9	152	14.0	153	14.2	155	14.3	156	14.5	158	14.6	160	14.8	161	14.9	163	15.1	165	1 092
14.0	153	14.2	155	14.3	156	14.5	158	14.6	160	14.8	161	14.9	163	15.1	165	15.2	166	1 093
14.2	155	14.3	157	14.5	158	14.6	160	14.7	161	14.9	163	15.1	165	15.2	166	15.4	168	1 094
14.3	157	14.4	158	14.6	160	14.7	162	14.9	163	15.0	165	15.2	167	15.4	168	15.5	170	1 095
14.4	158	14.6	160	14.7	161	14.9	163	15.0	165	15.2	166	15.3	168	15.5	170	15.6	172	1 096
14.6	160	14.7	161	14.9	163	15.0	165	15.2	166	15.3	168	15.5	170	15.6	171	15.8	173	1 097
14.7	162	14.9	163	15.0	165	15.2	167	15.3	168	15.5	170	15.6	172	15.8	173	15.9	175	1 098
14.9	163	15.0	165	15.2	166	15.3	168	15.4	170	15.6	171	15.8	173	15.9	175	16.1	177	1 099
15.0	165	15.1	167	15.3	168	15.4	170	15.6	171	15.7	173	15.9	175	16.1	177	16.2	178	1 100
15.1	167	15.3	168	15.4	170	15.6	172	15.7	173	15.9	175	16.0	177	16.2	178	16.3	180	1 101
15.3	168	15.4	170	15.6	172	15.7	173	15.9	175	16.0	177	16.2	178	16.3	180	16.5	182	1 102
15.4	170	15.6	172	15.7	173	15.9	175	16.0	177	16.2	178	16.3	180	16.5	182	16.6	183	1 103
15.5	171	15.7	173	15.8	175	16.0	177	16.2	178	16.3	180	16.5	182	16.6	183	16.8	185	1 104

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 105	14.7	163	14.9	164	15.0	166	15.1	167	15.3	169	15.4	170	15.5	172
1 106	14.9	165	15.0	166	15.1	167	15.3	169	15.4	170	15.5	172	15.7	173
1 107	15.0	166	15.1	168	15.3	169	15.4	170	15.5	172	15.7	173	15.8	175
1 108	15.1	168	15.3	169	15.4	171	15.5	172	15.7	174	15.8	175	15.9	177
1 109	15.3	169	15.4	171	15.5	172	15.7	174	15.8	175	15.9	177	16.1	178
1 110	15.4	171	15.5	173	15.7	174	15.8	175	15.9	177	16.1	178	16.2	180
1 111	15.5	173	15.7	174	15.8	176	15.9	177	16.1	179	16.2	180	16.4	182
1 112	15.7	174	15.8	176	15.9	177	16.1	179	16.2	180	16.4	182	16.5	183
1 113	15.8	176	15.9	177	16.1	179	16.2	180	16.3	182	16.5	183	16.6	185
1 114	15.9	177	16.1	179	16.2	180	16.3	182	16.5	183	16.6	185	16.8	187
1 115	16.1	179	16.2	181	16.3	182	16.5	184	16.6	185	16.8	187	16.9	188
1 116	16.2	181	16.3	182	16.5	184	16.6	185	16.7	187	16.9	188	17.0	190
1 117	16.3	182	16.5	184	16.6	185	16.7	187	16.9	189	17.0	190	17.2	192
1 118	16.5	184	16.6	185	16.7	187	16.9	189	17.0	190	17.2	192	17.3	193
1 119	16.6	186	16.7	187	16.9	189	17.0	190	17.2	192	17.3	194	17.4	195
1 120	16.7	187	16.9	189	17.0	190	17.1	192	17.3	194	17.4	195	17.6	197
1 121	16.9	189	17.0	190	17.1	192	17.3	194	17.4	195	17.6	197	17.7	198
1 122	17.0	191	17.1	192	17.3	194	17.4	195	17.5	197	17.7	199	17.8	200
1 123	17.1	192	17.3	194	17.4	195	17.5	197	17.7	199	17.8	200	18.0	202
1 124	17.2	194	17.4	195	17.5	197	17.7	199	17.8	200	18.0	202	18.1	203
1 125	17.4	196	17.5	197	17.7	199	17.8	200	17.9	202	18.1	204	18.2	205
1 126	17.5	197	17.6	199	17.8	200	17.9	202	18.1	204	18.2	205	18.4	207
1 127	17.6	199	17.8	200	17.9	202	18.1	204	18.2	205	18.4	207	18.5	208
1 128	17.8	200	17.9	202	18.1	204	18.2	205	18.3	207	18.5	209	18.6	210
1 129	17.9	202	18.0	204	18.2	205	18.3	207	18.5	209	18.6	210	18.8	212
1 130	18.0	204	18.2	205	18.3	207	18.5	209	18.6	210	18.8	212	18.9	214
1 131	18.2	205	18.3	207	18.4	209	18.6	210	18.7	212	18.9	214	19.0	215
1 132	18.3	207	18.4	209	18.6	210	18.7	212	18.9	214	19.0	215	19.2	217
1 133	18.4	209	18.6	210	18.7	212	18.9	214	19.0	215	19.2	217	19.3	219
1 134	18.5	210	18.7	212	18.8	214	19.0	215	19.1	217	19.3	219	19.4	220
1 135	18.7	212	18.8	214	19.0	215	19.1	217	19.3	219	19.4	220	19.6	222
1 136	18.8	214	18.9	215	19.1	217	19.2	219	19.4	220	19.6	222	19.7	224
1 137	18.9	215	19.1	217	19.2	219	19.4	220	19.5	222	19.7	224	19.8	226
1 138	19.1	217	19.2	218	19.4	220	19.5	222	19.7	224	19.8	226	20.0	227
1 139	19.2	219	19.3	220	19.5	222	19.6	224	19.8	225	19.9	227	20.1	229
1 140	19.3	220	19.5	222	19.6	224	19.8	225	19.9	227	20.1	229	20.2	231

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
15.7	173	15.8	175	16.0	177	16.1	178	16.3	180	16.4	182	16.6	183	16.7	185	16.9	187	1 105
15.8	175	16.0	177	16.1	178	16.3	180	16.4	182	16.6	183	16.7	185	16.9	187	17.0	188	1 106
16.0	177	16.1	178	16.3	180	16.4	182	16.6	183	16.7	185	16.9	187	17.0	188	17.2	190	1 107
16.1	178	16.2	180	16.4	182	16.5	183	16.7	185	16.8	187	17.0	188	17.2	190	17.3	192	1 108
16.2	180	16.4	182	16.5	183	16.7	185	16.8	187	17.0	188	17.1	190	17.3	192	17.5	194	1 109
16.4	182	16.5	183	16.7	185	16.8	187	17.0	188	17.1	190	17.3	192	17.4	193	17.6	195	1 110
16.5	183	16.6	185	16.8	187	17.0	188	17.1	190	17.3	192	17.4	194	17.6	195	17.7	197	1 111
16.6	185	16.8	187	16.9	188	17.1	190	17.2	192	17.4	193	17.6	195	17.7	197	17.9	199	1 112
16.8	187	16.9	188	17.1	190	17.2	192	17.4	193	17.5	195	17.7	197	17.8	199	18.0	200	1 113
16.9	188	17.1	190	17.2	192	17.4	193	17.5	195	17.7	197	17.8	199	18.0	200	18.2	202	1 114
17.0	190	17.2	192	17.3	193	17.5	195	17.6	197	17.8	199	18.0	200	18.1	202	18.3	204	1 115
17.2	192	17.3	193	17.5	195	17.6	197	17.8	199	17.9	200	18.1	202	18.3	204	18.4	206	1 116
17.3	193	17.5	195	17.6	197	17.8	198	17.9	200	18.1	202	18.2	204	18.4	206	18.6	207	1 117
17.4	195	17.6	197	17.7	198	17.9	200	18.1	202	18.2	204	18.4	205	18.5	207	18.7	209	1 118
17.6	197	17.7	198	17.9	200	18.0	202	18.2	204	18.3	205	18.5	207	18.7	209	18.8	211	1 119
17.7	198	17.9	200	18.0	202	18.2	204	18.3	205	18.5	207	18.6	209	18.8	211	19.0	212	1 120
17.9	200	18.0	202	18.2	203	18.3	205	18.5	207	18.6	209	18.8	211	18.9	212	19.1	214	1 121
18.0	202	18.1	204	18.3	205	18.4	207	18.6	209	18.8	210	18.9	212	19.1	214	19.2	216	1 122
18.1	203	18.3	205	18.4	207	18.6	209	18.7	210	18.9	212	19.1	214	19.2	216	19.4	218	1 123
18.3	205	18.4	207	18.6	209	18.7	210	18.9	212	19.0	214	19.2	216	19.4	218	19.5	219	1 124
18.4	207	18.5	209	18.7	210	18.9	212	19.0	214	19.2	216	19.3	217	19.5	219	19.7	221	1 125
18.5	209	18.7	210	18.8	212	19.0	214	19.1	216	19.3	217	19.5	219	19.6	221	19.8	223	1 126
18.7	210	18.8	212	19.0	214	19.1	215	19.3	217	19.4	219	19.6	221	19.8	223	19.9	225	1 127
18.8	212	18.9	214	19.1	216	19.3	217	19.4	219	19.6	221	19.7	223	19.9	224	20.1	226	1 128
18.9	214	19.1	215	19.2	217	19.4	219	19.6	221	19.7	223	19.9	224	20.0	226	20.2	228	1 129
19.1	215	19.2	217	19.4	219	19.5	221	19.7	222	19.8	224	20.0	226	20.2	228	20.3	230	1 130
19.2	217	19.3	219	19.5	221	19.7	222	19.8	224	20.0	226	20.1	228	20.3	230	20.5	232	1 131
19.3	219	19.5	221	19.6	222	19.8	224	20.0	226	20.1	228	20.3	230	20.4	231	20.6	233	1 132
19.5	220	19.6	222	19.8	224	19.9	226	20.1	228	20.3	229	20.4	231	20.6	233	20.7	235	1 133
19.6	222	19.7	224	19.9	226	20.1	228	20.2	229	20.4	231	20.6	233	20.7	235	20.9	237	1 134
19.7	224	19.9	226	20.0	227	20.2	229	20.4	231	20.5	233	20.7	235	20.9	237	21.0	239	1 135
19.9	226	20.0	227	20.2	229	20.3	231	20.5	233	20.7	235	20.8	237	21.0	238	21.1	240	1 136
20.0	227	20.1	229	20.3	231	20.5	233	20.6	234	20.8	236	21.0	238	21.1	240	21.3	242	1 137
20.1	229	20.3	231	20.4	233	20.6	234	20.8	236	20.9	238	21.1	240	21.3	242	21.4	244	1 138
20.3	231	20.4	232	20.6	234	20.7	236	20.9	238	21.0	240	21.2	242	21.4	244	21.5	245	1 139
20.4	232	20.5	234	20.7	236	20.9	238	21.0	240	21.2	242	21.4	244	21.5	245	21.7	247	1 140

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 141	19.4	222	19.6	224	19.7	225	19.9	227	20.1	229	20.2	231	20.4	232
1 142	19.6	223	19.7	225	19.9	227	20.0	229	20.2	230	20.3	232	20.5	234
1 143	19.7	225	19.8	227	20.0	229	20.2	230	20.3	232	20.5	234	20.6	236
1 144	19.8	227	20.0	228	20.1	230	20.3	232	20.4	234	20.6	236	20.8	237
1 145	20.0	229	20.1	230	20.3	232	20.4	234	20.6	236	20.7	237	20.9	239
1 146	20.1	230	20.2	232	20.4	234	20.5	236	20.7	237	20.9	239	21.0	241
1 147	20.2	232	20.4	234	20.5	235	20.7	237	20.8	239	21.0	241	21.1	242
1 148	20.3	234	20.5	235	20.6	237	20.8	239	21.0	241	21.1	242	21.3	244
1 149	20.5	235	20.6	237	20.8	239	20.9	240	21.1	242	21.2	244	21.4	246
1 150	20.6	237	20.8	239	20.9	240	21.1	242	21.2	244	21.4	246	21.5	248
1 151	20.7	239	20.9	240	21.0	242	21.2	244	21.3	246	21.5	247	21.7	249
1 152	20.9	240	21.0	242	21.2	244	21.3	246	21.5	247	21.6	249	21.8	251
1 153	21.0	242	21.1	244	21.3	245	21.5	247	21.6	249	21.8	251	21.9	253
1 154	21.1	244	21.3	245	21.4	247	21.6	249	21.7	251	21.9	253	22.1	254
1 155	21.2	245	21.4	247	21.6	249	21.7	251	21.9	253	22.0	254	22.2	256
1 156	21.4	247	21.5	249	21.7	251	21.8	252	22.0	254	22.2	256	22.3	258
1 157	21.5	249	21.7	250	21.8	252	22.0	254	22.1	256	22.3	258	22.4	260
1 158	21.6	250	21.8	252	21.9	254	22.1	256	22.3	258	22.4	260	22.6	261
1 159	21.8	252	21.9	254	22.1	256	22.2	258	22.4	259	22.5	261	22.7	263
1 160	21.9	254	22.0	256	22.2	257	22.4	259	22.5	261	22.7	263	22.8	265
1 161	22.0	256	22.2	257	22.3	259	22.5	261	22.6	263	22.8	265	23.0	267
1 162	22.1	257	22.3	259	22.5	261	22.6	263	22.8	265	22.9	266	23.1	268
1 163	22.3	259	22.4	261	22.6	263	22.7	264	22.9	266	23.1	268	23.2	270
1 164	22.4	261	22.6	262	22.7	264	22.9	266	23.0	268	23.2	270	23.3	272
1 165	22.5	262	22.7	264	22.8	266	23.0	268	23.2	270	23.3	272	23.5	274
1 166	22.6	264	22.8	266	23.0	268	23.1	270	23.3	271	23.4	273	23.6	275
1 167	22.8	266	22.9	268	23.1	269	23.2	271	23.4	273	23.6	275	23.7	277
1 168	22.9	267	23.1	269	23.2	271	23.4	273	23.5	275	23.7	277	23.9	279
1 169	23.0	269	23.2	271	23.3	273	23.5	275	23.7	277	23.8	278	24.0	280
1 170	23.2	271	23.3	273	23.5	275	23.6	276	23.8	278	23.9	280	24.1	282
1 171	23.3	273	23.4	274	23.6	276	23.8	278	23.9	280	24.1	282	24.2	284
1 172	23.4	274	23.6	276	23.7	278	23.9	280	24.0	282	24.2	284	24.4	286
1 173	23.5	276	23.7	278	23.8	280	24.0	282	24.2	283	24.3	285	24.5	287
1 174	23.7	278	23.8	280	24.0	282	24.1	283	24.3	285	24.5	287	24.6	289
1 175	23.8	279	23.9	281	24.1	283	24.3	285	24.4	287	24.6	289	24.7	291
1 176	23.9	281	24.1	283	24.2	285	24.4	287	24.5	289	24.7	291	24.9	292

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

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G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
20.5	234	20.7	236	20.8	238	21.0	240	21.2	241	21.3	243	21.5	245	21.7	247	21.8	249	1 141
20.7	236	20.8	238	21.0	239	21.1	241	21.3	243	21.5	245	21.6	247	21.8	249	21.9	251	1 142
20.8	238	20.9	239	21.1	241	21.3	243	21.4	245	21.6	247	21.8	249	21.9	251	22.1	252	1 143
20.9	239	21.1	241	21.2	243	21.4	245	21.6	247	21.7	248	21.9	250	22.1	252	22.2	254	1 144
21.0	241	21.2	243	21.4	245	21.5	247	21.7	248	21.9	250	22.0	252	22.2	254	22.3	256	1 145
21.2	243	21.3	244	21.5	246	21.7	248	21.8	250	22.0	252	22.1	254	22.3	256	22.5	258	1 146
21.3	244	21.5	246	21.6	248	21.8	250	22.0	252	22.1	254	22.3	256	22.4	257	22.6	259	1 147
21.4	246	21.6	248	21.8	250	21.9	252	22.1	253	22.2	255	22.4	257	22.6	259	22.7	261	1 148
21.6	248	21.7	250	21.9	252	22.1	253	22.2	255	22.4	257	22.5	259	22.7	261	22.9	263	1 149
21.7	249	21.9	251	22.0	253	22.2	255	22.3	257	22.5	259	22.7	261	22.8	263	23.0	265	1 150
21.8	251	22.0	253	22.2	255	22.3	257	22.5	259	22.6	261	22.8	262	23.0	264	23.1	266	1 151
22.0	253	22.1	255	22.3	257	22.4	259	22.6	260	22.8	262	22.9	264	23.1	266	23.3	268	1 152
22.1	255	22.2	257	22.4	258	22.6	260	22.7	262	22.9	264	23.1	266	23.2	268	23.4	270	1 153
22.2	256	22.4	258	22.5	260	22.7	262	22.9	264	23.0	266	23.2	268	23.4	270	23.5	272	1 154
22.4	258	22.5	260	22.6	262	22.8	264	23.0	266	23.2	267	23.3	269	23.5	271	23.7	273	1 155
22.5	260	22.6	262	22.8	263	23.0	265	23.1	267	23.3	269	23.5	271	23.6	273	23.8	275	1 156
22.6	262	22.8	263	22.9	265	23.1	267	23.3	269	23.4	271	23.6	273	23.8	275	23.9	277	1 157
22.7	263	22.9	265	23.1	267	23.2	269	23.4	271	23.6	273	23.7	275	23.9	277	24.1	278	1 158
22.9	265	23.0	267	23.2	269	23.4	271	23.5	272	23.7	274	23.9	277	24.0	278	24.2	280	1 159
23.0	267	23.2	269	23.3	270	23.5	272	23.6	274	23.8	276	24.0	278	24.1	280	24.3	282	1 160
23.1	268	23.3	270	23.4	272	23.6	274	23.8	276	23.9	278	24.1	280	24.3	282	24.4	284	1 161
23.3	270	23.4	272	23.6	274	23.7	276	23.9	278	24.1	280	24.2	282	24.4	284	24.6	286	1 162
23.4	272	23.5	274	23.7	276	23.9	278	24.0	280	24.2	281	24.4	283	24.5	285	24.7	287	1 163
23.5	274	23.7	276	23.8	277	24.0	279	24.2	281	24.3	283	24.5	285	24.7	287	24.8	289	1 164
23.6	275	23.8	277	24.0	279	24.1	281	24.3	283	24.5	285	24.6	287	24.8	289	25.0	291	1 165
23.8	277	23.9	279	24.1	281	24.3	283	24.4	285	24.6	287	24.8	289	24.9	291	25.1	293	1 166
23.9	279	24.1	281	24.2	283	24.4	285	24.6	286	24.7	288	24.9	290	25.1	292	25.2	294	1 167
24.0	281	24.2	283	24.3	284	24.5	286	24.7	288	24.8	290	25.0	292	25.2	294	25.4	296	1 168
24.2	282	24.3	284	24.5	286	24.6	288	24.8	290	25.0	292	25.1	294	25.3	296	25.5	298	1 169
24.3	284	24.4	286	24.6	288	24.8	290	24.9	292	25.1	294	25.3	296	25.4	298	25.6	300	1 170
24.4	286	24.6	288	24.7	290	24.9	292	25.1	293	25.2	295	25.4	297	25.6	299	25.7	301	1 171
24.5	287	24.7	289	24.9	291	25.0	293	25.2	295	25.4	297	25.5	299	25.7	301	25.9	303	1 172
24.7	289	24.8	291	25.0	293	25.2	295	25.3	297	25.5	299	25.7	301	25.8	303	26.0	305	1 173
24.8	291	25.0	293	25.1	295	25.3	297	25.4	299	25.6	301	25.8	303	26.0	305	26.1	307	1 174
24.9	293	25.1	295	25.2	297	25.4	299	25.6	300	25.7	302	25.9	305	26.1	307	26.3	309	1 175
25.0	294	25.2	296	25.4	298	25.5	300	25.7	302	25.9	304	26.1	306	26.2	308	26.4	310	1 176

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t [in °C] (for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)).

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 177	24.0	283	24.2	285	24.4	287	24.5	288	24.7	290	24.8	292	25.0	294
1 178	24.1	284	24.3	286	24.5	288	24.6	290	24.8	292	25.0	294	25.1	296
1 179	24.3	286	24.4	288	24.6	290	24.8	292	24.9	294	25.1	296	25.3	298
1 180	24.4	288	24.6	290	24.7	292	24.9	294	25.1	296	25.2	297	25.4	299
1 181	24.5	290	24.7	292	24.9	293	25.0	295	25.2	297	25.3	299	25.5	301
1 182	24.6	291	24.8	293	25.0	295	25.1	297	25.3	299	25.5	301	25.6	303
1 183	24.8	293	24.9	295	25.1	297	25.3	299	25.4	301	25.6	303	25.8	305
1 184	24.9	295	25.1	297	25.2	299	25.4	301	25.6	303	25.7	305	25.9	307
1 185	25.0	297	25.2	298	25.4	300	25.5	302	25.7	304	25.8	306	26.0	308
1 186	25.1	298	25.3	300	25.5	302	25.6	304	25.8	306	26.0	308	26.1	310
1 187	25.3	300	25.4	302	25.6	304	25.8	306	25.9	308	26.1	310	26.3	312
1 188	25.4	302	25.6	304	25.7	306	25.9	308	26.1	310	26.2	312	26.4	314
1 189	25.5	303	25.7	305	25.9	307	26.0	309	26.2	311	26.4	313	26.5	315
1 190	25.6	305	25.8	307	26.0	309	26.1	311	26.3	313	26.5	315	26.6	317
1 191	25.8	307	25.9	309	26.1	310	26.3	313	26.4	315	26.6	317	26.8	319
1 192	25.9	309	26.0	311	26.2	313	26.4	314	26.6	317	26.7	319	26.9	321
1 193	26.0	310	26.2	312	26.3	314	26.5	316	26.7	318	26.9	320	27.0	322
1 194	26.1	312	26.3	314	26.5	316	26.6	318	26.8	320	27.0	322	27.1	324
1 195	26.3	314	26.4	316	26.6	318	26.8	320	26.9	322	27.1	324	27.3	326
1 196	26.4	316	26.5	317	26.7	319	26.9	321	27.1	324	27.2	326	27.4	328
1 197	26.5	317	26.7	319	26.8	321	27.0	323	27.2	325	27.3	327	27.5	329
1 198	26.6	319	26.8	321	27.0	323	27.1	325	27.3	327	27.5	329	27.6	331
1 199	26.8	321	26.9	323	27.1	325	27.3	327	27.4	329	27.6	331	27.8	333
1 200	26.9	323	27.0	324	27.2	327	27.4	329	27.6	331	27.8	333	27.9	335
1 201	27.0	324	27.2	326	27.3	328	27.5	330	27.7	332	27.8	334	28.0	336
1 202	27.1	326	27.3	328	27.5	330	27.6	332	27.8	334	28.0	336	28.1	338
1 203	27.2	328	27.4	330	27.6	332	27.8	334	27.9	336	28.1	338	28.3	340
1 204	27.4	330	27.5	332	27.7	334	27.9	336	28.0	338	28.2	340	28.4	342
1 205	27.5	331	27.7	333	27.8	335	28.0	337	28.2	339	28.3	341	28.5	343
1 206	27.6	333	27.8	335	28.0	337	28.1	339	28.3	341	28.5	343	28.6	345
1 207	27.8	335	27.9	337	28.1	339	28.2	341	28.4	343	28.6	345	28.8	347
1 208	27.9	336	28.0	338	28.2	341	28.4	343	28.5	345	28.7	347	28.9	349
1 209	28.0	338	28.2	340	28.3	342	28.5	344	28.7	346	28.8	349	29.0	351
1 210	28.1	340	28.3	342	28.4	344	28.6	346	28.8	348	29.0	350	29.1	352
1 211	28.2	342	28.4	344	28.6	346	28.7	348	28.9	350	29.1	352	29.2	354
1 212	28.4	344	28.5	346	28.7	348	28.9	350	29.0	352	29.2	354	29.4	356

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t [in °C] (for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)).

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
25.2	296	25.3	298	25.5	300	25.7	302	25.8	304	26.0	306	26.2	308	26.3	310	26.5	312	1 177
25.3	298	25.5	300	25.6	302	25.8	304	26.0	306	26.1	308	26.3	310	26.5	312	26.6	314	1 178
25.4	300	25.6	302	25.8	304	25.9	306	26.1	308	26.3	309	26.4	312	26.6	314	26.8	316	1 179
25.5	301	25.7	303	25.9	306	26.1	307	26.2	309	26.4	311	26.6	313	26.7	315	26.9	317	1 180
25.7	303	25.8	305	26.0	307	26.2	309	26.3	311	26.5	313	26.6	315	26.7	317	27.0	319	1 181
25.8	305	26.0	307	26.1	309	26.3	311	26.5	313	26.6	315	26.8	317	27.0	319	27.2	321	1 182
25.9	307	26.1	309	26.3	311	26.4	313	26.6	315	26.8	317	26.9	319	27.1	321	27.3	323	1 183
26.1	308	26.2	310	26.4	312	26.6	314	26.7	316	26.9	318	27.1	320	27.2	322	27.4	324	1 184
26.2	310	26.3	312	26.5	314	26.7	316	26.8	318	27.0	320	27.2	322	27.4	324	27.5	326	1 185
26.3	312	26.5	314	26.6	316	26.8	318	27.0	320	27.1	322	27.3	324	27.5	326	27.7	328	1 186
26.4	314	26.6	316	26.8	318	26.9	320	27.1	322	27.3	324	27.4	326	27.6	328	27.8	330	1 187
26.6	315	26.7	317	26.9	320	27.1	321	27.2	323	27.4	326	27.6	328	27.7	330	27.9	332	1 188
26.7	317	26.9	319	27.0	321	27.2	323	27.4	325	27.5	327	27.7	329	27.9	331	28.0	333	1 189
26.8	319	27.0	321	27.1	323	27.3	325	27.5	327	27.7	329	27.8	331	28.0	333	28.2	335	1 190
26.9	321	27.1	322	27.3	325	27.4	327	27.6	329	27.8	331	27.9	333	28.1	335	28.3	337	1 191
27.1	322	27.2	324	27.4	326	27.6	329	27.7	331	27.9	333	28.1	335	28.2	337	28.4	339	1 192
27.2	324	27.4	326	27.5	328	27.7	330	27.9	332	28.0	334	28.2	336	28.4	338	28.5	340	1 193
27.3	326	27.5	328	27.6	330	27.8	332	28.0	334	28.2	336	28.3	338	28.5	340	28.7	342	1 194
27.4	328	27.6	330	27.8	332	27.9	334	28.1	336	28.3	338	28.4	340	28.6	342	28.8	344	1 195
27.5	329	27.7	332	27.9	334	28.1	336	28.2	338	28.4	340	28.6	342	28.7	344	28.9	346	1 196
27.7	331	27.9	333	28.0	335	28.2	337	28.4	339	28.5	342	28.7	344	28.9	346	29.1	348	1 197
27.8	333	28.0	335	28.1	337	28.3	339	28.5	341	28.7	343	28.8	345	29.0	347	29.2	350	1 198
27.9	335	28.1	337	28.3	339	28.4	341	28.6	344	28.8	345	29.0	347	29.1	349	29.3	351	1 199
28.0	337	28.2	339	28.4	341	28.6	343	28.7	345	28.9	347	29.1	349	29.2	351	29.4	353	1 200
28.2	338	28.4	340	28.5	342	28.7	345	28.9	347	29.0	349	29.2	351	29.4	353	29.6	355	1 201
28.3	340	28.5	342	28.6	344	28.8	346	29.0	348	29.2	351	29.3	353	29.5	355	29.7	357	1 202
28.4	342	28.6	344	28.8	346	28.9	348	29.1	350	29.3	352	29.5	354	29.6	356	29.8	358	1 203
28.6	344	28.7	346	28.9	348	29.1	350	29.2	352	29.4	354	29.6	356	29.8	358	29.9	360	1 204
28.7	345	28.9	348	29.0	350	29.2	352	29.4	354	29.5	356	29.7	358	29.9	360	30.1	362	1 205
28.8	347	29.0	349	29.1	351	29.3	353	29.5	356	29.7	358	29.8	360	30.0	362	30.2	364	1 206
28.9	349	29.1	351	29.3	353	29.4	355	29.6	357	29.8	359	30.0	361	30.1	363	30.3	365	1 207
29.1	351	29.2	353	29.4	355	29.6	357	29.7	359	29.9	361	30.1	363	30.3	365	30.4	367	1 208
29.2	353	29.3	355	29.5	357	29.7	359	29.9	361	30.0	363	30.2	365	30.4	367	30.6	369	1 209
29.3	355	29.5	357	29.6	359	29.8	361	30.0	363	30.2	365	30.3	367	30.5	369	30.7	371	1 210
29.4	356	29.6	358	29.8	360	29.9	363	30.1	365	30.3	367	30.4	369	30.6	371	30.8	373	1 211
29.5	358	29.7	360	29.9	362	30.1	364	30.2	366	30.4	368	30.6	371	30.8	373	30.9	375	1 212

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 213	28.5	345	28.6	348	28.8	349	29.0	352	29.1	354	29.3	356	29.5	358
1 214	28.6	347	28.8	349	28.9	351	29.1	353	29.3	355	29.4	358	29.6	360
1 215	28.7	349	28.9	351	29.1	353	29.2	355	29.4	357	29.6	359	29.7	361
1 216	28.8	351	29.0	353	29.2	355	29.4	357	29.5	359	29.7	361	29.9	363
1 217	29.0	352	29.1	355	29.3	357	29.5	359	29.6	361	29.8	363	30.0	365
1 218	29.1	354	29.3	356	29.4	358	29.6	361	29.8	362	29.9	365	30.1	367
1 219	29.2	356	29.4	358	29.6	360	29.7	362	29.9	364	30.1	366	30.2	369
1 220	29.3	358	29.5	360	29.7	362	29.8	364	30.0	366	30.2	368	30.4	370
1 221	29.5	360	29.6	362	29.8	364	30.0	366	30.1	368	30.3	370	30.5	372
1 222	29.6	361	29.7	363	29.9	366	30.1	368	30.3	370	30.4	372	30.6	374
1 223	29.7	363	29.9	365	30.0	367	30.2	369	30.4	372	30.6	374	30.7	376
1 224	29.8	365	30.0	367	30.2	369	30.3	371	30.5	373	30.7	375	30.8	377
1 225	29.9	361	30.1	369	30.3	371	30.5	373	30.6	375	30.8	377	31.0	379
1 226	30.1	369	30.2	371	30.4	373	30.6	375	30.7	377	30.9	379	31.1	381
1 227	30.2	370	30.4	372	30.5	374	30.7	377	30.9	379	31.0	381	31.2	383
1 228	30.3	372	30.5	374	30.7	376	30.8	378	31.0	381	31.2	383	31.3	385
1 229	30.4	374	30.6	376	30.8	378	30.9	380	31.1	382	31.3	384	31.5	387
1 230	30.5	376	30.7	378	30.9	380	31.1	382	31.2	384	31.4	386	31.6	388
1 231	30.7	377	30.8	380	31.0	382	31.2	384	31.4	386	31.5	388	31.7	390
1 232	30.8	379	31.0	381	31.1	384	31.3	386	31.5	388	31.7	390	31.8	392
1 233	30.9	381	31.1	383	31.3	385	31.4	387	31.6	390	31.8	392	31.9	394
1 234	31.0	383	31.2	385	31.4	387	31.5	389	31.7	391	31.9	394	32.1	396
1 235	31.1	385	31.3	387	31.5	389	31.7	391	31.8	393	32.0	395	32.2	397
1 236	31.3	386	31.4	388	31.6	391	31.8	393	32.0	395	32.1	397	32.3	399
1 237	31.4	388	31.6	390	31.7	393	31.9	395	32.1	397	32.3	399	32.4	401
1 238	31.5	390	31.7	392	31.9	394	32.0	396	32.2	399	32.4	401	32.5	403
1 239	31.6	392	31.8	394	32.0	396	32.1	398	32.3	400	32.5	403	32.7	405
1 240	31.7	394	31.9	396	32.1	398	32.3	400	32.4	402	32.6	404	32.8	406
1 241	31.9	396	32.0	398	32.2	400	32.4	402	32.6	404	32.7	406	32.9	408
1 242	32.0	397	32.2	399	32.3	402	32.5	404	32.7	406	32.9	408	33.0	410
1 243	32.1	399	32.3	401	32.5	403	32.6	406	32.8	408	33.0	410	33.1	412
1 244	32.2	401	32.4	403	32.6	405	32.8	407	32.9	410	33.1	412	33.3	414
1 245	32.4	403	32.5	405	32.7	407	32.9	409	33.0	411	33.2	414	33.4	416
1 246	32.5	404	32.6	406	32.8	409	33.0	411	33.2	413	33.3	415	33.5	417
1 247	32.6	406	32.8	409	32.9	411	33.1	413	33.3	415	33.4	417	33.6	419
1 248	32.7	408	32.9	410	33.1	413	33.2	415	33.4	417	33.6	419	33.8	421

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

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G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
29.7	360	29.8	362	30.0	364	30.2	366	30.4	368	30.5	370	30.7	372	30.9	375	31.0	377	1 213
29.8	362	30.0	364	30.1	366	30.3	368	30.5	370	30.6	372	30.8	374	31.0	376	31.2	378	1 214
29.9	363	30.1	365	30.3	368	30.4	370	30.6	372	30.8	374	31.0	376	31.1	378	31.3	380	1 215
30.0	365	30.2	367	30.4	369	30.6	371	30.7	374	30.9	376	31.1	378	31.2	380	31.4	382	1 216
30.2	367	30.3	369	30.5	371	30.7	373	30.9	375	31.0	378	31.2	380	31.4	382	31.5	384	1 217
30.3	369	30.5	371	30.6	373	30.8	375	31.0	377	31.1	379	31.3	381	31.5	384	31.7	386	1 218
30.4	371	30.6	373	30.8	375	30.9	377	31.1	379	31.3	381	31.4	383	31.6	385	31.8	388	1 219
30.5	372	30.7	375	30.9	377	31.0	379	31.2	381	31.4	383	31.6	385	31.7	387	31.9	389	1 220
30.7	374	30.8	376	31.0	379	31.2	381	31.3	383	31.5	385	31.7	387	31.9	389	32.0	391	1 221
30.8	376	30.9	378	31.1	380	31.3	382	31.5	384	31.6	387	31.8	389	32.0	391	32.2	393	1 222
30.9	378	31.1	380	31.2	382	31.4	385	31.6	386	31.8	388	31.9	391	32.1	393	32.3	395	1 223
31.0	380	31.2	382	31.4	384	31.5	386	31.7	388	31.9	390	32.1	392	32.2	394	32.4	397	1 224
31.1	381	31.3	383	31.5	386	31.7	388	31.8	390	32.0	392	32.2	394	32.4	396	32.5	398	1 225
31.3	383	31.4	385	31.6	388	31.8	390	32.0	392	32.1	394	32.3	396	32.5	398	32.6	400	1 226
31.4	385	31.5	387	31.7	389	31.9	391	32.1	393	32.2	396	32.4	398	32.6	400	32.8	402	1 227
31.5	387	31.7	389	31.9	391	32.0	393	32.2	395	32.4	397	32.5	400	32.7	402	32.9	404	1 228
31.6	389	31.8	391	32.0	393	32.1	395	32.3	397	32.5	399	32.7	402	32.8	404	33.0	406	1 229
31.7	390	31.9	392	32.1	395	32.3	396	32.4	399	32.6	401	32.8	403	33.0	405	33.1	407	1 230
31.9	392	32.0	394	32.2	397	32.4	399	32.6	401	32.7	403	32.9	405	33.1	407	33.3	409	1 231
32.0	394	32.2	396	32.3	398	32.5	401	32.7	403	32.9	405	33.0	407	33.2	409	33.4	411	1 232
32.1	396	32.3	398	32.5	400	32.6	402	32.8	404	33.0	407	33.1	409	33.3	411	33.5	413	1 233
32.2	398	32.4	400	32.6	402	32.8	404	32.9	406	33.1	408	33.3	411	33.4	413	33.6	415	1 234
32.4	400	32.5	402	32.7	404	32.9	406	33.0	408	33.2	410	33.4	412	33.6	415	33.7	417	1 235
32.5	401	32.6	404	32.8	406	33.0	408	33.2	410	33.3	412	33.5	414	33.7	416	33.9	419	1 236
32.6	403	32.8	405	32.9	407	33.1	410	33.3	412	33.5	414	33.6	416	33.8	418	34.0	420	1 237
32.7	405	32.9	407	33.1	409	33.2	412	33.4	414	33.6	416	33.8	418	33.9	420	34.1	422	1 238
32.8	407	33.0	409	33.2	411	33.4	413	33.5	415	33.7	418	33.9	420	34.0	422	34.2	424	1 239
33.0	409	33.1	411	33.3	413	33.5	415	33.7	417	33.8	419	34.0	422	34.2	424	34.3	426	1 240
33.1	411	33.3	413	33.4	415	33.6	417	33.8	419	34.0	421	34.1	423	34.3	426	34.5	428	1 241
33.2	412	33.4	414	33.6	417	33.7	419	33.9	421	34.1	423	34.2	425	34.4	427	34.6	430	1 242
33.3	414	33.5	416	33.7	419	33.8	421	34.0	423	34.2	425	34.4	427	34.5	429	34.7	431	1 243
33.4	416	33.6	418	33.8	420	34.0	422	34.1	425	34.3	427	34.5	429	34.6	431	34.8	433	1 244
33.6	418	33.7	420	33.9	422	34.1	424	34.3	427	34.4	429	34.6	431	34.8	433	35.0	435	1 245
33.1	419	33.9	421	34.0	424	34.2	426	34.4	428	34.6	430	34.7	432	34.9	435	35.1	437	1 246
33.8	422	34.0	424	34.2	426	34.3	428	34.5	430	34.7	432	34.8	434	35.0	437	35.2	439	1 247
33.9	423	34.1	426	34.3	428	34.4	430	34.6	432	34.8	434	35.0	436	35.1	439	35.3	441	1 248

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 249	32.8	410	33.0	412	33.2	414	33.3	416	33.5	419	33.7	421	33.9	423
1 250	33.0	412	33.1	414	33.3	416	33.5	418	33.6	421	33.8	423	34.0	425
1 251	33.1	414	33.2	416	33.4	418	33.6	420	33.8	422	33.9	425	34.1	427
1 252	33.2	416	33.4	418	33.5	420	33.7	422	33.9	424	34.1	426	34.2	429
1 253	33.3	417	33.5	420	33.6	422	33.8	424	34.0	426	34.2	428	34.4	430
1 254	33.4	419	33.6	421	33.8	423	33.9	426	34.1	428	34.3	430	34.5	432
1 255	33.5	421	33.7	423	33.9	425	34.1	427	34.2	430	34.4	432	34.6	434
1 256	33.7	423	33.8	425	34.0	427	34.2	429	34.4	432	34.5	434	34.7	436
1 257	33.8	424	34.0	427	34.1	429	34.3	431	34.5	433	34.6	436	34.8	438
1 258	33.9	426	34.1	429	34.2	431	34.4	433	34.6	435	34.8	437	34.9	439
1 259	34.0	428	34.2	431	34.4	433	34.5	435	34.7	437	34.9	439	35.1	441
1 260	34.1	430	34.3	433	34.5	434	34.7	437	34.8	439	35.0	441	35.2	443
1 261	34.3	432	34.4	434	34.6	436	34.8	438	35.0	441	35.1	443	35.3	445
1 262	34.4	434	34.6	436	34.7	438	34.9	440	35.1	443	35.2	445	35.4	447
1 263	34.5	436	34.7	438	34.8	440	35.0	442	35.2	444	35.4	447	35.5	449
1 264	34.6	438	34.8	440	35.0	442	35.1	444	35.3	446	35.5	448	35.7	451
1 265	34.7	439	34.9	441	35.1	444	35.3	446	35.4	448	35.6	450	35.8	452
1 266	34.9	441	35.0	443	35.2	446	35.4	448	35.6	450	35.7	452	35.9	454
1 267	35.0	443	35.1	445	35.3	448	35.5	450	35.7	452	35.8	454	36.0	456
1 268	35.1	445	35.3	447	35.4	449	35.6	452	35.8	454	36.0	456	36.1	458
1 269	35.2	447	35.4	449	35.6	451	35.7	453	35.9	456	36.1	458	36.2	460
1 270	35.3	449	35.5	451	35.7	453	35.8	455	36.0	457	36.2	460	36.4	462
1 271	35.4	451	35.6	453	35.8	455	36.0	457	36.1	459	36.3	462	36.5	464
1 272	35.6	452	35.7	455	35.9	457	36.1	459	36.3	461	36.4	463	36.6	466
1 273	35.7	454	35.9	456	36.0	459	36.2	461	36.4	463	36.5	465	36.7	467
1 274	35.8	456	36.0	458	36.1	460	36.3	463	36.5	465	36.6	467	36.8	469
1 275	35.9	458	36.1	460	36.3	462	36.4	464	36.6	467	36.8	469	37.0	471
1 276	36.0	460	36.2	462	36.4	464	36.6	466	36.7	469	36.9	471	37.1	473
1 277	36.2	462	36.3	464	36.5	466	36.7	468	36.8	470	37.0	473	37.2	475
1 278	36.3	464	36.4	466	36.6	468	36.8	470	37.0	472	37.1	475	37.3	477
1 279	36.4	465	36.6	468	36.7	470	36.9	472	37.1	474	37.2	476	37.4	479
1 280	36.5	467	36.7	469	36.8	472	37.0	474	37.2	476	37.4	478	37.5	480
1 281	36.6	469	36.8	471	37.0	473	37.1	476	37.3	478	37.5	480	37.7	482
1 282	36.7	471	36.9	473	37.1	475	37.3	478	37.4	480	37.6	482	37.8	484
1 283	36.8	473	37.0	475	37.2	477	37.4	479	37.5	482	37.7	484	37.9	486
1 284	37.0	475	37.1	477	37.3	479	37.5	481	37.7	484	37.8	486	38.0	488

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
34.1	425	34.2	427	34.4	430	34.6	432	34.7	434	34.9	436	35.1	438	35.3	440	35.4	443	1 249
34.2	427	34.3	429	34.5	431	34.7	434	34.9	436	35.0	438	35.2	440	35.3	442	35.4	444	1 250
34.3	429	34.5	431	34.6	433	34.8	436	35.0	438	35.2	440	35.3	442	35.5	444	35.7	446	1 251
34.4	431	34.6	433	34.8	435	34.9	437	35.1	439	35.3	442	35.4	444	35.6	446	35.8	448	1 252
34.5	433	34.7	435	34.9	437	35.0	439	35.2	441	35.4	443	35.5	445	35.6	446	35.7	448	1 253
34.6	434	34.8	437	35.0	439	35.2	441	35.3	443	35.5	445	35.7	447	35.9	450	36.0	452	1 254
34.8	436	34.9	438	35.1	441	35.3	443	35.5	445	35.6	447	35.8	449	36.0	452	36.1	454	1 255
34.9	438	35.1	440	35.2	442	35.4	445	35.6	447	35.8	449	35.9	451	36.1	453	36.3	455	1 256
35.0	440	35.2	442	35.3	444	35.5	446	35.7	449	35.9	451	36.0	453	36.2	455	36.4	457	1 267
35.1	442	35.3	444	35.5	446	35.6	448	35.8	450	36.0	453	36.2	455	36.3	457	36.5	459	1 268
35.2	444	35.4	446	35.6	448	35.8	450	35.9	452	36.1	455	36.3	457	36.5	459	36.6	461	1 269
35.4	446	35.5	448	35.7	450	35.9	452	36.0	454	36.2	456	36.4	459	36.6	462	36.7	463	1 260
35.5	447	35.6	450	35.8	452	36.0	454	36.2	456	36.3	458	36.5	460	36.7	463	36.9	465	1 261
35.6	449	35.8	451	35.9	453	36.1	456	36.3	457	36.5	460	36.6	462	36.8	465	37.0	467	1 262
35.7	451	35.9	453	36.1	455	36.2	458	36.4	460	36.6	462	36.7	464	36.9	466	37.1	468	1 263
35.8	453	36.0	455	36.2	457	36.4	459	36.5	462	36.7	464	36.9	466	37.0	468	37.2	470	1 264
36.0	455	36.1	457	36.3	459	36.5	461	36.6	463	36.8	466	37.0	468	37.2	470	37.3	472	1 265
36.1	457	36.2	459	36.4	461	36.6	463	36.8	465	36.9	468	37.1	470	37.3	472	37.4	474	1 266
36.2	459	36.4	461	36.5	463	36.7	465	36.9	467	37.1	470	37.2	472	37.4	474	37.6	476	1 267
36.3	460	36.5	462	36.6	465	36.8	467	37.0	469	37.2	471	37.3	473	37.5	476	37.7	478	1 298
36.4	462	36.6	464	36.8	466	36.9	469	37.1	471	37.3	473	37.5	475	37.6	478	37.8	480	1 269
36.5	464	36.7	466	36.9	468	37.1	470	37.2	473	37.4	475	37.6	477	37.7	479	37.9	482	1 270
36.7	466	36.8	468	37.0	470	37.2	472	37.3	475	37.5	477	37.7	479	37.9	481	38.0	483	1 271
36.8	468	36.9	470	37.1	472	37.3	474	37.5	476	37.6	479	37.8	481	38.0	483	38.1	485	1 272
36.9	470	37.1	472	37.2	474	37.4	476	37.6	478	37.8	481	37.9	483	38.1	485	38.3	487	1 273
37.0	472	37.2	474	37.4	476	37.5	478	37.7	480	37.9	482	38.0	485	38.2	487	38.4	489	1 274
37.1	473	37.3	475	37.5	478	37.6	480	37.8	482	38.0	484	38.2	487	38.3	489	38.5	491	1 275
37.2	475	37.4	477	37.6	480	37.8	482	37.9	484	38.1	486	38.3	488	38.4	490	38.6	493	1 276
37.4	477	37.5	479	37.7	481	37.9	484	38.0	486	38.2	488	38.3	490	38.5	492	38.7	495	1 277
37.5	479	37.6	481	37.8	483	38.0	486	38.2	488	38.3	490	38.5	492	38.7	494	38.8	497	1 278
37.5	481	37.7	483	37.9	485	38.1	488	38.3	490	38.5	492	38.6	494	38.8	496	39.0	498	1 279
37.7	483	37.9	485	38.1	487	38.2	489	38.4	492	38.6	494	38.7	496	38.9	498	39.1	500	1 280
37.8	484	38.0	487	38.2	489	38.3	491	38.5	493	38.7	496	38.9	498	38.0	500	39.2	502	1 281
37.9	486	38.1	489	38.3	491	38.5	493	38.6	495	38.8	497	39.0	500	39.1	502	39.3	504	1 282
38.1	488	38.2	490	38.4	493	38.6	495	38.7	497	38.9	499	39.0	502	39.3	504	39.4	506	1 283
38.2	490	38.3	492	38.5	495	38.7	497	37.9	499	39.0	501	39.2	503	39.4	506	39.5	508	1 284

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 285	37.1	476	37.3	479	37.4	481	37.6	483	37.8	485	37.9	488	38.1	490
1 286	37.2	478	37.4	481	37.5	483	37.7	485	37.9	487	38.1	489	38.2	492
1 287	37.3	480	37.5	482	37.6	485	37.8	487	38.0	489	38.2	491	38.3	494
1 288	37.4	482	37.6	484	37.8	487	38.0	489	38.1	491	38.3	493	38.5	495
1 289	37.5	484	37.7	486	37.9	488	38.1	491	38.2	493	38.4	495	38.6	494
1 290	37.7	486	37.8	488	38.0	490	38.2	493	38.4	495	38.5	497	38.7	499
1 291	37.8	488	38.0	490	38.1	492	38.3	494	38.5	497	38.6	499	38.8	501
1 292	37.9	490	38.1	492	38.2	494	38.4	496	38.6	499	38.8	501	38.9	503
1 293	38.0	491	38.2	494	38.4	496	38.5	498	38.7	500	38.9	503	39.0	505
1 294	38.1	493	38.3	496	38.5	498	38.6	500	38.8	502	39.0	504	39.2	507
1 295	38.2	495	38.4	497	38.6	500	38.8	502	38.9	504	39.1	506	39.3	509
1 296	38.4	497	38.5	499	38.7	502	38.9	504	39.0	506	39.2	508	39.4	510
1 297	38.5	499	38.6	501	38.8	503	39.0	506	39.2	508	39.3	510	39.5	512
1 298	38.6	501	38.8	503	38.9	505	39.1	508	39.3	510	39.4	512	39.6	514
1 299	38.7	503	38.9	505	39.0	507	39.2	509	39.4	512	39.6	514	39.7	516
1 300	38.8	505	39.0	507	39.2	509	39.3	511	39.5	514	39.7	516	39.9	518
1 301	38.9	506	39.1	509	39.3	511	39.4	513	39.6	515	39.8	518	40.0	520
1 302	39.0	508	39.2	511	39.4	513	39.6	515	39.7	517	39.9	520	40.1	522
1 303	39.2	510	39.3	512	39.5	515	39.7	517	39.9	519	40.0	521	40.2	524
1 304	39.3	512	39.4	514	39.6	517	39.8	519	40.0	521	40.1	523	40.3	526
1 305	39.4	514	39.6	516	39.7	519	39.9	521	40.1	523	40.3	525	40.4	527
1 306	39.5	516	39.7	518	39.8	520	40.0	523	40.2	525	40.4	527	40.5	529
1 307	39.6	518	39.8	520	40.0	522	40.1	524	40.3	527	40.5	529	40.7	531
1 308	39.7	520	39.9	522	40.1	524	40.2	526	40.4	529	40.6	531	40.8	532
1 309	39.9	522	40.0	524	40.2	526	40.4	528	40.5	531	40.7	533	40.9	535
1 310	40.0	523	40.1	526	40.3	528	40.5	530	40.6	533	40.8	535	41.0	537
1 311	40.1	525	40.3	528	40.4	530	40.6	532	40.8	534	40.9	537	41.1	539
1 312	40.2	527	40.4	530	40.5	532	40.7	534	40.9	536	41.0	538	41.2	541
1 313	40.3	529	40.5	532	40.6	534	40.8	536	41.0	538	41.2	540	41.3	543
1 314	40.4	531	40.6	533	40.8	536	40.9	538	41.1	540	41.3	542	41.4	545
1 315	40.5	533	40.7	535	40.9	537	41.0	540	41.2	542	41.4	544	41.6	546
1 316	40.6	535	40.8	537	41.0	539	41.2	542	41.3	544	41.5	546	41.7	548
1 317	40.8	537	40.9	539	41.1	541	41.3	544	41.4	546	41.6	548	41.8	550
1 318	40.9	539	41.0	541	41.2	543	41.4	545	41.6	548	41.7	550	41.9	552
1 319	41.0	541	41.2	543	41.3	545	41.5	547	41.7	550	41.8	551	42.0	554
1 320	41.1	543	41.3	545	41.4	547	41.6	549	41.8	551	41.9	554	42.1	556

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
38.3	492	38.5	494	38.6	496	38.8	499	39.0	501	39.2	503	39.3	505	39.5	507	39.7	510	1 285
38.4	494	38.6	496	38.7	498	38.9	501	39.1	503	39.3	505	39.4	507	39.6	509	39.8	511	1 286
38.5	496	38.7	498	38.9	500	39.0	503	39.2	505	39.4	507	39.5	509	39.7	511	39.9	513	1 287
38.6	498	38.8	500	39.0	502	39.2	504	39.3	506	39.5	509	39.7	511	39.8	513	40.0	515	1 288
38.8	499	38.9	502	39.1	504	39.3	506	39.4	508	39.6	511	39.8	513	39.9	515	40.1	517	1 289
38.9	501	39.0	503	39.2	506	39.4	508	39.6	510	39.7	513	39.9	515	40.1	517	40.2	519	1 290
39.0	503	39.1	505	39.3	508	39.5	510	39.7	512	39.8	514	40.0	517	40.2	519	40.3	521	1 291
39.1	505	39.3	507	39.4	510	39.6	512	39.8	514	40.0	516	40.1	518	40.3	521	40.5	523	1 292
39.2	507	39.4	509	39.6	511	39.7	514	39.9	516	40.1	518	40.2	520	40.4	522	40.6	525	1 293
39.3	509	39.5	511	39.7	513	39.9	516	40.0	518	40.2	520	40.4	522	40.5	524	40.7	527	1 294
39.4	511	39.6	513	39.8	515	40.0	518	40.1	520	40.3	522	40.5	524	40.6	526	40.8	528	1 292
39.6	513	39.7	515	39.9	517	40.1	519	40.2	522	40.4	524	40.6	526	40.8	528	40.9	530	1 293
39.7	515	39.8	517	40.0	519	40.2	521	40.4	523	40.5	526	40.7	528	40.9	530	41.0	532	1 297
39.8	516	40.0	519	40.1	521	40.3	523	40.5	525	40.6	527	40.8	530	41.0	532	41.1	534	1 298
39.9	518	40.1	521	40.2	523	40.4	525	40.6	527	40.7	529	40.9	532	41.1	534	41.3	536	1 299
40.0	520	40.2	522	40.4	525	40.5	527	40.7	529	40.9	531	41.0	534	41.2	536	41.4	538	1 300
40.1	522	40.3	524	40.5	527	40.6	529	40.8	531	41.0	533	41.2	535	41.3	538	41.5	540	1 301
40.3	524	40.4	526	40.6	528	40.8	531	40.9	533	41.1	535	41.3	537	41.4	540	41.6	542	1 302
40.4	526	40.5	528	40.7	530	40.9	533	41.0	535	41.2	537	41.4	539	41.6	541	41.7	544	1 303
40.5	528	40.6	530	40.8	532	41.0	535	41.2	537	41.3	539	41.5	541	41.7	543	41.8	545	1 304
40.6	530	40.8	532	40.9	534	41.1	536	41.3	539	41.4	541	41.6	543	41.8	545	41.9	547	1 305
40.7	532	40.9	534	41.0	536	41.2	538	41.4	541	41.6	543	41.7	544	41.9	547	42.1	549	1 306
40.8	534	41.0	536	41.2	538	41.3	540	41.5	542	41.7	544	41.8	547	42.0	549	42.2	551	1 307
40.9	535	41.1	538	41.3	540	41.4	542	41.6	544	41.8	546	42.0	549	42.1	551	42.3	553	1 308
41.0	537	41.2	539	41.4	541	41.6	544	41.7	546	41.9	548	42.1	551	42.2	553	42.4	555	1 309
41.2	539	41.3	541	41.5	543	41.7	546	41.8	548	42.0	550	42.2	553	42.3	555	42.5	557	1 310
41.3	541	41.4	543	41.6	546	41.8	548	42.0	550	42.1	552	42.3	554	42.5	557	42.6	559	1 311
41.4	543	41.5	545	41.7	547	41.9	550	42.1	552	42.2	554	42.4	556	42.6	559	42.7	561	1 312
41.5	545	41.6	547	41.8	549	42.0	552	42.2	554	42.3	556	42.5	558	42.7	560	42.8	562	1 313
41.6	547	41.8	549	42.0	551	42.1	553	42.3	556	42.5	558	42.6	560	42.8	562	43.0	564	1 314
41.7	549	41.9	551	42.1	553	42.2	555	42.4	558	42.6	560	42.7	562	42.9	564	43.1	566	1 315
41.8	550	42.0	553	42.2	555	42.3	557	42.5	559	42.7	562	42.9	564	43.0	566	43.2	568	1 316
41.9	552	42.1	555	42.3	557	42.5	559	42.6	561	42.8	564	43.0	566	43.1	568	43.3	570	1 317
42.1	554	42.2	556	42.4	559	42.6	561	42.7	563	42.9	566	43.1	568	43.2	570	43.4	572	1 318
42.2	556	42.3	558	42.5	561	42.7	563	42.8	565	43.0	567	43.2	570	43.4	572	43.5	574	1 319
42.3	568	42.4	560	42.6	563	42.8	565	43.0	567	43.1	569	43.3	572	43.5	574	43.6	576	1 320

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 321	41.2	544	41.4	547	41.6	549	41.7	551	41.9	553	42.1	555	42.2	558
1 322	41.3	546	41.5	549	41.7	551	41.8	553	42.0	555	42.2	557	42.3	560
1 323	41.4	548	41.6	551	41.8	553	42.0	555	42.1	557	42.3	559	42.4	562
1 324	41.6	550	41.7	552	41.9	555	42.1	557	42.2	559	42.4	561	42.6	563
1 325	41.7	552	41.8	554	42.0	557	42.2	559	42.3	561	42.5	563	42.7	565
1 326	41.8	554	41.9	556	42.1	558	42.3	561	42.5	563	42.6	565	42.8	567
1 327	41.9	556	42.1	558	42.2	560	42.4	563	42.6	565	42.7	567	42.9	569
1 328	42.0	558	42.2	560	42.3	562	42.5	564	42.7	567	42.8	569	43.0	571
1 329	42.1	560	42.3	562	42.4	564	42.6	566	42.8	569	43.0	571	43.1	573
1 330	42.2	562	42.4	564	42.6	566	42.7	568	42.9	571	43.1	573	43.2	575
1 331	42.3	563	42.5	566	42.7	568	42.8	570	43.0	572	43.2	575	43.3	577
1 332	42.4	565	42.6	568	42.8	570	43.0	572	43.1	574	43.3	577	43.5	579
1 333	42.6	567	42.7	569	42.9	572	43.1	574	43.2	576	43.4	579	43.6	581
1 334	42.7	569	42.8	571	43.0	574	43.2	576	43.3	578	43.5	580	43.7	583
1 335	42.8	571	42.9	573	43.1	576	43.3	578	43.4	580	43.6	582	43.8	585
1 336	42.9	573	43.1	575	43.2	577	43.4	580	43.6	582	43.7	584	43.9	587
1 337	43.0	575	43.2	577	43.3	579	43.5	582	43.7	584	43.8	586	44.0	588
1 338	43.1	577	43.3	579	43.4	581	43.6	584	43.8	586	44.0	588	44.1	590
1 339	43.2	579	43.4	581	43.5	583	43.7	585	43.9	588	44.1	590	44.2	592
1 340	43.3	581	43.5	583	43.7	585	43.8	587	44.0	590	44.2	592	44.3	594
1 341	43.4	583	43.6	585	43.8	587	43.9	589	44.1	592	44.3	594	44.4	596
1 342	43.5	584	43.7	587	43.9	589	44.1	591	44.2	593	44.4	596	44.6	598
1 343	43.7	586	43.8	589	44.0	591	44.2	593	44.3	595	44.5	598	44.7	600
1 344	43.8	588	43.9	590	44.1	593	44.3	595	44.4	597	44.6	600	44.8	602
1 345	43.9	590	44.0	692	44.2	595	44.4	597	44.5	599	44.7	601	44.9	604
1 346	44.0	592	44.2	594	44.3	597	44.5	599	44.7	601	44.8	603	45.0	606
1 347	44.1	594	44.3	596	44.4	598	44.6	601	44.8	603	44.9	605	45.1	607
1 348	44.2	596	44.4	598	44.5	600	44.7	603	44.9	605	45.0	607	45.2	609
1 349	44.3	598	44.5	600	44.6	602	44.8	604	45.0	607	45.2	609	45.3	611
1 350	44.4	600	44.6	602	44.8	604	44.9	606	45.1	609	45.3	611	45.4	613
1 351	44.5	602	44.7	604	44.9	606	45.0	608	45.2	611	45.4	613	45.5	615
1 352	44.6	604	44.8	606	45.0	608	45.1	610	45.3	612	45.5	615	45.6	617
1 353	44.7	605	44.9	608	45.1	610	45.2	612	45.4	614	45.6	617	45.7	619
1 354	44.9	607	45.0	610	45.2	612	45.4	614	45.5	616	45.7	619	45.8	621
1 355	45.0	609	45.1	612	45.3	614	45.5	616	45.6	619	45.8	620	46.0	623
1 356	45.1	611	45.2	613	45.4	616	45.6	618	45.7	620	45.9	622	46.1	625

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
42.4	560	42.6	562	42.7	565	42.9	567	43.1	569	43.2	570	43.4	573	43.6	576	43.7	578	1 321
42.5	562	42.7	564	42.9	566	43.0	569	43.2	571	43.4	573	43.5	575	43.7	577	43.8	580	1 322
42.6	564	42.8	566	43.0	568	43.1	571	43.3	573	43.5	575	43.6	577	43.8	579	44.0	581	1 323
42.7	566	42.9	568	43.1	570	43.2	572	43.4	575	43.6	577	43.7	579	43.9	581	44.1	583	1 324
42.8	568	43.0	570	43.2	572	43.4	574	43.5	577	43.7	579	43.9	581	44.0	583	44.2	585	1 325
43.0	570	43.1	572	43.3	574	43.5	576	43.6	579	43.8	581	44.0	583	44.1	585	44.3	587	1 326
43.1	571	43.2	574	43.4	576	43.6	578	43.7	581	43.9	583	44.1	585	44.2	587	44.4	589	1 327
43.2	573	43.3	576	43.5	578	43.7	580	43.9	583	44.0	585	44.2	587	44.3	589	44.5	591	1 328
43.3	575	43.5	578	41.0	580	43.8	582	44.0	585	44.1	586	44.3	589	44.4	591	44.6	593	1 329
43.4	577	43.6	579	43.7	582	43.9	584	44.1	586	44.2	588	44.4	591	44.6	593	44.7	595	1 330
43.5	579	43.7	581	43.9	584	44.0	586	44.2	588	44.4	590	44.5	592	44.7	595	44.8	597	1 331
43.6	581	43.8	583	44.0	586	44.1	588	44.3	590	44.5	592	44.6	594	44.8	596	45.0	599	1 332
43.7	583	43.9	585	44.1	588	44.2	590	44.4	592	44.6	594	44.7	596	44.9	598	45.1	601	1 333
43.9	585	44.0	587	44.2	589	44.4	592	44.5	594	44.7	596	44.8	598	45.0	600	45.2	603	1 334
44.0	587	44.1	589	44.3	591	44.5	594	44.6	596	44.8	598	45.0	600	45.1	602	45.3	604	1 335
44.1	589	44.2	591	44.4	593	44.6	595	44.7	598	44.9	600	45.1	602	45.2	604	45.4	606	1 336
44.2	591	44.4	593	44.5	595	44.7	597	44.9	600	45.0	602	45.2	604	45.3	606	45.5	608	1 337
44.3	593	44.5	595	44.6	597	44.8	599	45.0	602	45.1	604	45.3	606	45.4	608	45.6	610	1 338
44.4	595	44.6	597	44.7	599	44.9	601	45.1	603	45.2	605	45.4	608	45.5	610	45.7	612	1 339
44.5	596	44.7	599	44.8	601	44.0	603	45.2	605	45.3	607	45.4	610	45.7	612	45.8	614	1 340
44.6	598	44.8	601	45.0	605	45.1	605	45.3	607	45.4	609	45.6	611	45.8	614	45.9	616	1 341
44.7	600	44.9	603	45.1	605	45.2	607	45.4	609	45.5	611	45.7	613	45.9	616	46.0	618	1 342
44.8	602	45.0	604	45.2	607	45.3	609	45.5	611	45.7	613	45.8	615	46.0	618	46.1	620	1 343
44.9	604	45.1	606	45.3	609	45.4	611	45.6	613	45.8	615	45.9	617	46.1	619	46.2	622	1 344
45.1	606	45.2	608	45.4	610	45.5	613	45.7	615	45.9	617	46.0	619	46.2	621	46.4	623	1 345
45.2	608	45.3	610	45.5	612	45.7	614	45.8	617	46.0	619	46.1	621	46.3	623	46.5	625	1 346
45.3	610	45.4	612	45.6	614	45.8	616	45.9	618	46.1	621	46.2	623	46.4	625	46.6	627	1 347
45.4	612	45.5	614	45.1	616	45.9	618	46.0	620	46.2	623	46.4	625	46.5	627	46.7	629	1 348
45.5	614	45.7	616	45.8	618	46.0	620	46.1	622	46.3	625	46.5	627	46.6	629	46.8	631	1 349
45.6	615	45.8	618	45.9	620	46.1	622	46.2	624	46.4	626	46.6	629	46.7	631	46.9	633	1 350
45.7	617	45.9	620	46.0	622	46.2	624	46.3	626	46.5	628	46.7	631	46.8	633	47.0	635	1 351
45.8	619	46.0	622	46.1	624	46.3	626	46.5	628	46.6	630	46.8	632	47.0	635	47.1	637	1 352
45.9	621	46.1	623	46.2	625	46.4	628	46.6	630	46.7	632	46.9	634	47.1	637	47.2	639	1 353
46.0	623	46.2	625	46.3	627	46.5	630	46.7	632	46.8	634	47.0	636	47.2	639	47.3	641	1 354
46.1	625	46.3	627	46.5	629	46.6	632	46.8	634	46.9	636	47.1	638	47.3	640	47.4	643	1 355
46.2	627	46.4	629	46.6	631	46.7	634	46.9	636	47.0	638	47.2	640	47.4	642	47.5	645	1 356

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 357	45.2	613	45.3	615	45.5	618	45.7	620	45.8	622	46.0	624	46.2	627
1 358	45.3	615	45.5	617	45.6	620	45.8	622	46.0	624	46.1	626	46.3	628
1 358	45.4	617	45.6	619	45.7	621	45.9	624	46.1	626	46.2	628	46.4	630
1 360	45.5	619	45.7	621	45.8	623	46.0	626	46.2	628	46.3	630	46.5	632
1 361	45.6	621	45.8	623	45.9	625	46.1	627	46.3	630	46.4	632	46.6	634
1 362	45.7	623	45.9	625	45.1	627	46.2	629	46.4	632	46.5	634	46.7	636
1 363	45.8	625	46.0	627	46.2	629	46.3	631	46.5	634	46.6	636	46.8	638
1 364	45.9	627	46.1	629	46.3	631	46.4	633	46.6	635	46.8	638	46.9	640
1 365	46.0	628	46.2	631	46.4	633	46.5	635	46.7	637	46.9	640	47.0	642
1 366	46.1	630	46.3	633	46.5	635	46.6	637	46.8	639	47.0	642	47.1	644
1 367	46.3	632	46.4	635	46.6	637	46.7	639	46.9	641	47.1	643	47.2	646
1 368	46.4	634	46.5	636	46.7	639	46.8	641	47.0	643	47.2	645	47.3	648
1 369	46.5	636	46.6	638	46.8	641	47.0	643	47.1	645	47.3	647	47.4	649
1 370	46.6	638	46.7	640	46.9	643	47.1	645	47.2	647	47.4	649	47.6	651
1 371	46.7	640	46.8	642	47.0	645	47.2	647	47.3	649	47.5	651	47.7	653
1 372	46.8	642	46.9	644	47.1	646	47.3	649	47.4	651	47.6	653	47.8	655
1 373	46.9	644	47.1	646	47.2	648	47.4	651	47.5	653	47.7	655	47.9	657
1 374	47.0	646	47.2	648	47.3	650	47.5	652	47.7	655	47.8	657	48.0	659
1 375	47.1	648	47.3	650	47.4	652	47.6	654	47.8	657	47.9	659	48.1	661
1 376	47.2	650	47.4	652	47.5	654	47.7	656	47.9	659	48.0	661	48.2	663
1 377	47.3	652	47.5	654	47.6	656	47.8	658	48.0	661	48.1	663	48.3	665
1 378	47.4	653	47.6	656	47.8	658	47.9	660	48.1	662	48.2	665	48.4	667
1 379	47.5	655	47.7	658	47.9	660	48.0	662	48.2	664	48.3	666	48.5	669
1 380	47.6	657	47.8	660	48.0	662	48.1	664	48.3	666	48.4	668	48.6	671
1 381	47.7	660	47.9	661	48.1	664	48.2	666	48.4	668	48.5	670	48.7	673
1 382	47.8	661	48.0	663	48.2	666	48.3	668	48.5	670	48.6	672	48.8	675
1 383	47.9	663	48.1	665	48.3	668	48.4	670	48.6	672	48.7	674	48.9	677
1 384	48.1	665	48.2	667	48.4	670	48.5	672	48.7	674	48.9	676	49.0	678
1 385	48.2	667	48.3	669	48.5	671	48.6	674	48.8	676	49.0	678	49.1	680
1 386	48.3	669	48.4	671	48.6	673	48.7	676	48.9	678	49.1	680	49.2	682
1 387	48.4	671	48.5	673	48.7	675	48.8	677	49.0	680	49.2	682	49.3	684
1 388	48.5	673	48.6	675	48.8	677	48.9	679	49.1	682	49.3	684	49.4	686
1 389	48.6	675	48.7	677	48.9	679	49.1	681	49.2	684	49.4	686	49.5	688
1 390	48.7	677	48.8	679	49.0	681	49.2	683	49.3	686	49.5	688	49.6	690
1 391	48.8	679	48.9	681	49.1	683	49.3	685	49.4	687	49.6	690	49.7	692
1 392	48.9	680	49.0	683	49.2	685	49.4	687	49.5	689	49.7	692	49.8	694

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
46.3	629	46.5	631	46.7	633	46.8	635	47.0	638	47.2	640	47.3	642	47.5	644	47.6	646	1 357
46.4	631	46.6	633	46.8	635	46.9	637	47.1	640	47.3	642	47.4	644	47.6	646	47.7	648	1 358
46.6	633	46.7	635	46.9	637	47.0	639	47.2	641	47.4	644	47.5	646	47.7	648	47.9	650	1 359
46.7	635	46.8	637	47.0	639	47.1	641	47.3	642	47.5	646	47.6	648	47.8	650	48.0	652	1 360
46.8	636	46.9	639	47.1	641	47.3	643	47.4	645	47.6	648	47.7	650	47.9	652	48.1	654	1 361
46.9	638	47.0	641	47.2	643	47.4	645	47.5	647	47.7	649	47.8	652	48.0	654	48.2	655	1 362
47.0	640	47.1	643	47.3	645	47.5	647	47.6	649	47.8	651	47.9	654	48.1	656	48.3	658	1 363
47.1	642	47.2	644	47.4	647	47.6	649	47.7	651	47.9	653	48.1	655	48.2	658	48.4	660	1 364
47.2	644	47.3	646	47.5	649	47.7	651	47.8	653	48.0	655	48.2	657	48.3	660	48.5	662	1 365
47.3	646	47.5	648	47.6	650	47.8	653	47.9	655	48.1	657	48.3	659	48.4	662	48.6	664	1 366
47.4	648	47.6	650	47.7	652	47.9	655	48.0	657	48.2	659	48.4	661	48.5	664	48.7	666	1 367
47.5	650	47.7	652	47.8	654	48.0	657	48.1	659	48.3	661	48.5	663	48.6	665	48.8	668	1 368
47.6	652	47.8	654	47.9	656	48.1	658	48.3	661	48.4	663	48.6	665	48.7	667	48.9	669	1 369
47.7	654	47.9	656	48.0	658	48.2	660	48.4	663	48.5	665	48.7	667	48.9	669	49.0	671	1 370
47.8	656	48.0	658	48.1	660	48.3	662	48.5	665	48.6	667	48.8	669	49.0	671	49.1	673	1 371
47.9	658	48.1	660	48.3	662	48.4	664	48.6	666	48.7	669	48.9	671	49.1	673	49.2	675	1 372
48.0	659	48.2	662	48.4	664	48.5	666	48.7	668	48.8	671	49.0	673	49.2	675	49.3	677	1 373
48.1	661	48.3	664	48.5	666	48.6	668	48.8	670	48.9	673	49.1	675	49.3	677	49.4	679	1 374
48.2	663	48.4	666	48.6	668	48.7	670	48.9	672	49.1	674	49.2	677	49.4	679	49.5	681	1 375
48.4	665	48.5	667	48.7	670	48.8	672	49.0	674	49.2	676	49.3	679	49.5	681	49.6	683	1 376
48.5	667	48.6	669	48.8	672	48.9	674	49.1	676	49.3	678	49.4	681	49.6	683	49.7	685	1 377
48.6	669	48.7	671	48.9	674	49.1	676	49.2	678	49.4	680	49.5	682	49.7	685	49.8	687	1 378
48.7	671	48.8	673	49.0	676	49.2	678	49.3	680	49.5	682	49.6	684	49.8	687	49.9	689	1 379
48.8	673	48.9	675	49.1	677	49.3	681	49.4	682	49.6	684	49.7	686	49.9	688	50.1	691	1 380
48.9	675	49.0	677	49.2	679	49.4	682	49.5	684	49.7	686	49.8	688	50.0	691	50.2	693	1 381
49.0	677	49.1	679	49.3	681	49.5	684	49.6	686	49.8	688	49.9	690	50.1	692	50.3	694	1 382
49.1	679	49.2	681	49.4	683	49.6	685	49.7	688	49.9	690	50.0	692	50.2	694	50.4	696	1 383
49.2	681	49.3	683	49.5	685	49.7	687	49.8	690	50.0	692	50.1	694	50.3	696	50.5	698	1 384
49.3	683	49.4	685	49.6	687	49.8	689	49.9	692	50.1	694	50.2	696	50.4	698	50.6	700	1 385
49.4	685	49.5	687	49.7	689	49.9	691	50.0	693	50.2	696	50.3	698	50.5	700	50.7	702	1 386
49.5	686	49.6	689	49.8	691	50.0	693	50.1	695	50.3	698	50.4	700	50.6	702	50.8	704	1 387
49.6	688	49.8	691	49.9	693	50.1	695	50.2	697	50.4	699	50.5	702	50.7	704	50.9	706	1 388
49.7	690	49.9	692	50.0	695	50.2	697	50.3	699	50.5	701	50.6	704	50.8	706	51.0	708	1 389
49.8	692	50.0	694	50.1	697	50.3	699	50.4	701	50.6	703	50.7	705	50.9	708	51.1	710	1 390
49.9	694	50.1	696	50.2	699	50.4	701	50.5	703	50.7	705	50.9	707	51.0	710	51.2	712	1 391
50.0	696	50.2	698	50.3	700	50.5	703	50.6	705	50.8	707	51.0	709	51.1	712	51.3	714	1 392

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 393	49.0	682	49.1	685	49.3	687	49.5	689	49.6	691	49.8	693	49.9	696
1 394	49.1	684	49.2	687	49.4	689	49.6	691	49.7	693	49.9	695	50.0	698
1 395	49.2	686	49.4	688	49.5	691	49.7	693	49.8	695	50.0	697	50.2	700
1 396	49.3	688	49.5	690	49.6	693	49.8	695	49.9	697	50.1	699	50.3	701
1 397	49.4	690	49.6	692	49.7	694	49.9	697	50.0	699	50.2	701	50.4	704
1 398	49.5	692	49.7	694	49.8	696	50.0	699	50.1	701	50.3	703	50.5	705
1 399	49.6	694	49.8	696	49.9	698	50.1	701	50.2	703	50.4	705	50.6	707
1 400	49.7	696	49.9	698	50.0	700	50.2	703	50.3	705	50.5	707	50.7	709
1 401	49.8	698	50.0	700	50.1	702	50.3	704	50.4	707	50.6	709	50.8	711
1 402	49.9	700	50.1	702	50.2	704	50.4	706	50.5	709	50.7	711	50.9	713
1 403	50.0	702	50.2	704	50.3	706	50.5	708	50.6	710	50.8	713	51.0	715
1 404	50.1	704	50.3	706	50.4	708	50.6	710	50.7	713	50.9	715	51.1	717
1 405	50.2	705	50.4	708	50.5	710	50.7	712	50.8	714	51.0	717	51.2	719
1 406	50.3	707	50.5	710	50.6	712	50.8	714	50.9	716	51.1	719	51.3	721
1 407	50.4	709	50.6	712	50.7	714	50.9	716	51.0	718	51.2	721	51.4	723
1 408	50.5	711	50.7	714	50.8	716	51.0	718	51.1	720	51.3	722	51.5	725
1 409	50.6	715	50.8	715	50.9	718	51.1	720	51.2	722	51.4	724	51.6	727
1 410	50.7	715	50.9	717	51.0	720	51.2	722	51.4	724	51.5	726	51.7	729
1 411	50.8	717	51.0	719	51.1	722	51.3	724	51.5	726	51.6	728	51.8	730
1 412	50.9	719	51.1	721	51.2	724	51.4	726	51.6	728	51.7	730	51.9	732
1 413	51.0	721	51.2	723	51.3	725	51.5	728	51.7	730	51.8	732	52.0	734
1 414	51.1	723	51.3	725	51.4	727	51.6	729	51.7	732	51.9	734	52.1	736
1 415	51.2	725	51.4	727	51.5	729	51.7	731	51.8	734	52.0	736	52.2	738
1 416	51.3	727	51.5	729	51.6	731	51.8	733	52.0	736	52.1	738	52.3	740
1 417	51.4	729	51.6	731	51.7	733	51.9	735	52.1	738	52.2	740	52.4	742
1 418	51.5	731	51.7	733	51.8	735	52.0	737	52.1	739	52.3	742	52.5	744
1 419	51.6	732	51.8	735	51.9	737	52.1	739	52.3	741	52.4	744	52.6	746
1 420	51.7	734	51.9	737	52.0	739	52.2	741	52.4	743	52.5	746	52.7	748
1 421	51.8	736	52.0	739	52.1	741	52.3	743	52.5	745	52.6	748	52.8	750
1 422	51.9	738	52.1	741	52.2	743	52.4	745	52.5	747	52.7	750	52.9	752
1 423	52.0	740	52.2	743	52.3	745	52.5	747	52.7	749	52.8	752	53.0	754
1 424	52.1	742	52.3	744	52.4	747	52.6	749	52.7	751	52.9	754	53.1	756
1 425	52.2	744	52.4	746	52.5	749	52.7	751	52.8	753	53.0	756	53.2	758
1 426	52.3	746	52.5	748	52.6	751	52.8	753	52.9	755	53.1	757	53.3	760
1 427	52.4	748	52.6	750	52.7	752	52.9	755	53.0	757	53.2	759	53.4	762
1 428	52.5	750	52.7	752	52.8	754	53.0	757	53.1	759	53.3	761	53.5	763

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
50.1	698	50.3	700	50.4	702	50.6	705	50.7	707	50.9	709	51.1	711	51.2	713	51.4	716	1 393
50.2	700	50.4	702	50.5	704	50.7	707	50.8	709	51.0	711	51.2	713	51.3	715	51.5	718	1 394
50.3	702	50.5	704	50.6	706	50.8	709	50.9	711	51.1	713	51.3	715	51.4	718	51.6	720	1 395
50.4	704	50.6	706	50.7	708	50.9	711	51.0	713	51.2	715	51.4	717	51.5	719	51.7	721	1 396
50.5	706	50.7	708	50.8	710	51.0	712	51.2	715	51.3	717	51.5	719	51.6	721	51.8	724	1 397
50.6	708	50.8	710	50.9	712	51.1	714	51.3	716	51.4	719	51.6	721	51.7	723	51.9	725	1 398
50.7	710	50.9	712	51.0	714	51.2	716	51.4	718	51.5	721	51.7	723	51.8	725	52.0	727	1 399
50.8	711	51.0	714	51.1	716	51.3	718	51.5	720	51.6	723	51.8	725	51.9	727	52.1	729	1 400
50.9	713	51.1	716	51.2	718	51.4	720	51.6	722	51.7	724	51.9	727	52.0	729	52.2	731	1 401
51.0	715	51.2	718	51.3	720	51.5	722	51.7	724	51.8	727	52.0	729	52.1	731	52.3	733	1 402
51.1	717	51.3	719	51.4	722	51.6	724	51.8	726	51.9	728	52.1	731	52.2	733	52.4	735	1 403
51.2	719	51.4	721	51.5	724	51.7	726	51.9	728	52.0	730	52.2	733	52.3	735	52.5	737	1 404
51.3	721	51.5	723	51.6	726	51.8	728	52.0	730	52.1	732	52.3	735	52.4	737	52.6	739	1 405
51.4	723	51.6	725	51.7	727	51.9	730	52.1	732	52.2	734	52.4	736	52.5	739	52.7	741	1 406
51.5	725	51.7	727	51.8	729	52.0	732	52.2	734	52.3	736	52.5	738	52.6	741	52.8	743	1 407
51.6	727	51.8	729	51.9	731	52.1	734	52.3	736	52.4	738	52.6	740	52.7	742	52.9	745	1 408
51.7	729	51.9	731	52.0	733	52.2	736	52.4	738	52.5	740	52.7	742	52.8	744	53.0	747	1 409
51.8	731	52.0	733	52.1	735	52.3	738	52.5	740	52.6	742	52.8	744	52.9	746	53.1	749	1 410
51.9	733	52.1	735	52.2	737	52.4	740	52.6	742	52.7	744	52.9	746	53.0	748	53.2	751	1 411
52.0	735	52.2	737	52.3	739	52.5	741	52.7	744	52.8	746	53.0	748	53.1	750	53.3	752	1 412
52.1	737	52.3	739	52.4	741	52.6	743	52.8	745	52.9	748	53.1	750	53.2	752	53.4	754	1 413
52.2	739	52.4	741	52.5	743	52.7	745	52.9	747	53.0	750	53.2	752	53.3	754	53.5	756	1 414
52.3	740	52.5	743	52.6	745	52.8	747	53.0	749	53.1	752	53.3	754	53.4	756	53.6	758	1 415
52.4	742	52.6	745	52.7	747	52.9	749	53.1	751	53.2	754	53.4	756	53.5	758	53.7	760	1 416
52.5	744	52.7	746	52.8	749	53.0	751	53.2	753	53.3	756	53.5	758	53.6	760	53.8	762	1 417
52.6	746	52.8	748	52.9	751	53.1	753	53.3	755	53.4	758	53.6	760	53.7	762	53.9	764	1 418
52.7	748	52.9	750	53.0	753	53.2	755	53.4	757	53.5	760	53.7	762	53.8	764	54.0	766	1 419
52.8	750	53.0	752	53.1	755	53.3	757	53.5	759	53.6	762	53.8	764	53.9	766	54.1	768	1 420
52.9	752	53.1	754	53.2	757	53.4	759	53.6	761	53.7	764	54.0	766	54.1	768	54.2	770	1 421
53.0	754	53.2	756	53.3	758	53.5	761	53.7	763	53.8	766	54.0	768	54.1	770	54.3	772	1 422
53.1	756	53.3	758	53.4	760	53.6	763	53.8	765	53.9	768	54.1	770	54.2	772	54.4	774	1 423
53.2	758	53.4	760	53.5	762	53.7	765	53.9	767	54.0	770	54.2	772	54.3	774	54.5	776	1 424
53.3	760	53.5	762	53.6	764	53.8	767	54.0	769	54.1	772	54.3	773	54.4	776	54.6	778	1 425
53.4	762	53.6	764	53.7	766	53.9	769	54.1	771	54.2	773	54.4	775	54.5	777	54.7	780	1 426
53.5	764	53.7	766	53.8	768	54.0	771	54.2	773	54.3	775	54.5	777	54.6	779	54.8	782	1 427
53.6	766	53.8	768	53.9	770	54.1	773	54.3	775	54.4	777	54.6	779	54.7	781	54.9	784	1 428

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 429	52.6	752	52.8	754	52.9	756	53.1	759	53.2	761	53.4	763	53.6	765
1 430	52.7	754	52.9	756	53.0	758	53.2	761	53.3	763	53.5	765	53.7	767
1 431	52.8	756	53.0	758	53.1	760	53.3	763	53.4	765	53.6	767	53.8	769
1 432	52.9	758	53.1	760	53.2	762	53.4	765	53.5	767	53.7	769	53.9	771
1 433	53.0	760	53.2	762	53.3	764	53.5	767	53.6	769	53.8	771	54.0	773
1 434	53.1	762	53.3	764	53.4	766	53.6	768	53.7	771	53.9	773	54.1	775
1 435	53.2	764	53.4	766	53.5	768	53.7	770	53.8	773	54.0	775	54.2	777
1 436	53.3	766	53.5	768	53.6	770	53.8	772	53.9	775	54.1	777	54.3	779
1 437	53.4	767	53.6	770	53.7	772	53.9	774	54.0	777	54.2	779	54.4	781
1 438	53.5	769	53.7	772	53.8	774	54.0	776	54.1	779	54.3	781	54.5	783
1 439	53.6	771	53.8	774	53.9	776	54.1	778	54.2	780	54.4	783	54.5	785
1 440	53.7	773	53.9	776	54.0	778	54.2	780	54.3	782	54.5	785	54.6	787
1 441	53.8	775	54.0	778	54.1	780	54.3	782	54.4	784	54.6	786	54.7	789
1 442	53.9	777	54.1	780	54.2	782	54.4	784	54.5	786	54.7	788	54.8	790
1 443	54.0	779	54.2	782	54.3	784	54.5	786	54.6	788	54.8	790	54.9	793
1 444	54.1	781	54.3	783	54.4	786	54.6	788	54.7	790	54.9	792	55.0	795
1 445	54.2	783	54.3	785	54.5	788	54.7	790	54.8	792	55.0	794	55.1	797
1 446	54.3	785	54.4	787	54.6	790	54.8	792	54.9	794	55.1	796	55.2	799
1 447	54.4	787	54.5	789	54.7	791	54.8	794	55.0	796	55.2	799	55.3	801
1 448	54.5	789	54.6	791	54.8	793	54.9	796	55.1	798	55.3	800	55.4	802
1 449	54.6	791	54.7	793	54.9	795	55.0	798	55.2	800	55.4	802	55.5	804
1 450	54.7	793	54.8	795	55.0	797	55.1	800	55.3	802	55.5	804	55.6	806
1 451	54.8	795	54.9	797	55.1	799	55.2	801	55.4	804	55.5	806	55.7	808
1 452	54.9	796	55.0	799	55.2	801	55.3	803	55.5	806	55.6	808	55.8	810
1 453	55.0	798	55.1	801	55.3	803	55.4	805	55.6	808	55.7	810	55.9	812
1 454	55.0	800	55.2	803	55.4	805	55.5	807	55.7	810	55.8	812	56.0	814
1 455	55.1	802	55.3	805	55.5	807	55.6	809	55.8	812	55.9	814	56.1	816
1 456	55.2	804	55.4	807	55.6	809	55.7	811	55.9	814	56.0	816	56.2	818
1 457	55.3	806	55.5	808	55.7	811	55.8	813	56.0	815	56.1	818	56.3	820
1 458	55.4	808	55.6	811	55.8	813	55.9	815	56.1	818	56.2	820	56.4	822
1 459	55.5	810	55.7	812	55.8	815	56.0	817	56.2	819	56.3	822	56.5	824
1 460	55.6	812	55.8	814	55.9	817	56.3	819	56.5	821	56.4	824	56.6	836
1 461	55.7	814	55.9	816	56.0	819	56.2	821	56.4	823	56.5	825	56.7	828
1 462	55.8	816	56.0	818	56.1	821	56.3	823	56.4	825	56.6	837	56.7	830
1 463	55.9	818	56.1	820	56.2	823	56.4	825	56.5	827	56.7	829	56.9	832
1 464	56.0	820	56.2	822	56.3	825	56.5	827	56.6	829	56.8	831	56.9	834

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
53.7	768	53.9	770	54.0	772	54.2	775	54.4	777	54.5	779	54.7	781	54.8	783	55.0	786	1 429
53.8	770	54.0	772	54.1	774	54.3	776	54.5	779	54.6	781	54.8	783	54.9	785	55.1	788	1 430
53.9	772	54.1	774	54.2	776	54.4	778	54.5	781	54.7	783	54.9	785	55.0	787	55.2	789	1 431
54.0	774	54.2	776	54.3	778	54.5	780	54.6	783	54.8	785	55.0	787	55.1	789	55.3	791	1 432
54.1	776	54.3	778	54.4	780	54.6	782	54.7	784	54.9	787	55.1	789	55.2	791	55.4	793	1 433
54.2	777	54.4	780	54.5	782	54.7	784	54.8	786	55.0	789	55.2	791	55.3	793	55.5	795	1 434
54.3	779	54.5	782	54.6	784	54.8	786	54.9	788	55.1	791	55.3	793	55.4	795	55.6	797	1 435
54.4	781	54.6	784	54.7	786	54.9	788	55.0	790	55.2	793	55.4	795	55.5	797	55.7	799	1 436
54.5	783	54.7	785	54.8	788	55.0	790	55.1	792	55.3	795	55.4	797	55.6	799	55.7	801	1 437
54.6	785	54.8	787	54.9	790	55.1	792	55.2	794	55.4	797	55.5	799	55.7	801	55.8	803	1 438
54.7	787	54.9	789	55.0	792	55.2	794	55.3	796	55.5	799	55.6	801	55.8	803	55.9	805	1 439
54.8	789	55.0	791	55.1	794	55.3	796	55.4	798	55.6	800	55.7	803	55.9	805	56.0	807	1 440
54.9	791	55.1	793	55.2	796	55.4	798	55.5	800	55.7	802	55.8	805	56.0	807	56.1	809	1 441
55.0	793	55.2	795	55.3	798	55.5	800	55.6	802	55.8	804	55.9	807	56.1	809	56.2	811	1 442
55.1	795	55.3	797	55.4	800	55.6	802	55.7	804	55.9	806	56.0	809	56.2	811	56.3	813	1 443
55.2	797	55.3	799	55.5	801	55.7	804	55.8	806	56.0	808	56.1	810	56.3	813	56.4	815	1 444
55.3	799	55.4	801	55.6	803	55.8	806	55.9	808	56.1	810	56.2	812	56.4	814	56.5	817	1 445
55.4	801	55.5	803	55.7	805	55.9	808	56.0	810	56.2	812	56.3	814	56.5	816	56.6	819	1 446
55.5	803	55.6	805	55.8	807	56.0	810	56.1	812	56.3	814	56.4	816	56.6	818	56.7	821	1 447
55.6	805	55.7	807	55.9	809	56.0	812	56.2	814	56.4	816	56.5	818	56.7	820	56.8	823	1 448
55.7	807	55.8	809	56.0	811	56.1	813	56.3	816	56.5	818	56.6	820	56.8	822	56.9	824	1 449
55.8	809	55.9	811	56.1	813	56.2	815	56.4	818	56.5	820	56.7	822	56.8	824	57.0	827	1 450
55.9	811	56.0	813	56.2	815	56.3	817	56.5	820	56.6	822	56.8	824	56.9	826	57.1	829	1 451
56.0	813	56.1	815	56.3	817	56.4	819	56.6	822	56.7	824	56.9	826	57.0	828	57.2	830	1 452
56.1	815	56.2	817	56.4	819	56.5	821	56.7	823	56.8	826	57.0	828	57.1	830	57.3	832	1 453
56.2	816	56.3	819	56.5	821	56.6	823	56.8	825	56.9	828	57.1	830	57.2	832	57.4	834	1 454
56.2	818	56.4	821	56.6	823	56.7	825	56.9	827	57.0	830	57.2	832	57.3	834	57.5	836	1 455
56.3	820	56.5	822	56.7	825	56.8	827	57.0	829	57.1	832	57.3	834	57.4	836	57.6	838	1 456
56.4	822	56.6	825	56.8	827	56.9	829	57.1	831	57.2	834	57.4	836	57.5	838	57.7	840	1 457
56.5	824	56.7	826	56.8	829	57.0	831	57.2	833	57.3	836	57.5	838	57.6	840	57.8	842	1 458
56.6	826	56.8	828	56.9	831	57.1	833	57.2	835	57.4	838	57.6	840	57.7	842	57.9	844	1 459
56.7	828	56.9	830	57.0	833	57.2	835	57.3	837	57.5	840	57.7	842	57.8	844	58.0	846	1 460
56.8	830	57.0	832	57.1	835	57.3	837	57.4	839	57.6	842	57.7	844	57.9	846	58.1	848	1 461
56.9	832	57.1	834	57.2	837	57.4	839	57.5	841	57.7	844	57.8	846	58.0	848	58.2	850	1 462
57.0	834	57.2	836	57.3	839	57.5	841	57.6	843	57.8	845	57.9	848	58.1	850	58.2	852	1 463
57.1	836	57.3	838	57.4	841	57.6	843	57.7	845	57.9	848	58.0	850	58.2	852	58.3	854	1 464

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 465	56.1	822	56.3	824	56.4	827	56.6	829	56.7	831	56.9	833	57.0	836
1 466	56.2	824	56.3	826	56.5	828	56.7	831	56.8	833	57.0	835	57.1	838
1 467	56.3	826	56.4	828	56.6	830	56.8	833	56.9	835	57.1	837	57.2	840
1 468	56.4	828	56.5	830	56.7	832	56.9	835	57.0	837	57.2	839	57.3	841
1 469	56.5	830	56.6	832	56.8	834	57.0	837	57.1	839	57.3	841	57.4	843
1 470	56.6	832	56.7	834	56.9	836	57.0	839	57.2	841	57.4	843	57.5	845
1 471	56.7	833	56.8	836	57.0	838	57.1	841	57.3	843	57.5	845	57.6	847
1 472	56.8	835	56.9	838	57.1	840	57.2	842	57.4	845	57.5	847	57.7	849
1 473	56.8	837	57.0	840	57.2	842	57.3	844	57.5	847	57.6	849	57.8	851
1 474	56.9	839	57.1	842	57.3	844	57.4	846	57.6	849	57.7	851	57.9	853
1 475	57.0	841	57.2	844	57.4	846	57.5	848	57.7	851	57.8	853	58.0	855
1 476	57.1	843	57.3	846	57.5	848	57.6	850	57.8	853	57.9	855	58.1	857
1 477	57.2	845	57.4	848	57.6	850	57.7	852	57.9	855	58.0	857	58.2	859
1 478	57.3	847	57.5	850	57.7	852	57.8	854	58.0	857	58.1	859	58.3	861
1 479	57.4	849	57.6	852	57.7	854	57.9	856	58.1	859	58.2	861	58.4	863
1 480	57.5	851	57.7	854	57.8	856	58.0	858	58.2	861	58.3	863	58.5	865
1 481	57.6	853	57.8	856	57.9	858	58.1	860	58.2	863	58.4	865	58.5	867
1 482	57.7	855	57.9	857	58.0	860	58.2	862	58.3	864	58.5	867	58.6	869
1 483	57.8	857	58.0	859	58.1	862	58.3	864	58.4	867	58.6	869	58.7	871
1 484	57.9	859	58.0	861	58.2	864	58.4	866	58.5	868	58.7	871	58.8	873
1 485	58.0	861	58.1	863	58.3	866	58.5	868	58.6	871	58.8	873	58.9	875
1 486	58.1	863	58.2	865	58.4	868	58.6	870	58.7	872	58.9	875	59.0	877
1 487	58.2	865	58.3	867	58.5	870	58.6	872	58.8	874	59.0	877	59.1	879
1 488	58.3	867	58.4	869	58.6	872	58.7	874	58.9	876	59.0	879	59.2	881
1 489	58.4	869	58.5	871	58.7	874	58.8	876	59.0	878	59.1	881	59.3	883
1 490	58.4	871	58.6	873	58.8	876	58.9	878	59.1	880	59.2	883	59.4	885
1 491	58.5	873	58.7	875	58.9	878	59.0	880	59.2	882	59.3	884	59.5	887
1 492	58.6	875	58.8	877	59.0	880	59.1	882	59.3	884	59.4	887	59.6	889
1 493	58.7	877	58.9	879	59.0	882	59.2	884	59.4	886	59.5	888	59.7	891
1 494	58.8	879	59.0	881	59.1	884	59.3	886	59.4	888	59.6	890	59.8	893
1 495	58.9	881	59.1	883	59.2	885	59.4	888	59.5	890	59.7	892	59.9	895
1 496	59.0	883	59.2	885	59.3	888	59.5	890	59.6	892	59.8	894	59.9	897
1 497	59.1	885	59.3	887	59.4	890	59.6	892	59.7	894	59.9	896	60.0	899
1 498	59.2	887	59.4	889	59.5	891	59.7	894	59.8	896	60.0	898	60.1	901
1 499	59.3	889	59.5	891	59.6	894	59.8	896	59.9	898	60.1	900	60.2	903
1 500	59.4	891	59.5	893	59.7	896	59.9	898	60.0	900	60.2	902	60.3	905

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
57.2	838	57.4	840	57.5	843	57.7	845	57.8	847	58.0	849	58.1	852	58.3	854	58.4	856	1 465
57.3	840	57.4	842	57.6	845	57.8	847	57.9	849	58.1	851	58.2	854	58.4	856	58.5	858	1 466
57.4	842	57.5	844	57.7	846	57.9	849	58.0	851	58.2	853	58.3	856	58.5	858	58.6	860	1 467
57.5	844	57.6	846	57.8	849	58.0	851	58.1	853	58.3	855	58.4	858	58.6	860	58.7	862	1 468
57.6	846	57.7	848	57.9	850	58.0	853	58.2	855	58.4	857	58.5	860	58.7	862	58.8	864	1 469
57.7	848	57.8	850	58.0	852	58.1	855	58.3	857	58.5	859	58.6	862	58.8	864	58.9	866	1 470
57.8	850	57.9	852	58.1	854	58.2	857	58.4	859	58.5	861	58.7	863	58.9	866	59.0	868	1 471
57.9	852	58.0	854	58.2	856	58.3	859	58.5	861	58.6	863	58.8	866	58.9	868	59.1	870	1 472
57.9	854	58.1	856	58.3	858	58.4	861	58.6	863	58.7	865	58.9	867	59.0	870	59.2	872	1 473
58.0	856	58.2	858	58.4	860	58.5	863	58.7	865	58.8	867	59.0	870	59.1	872	59.3	874	1 474
58.1	858	58.3	860	58.5	862	58.6	864	58.8	867	58.9	869	59.1	871	59.2	874	59.4	876	1 475
58.2	860	58.4	862	58.6	864	58.7	867	58.9	869	59.0	871	59.2	873	59.3	876	59.5	878	1 476
58.3	862	58.5	864	58.6	866	58.8	868	59.0	871	59.1	873	59.3	875	59.4	878	59.6	880	1 477
58.4	864	58.6	866	58.7	868	58.9	871	59.1	873	59.2	875	59.4	877	59.5	880	59.7	882	1 478
58.5	866	58.7	868	58.8	870	59.0	872	59.1	875	59.3	877	59.5	879	59.6	881	59.8	884	1 479
58.6	867	58.8	870	58.9	872	59.1	874	59.2	877	59.4	879	59.5	881	59.7	883	59.9	886	1 480
58.7	869	58.9	872	59.0	874	59.2	876	59.3	879	59.5	881	59.6	883	59.8	885	59.9	888	1 481
58.8	871	59.0	874	59.1	876	59.3	878	59.4	881	59.6	883	59.7	885	59.9	887	60.0	890	1 482
58.9	873	59.1	876	59.2	878	59.4	880	59.5	883	59.7	885	59.8	887	60.0	889	60.1	892	1 483
59.0	875	59.1	878	59.3	880	59.5	882	59.6	885	59.8	887	59.9	889	60.1	891	60.2	894	1 484
59.1	877	59.2	880	59.4	882	59.6	884	59.7	887	59.8	889	60.0	891	60.2	893	60.3	896	1 485
59.2	879	59.3	882	59.5	884	59.6	886	59.8	888	59.9	891	60.1	893	60.3	895	60.4	898	1 486
59.3	881	59.4	884	59.6	886	59.7	888	59.9	891	60.0	893	60.2	895	60.3	897	60.5	900	1 487
59.4	883	59.5	886	59.7	888	59.8	890	60.0	893	60.1	895	60.3	897	60.4	899	60.6	902	1 488
59.5	885	59.6	888	59.8	890	59.9	892	60.1	895	60.2	897	60.4	899	60.5	901	60.7	904	1 489
59.5	887	59.7	890	59.9	892	60.0	894	60.2	897	60.3	899	60.5	901	60.6	903	60.8	906	1 490
59.6	889	59.8	892	60.0	894	60.1	896	60.3	898	60.4	901	60.6	903	60.7	905	60.9	908	1 491
59.7	891	59.9	894	60.0	896	60.2	899	60.4	900	60.5	903	60.7	905	60.8	907	61.0	910	1 492
59.8	893	60.0	896	60.1	898	60.3	900	60.4	903	60.6	905	60.8	907	60.9	910	61.1	912	1 493
59.9	895	60.1	897	60.2	900	60.4	902	60.5	904	60.7	907	60.8	909	61.0	911	61.2	914	1 494
60.0	897	60.2	900	60.3	902	60.5	904	60.6	906	60.8	909	60.9	911	61.1	913	61.2	916	1 495
60.1	899	60.3	901	60.4	904	60.6	906	60.7	909	60.9	911	61.0	913	61.2	915	61.3	918	1 496
60.2	901	60.4	903	60.5	906	60.7	908	60.8	910	61.0	913	61.1	915	61.3	917	61.4	920	1 497
60.3	903	60.4	905	60.6	908	60.8	910	60.9	912	61.1	915	61.2	917	61.4	919	61.5	922	1 498
60.4	905	60.5	907	60.7	910	60.9	912	61.0	915	61.2	917	61.3	919	61.5	921	61.6	924	1 499
60.5	907	60.6	909	60.8	912	60.9	914	61.1	917	61.2	919	61.4	921	61.6	923	61.7	926	1 500

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 501	59.5	893	59.6	895	59.8	897	59.9	900	60.1	902	60.3	904	60.4	907
1 502	59.6	895	59.7	897	59.9	900	60.0	902	60.2	904	60.3	906	60.5	909
1 503	59.7	897	59.8	899	60.0	901	60.1	904	60.3	906	60.4	908	60.6	911
1 504	59.8	899	59.9	901	60.1	903	60.2	906	60.4	908	60.5	910	60.7	913
1 505	59.8	901	60.0	903	60.2	905	60.3	908	60.5	910	60.6	912	60.8	915
1 506	59.9	903	60.1	905	60.3	907	60.4	910	60.5	912	60.7	914	60.9	917
1 507	60.0	905	60.2	907	60.3	909	60.5	912	60.6	914	60.8	916	61.0	919
1 508	60.1	907	60.3	909	60.4	911	60.6	914	60.7	916	60.9	918	61.1	921
1 509	60.2	909	60.4	911	60.5	913	60.7	916	60.8	918	61.0	920	61.1	923
1 510	60.3	911	60.5	913	60.6	915	60.8	918	60.9	920	61.1	922	61.2	925
1 511	60.4	912	60.6	915	60.7	917	60.9	920	61.0	922	61.2	924	61.3	927
1 512	60.5	914	60.7	917	60.8	919	61.0	922	61.1	924	61.3	926	61.4	929
1 513	60.6	916	60.7	919	60.9	921	61.1	924	61.2	926	61.4	928	61.5	931
1 514	60.7	918	60.8	921	61.0	923	61.1	926	61.3	928	61.5	930	61.6	933
1 515	60.8	920	60.9	923	61.1	925	61.2	928	61.4	930	61.5	932	61.7	935
1 516	60.8	922	61.0	925	61.2	927	61.3	930	61.5	932	61.6	934	61.8	937
1 517	60.9	924	61.1	927	61.3	929	61.4	932	61.6	934	61.7	936	61.9	939
1 518	61.0	926	61.2	929	61.3	931	61.5	934	61.7	936	61.8	938	62.0	941
1 519	61.1	928	61.3	931	61.4	933	61.6	936	61.7	938	61.9	940	62.1	943
1 520	61.2	930	61.4	933	61.5	935	61.7	938	61.8	940	62.0	942	62.2	945
1 521	61.3	932	61.5	935	61.6	937	61.8	940	61.9	942	62.1	944	62.2	947
1 522	61.4	934	61.6	937	61.7	939	61.9	942	62.0	944	62.2	946	62.3	949
1 523	61.5	936	61.6	939	61.8	941	62.0	944	62.1	946	62.3	948	62.4	951
1 524	61.6	938	61.7	941	61.9	943	62.0	946	62.2	948	62.4	950	62.5	953
1 525	61.7	940	61.8	943	62.0	945	62.1	948	62.3	950	62.5	952	62.6	955
1 526	61.8	942	61.9	945	62.1	947	62.2	950	62.4	952	62.5	954	62.7	957
1 527	61.8	944	62.0	947	62.2	949	62.3	952	62.5	954	62.6	957	62.8	959
1 528	61.9	946	62.1	949	62.3	951	62.4	954	62.6	956	62.7	959	62.9	961
1 529	62.0	948	62.2	951	62.3	953	62.5	956	62.7	958	62.8	961	63.0	963
1 530	62.1	950	62.3	953	62.4	955	62.6	958	62.8	960	62.9	963	63.1	965
1 531	62.2	952	62.4	955	62.5	957	62.7	960	62.8	962	63.0	965	63.2	967
1 532	62.3	954	62.5	957	62.6	959	62.8	962	62.9	964	63.1	967	63.2	969
1 533	62.4	956	62.5	959	62.7	961	62.9	964	63.0	966	63.2	969	63.3	971
1 534	62.5	958	62.6	961	62.8	963	63.0	966	63.1	968	63.3	971	63.4	973
1 535	62.6	960	62.7	963	62.9	965	63.0	968	63.2	970	63.4	973	63.5	975
1 536	62.7	962	62.8	965	63.0	967	63.1	970	63.3	972	63.5	975	63.6	977

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
60.6	909	60.7	911	60.9	914	61.0	916	61.2	918	61.3	921	61.5	923	61.7	925	61.8	928	1 501
60.7	911	60.8	913	61.0	916	61.1	918	61.3	920	61.4	923	61.6	925	61.7	927	61.9	930	1 502
60.8	913	60.9	915	61.1	918	61.2	920	61.4	922	61.5	925	61.7	927	61.8	929	62.0	932	1 503
60.8	915	61.0	917	61.2	920	61.3	922	61.5	925	61.6	927	61.8	929	61.9	931	62.1	934	1 504
60.9	917	61.1	919	61.2	922	61.4	924	61.6	926	61.7	929	61.9	931	62.0	933	62.2	936	1 505
61.0	919	61.2	921	61.3	924	61.5	926	61.7	928	61.8	931	62.0	933	62.1	935	62.3	938	1 506
61.1	921	61.3	923	61.4	926	61.6	928	61.7	930	61.9	933	62.1	935	62.2	937	62.4	940	1 507
61.2	923	61.4	925	61.5	928	61.7	930	61.8	932	62.0	935	62.1	937	62.3	939	62.4	942	1 508
61.3	925	61.5	927	61.6	930	61.8	932	61.9	935	62.1	937	62.2	939	62.4	941	62.5	944	1 509
61.4	927	61.6	929	61.7	932	61.9	934	62.0	937	62.2	939	62.3	941	62.5	943	62.6	946	1 510
61.5	929	61.6	931	61.8	934	62.0	936	62.1	938	62.3	941	62.4	943	62.6	945	62.7	948	1 511
61.6	931	61.7	933	61.9	936	62.0	938	62.2	940	62.4	943	62.5	945	62.7	947	62.8	950	1 512
61.7	933	61.8	935	62.0	938	62.1	940	62.3	942	62.4	945	62.6	947	62.8	949	62.9	952	1 513
61.8	935	61.9	937	62.0	940	62.2	942	62.4	944	62.5	947	62.7	949	62.8	951	63.0	954	1 514
61.9	937	62.0	939	62.2	942	62.3	944	62.5	946	62.6	949	62.8	951	62.9	953	63.1	956	1 515
61.9	939	62.1	941	62.3	944	62.4	946	62.6	948	62.7	951	62.9	953	63.0	956	63.2	958	1 516
62.0	941	62.2	943	62.3	946	62.5	948	62.7	950	62.8	953	63.0	955	63.1	958	63.3	960	1 517
62.1	943	62.3	945	62.4	948	62.6	950	62.7	952	62.9	955	63.1	957	63.2	960	63.4	962	1 518
62.2	945	62.4	947	62.5	950	62.7	952	62.8	955	63.0	957	63.2	959	63.3	962	63.5	964	1 519
62.3	947	62.5	949	62.6	952	62.8	954	62.9	957	63.1	959	63.2	961	63.4	964	63.5	966	1 520
62.4	949	62.6	951	62.7	954	62.9	956	63.0	959	63.2	961	63.3	963	63.5	966	63.6	968	1 521
62.5	951	62.6	954	62.8	956	63.0	958	63.1	961	63.3	963	63.4	965	63.6	968	63.7	970	1 522
62.6	953	62.7	956	62.9	958	63.0	960	63.2	963	63.4	965	63.5	967	63.7	970	63.8	972	1 523
62.7	955	62.8	958	63.0	960	63.1	962	63.3	965	63.5	967	63.6	969	63.8	972	63.9	974	1 524
62.8	957	62.9	960	63.1	962	63.2	964	63.4	967	63.5	969	63.7	971	63.8	974	64.0	976	1 525
62.9	959	63.0	962	63.2	964	63.3	966	63.5	969	63.6	971	63.8	973	63.9	976	64.1	978	1 526
62.9	961	63.1	964	63.3	966	63.4	968	63.6	971	63.7	973	63.9	975	64.0	978	64.2	980	1 527
63.0	963	63.2	966	63.3	968	63.5	970	63.6	973	63.8	975	64.0	977	64.1	980	64.3	982	1 528
63.1	965	63.3	968	63.4	970	63.6	972	63.7	975	63.9	977	64.1	979	64.2	982	64.4	984	1 529
63.2	967	63.4	970	63.5	972	63.7	974	63.8	977	64.0	979	64.1	981	64.3	984	64.5	986	1 530
63.3	969	63.5	972	63.6	974	63.8	976	63.9	979	64.1	981	64.2	983	64.4	986	64.5	988	1 531
63.4	971	63.6	974	63.7	976	63.9	978	64.0	981	64.2	983	64.3	985	64.5	988	64.6	990	1 532
63.5	973	63.6	976	63.8	978	64.0	980	64.1	983	64.3	985	64.4	987	64.6	990	64.7	992	1 533
63.6	975	63.7	978	63.9	980	64.0	982	64.2	985	64.4	987	64.5	989	64.7	992	64.8	994	1 534
63.7	977	63.8	980	64.0	982	64.1	984	64.3	987	64.4	989	64.6	991	64.7	994	64.9	996	1 535
63.8	979	63.9	982	64.1	984	64.2	986	64.4	989	64.5	991	64.7	993	64.8	996	65.0	998	1 536

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 537	62.7	964	62.9	967	63.1	969	63.2	972	63.4	974	63.5	977	63.7	979
1 538	62.8	966	63.0	969	63.2	971	63.3	974	63.5	976	63.6	979	63.8	981
1 539	62.9	968	63.1	971	63.2	973	63.4	976	63.6	978	63.7	981	63.9	983
1 540	63.0	971	63.2	973	63.3	975	63.5	978	63.7	980	63.8	983	64.0	985
1 541	63.1	973	63.3	975	63.4	977	63.6	980	63.7	982	63.9	985	64.1	987
1 542	63.2	975	63.4	977	63.5	979	63.7	982	63.8	984	64.0	987	64.1	989
1 543	63.3	976	63.4	979	63.6	982	63.8	984	63.9	986	64.1	989	64.2	991
1 544	63.4	978	63.5	981	63.7	984	63.8	986	64.0	988	64.2	991	64.3	993
1 545	63.5	980	63.6	983	63.8	986	63.9	988	64.1	990	64.3	993	64.4	995
1 546	63.6	982	63.7	985	63.9	988	64.0	990	64.2	992	64.3	995	64.5	997
1 547	63.6	985	63.8	987	64.0	989	64.1	992	64.3	994	64.4	997	64.6	999
1 548	63.7	987	63.9	989	64.1	991	64.2	994	64.4	996	64.5	999	64.7	1 001
1 549	63.8	989	64.0	991	64.1	994	64.3	996	64.5	998	64.6	1 001	64.8	1 003
1 550	63.9	991	64.1	993	64.2	996	64.4	998	64.5	1 001	64.7	1 003	64.9	1 005
1 551	64.0	993	64.2	995	64.3	998	64.5	1 000	64.6	1 003	64.8	1 005	64.9	1 007
1 552	64.1	995	64.2	997	64.4	1 000	64.6	1 002	64.7	1 005	64.9	1 007	65.0	1 009
1 553	64.2	997	64.3	999	64.5	1 002	64.7	1 004	64.8	1 006	65.0	1 009	65.1	1 011
1 554	64.3	999	64.4	1 001	64.6	1 004	64.7	1 006	64.9	1 009	65.1	1 011	65.2	1 013
1 555	64.4	1 001	64.5	1 003	64.7	1 006	64.8	1 008	65.0	1 011	65.2	1 013	65.3	1 015
1 556	64.4	1 003	64.6	1 005	64.8	1 008	64.9	1 010	65.1	1 013	65.2	1 015	65.4	1 017
1 557	64.5	1 005	64.7	1 007	64.8	1 010	65.0	1 012	65.2	1 015	65.3	1 017	65.5	1 020
1 558	64.6	1 007	64.8	1 009	64.9	1 012	65.1	1 014	65.3	1 017	65.4	1 019	65.6	1 022
1 559	64.7	1 009	64.9	1 011	65.0	1 014	65.2	1 016	65.3	1 019	65.5	1 021	65.7	1 023
1 560	64.8	1 011	65.0	1 013	65.1	1 016	65.3	1 018	65.4	1 021	65.6	1 023	65.7	1 026
1 561	64.9	1 033	65.0	1 015	65.2	1 018	65.4	1 020	65.5	1 023	65.7	1 025	65.8	1 028
1 562	65.0	1 015	65.1	1 017	65.3	1 020	65.5	1 022	65.6	1 025	65.8	1 027	65.9	1 030
1 563	65.1	1 017	65.2	1 019	65.4	1 022	65.5	1 024	65.7	1 027	65.9	1 029	66.0	1 032
1 564	65.2	1 019	65.3	1 021	65.5	1 024	65.6	1 026	65.8	1 029	65.9	1 031	66.1	1 034
1 565	65.2	1 021	65.4	1 024	65.6	1 026	65.7	1 029	65.9	1 031	66.0	1 033	66.2	1 036
1 566	65.3	1 023	65.5	1 026	65.6	1 028	65.8	1 030	66.0	1 033	66.1	1 035	66.3	1 038
1 567	65.4	1 025	65.6	1 027	65.7	1 030	65.9	1 032	66.1	1 035	66.2	1 038	66.4	1 040
1 568	65.5	1 027	65.7	1 030	65.8	1 032	66.0	1 035	66.1	1 037	66.3	1 040	66.4	1 042
1 569	65.6	1 029	65.7	1 032	65.9	1 034	66.1	1 037	66.2	1 039	66.4	1 042	66.5	1 044
1 570	65.7	1 031	65.8	1 034	66.0	1 036	66.2	1 039	66.3	1 041	66.5	1 044	66.6	1 046
1 571	65.8	1 033	65.9	1 036	66.1	1 038	66.2	1 041	66.4	1 043	66.6	1 046	66.7	1 048
1 572	65.9	1 035	66.0	1 038	66.2	1 040	66.3	1 043	66.5	1 045	66.6	1 048	66.8	1 050

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m^3) at a temperature t (in $^{\circ}\text{C}$) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 $^{\circ}\text{F}$ relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H_2SO_4 in 100 g mass of solution.

G is the mass (in g) of H_2SO_4 in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 $^{\circ}\text{C}$		26 $^{\circ}\text{C}$		28 $^{\circ}\text{C}$		30 $^{\circ}\text{C}$		32 $^{\circ}\text{C}$		34 $^{\circ}\text{C}$		36 $^{\circ}\text{C}$		38 $^{\circ}\text{C}$		40 $^{\circ}\text{C}$		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
63.9	981	64.0	984	64.2	986	64.3	988	64.5	991	64.6	993	64.8	996	64.9	998	65.1	1 000	1 537
63.9	983	64.1	986	64.3	988	64.4	990	64.6	993	64.7	995	64.9	998	65.0	1 000	65.2	1 002	1 538
64.0	985	64.2	988	64.3	990	64.5	993	64.6	995	64.8	997	65.0	1 000	65.1	1 002	65.3	1 004	1 539
64.1	987	64.3	990	64.4	992	64.6	995	64.7	997	64.9	999	65.0	1 002	65.2	1 004	65.3	1 006	1 540
64.2	989	64.4	992	64.5	994	64.7	997	64.8	999	65.0	1 001	65.1	1 004	65.3	1 006	65.4	1 008	1 541
64.3	991	64.4	994	64.6	996	64.8	999	64.9	1 001	65.1	1 003	65.2	1 006	65.4	1 008	65.5	1 010	1 542
64.3	993	64.5	996	64.7	998	64.9	1 000	65.0	1 003	65.2	1 005	65.3	1 008	65.5	1 010	65.6	1 013	1 543
64.5	995	64.6	998	64.8	1 000	64.9	1 003	65.1	1 005	65.3	1 007	65.4	1 010	65.6	1 012	65.7	1 015	1 544
64.6	997	64.7	1 000	64.9	1 002	65.0	1 005	65.2	1 007	65.3	1 010	65.5	1 012	65.6	1 014	65.8	1 017	1 545
64.6	999	64.8	1 002	65.0	1 004	65.1	1 007	65.3	1 009	65.4	1 012	65.6	1 014	65.7	1 016	65.9	1 019	1 546
64.7	1 002	64.9	1 004	65.1	1 006	65.2	1 009	65.4	1 011	65.5	1 014	65.7	1 016	65.8	1 018	66.0	1 021	1 547
64.8	1 004	65.0	1 006	65.1	1 008	65.3	1 011	65.5	1 014	65.6	1 016	65.8	1 018	65.9	1 020	66.1	1 023	1 548
64.9	1 006	65.1	1 008	65.2	1 010	65.4	1 013	65.5	1 015	65.7	1 018	65.8	1 020	66.0	1 022	66.2	1 025	1 549
65.0	1 008	65.2	1 010	65.3	1 012	65.5	1 015	65.6	1 017	65.8	1 020	65.9	1 022	66.1	1 024	66.2	1 027	1 550
65.1	1 010	65.3	1 012	65.4	1 015	65.6	1 017	65.7	1 019	65.9	1 022	66.0	1 024	66.2	1 026	66.3	1 029	1 551
65.2	1 012	65.3	1 014	65.5	1 017	65.7	1 019	65.8	1 021	66.0	1 024	66.1	1 026	66.3	1 029	66.4	1 031	1 552
65.3	1 014	65.4	1 016	65.6	1 019	65.8	1 021	65.9	1 023	66.1	1 026	66.2	1 028	66.4	1 031	66.5	1 033	1 553
65.4	1 016	65.5	1 018	65.7	1 021	65.8	1 023	66.0	1 025	66.2	1 028	66.3	1 030	66.4	1 033	66.6	1 035	1 554
65.5	1 018	65.6	1 020	65.8	1 023	65.9	1 025	66.1	1 028	66.3	1 030	66.4	1 032	66.5	1 035	66.7	1 037	1 555
65.5	1 020	65.7	1 022	65.9	1 025	66.0	1 027	66.2	1 030	66.4	1 032	66.5	1 034	66.7	1 036	66.8	1 039	1 556
65.6	1 022	65.8	1 024	65.9	1 027	66.1	1 029	66.3	1 032	66.5	1 034	66.6	1 036	66.7	1 039	66.9	1 041	1 557
65.7	1 024	65.9	1 026	66.0	1 029	66.2	1 031	66.3	1 034	66.6	1 036	66.7	1 039	66.8	1 041	67.0	1 043	1 558
65.8	1 026	66.0	1 028	66.1	1 031	66.3	1 033	66.4	1 036	66.6	1 038	66.7	1 041	66.9	1 043	67.1	1 045	1 559
65.9	1 028	66.1	1 031	66.2	1 033	66.4	1 035	66.5	1 038	66.7	1 040	66.8	1 043	67.0	1 045	67.1	1 047	1 560
66.0	1 030	66.1	1 032	66.3	1 035	66.5	1 037	66.6	1 040	66.8	1 042	66.9	1 045	67.1	1 047	67.2	1 049	1 561
66.1	1 032	66.2	1 035	66.4	1 037	66.5	1 040	66.7	1 042	66.9	1 045	67.0	1 047	67.2	1 049	67.3	1 051	1 562
66.2	1 034	66.3	1 037	66.5	1 039	66.6	1 042	66.8	1 044	67.0	1 046	67.1	1 050	67.3	1 051	67.4	1 054	1 563
66.3	1 036	66.4	1 039	66.6	1 041	66.7	1 044	66.9	1 046	67.0	1 049	67.2	1 051	67.3	1 053	67.5	1 056	1 564
66.3	1 038	66.5	1 041	66.6	1 043	66.8	1 046	67.0	1 048	67.1	1 051	67.3	1 053	67.4	1 055	67.6	1 058	1 565
66.4	1 040	66.6	1 043	66.7	1 045	66.9	1 048	67.1	1 050	67.2	1 053	67.4	1 055	67.5	1 058	67.7	1 060	1 566
66.5	1 042	66.7	1 045	66.8	1 047	67.0	1 050	67.1	1 052	67.3	1 055	67.5	1 057	67.6	1 059	67.8	1 062	1 567
66.6	1 044	66.8	1 047	66.9	1 049	67.1	1 052	67.2	1 054	67.4	1 057	67.5	1 059	67.7	1 062	67.9	1 064	1 568
66.7	1 047	66.8	1 049	67.0	1 051	67.2	1 054	67.3	1 056	67.5	1 059	67.6	1 061	67.8	1 064	67.9	1 066	1 569
66.8	1 049	66.9	1 051	67.1	1 053	67.3	1 056	67.4	1 058	67.6	1 061	67.7	1 063	67.9	1 066	68.0	1 068	1 570
66.9	1 051	67.0	1 053	67.2	1 055	67.3	1 058	67.5	1 060	67.7	1 063	67.8	1 065	68.0	1 068	68.1	1 070	1 571
67.0	1 052	67.1	1 055	67.3	1 057	67.4	1 059	67.6	1 063	67.7	1 065	67.9	1 067	68.1	1 069	68.2	1 071	1 572

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 573	65.9	1 037	66.1	1 040	66.3	1 042	66.4	1 045	66.6	1 047	66.7	1 050	66.9	1 052
1 574	66.0	1 039	66.2	1 042	66.3	1 044	66.5	1 047	66.7	1 049	66.8	1 052	67.0	1 054
1 575	66.1	1 041	66.3	1 044	66.4	1 046	66.6	1 049	66.8	1 051	66.9	1 054	67.1	1 056
1 576	66.2	1 043	66.4	1 046	66.5	1 049	66.7	1 051	66.8	1 053	67.0	1 056	67.2	1 058
1 577	66.3	1 046	66.5	1 048	66.6	1 050	66.8	1 053	66.9	1 055	67.1	1 058	67.2	1 061
1 578	66.4	1 047	66.5	1 050	66.7	1 053	66.9	1 055	67.0	1 058	67.2	1 060	67.3	1 062
1 579	66.5	1 050	66.6	1 052	66.8	1 055	66.9	1 057	67.1	1 060	67.3	1 062	67.4	1 065
1 580	66.6	1 052	66.7	1 054	66.9	1 057	67.0	1 059	67.2	1 062	67.4	1 064	67.5	1 067
1 581	66.6	1 054	66.8	1 056	67.0	1 059	67.1	1 061	67.3	1 064	67.4	1 066	67.6	1 069
1 582	66.7	1 056	66.9	1 058	67.1	1 061	67.2	1 063	67.4	1 066	67.5	1 068	67.7	1 071
1 583	66.8	1 058	67.0	1 060	67.1	1 063	67.3	1 065	67.5	1 068	67.6	1 070	67.8	1 073
1 584	66.9	1 060	67.1	1 062	67.2	1 065	67.4	1 067	67.5	1 070	67.7	1 072	67.9	1 075
1 585	67.0	1 062	67.2	1 064	67.3	1 067	67.5	1 069	67.6	1 072	67.8	1 074	67.9	1 077
1 586	67.1	1 064	67.2	1 066	67.4	1 069	67.6	1 072	67.7	1 074	67.9	1 077	68.0	1 079
1 587	67.2	1 066	67.3	1 068	67.5	1 071	67.7	1 074	67.8	1 076	68.0	1 079	68.1	1 081
1 588	67.3	1 068	67.4	1 071	67.5	1 073	67.7	1 076	67.9	1 078	68.1	1 081	68.2	1 083
1 589	67.3	1 070	67.5	1 073	67.7	1 075	67.8	1 078	68.0	1 080	68.1	1 083	68.3	1 085
1 590	67.4	1 072	67.6	1 075	67.7	1 077	67.9	1 080	68.1	1 082	68.2	1 085	68.4	1 087
1 591	67.5	1 074	67.7	1 077	67.8	1 079	68.0	1 082	68.2	1 084	68.3	1 087	68.5	1 089
1 592	67.6	1 076	67.8	1 079	67.9	1 081	68.1	1 084	68.2	1 086	68.4	1 089	68.6	1 091
1 593	67.7	1 078	67.9	1 081	68.0	1 083	68.2	1 086	68.3	1 088	68.5	1 091	68.6	1 093
1 594	67.8	1 080	67.9	1 083	68.1	1 086	68.3	1 088	68.4	1 091	68.6	1 093	68.7	1 095
1 595	67.9	1 083	68.0	1 085	68.2	1 087	68.3	1 090	68.5	1 093	68.7	1 095	68.8	1 098
1 596	68.0	1 085	68.1	1 087	68.3	1 090	68.4	1 092	68.6	1 095	68.7	1 097	68.9	1 100
1 597	68.0	1 087	68.2	1 089	68.4	1 092	68.5	1 094	68.7	1 097	68.8	1 099	69.0	1 102
1 598	68.1	1 089	68.3	1 091	68.4	1 094	68.6	1 096	68.8	1 099	68.9	1 101	69.1	1 104
1 599	68.2	1 091	68.4	1 093	68.5	1 096	68.7	1 098	68.9	1 101	69.0	1 103	69.2	1 106
1 600	68.3	1 093	68.5	1 095	68.6	1 098	68.8	1 100	68.9	1 103	69.1	1 106	69.3	1 108
1 601	68.4	1 095	68.5	1 097	68.7	1 100	68.9	1 103	69.0	1 105	69.2	1 108	69.3	1 110
1 602	68.5	1 097	68.6	1 099	68.8	1 102	69.0	1 105	69.1	1 107	69.3	1 110	69.4	1 112
1 603	68.6	1 099	68.7	1 102	68.9	1 104	69.0	1 107	69.2	1 109	69.4	1 112	69.5	1 114
1 604	68.6	1 101	68.8	1 104	69.0	1 106	69.1	1 109	69.3	1 111	69.4	1 114	69.6	1 116
1 605	68.7	1 103	68.9	1 106	69.1	1 108	69.2	1 111	69.4	1 113	69.5	1 116	69.7	1 119
1 606	68.8	1 105	69.0	1 108	69.1	1 110	69.3	1 113	69.5	1 116	69.6	1 118	69.8	1 121
1 607	68.9	1 107	69.1	1 110	69.2	1 112	69.4	1 115	69.5	1 118	69.7	1 120	69.9	1 123
1 608	69.0	1 109	69.1	1 112	69.3	1 115	69.5	1 117	69.6	1 120	69.8	1 122	69.9	1 125

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
67.1	1 055	67.2	1 057	67.4	1 060	67.5	1 062	67.7	1 065	67.8	1 067	68.0	1 069	68.1	1 072	68.3	1 074	1 573
67.1	1 057	67.3	1 059	67.4	1 062	67.6	1 064	67.8	1 067	67.9	1 069	68.1	1 072	68.2	1 074	68.4	1 076	1 574
67.2	1 059	67.4	1 061	67.5	1 064	67.7	1 066	67.9	1 069	68.0	1 071	68.2	1 074	68.3	1 076	68.5	1 078	1 575
67.3	1 061	67.5	1 063	67.6	1 066	67.8	1 068	67.9	1 071	68.1	1 073	68.2	1 076	68.4	1 078	68.6	1 080	1 576
67.4	1 063	67.6	1 065	67.7	1 068	67.9	1 070	68.0	1 073	68.2	1 075	68.3	1 078	68.5	1 080	68.6	1 082	1 577
67.5	1 065	67.6	1 067	67.8	1 070	68.0	1 072	68.1	1 075	68.3	1 077	68.4	1 080	68.6	1 082	68.7	1 085	1 578
67.6	1 067	67.7	1 069	67.9	1 072	68.0	1 074	68.2	1 077	68.4	1 079	68.5	1 082	68.7	1 084	68.8	1 087	1 579
67.7	1 069	67.8	1 072	68.0	1 074	68.1	1 076	68.3	1 079	68.4	1 081	68.6	1 084	68.7	1 086	68.9	1 089	1 580
67.8	1 071	67.9	1 074	68.1	1 076	68.2	1 079	68.4	1 081	68.5	1 083	68.7	1 085	68.8	1 088	69.0	1 091	1 581
67.8	1 073	68.0	1 076	68.2	1 078	68.3	1 081	68.5	1 083	68.6	1 086	68.8	1 088	68.9	1 090	69.1	1 093	1 582
67.9	1 075	68.1	1 078	68.2	1 080	68.4	1 083	68.5	1 085	68.7	1 088	68.9	1 090	69.0	1 093	69.2	1 095	1 583
68.0	1 077	68.2	1 080	68.3	1 082	68.5	1 085	68.6	1 087	68.8	1 090	68.9	1 092	69.1	1 095	69.3	1 097	1 584
68.1	1 079	68.3	1 082	68.4	1 084	68.6	1 087	68.7	1 089	68.9	1 092	69.0	1 094	69.2	1 097	69.3	1 099	1 585
68.2	1 081	68.3	1 084	68.5	1 086	68.7	1 089	68.8	1 091	69.0	1 094	69.1	1 096	69.3	1 099	69.4	1 101	1 586
68.3	1 084	68.4	1 086	68.6	1 089	68.7	1 090	68.9	1 093	69.1	1 096	69.2	1 098	69.4	1 101	69.5	1 103	1 587
68.4	1 086	68.5	1 088	68.7	1 091	68.8	1 093	69.0	1 096	69.1	1 098	69.3	1 100	69.5	1 103	69.6	1 105	1 588
68.5	1 088	68.6	1 090	68.8	1 093	68.9	1 095	69.1	1 098	69.2	1 100	69.4	1 103	69.5	1 105	69.7	1 107	1 589
68.5	1 090	68.7	1 092	68.9	1 095	69.0	1 097	69.2	1 099	69.3	1 102	69.5	1 105	69.6	1 107	69.8	1 110	1 590
68.6	1 092	68.8	1 094	68.9	1 097	69.1	1 099	69.3	1 102	69.4	1 104	69.6	1 107	69.7	1 109	69.9	1 112	1 591
68.7	1 094	68.9	1 096	69.0	1 099	69.2	1 101	69.3	1 104	69.5	1 106	69.6	1 109	69.8	1 111	70.0	1 114	1 592
68.8	1 096	69.0	1 099	69.1	1 101	69.3	1 103	69.4	1 106	69.6	1 108	69.7	1 110	69.9	1 113	70.1	1 116	1 593
68.9	1 098	69.0	1 100	69.2	1 103	69.4	1 106	69.5	1 108	69.7	1 111	69.8	1 113	70.0	1 115	70.1	1 118	1 594
69.0	1 100	69.1	1 103	69.3	1 105	69.4	1 108	69.6	1 110	69.8	1 113	69.9	1 115	70.1	1 117	70.2	1 120	1 595
69.1	1 102	69.2	1 105	69.4	1 107	69.5	1 110	69.7	1 112	69.8	1 115	70.0	1 117	70.1	1 120	70.3	1 122	1 596
69.1	1 104	69.3	1 107	69.5	1 109	69.6	1 112	69.8	1 114	69.9	1 117	70.1	1 119	70.2	1 122	70.4	1 124	1 597
69.2	1 106	69.4	1 109	69.6	1 111	69.7	1 114	69.9	1 116	70.0	1 119	70.2	1 121	70.3	1 124	70.5	1 126	1 598
69.3	1 108	69.5	1 111	69.6	1 113	69.8	1 116	69.9	1 119	70.1	1 121	70.3	1 123	70.4	1 126	70.6	1 128	1 599
69.4	1 111	69.6	1 113	69.7	1 116	69.9	1 118	70.0	1 120	70.2	1 123	70.3	1 126	70.5	1 128	70.7	1 130	1 600
69.5	1 113	69.7	1 115	69.8	1 118	70.0	1 120	70.1	1 123	70.3	1 125	70.4	1 128	70.6	1 130	70.7	1 133	1 601
69.6	1 115	69.7	1 117	69.9	1 120	70.1	1 122	70.2	1 125	70.4	1 127	70.5	1 130	70.7	1 132	70.8	1 135	1 602
69.7	1 117	69.8	1 119	70.0	1 122	70.1	1 124	70.3	1 127	70.5	1 129	70.6	1 132	70.8	1 134	70.9	1 137	1 603
69.8	1 119	69.9	1 121	70.1	1 124	70.2	1 126	70.4	1 129	70.5	1 131	70.7	1 134	70.9	1 136	71.0	1 139	1 604
69.8	1 121	70.0	1 124	70.2	1 126	70.3	1 128	70.5	1 131	70.6	1 134	70.8	1 136	70.9	1 139	71.1	1 141	1 605
69.9	1 123	70.1	1 126	70.2	1 128	70.4	1 131	70.6	1 133	70.7	1 136	70.9	1 138	71.0	1 141	71.2	1 143	1 606
70.0	1 125	70.2	1 128	70.3	1 130	70.5	1 133	70.6	1 135	70.8	1 138	71.0	1 140	71.1	1 143	71.3	1 145	1 607
70.1	1 127	70.3	1 130	70.4	1 132	70.6	1 135	70.7	1 137	70.9	1 140	71.0	1 142	71.2	1 145	71.3	1 147	1 608

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 609	69.1	1 111	69.2	1 114	69.4	1 117	69.6	1 119	69.7	1 122	69.9	1 124	70.0	1 127
1 610	69.2	1 113	69.3	1 116	69.5	1 119	69.6	1 121	69.8	1 124	70.0	1 126	70.1	1 129
1 611	69.2	1 116	69.4	1 118	69.6	1 121	69.7	1 123	69.9	1 126	70.0	1 128	70.2	1 131
1 612	69.3	1 117	69.5	1 120	69.7	1 123	69.8	1 125	70.0	1 128	70.1	1 130	70.3	1 133
1 613	69.4	1 120	69.6	1 122	69.7	1 125	69.9	1 127	70.1	1 130	70.2	1 133	70.4	1 135
1 614	69.5	1 122	69.7	1 124	69.8	1 127	70.0	1 129	70.1	1 132	70.3	1 135	70.5	1 137
1 615	69.6	1 124	69.7	1 126	69.9	1 129	70.1	1 132	70.2	1 134	70.4	1 137	70.6	1 139
1 616	69.7	1 126	69.8	1 128	70.0	1 131	70.2	1 134	70.3	1 136	70.5	1 139	70.6	1 142
1 617	69.8	1 128	69.9	1 131	70.1	1 133	70.2	1 136	70.4	1 139	70.6	1 141	70.7	1 144
1 618	69.8	1 130	70.0	1 133	70.2	1 135	70.3	1 138	70.5	1 141	70.6	1 143	70.8	1 146
1 619	69.9	1 132	70.1	1 135	70.2	1 137	70.4	1 140	70.6	1 143	70.7	1 145	70.9	1 148
1 620	70.0	1 134	70.2	1 137	70.3	1 140	70.5	1 142	70.7	1 145	70.8	1 147	71.0	1 150
1 621	70.1	1 136	70.3	1 139	70.4	1 142	70.6	1 144	70.8	1 147	70.9	1 149	71.1	1 152
1 622	70.2	1 138	70.3	1 141	70.5	1 144	70.7	1 146	70.8	1 149	71.0	1 151	71.2	1 154
1 623	70.3	1 140	70.4	1 143	70.6	1 146	70.8	1 148	70.9	1 151	71.1	1 154	71.2	1 156
1 624	70.4	1 143	70.5	1 145	70.7	1 147	70.8	1 150	71.0	1 153	71.2	1 156	71.3	1 158
1 625	70.4	1 145	70.6	1 147	70.8	1 150	70.9	1 153	71.1	1 155	71.2	1 158	71.4	1 160
1 626	70.5	1 147	70.7	1 149	70.9	1 152	71.0	1 155	71.2	1 157	71.3	1 160	71.5	1 162
1 627	70.6	1 149	70.8	1 152	70.9	1 154	71.1	1 157	71.3	1 159	71.4	1 162	71.6	1 165
1 628	70.7	1 151	70.9	1 154	71.0	1 156	71.2	1 159	71.5	1 162	71.5	1 164	71.7	1 167
1 629	70.8	1 153	71.0	1 156	71.1	1 158	71.3	1 161	71.4	1 164	71.6	1 166	71.8	1 169
1 630	70.9	1 155	71.0	1 158	71.2	1 161	71.4	1 163	71.5	1 166	71.7	1 168	71.8	1 171
1 631	71.0	1 157	71.1	1 160	71.3	1 163	71.4	1 165	71.6	1 168	71.8	1 170	71.9	1 173
1 632	71.0	1 159	71.2	1 162	71.4	1 165	71.5	1 167	71.7	1 170	71.8	1 173	72.0	1 175
1 633	71.1	1 162	71.3	1 164	71.5	1 167	71.6	1 170	71.8	1 172	71.9	1 175	72.1	1 177
1 634	71.2	1 164	71.4	1 166	71.5	1 170	71.7	1 172	71.9	1 174	72.0	1 177	72.2	1 179
1 635	71.3	1 166	71.5	1 168	71.6	1 171	71.8	1 174	72.0	1 176	72.1	1 179	72.3	1 181
1 636	71.4	1 168	71.5	1 171	71.7	1 173	71.9	1 176	72.0	1 178	72.2	1 181	72.3	1 184
1 637	71.5	1 170	71.6	1 173	71.8	1 175	72.0	1 178	72.1	1 181	72.3	1 183	72.4	1 186
1 638	71.6	1 172	71.7	1 175	71.9	1 177	72.0	1 180	72.2	1 183	72.4	1 185	72.5	1 188
1 639	71.6	1 174	71.8	1 177	72.0	1 179	72.1	1 182	72.3	1 185	72.4	1 187	72.6	1 190
1 640	71.7	1 176	71.9	1 179	72.0	1 182	72.2	1 184	72.4	1 187	72.5	1 189	72.7	1 192
1 641	71.8	1 178	72.0	1 181	72.1	1 184	72.3	1 186	72.4	1 189	72.6	1 192	72.8	1 194
1 642	71.9	1 180	72.1	1 183	72.2	1 186	72.4	1 188	72.5	1 191	72.7	1 194	72.9	1 196
1 643	72.0	1 182	72.1	1 185	72.3	1 188	72.5	1 191	72.6	1 193	72.8	1 196	72.9	1 198
1 644	72.1	1 185	72.2	1 187	72.4	1 190	72.6	1 193	72.7	1 195	72.9	1 198	73.0	1 201

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
70.2	1 129	70.3	1 132	70.5	1 134	70.7	1 137	70.8	1 139	71.0	1 142	71.1	1 144	71.3	1 147	71.4	1 149	1 609
70.3	1 131	70.4	1 134	70.6	1 136	70.7	1 139	70.9	1 141	71.1	1 144	71.2	1 147	71.4	1 149	71.5	1 151	1 610
70.4	1 133	70.5	1 136	70.7	1 138	70.8	1 141	71.0	1 143	71.1	1 146	71.3	1 149	71.5	1 151	71.6	1 154	1 611
70.4	1 136	70.6	1 138	70.8	1 141	70.9	1 143	71.1	1 146	71.2	1 148	71.4	1 151	71.6	1 153	71.7	1 156	1 612
70.5	1 138	70.7	1 140	70.8	1 143	71.0	1 145	71.2	1 148	71.3	1 150	71.5	1 153	71.6	1 155	71.8	1 158	1 613
70.6	1 140	70.8	1 142	70.9	1 145	71.1	1 147	71.2	1 150	71.4	1 155	71.6	1 155	71.7	1 158	71.9	1 160	1 614
70.7	1 142	70.9	1 144	71.0	1 147	71.2	1 149	71.3	1 152	71.5	1 155	71.6	1 157	71.8	1 160	72.0	1 162	1 615
70.8	1 144	70.9	1 147	71.1	1 149	71.3	1 152	71.4	1 154	71.6	1 157	71.7	1 159	71.9	1 162	72.0	1 164	1 616
70.9	1 146	71.0	1 149	71.2	1 151	71.3	1 154	71.5	1 156	71.7	1 159	71.8	1 161	72.0	1 164	72.1	1 166	1 617
71.0	1 148	71.1	1 151	71.3	1 153	71.4	1 156	71.6	1 158	71.8	1 161	71.9	1 164	72.1	1 166	72.2	1 168	1 618
71.1	1 150	71.2	1 155	71.4	1 155	71.5	1 158	71.7	1 160	71.8	1 163	72.0	1 166	72.2	1 168	72.3	1 171	1 619
71.1	1 152	71.3	1 155	71.4	1 157	71.6	1 160	71.8	1 163	71.9	1 165	72.1	1 168	72.2	1 170	72.4	1 173	1 620
71.2	1 154	71.4	1 157	71.5	1 160	71.7	1 162	71.9	1 165	72.0	1 167	72.2	1 170	72.3	1 172	72.5	1 175	1 621
71.3	1 157	71.5	1 159	71.6	1 162	71.8	1 164	71.9	1 167	72.1	1 169	72.3	1 172	72.4	1 174	72.6	1 177	1 622
71.4	1 159	71.5	1 161	71.7	1 164	71.9	1 166	72.0	1 169	72.2	1 171	72.3	1 174	72.5	1 177	72.6	1 179	1 623
71.5	1 161	71.6	1 163	71.8	1 166	71.9	1 168	72.1	1 171	72.3	1 174	72.4	1 176	72.6	1 179	72.7	1 181	1 624
71.6	1 163	71.7	1 165	71.9	1 168	72.0	1 170	72.2	1 173	72.4	1 176	72.5	1 178	72.7	1 181	72.8	1 183	1 625
71.7	1 165	71.8	1 167	72.0	1 170	72.1	1 173	72.3	1 175	72.4	1 178	72.6	1 180	72.8	1 183	72.9	1 186	1 626
71.7	1 167	71.9	1 170	72.1	1 172	72.2	1 175	72.4	1 177	72.5	1 180	72.7	1 183	72.8	1 185	73.0	1 188	1 627
71.8	1 169	72.0	1 172	72.1	1 174	72.3	1 177	72.4	1 179	72.6	1 182	72.8	1 185	72.9	1 187	73.1	1 190	1 628
71.9	1 171	72.1	1 174	72.2	1 176	72.4	1 179	72.5	1 182	72.7	1 184	72.9	1 187	73.0	1 189	73.2	1 192	1 629
72.0	1 173	72.1	1 176	72.3	1 179	72.5	1 181	72.6	1 184	72.8	1 186	72.9	1 189	73.1	1 192	73.3	1 194	1 630
72.1	1 175	72.2	1 178	72.4	1 181	72.5	1 183	72.7	1 186	72.9	1 189	73.0	1 191	73.2	1 194	73.3	1 196	1 631
72.2	1 178	72.3	1 180	72.5	1 183	72.6	1 185	72.8	1 188	72.9	1 191	73.1	1 193	73.3	1 196	73.4	1 198	1 632
72.2	1 180	72.4	1 182	72.6	1 185	72.7	1 188	72.9	1 190	73.0	1 193	73.2	1 195	73.4	1 198	73.5	1 200	1 633
72.3	1 182	72.5	1 184	72.6	1 187	72.8	1 190	73.0	1 192	73.1	1 195	73.3	1 197	73.4	1 200	73.6	1 202	1 634
72.4	1 184	72.6	1 187	72.7	1 189	72.9	1 192	73.1	1 194	73.2	1 197	73.4	1 199	73.5	1 202	73.7	1 205	1 635
72.5	1 186	72.7	1 189	72.8	1 191	73.0	1 194	73.1	1 197	73.3	1 199	73.4	1 202	73.6	1 204	73.8	1 207	1 636
72.6	1 188	72.7	1 191	72.9	1 194	73.1	1 196	73.2	1 199	73.4	1 201	73.5	1 204	73.7	1 206	73.9	1 209	1 637
72.7	1 190	72.8	1 193	73.0	1 196	73.1	1 198	73.3	1 201	73.5	1 203	73.6	1 206	73.8	1 209	73.9	1 211	1 638
72.8	1 193	72.9	1 195	73.1	1 198	73.2	1 200	73.4	1 203	73.5	1 205	73.7	1 208	73.9	1 211	74.0	1 213	1 639
72.8	1 195	73.0	1 197	73.2	1 200	73.3	1 202	73.5	1 205	73.6	1 208	73.8	1 210	73.9	1 213	74.1	1 215	1 640
72.9	1 197	73.1	1 199	73.2	1 202	73.4	1 204	73.6	1 207	73.7	1 210	73.9	1 212	74.0	1 215	74.2	1 218	1 641
73.0	1 199	73.2	1 201	73.3	1 204	73.5	1 207	73.6	1 209	73.8	1 212	74.0	1 214	74.1	1 217	74.3	1 220	1 642
73.1	1 201	73.3	1 204	73.4	1 206	73.6	1 209	73.7	1 211	73.9	1 214	74.0	1 216	74.2	1 219	74.4	1 222	1 643
73.2	1 203	73.3	1 206	73.5	1 208	73.7	1 211	73.8	1 214	74.0	1 216	74.1	1 219	74.3	1 221	74.5	1 224	1 644

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 645	72.1	1 187	72.3	1 189	72.5	1 192	72.6	1 195	72.8	1 197	72.9	1 200	73.1	1 203
1 646	72.2	1 189	72.4	1 192	72.6	1 194	72.7	1 197	72.9	1 200	73.0	1 202	73.2	1 205
1 647	72.3	1 191	72.5	1 194	72.6	1 196	72.8	1 199	73.0	1 202	73.1	1 204	73.3	1 207
1 648	72.4	1 193	72.6	1 196	72.7	1 199	72.9	1 201	73.0	1 204	73.2	1 206	73.4	1 209
1 649	72.5	1 195	72.7	1 198	72.8	1 201	73.0	1 203	73.1	1 206	73.3	1 209	73.4	1 211
1 650	72.6	1 197	72.7	1 200	72.9	1 203	73.1	1 205	73.2	1 208	73.4	1 211	73.5	1 213
1 651	72.7	1 199	72.8	1 202	73.0	1 205	73.1	1 208	73.3	1 210	73.5	1 213	73.6	1 215
1 652	72.7	1 202	72.9	1 204	73.1	1 207	73.2	1 210	73.4	1 212	73.5	1 215	73.7	1 218
1 653	72.8	1 204	73.0	1 207	73.1	1 209	73.3	1 212	73.5	1 214	73.6	1 217	73.8	1 220
1 654	72.9	1 206	73.1	1 209	73.2	1 211	73.4	1 214	73.6	1 217	73.7	1 219	73.9	1 222
1 655	73.0	1 208	73.2	1 211	73.3	1 213	73.5	1 216	73.6	1 219	73.8	1 221	74.0	1 224
1 656	73.1	1 210	73.2	1 213	73.4	1 216	73.6	1 218	73.7	1 221	73.9	1 223	74.1	1 226
1 657	73.2	1 212	73.3	1 215	73.5	1 218	73.6	1 220	73.8	1 223	74.0	1 226	74.1	1 228
1 658	73.2	1 214	73.4	1 217	73.6	1 220	73.7	1 222	73.9	1 225	74.1	1 228	74.2	1 231
1 659	73.3	1 217	73.5	1 219	73.7	1 222	73.8	1 225	74.0	1 227	74.1	1 230	74.3	1 233
1 660	73.4	1 219	73.6	1 221	73.7	1 224	73.9	1 227	74.1	1 229	74.2	1 232	74.4	1 235
1 661	73.5	1 221	73.7	1 223	73.8	1 226	74.0	1 229	74.1	1 231	74.3	1 234	74.5	1 237
1 662	73.6	1 223	73.7	1 226	73.9	1 228	74.1	1 231	74.2	1 234	74.4	1 236	74.6	1 239
1 683	73.7	1 225	73.8	1 228	74.0	1 230	74.2	1 233	74.3	1 236	74.5	1 238	74.6	1 241
1 664	73.7	1 227	73.9	1 230	74.1	1 233	74.2	1 235	74.4	1 238	74.6	1 241	74.7	1 244
1 665	73.8	1 229	74.0	1 232	74.2	1 235	74.3	1 237	74.5	1 240	74.6	1 243	74.8	1 246
1 666	73.9	1 232	74.1	1 234	74.2	1 237	74.4	1 240	74.6	1 242	74.7	1 245	74.9	1 248
1 667	74.0	1 234	74.2	1 236	74.3	1 239	74.5	1 242	74.7	1 244	74.8	1 247	75.0	1 250
1 668	74.1	1 236	74.2	1 238	74.4	1 241	74.6	1 244	74.7	1 247	74.9	1 249	75.1	1 252
1 669	74.2	1 238	74.3	1 241	74.5	1 243	74.7	1 246	74.8	1 249	75.0	1 251	75.2	1 254
1 670	74.2	1 240	74.4	1 243	74.6	1 245	74.7	1 248	74.9	1 251	75.1	1 254	75.2	1 257
1 671	74.3	1 242	74.5	1 245	74.7	1 248	74.8	1 250	75.0	1 253	75.2	1 256	75.3	1 259
1 672	74.4	1 244	74.6	1 247	74.7	1 250	74.9	1 253	75.1	1 255	75.2	1 258	75.4	1 261
1 673	74.5	1 246	74.7	1 249	74.8	1 252	75.0	1 255	75.2	1 257	75.3	1 260	75.5	1 263
1 674	74.6	1 249	74.8	1 251	74.9	1 254	75.1	1 257	75.2	1 260	75.4	1 262	75.6	1 265
1 675	74.7	1 251	74.8	1 254	75.0	1 256	75.2	1 259	75.3	1 262	75.5	1 264	75.7	1 267
1 676	14.8	1 253	74.9	1 256	75.1	1 259	75.2	1 261	75.4	1 264	75.6	1 267	73.7	1 270
1 677	74.8	1 255	75.0	1 258	75.2	1 261	75.3	1 263	75.5	1 266	75.7	1 269	75.8	1 272
1 678	74.9	1 257	75.1	1 260	75.3	1 263	75.4	1 266	75.6	1 268	75.7	1 271	75.9	1 274
1 679	75.0	1 259	75.2	1 262	75.3	1 265	75.5	1 268	75.7	1 270	75.8	1 273	76.0	1 276
1 680	75.1	1 262	75.3	1 264	75.4	1 267	75.6	1 270	75.8	1 273	75.9	1 275	76.1	1 278

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
73.3	1 205	73.4	1 208	73.6	1 211	73.7	1 213	73.9	1 216	74.1	1 218	74.2	1 221	74.4	1 224	74.5	1 226	1 645
73.4	1 208	73.5	1 210	73.7	1 213	73.8	1 215	74.0	1 218	74.1	1 221	74.3	1 223	74.5	1 226	74.6	1 228	1 646
73.4	1 210	73.6	1 212	73.8	1 215	73.9	1 217	74.1	1 220	74.2	1 223	74.4	1 225	74.6	1 228	74.7	1 230	1 647
73.5	1 212	73.7	1 214	73.8	1 217	74.0	1 220	74.2	1 222	74.3	1 225	74.5	1 227	74.6	1 230	74.8	1 233	1 648
73.6	1 214	73.8	1 216	73.9	1 219	74.1	1 222	74.2	1 224	74.4	1 227	74.6	1 229	74.7	1 232	74.9	1 235	1 649
73.7	1 216	73.9	1 219	74.0	1 221	74.2	1 224	74.3	1 226	74.5	1 229	74.7	1 232	74.8	1 234	75.0	1 237	1 650
73.8	1 218	73.9	1 221	74.1	1 223	74.3	1 226	74.4	1 229	74.6	1 231	74.7	1 234	74.9	1 237	75.1	1 239	1 651
73.9	1 220	74.0	1 223	74.2	1 226	74.3	1 228	74.5	1 231	74.7	1 233	74.8	1 236	75.0	1 239	75.1	1 241	1 652
74.0	1 223	74.1	1 225	74.3	1 228	74.4	1 230	74.6	1 233	74.7	1 236	74.9	1 238	75.1	1 241	75.2	1 244	1 653
74.0	1 225	74.2	1 227	74.4	1 230	74.5	1 232	74.7	1 235	74.8	1 238	75.0	1 241	75.2	1 243	75.3	1 246	1 654
74.1	1 227	74.3	1 229	74.4	1 232	74.6	1 235	74.8	1 237	74.9	1 240	75.1	1 243	75.2	1 245	75.4	1 248	1 655
74.2	1 229	74.4	1 232	74.5	1 234	74.7	1 237	74.8	1 239	75.0	1 242	75.2	1 245	75.3	1 247	75.5	1 250	1 656
74.3	1 231	74.5	1 234	74.6	1 236	74.8	1 239	74.9	1 242	75.1	1 244	75.3	1 247	75.4	1 250	75.6	1 252	1 657
74.4	1 233	74.5	1 236	74.7	1 239	74.9	1 241	75.0	1 244	75.2	1 246	75.3	1 249	75.5	1 252	75.7	1 255	1 658
74.5	1 235	74.6	1 238	74.8	1 241	74.9	1 243	75.1	1 246	75.3	1 249	75.4	1 252	75.6	1 254	75.8	1 257	1 659
74.6	1 238	74.7	1 240	74.9	1 243	75.0	1 245	75.2	1 248	75.4	1 251	75.5	1 254	75.7	1 256	75.8	1 259	1 660
74.6	1 240	74.8	1 242	75.0	1 245	75.1	1 248	75.3	1 250	75.4	1 253	75.6	1 256	75.8	1 259	75.9	1 261	1 661
74.7	1 242	74.9	1 245	75.0	1 247	75.2	1 250	75.4	1 252	75.5	1 255	75.7	1 258	75.9	1 261	76.0	1 263	1 662
74.8	1 244	75.0	1 247	75.1	1 249	75.3	1 252	75.5	1 255	75.6	1 258	75.8	1 260	76.0	1 263	76.1	1 265	1 663
74.9	1 246	75.1	1 249	75.2	1 251	75.4	1 254	75.5	1 257	75.7	1 260	75.9	1 262	76.0	1 265	76.2	1 268	1 664
75.0	1 248	75.1	1 251	75.3	1 254	75.5	1 256	75.6	1 259	75.8	1 262	76.0	1 265	76.1	1 267	76.3	1 270	1 665
75.1	1 250	75.2	1 253	75.4	1 256	75.5	1 258	75.7	1 261	75.9	1 264	76.0	1 267	76.2	1 269	76.4	1 272	1 666
75.1	1 253	75.3	1 255	75.5	1 258	75.6	1 261	75.8	1 264	76.0	1 266	76.1	1 269	76.3	1 272	76.4	1 274	1 667
75.2	1 255	75.4	1 258	75.6	1 260	75.7	1 263	75.9	1 266	76.1	1 268	76.2	1 271	76.4	1 274	76.5	1 276	1 668
75.3	1 257	75.5	1 260	75.6	1 262	75.8	1 265	76.0	1 268	76.1	1 270	76.3	1 273	76.5	1 276	76.6	1 279	1 669
75.4	1 259	75.6	1 262	75.7	1 265	75.9	1 267	76.1	1 270	76.2	1 273	76.4	1 276	76.5	1 278	76.7	1 281	1 670
75.5	1 261	75.7	1 264	75.8	1 267	76.0	1 269	76.1	1 272	76.3	1 275	76.5	1 278	76.6	1 280	76.8	1 283	1 671
75.6	1 264	75.7	1 266	75.9	1 269	76.1	1 272	76.2	1 275	76.4	1 277	76.6	1 280	76.7	1 283	76.9	1 285	1 672
75.7	1 266	75.8	1 268	76.0	1 271	76.1	1 274	76.3	1 277	76.5	1 280	76.6	1 282	76.8	1 285	77.0	1 288	1 673
75.7	1 268	75.9	1 271	76.1	1 273	76.2	1 276	76.4	1 279	76.6	1 282	76.7	1 284	76.9	1 287	77.1	1 290	1 674
75.8	1 270	76.0	1 273	76.2	1 276	76.3	1 278	76.5	1 281	76.7	1 284	76.8	1 287	77.0	1 289	77.1	1 292	1 675
75.9	1 272	76.1	1 275	76.2	1 278	76.4	1 280	76.6	1 283	76.7	1 286	76.8	1 289	77.1	1 292	77.2	1 294	1 676
76.0	1 275	76.2	1 277	76.3	1 280	76.5	1 283	76.7	1 286	76.8	1 288	77.0	1 291	77.1	1 294	77.3	1 297	1 677
76.1	1 277	76.2	1 279	76.4	1 282	76.6	1 285	76.7	1 288	76.9	1 291	77.1	1 293	77.2	1 296	77.4	1 299	1 678
76.2	1 279	76.3	1 282	76.5	1 284	76.7	1 287	76.8	1 290	77.0	1 293	77.2	1 296	77.3	1 298	77.5	1 301	1 679
76.3	1 281	76.4	1 284	76.6	1 287	76.7	1 289	76.9	1 292	77.1	1 295	77.3	1 298	77.4	1 300	77.6	1 303	1 680

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 681	75.2	1 264	75.3	1 267	75.5	1 269	75.7	1 272	75.8	1 275	76.0	1 278	76.2	1 280
1 682	75.3	1 266	75.4	1 269	75.6	1 271	75.8	1 274	75.9	1 277	76.1	1 280	76.3	1 283
1 683	75.3	1 268	75.5	1 271	75.7	1 274	75.8	1 277	76.0	1 279	76.2	1 282	76.3	1 285
1 684	75.4	1 270	75.6	1 273	75.8	1 276	75.9	1 279	76.1	1 281	76.3	1 284	76.4	1 287
1 685	75.5	1 272	75.7	1 275	75.8	1 278	76.0	1 281	76.2	1 284	76.3	1 286	76.5	1 289
1 686	75.6	1 275	75.8	1 277	75.9	1 280	76.1	1 283	76.3	1 286	76.4	1 289	76.6	1 291
1 687	75.7	1 277	75.9	1 280	76.0	1 282	76.2	1 285	76.4	1 288	76.5	1 291	76.7	1 294
1 688	75.8	1 279	75.9	1 282	76.1	1 285	76.3	1 287	76.4	1 290	76.6	1 293	76.8	1 296
1 689	75.8	1 282	76.0	1 284	76.2	1 287	76.4	1 290	76.5	1 292	76.7	1 295	76.9	1 298
1 690	75.9	1 283	76.1	1 286	76.3	1 289	76.4	1 292	76.6	1 295	76.8	1 297	76.9	1 300
1 691	76.0	1 285	76.2	1 288	76.4	1 291	76.5	1 294	76.7	1 297	76.9	1 300	77.0	1 303
1 692	76.1	1 288	76.3	1 290	76.4	1 293	76.6	1 296	76.8	1 299	76.9	1 302	77.1	1 305
1 693	76.2	1 290	76.4	1 293	76.5	1 295	76.7	1 298	76.9	1 301	77.0	1 304	77.2	1 307
1 694	76.3	1 292	76.4	1 295	76.6	1 298	76.8	1 301	76.9	1 304	77.1	1 306	77.3	1 309
1 695	76.4	1 294	76.5	1 297	76.7	1 300	76.9	1 303	77.0	1 306	77.2	1 309	77.4	1 311
1 696	76.4	1 296	76.6	1 299	76.8	1 302	76.9	1 305	77.1	1 308	77.3	1 311	77.5	1 314
1 697	76.5	1 299	76.7	1 302	76.9	1 304	77.0	1 307	77.2	1 310	77.4	1 313	77.5	1 316
1 698	76.6	1 301	76.8	1 304	77.0	1 307	77.1	1 309	77.3	1 312	77.5	1 315	77.6	1 318
1 699	76.7	1 303	76.9	1 306	77.0	1 309	77.2	1 312	77.4	1 315	77.5	1 317	77.7	1 320
1 700	76.8	1 305	77.0	1 308	77.1	1 311	77.3	1 314	77.5	1 317	77.6	1 320	77.8	1 322
1 701	76.9	1 307	77.0	1 310	77.2	1 313	77.4	1 316	77.5	1 319	77.7	1 322	77.9	1 325
1 702	76.9	1 310	77.1	1 313	77.3	1 315	77.5	1 318	77.6	1 321	77.8	1 324	78.0	1 327
1 703	77.0	1 312	77.2	1 315	77.4	1 318	77.5	1 321	77.7	1 323	77.9	1 326	78.0	1 329
1 704	77.1	1 314	77.3	1 317	77.5	1 320	77.6	1 323	77.8	1 326	78.0	1 329	78.1	1 332
1 705	77.2	1 316	77.4	1 319	77.5	1 322	77.7	1 325	77.9	1 328	78.1	1 331	78.2	1 334
1 706	77.3	1 319	77.5	1 321	77.6	1 324	77.8	1 327	78.0	1 330	78.1	1 333	78.3	1 336
1 707	77.4	1 321	77.5	1 324	77.7	1 327	77.9	1 330	78.1	1 332	78.2	1 335	78.4	1 338
1 708	77.5	1 323	77.6	1 326	77.8	1 329	78.0	1 332	78.1	1 335	78.3	1 338	78.5	1 341
1 709	77.5	1 325	77.7	1 328	77.9	1 331	78.1	1 334	78.2	1 337	78.4	1 340	78.6	1 343
1 710	77.6	1 327	77.8	1 330	78.0	1 333	78.1	1 336	78.3	1 339	78.5	1 342	78.7	1 345
1 711	77.7	1 330	77.9	1 333	78.1	1 336	78.2	1 339	78.4	1 341	78.6	1 345	78.8	1 347
1 712	77.8	1 332	78.0	1 335	78.1	1 338	78.3	1 341	78.5	1 344	78.7	1 347	78.8	1 350
1 713	77.9	1 334	78.1	1 337	78.2	1 340	78.4	1 343	78.6	1 346	78.8	1 349	78.9	1 352
1 714	78.0	1 336	78.1	1 339	78.3	1 342	78.5	1 346	78.7	1 348	78.8	1 351	79.0	1 354
1 715	78.1	1 339	78.2	1 341	78.4	1 345	78.6	1 348	78.8	1 351	78.9	1 354	79.1	1 357
1 716	78.1	1 341	78.3	1 344	78.5	1 347	78.7	1 350	78.8	1 353	79.0	1 356	79.2	1 359

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
76.3	1 283	76.5	1 286	76.7	1 289	76.8	1 292	77.0	1 294	77.2	1 297	77.3	1 300	77.5	1 303	77.7	1 306	1 681
76.4	1 285	76.6	1 288	76.8	1 291	76.9	1 294	77.1	1 297	77.3	1 300	77.4	1 302	77.6	1 305	77.8	1 308	1 682
76.5	1 288	76.7	1 291	76.8	1 293	77.0	1 296	77.2	1 299	77.3	1 302	77.5	1 303	77.7	1 307	77.8	1 310	1 683
76.6	1 290	76.8	1 293	76.9	1 296	77.1	1 298	77.3	1 301	77.4	1 304	77.6	1 307	77.8	1 310	77.9	1 313	1 684
76.7	1 292	76.8	1 295	77.0	1 298	77.2	1 300	77.4	1 303	77.5	1 306	77.7	1 309	77.9	1 312	78.0	1 315	1 685
76.8	1 294	76.9	1 297	77.1	1 300	77.3	1 303	77.4	1 306	77.6	1 309	77.8	1 311	78.0	1 314	78.1	1 317	1 686
76.8	1 296	77.0	1 299	77.2	1 302	77.4	1 305	77.5	1 308	77.7	1 311	77.9	1 314	78.0	1 316	78.2	1 319	1 687
76.9	1 299	77.1	1 301	77.3	1 304	77.4	1 307	77.6	1 310	77.8	1 313	78.0	1 316	78.1	1 319	78.3	1 322	1 688
77.0	1 301	77.2	1 304	77.4	1 307	77.5	1 309	77.7	1 312	77.9	1 315	78.0	1 318	78.2	1 321	78.4	1 324	1 689
77.1	1 303	77.1	1 306	77.4	1 309	77.6	1 312	77.8	1 315	78.0	1 318	78.1	1 320	78.3	1 323	78.5	1 326	1 690
77.2	1 305	77.4	1 308	77.5	1 311	77.7	1 314	77.9	1 317	78.0	1 320	78.2	1 323	78.4	1 326	78.6	1 328	1 691
77.3	1 308	77.4	1 310	77.6	1 313	77.8	1 316	78.0	1 319	78.1	1 322	78.3	1 325	78.5	1 328	78.7	1 331	1 692
77.4	1 310	77.5	1 313	77.7	1 315	77.9	1 319	78.1	1 321	78.2	1 324	78.4	1 327	78.6	1 330	78.7	1 333	1 693
77.4	1 312	77.6	1 315	77.8	1 318	78.0	1 321	78.1	1 324	78.3	1 327	78.5	1 330	78.7	1 333	78.8	1 335	1 694
77.5	1 314	77.7	1 317	77.9	1 320	78.1	1 323	78.2	1 326	78.4	1 329	78.6	1 332	78.7	1 335	78.9	1 338	1 695
77.6	1 316	77.8	1 319	78.0	1 322	78.1	1 325	78.3	1 328	78.5	1 331	78.7	1 334	78.8	1 337	79.0	1 340	1 696
77.7	1 319	77.9	1 322	78.1	1 325	78.2	1 328	78.4	1 330	78.6	1 334	78.8	1 337	78.9	1 339	79.1	1 342	1 697
77.8	1 321	78.0	1 324	78.1	1 327	78.3	1 330	78.5	1 333	78.7	1 336	78.8	1 339	79.0	1 342	79.2	1 345	1 698
77.9	1 323	78.1	1 326	78.2	1 329	78.4	1 332	78.6	1 335	78.8	1 338	78.9	1 341	79.1	1 344	79.3	1 347	1 699
78.0	1 325	78.1	1 328	78.3	1 331	78.5	1 334	78.7	1 337	78.8	1 340	79.0	1 343	79.2	1 346	79.4	1 349	1 700
78.1	1 328	78.2	1 331	78.4	1 334	78.6	1 337	78.8	1 340	78.9	1 343	79.1	1 346	79.3	1 349	79.5	1 352	1 701
78.1	1 330	78.3	1 333	78.5	1 336	78.7	1 339	78.8	1 342	79.0	1 345	79.2	1 348	79.4	1 351	79.6	1 354	1 702
78.2	1 332	78.4	1 335	78.6	1 338	78.8	1 341	78.9	1 344	79.1	1 347	79.3	1 350	79.5	1 353	79.6	1 356	1 703
78.3	1 334	78.5	1 337	78.7	1 341	78.8	1 343	79.0	1 347	79.2	1 349	79.4	1 352	79.6	1 356	79.7	1 359	1 704
78.4	1 337	78.6	1 340	78.8	1 343	78.9	1 346	79.1	1 349	79.3	1 352	79.5	1 355	79.6	1 358	79.8	1 361	1 705
78.5	1 339	78.7	1 342	78.8	1 345	79.0	1 348	79.2	1 351	79.4	1 354	79.6	1 357	79.7	1 360	79.9	1 363	1 706
78.6	1 341	78.8	1 344	78.9	1 347	79.1	1 350	79.3	1 353	79.5	1 356	79.6	1 359	79.8	1 363	80.0	1 366	1 707
78.7	1 344	78.8	1 347	79.0	1 350	79.2	1 353	79.4	1 356	79.6	1 359	79.7	1 362	79.9	1 365	80.1	1 368	1 708
78.8	1 346	78.9	1 349	79.1	1 352	79.3	1 355	79.5	1 358	79.6	1 361	79.8	1 364	80.0	1 367	80.2	1 371	1 709
78.8	1 348	79.0	1 351	79.2	1 354	79.4	1 357	79.6	1 360	79.7	1 363	79.9	1 366	80.1	1 370	80.3	1 373	1 710
78.9	1 350	79.1	1 353	79.3	1 356	79.5	1 360	79.6	1 363	79.8	1 366	80.0	1 369	80.2	1 372	80.4	1 375	1 711
79.0	1 353	79.2	1 356	79.4	1 359	79.6	1 362	79.7	1 365	79.9	1 368	80.1	1 371	80.3	1 375	80.5	1 378	1 712
79.1	1 355	79.3	1 358	79.5	1 361	79.6	1 364	79.8	1 367	80.0	1 370	80.2	1 373	80.4	1 377	80.6	1 380	1 713
79.2	1 357	79.4	1 360	79.6	1 363	79.7	1 367	79.9	1 370	80.1	1 373	80.3	1 376	80.5	1 379	80.7	1 383	1 714
79.3	1 360	79.5	1 363	79.6	1 366	79.8	1 369	80.0	1 372	80.2	1 375	80.4	1 378	80.6	1 382	80.8	1 385	1 715
79.4	1 362	79.5	1 365	79.7	1 368	79.9	1 371	80.1	1 374	80.3	1 378	80.5	1 381	80.7	1 384	80.8	1 387	1 716

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 717	78.2	1 343	78.4	1 346	78.6	1 349	78.8	1 352	78.9	1 355	79.1	1 358	79.3	1 361
1 718	78.3	1 345	78.5	1 348	78.7	1 351	78.8	1 354	79.0	1 358	79.2	1 360	79.4	1 364
1 719	78.4	1 348	78.6	1 351	78.7	1 354	78.9	1 357	79.1	1 360	79.3	1 363	79.5	1 366
1 720	78.5	1 350	78.7	1 353	78.8	1 356	79.0	1 359	79.2	1 362	79.4	1 365	79.5	1 368
1 721	78.6	1 352	78.7	1 355	78.9	1 358	79.1	1 361	79.3	1 364	79.4	1 367	79.6	1 371
1 722	78.6	1 354	78.8	1 357	79.0	1 360	79.2	1 364	79.4	1 367	79.5	1 370	79.7	1 373
1 723	78.7	1 357	78.9	1 360	79.1	1 363	79.3	1 366	79.5	1 369	79.6	1 372	79.8	1 375
1 724	78.8	1 359	79.0	1 362	79.2	1 365	79.4	1 368	79.5	1 371	79.7	1 374	79.9	1 377
1 725	78.9	1 361	79.1	1 364	79.3	1 367	79.5	1 371	79.6	1 374	79.8	1 377	80.0	1 380
1 726	79.0	1 363	79.2	1 366	79.4	1 370	79.5	1 373	79.7	1 376	79.9	1 379	80.1	1 382
1 727	79.1	1 366	79.3	1 369	79.4	1 372	79.6	1 375	79.8	1 378	80.0	1 381	80.2	1 385
1 728	79.2	1 368	79.3	1 371	79.5	1 374	79.7	1 377	79.9	1 381	80.1	1 384	80.3	1 387
1 729	79.2	1 370	79.4	1 374	79.6	1 377	79.8	1 380	80.0	1 383	80.2	1 386	80.4	1 389
1 730	79.3	1 372	79.5	1 376	79.7	1 379	79.9	1 382	80.1	1 385	80.2	1 388	80.4	1 392
1 731	79.4	1 375	79.6	1 378	79.8	1 381	80.0	1 384	80.2	1 388	80.3	1 391	80.5	1 394
1 732	79.5	1 377	79.7	1 380	79.9	1 384	80.1	1 387	80.2	1 390	80.4	1 393	80.6	1 397
1 733	79.6	1 379	79.8	1 383	80.0	1 386	80.2	1 389	80.3	1 392	80.5	1 395	80.7	1 399
1 734	79.7	1 382	79.9	1 385	80.1	1 388	80.2	1 391	80.4	1 395	80.6	1 398	80.8	1 401
1 735	79.8	1 384	80.0	1 387	80.1	1 391	80.3	1 394	80.5	1 397	80.7	1 400	80.9	1 404
1 736	79.9	1 386	80.1	1 390	80.2	1 393	80.4	1 396	80.6	1 399	80.8	1 403	81.0	1 406
1 737	79.9	1 389	80.1	1 392	80.3	1 395	80.5	1 398	80.7	1 402	80.9	1 405	81.1	1 408
1 738	80.0	1 391	80.2	1 394	80.4	1 398	80.6	1 401	80.8	1 404	81.0	1 407	81.2	1 411
1 739	80.1	1 393	80.3	1 397	80.5	1 400	80.7	1 403	80.9	1 406	81.1	1 410	81.3	1 413
1 740	80.2	1 396	80.4	1 399	80.6	1 402	80.8	1 406	81.0	1 409	81.2	1 412	81.4	1 416
1 741	80.3	1 398	80.5	1 401	80.7	1 405	80.9	1 408	81.1	1 411	81.3	1 415	81.5	1 418
1 742	80.4	1 400	80.6	1 404	80.8	1 407	81.0	1 410	81.1	1 414	81.3	1 417	81.5	1 421
1 743	80.5	1 403	80.7	1 406	80.9	1 409	81.1	1 413	81.2	1 416	81.4	1 419	81.6	1 423
1 744	80.6	1 405	80.8	1 408	80.9	1 412	81.1	1 415	81.3	1 418	81.5	1 422	81.7	1 425
1 745	80.7	1 407	80.8	1 411	81.0	1 414	81.2	1 418	81.4	1 421	81.6	1 424	81.8	1 428
1 746	80.7	1 410	80.9	1 413	81.1	1 417	81.3	1 420	81.5	1 423	81.7	1 427	81.9	1 430
1 747	80.8	1 412	81.0	1 415	81.2	1 419	81.4	1 422	81.6	1 426	81.8	1 429	82.0	1 433
1 748	80.9	1 414	81.1	1 418	81.3	1 421	81.5	1 425	81.7	1 428	81.9	1 432	82.1	1 435
1 749	81.0	1 417	81.2	1 420	81.4	1 424	81.6	1 427	81.8	1 431	82.0	1 434	82.2	1 438
1 750	81.1	1 419	81.3	1 423	81.5	1 426	81.7	1 430	81.9	1 433	82.1	1 436	82.3	1 440
1 751	81.2	1 422	81.4	1 425	81.6	1 428	81.8	1 432	82.0	1 435	82.2	1 439	82.4	1 443
1 752	81.3	1 424	81.5	1 428	81.7	1 431	81.9	1 435	82.1	1 438	82.3	1 442	82.5	1 445

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
79.5	1 364	79.6	1 367	79.8	1 371	80.0	1 374	80.2	1 377	80.4	1 380	80.6	1 383	80.7	1 386	80.9	1 390	1 717
79.5	1 367	79.7	1 370	79.9	1 373	80.1	1 376	80.3	1 379	80.5	1 382	80.6	1 386	80.8	1 389	81.0	1 392	1 718
79.6	1 369	79.8	1 372	80.0	1 375	80.2	1 378	80.4	1 382	80.6	1 385	80.7	1 388	80.9	1 391	81.1	1 394	1 719
79.7	1 371	79.9	1 374	80.1	1 378	80.3	1 381	80.5	1 384	80.6	1 387	80.8	1 390	81.0	1 394	81.2	1 397	1 720
79.8	1 374	80.0	1 377	80.2	1 380	80.4	1 383	80.6	1 386	80.7	1 390	80.9	1 398	81.1	1 396	81.3	1 399	1 721
79.9	1 376	80.1	1 379	80.3	1 382	80.5	1 386	80.6	1 389	80.8	1 392	81.0	1 395	81.2	1 399	81.4	1 402	1 722
80.0	1 378	80.2	1 381	80.4	1 385	80.6	1 388	80.7	1 391	80.9	1 394	81.1	1 398	81.3	1 401	81.5	1 404	1 723
80.1	1 381	80.3	1 384	80.5	1 387	80.6	1 390	80.8	1 394	81.0	1 397	81.2	1 400	81.4	1 404	81.6	1 407	1 724
80.2	1 383	80.4	1 386	80.5	1 389	80.7	1 393	80.9	1 396	81.1	1 399	81.3	1 402	81.5	1 406	81.7	1 409	1 725
80.3	1 385	80.4	1 389	80.6	1 392	80.8	1 395	81.0	1 398	81.2	1 402	81.4	1 405	81.6	1 408	81.8	1 412	1 726
80.4	1 388	80.5	1 391	80.7	1 394	80.9	1 397	81.1	1 401	81.3	1 404	81.5	1 407	81.7	1 411	81.9	1 414	1 727
80.4	1 390	80.6	1 393	80.8	1 397	81.0	1 400	81.2	1 403	81.4	1 407	81.6	1 410	81.8	1 413	82.0	1 417	1 728
80.5	1 393	80.7	1 396	80.9	1 399	81.1	1 402	81.3	1 406	81.5	1 409	81.7	1 412	81.9	1 416	82.1	1 419	1 729
80.6	1 395	80.8	1 398	81.0	1 401	81.2	1 405	81.4	1 408	81.6	1 411	81.8	1 415	82.0	1 418	82.2	1 422	1 730
80.7	1 397	80.9	1 401	81.1	1 404	81.3	1 407	81.5	1 411	81.7	1 414	81.9	1 417	82.1	1 421	82.3	1 424	1 731
80.8	1 400	81.0	1 403	81.2	1 406	81.4	1 410	81.6	1 413	81.8	1 416	82.0	1 420	82.2	1 423	82.4	1 427	1 732
80.9	1 402	81.1	1 405	81.3	1 409	81.5	1 412	81.7	1 416	81.9	1 419	82.1	1 422	82.3	1 426	82.5	1 429	1 733
81.0	1 405	81.2	1 408	81.4	1 411	81.6	1 414	81.8	1 418	82.0	1 421	82.2	1 425	82.4	1 428	82.6	1 432	1 734
81.1	1 407	81.3	1 410	81.5	1 414	81.7	1 417	81.9	1 420	82.1	1 424	82.3	1 427	82.5	1 431	82.7	1 434	1 735
81.2	1 409	81.4	1 413	81.6	1 416	81.8	1 419	82.0	1 423	82.2	1 426	82.4	1 430	82.6	1 433	82.8	1 437	1 736
81.3	1 412	81.5	1 415	81.7	1 418	81.9	1 422	82.1	1 425	82.3	1 429	82.5	1 433	82.7	1 436	82.9	1 440	1 737
81.4	1 414	81.6	1 418	81.8	1 421	82.0	1 424	82.2	1 428	82.4	1 431	82.6	1 435	82.8	1 439	83.0	1 442	1 738
81.5	1 417	81.7	1 420	81.9	1 424	82.1	1 427	82.3	1 431	82.5	1 434	82.7	1 438	82.9	1 441	83.1	1 445	1 739
81.6	1 419	81.8	1 423	82.0	1 426	82.1	1 429	82.4	1 433	82.6	1 437	82.8	1 440	83.0	1 444	83.2	1 447	1 740
81.6	1 422	81.8	1 425	82.0	1 428	82.2	1 432	82.4	1 435	82.7	1 439	82.9	1 443	83.1	1 446	83.3	1 450	1 741
81.7	1 424	81.9	1 427	82.1	1 431	82.3	1 434	82.5	1 438	82.8	1 442	83.0	1 445	83.2	1 449	83.4	1 453	1 742
81.8	1 426	82.0	1 430	82.2	1 433	82.4	1 437	82.6	1 440	82.9	1 444	83.1	1 448	83.3	1 452	83.5	1 455	1 743
81.9	1 429	82.1	1 432	82.3	1 436	82.5	1 439	82.7	1 443	83.0	1 447	83.2	1 450	83.4	1 454	83.6	1 458	1 744
82.0	1 431	82.2	1 435	82.4	1 438	82.6	1 442	82.8	1 446	83.1	1 449	83.3	1 453	83.5	1 457	83.7	1 461	1 745
82.1	1 434	82.3	1 437	82.5	1 441	82.7	1 444	82.9	1 448	83.2	1 452	83.4	1 456	83.6	1 459	83.8	1 463	1 746
82.2	1 436	82.4	1 440	82.6	1 444	82.8	1 447	83.0	1 451	83.3	1 455	83.5	1 458	83.7	1 462	83.9	1 466	1 747
82.3	1 439	82.5	1 442	82.7	1 446	82.9	1 450	83.1	1 453	83.4	1 457	83.6	1 461	83.8	1 465	84.0	1 468	1 748
82.4	1 441	82.6	1 445	82.8	1 449	83.0	1 452	83.2	1 456	83.5	1 460	83.7	1 464	83.9	1 467	84.1	1 471	1 749
82.5	1 444	82.7	1 447	82.9	1 451	83.1	1 455	83.3	1 458	83.6	1 462	83.8	1 466	84.0	1 470	84.2	1 474	1 750
82.6	1 446	82.8	1 450	83.0	1 454	83.2	1 457	83.4	1 461	83.7	1 465	83.9	1 469	84.1	1 473	84.3	1 476	1 751
82.7	1 449	82.9	1 453	83.1	1 456	83.3	1 460	83.6	1 464	83.8	1 468	84.0	1 472	84.2	1 475	84.4	1 479	1 752

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 753	81.4	1 426	81.6	1 430	81.8	1 433	82.0	1 437	82.2	1 440	82.4	1 444	82.6	1 448
1 754	81.5	1 429	81.7	1 432	81.9	1 436	82.1	1 440	82.3	1 443	82.5	1 447	82.7	1 450
1 755	81.6	1 431	81.8	1 435	82.0	1 438	82.2	1 442	82.4	1 446	82.6	1 449	82.8	1 453
1 756	81.6	1 434	81.9	1 437	82.1	1 441	82.3	1 444	82.5	1 448	82.7	1 452	82.9	1 455
1 757	81.7	1 436	81.9	1 440	82.1	1 443	82.3	1 447	82.6	1 451	82.8	1 454	83.0	1 458
1 758	81.8	1 439	82.0	1 442	82.2	1 446	82.4	1 449	82.7	1 453	82.9	1 457	83.1	1 461
1 759	81.9	1 441	82.1	1 445	82.3	1 448	82.5	1 452	82.7	1 455	83.0	1 459	83.2	1 463
1 760	82.0	1 443	82.2	1 447	82.4	1 451	82.6	1 454	82.8	1 458	83.1	1 462	83.3	1 466
1 761	82.1	1 446	82.3	1 450	82.5	1 453	82.7	1 457	82.9	1 461	83.2	1 464	83.4	1 468
1 762	82.2	1 448	82.4	1 452	82.6	1 456	82.8	1 459	83.0	1 463	83.3	1 467	83.5	1 471
1 763	82.3	1 451	82.5	1 455	82.7	1 458	82.9	1 462	83.1	1 466	83.4	1 470	83.6	1 474
1 764	82.4	1 453	82.6	1 457	82.8	1 461	83.0	1 464	83.2	1 468	83.5	1 472	83.7	1 476
1 765	82.5	1 456	82.7	1 459	82.9	1 463	83.1	1 467	83.3	1 471	83.6	1 475	83.8	1 479
1 766	82.6	1 458	82.8	1 462	83.0	1 466	83.2	1 470	83.4	1 474	83.7	1 478	83.9	1 481
1 767	82.7	1 461	82.9	1 464	83.1	1 468	83.3	1 472	83.5	1 476	83.8	1 480	84.0	1 484
1 768	82.8	1 463	83.0	1 467	83.2	1 471	83.4	1 475	83.6	1 479	83.9	1 483	84.1	1 487
1 769	82.9	1 466	83.1	1 470	83.3	1 474	83.5	1 477	83.7	1 481	84.0	1 485	84.2	1 489
1 770	83.0	1 468	83.2	1 472	83.4	1 476	83.6	1 480	83.8	1 484	84.1	1 488	84.3	1 492
1 771	83.1	1 471	83.3	1 475	83.5	1 479	83.7	1 483	83.9	1 487	84.2	1 491	84.4	1 495
1 772	83.2	1 474	83.4	1 477	83.6	1 481	83.8	1 485	84.0	1 489	84.3	1 493	84.5	1 498
1 773	83.3	1 476	83.5	1 480	83.7	1 484	83.9	1 488	84.1	1 492	84.4	1 496	84.6	1 500
1 774	83.4	1 479	83.6	1 483	83.8	1 487	84.0	1 491	84.3	1 495	84.5	1 499	84.7	1 503
1 775	83.5	1 481	83.7	1 485	83.9	1 489	84.1	1 493	84.4	1 497	84.6	1 501	84.8	1 506
1 776	83.6	1 484	83.8	1 488	84.0	1 492	84.2	1 496	84.5	1 500	84.7	1 504	85.0	1 509
1 777	83.7	1 487	83.9	1 491	84.1	1 495	84.3	1 499	84.6	1 503	84.8	1 507	85.1	1 512
1 778	83.8	1 489	84.0	1 493	84.2	1 497	84.4	1 501	84.7	1 506	84.9	1 510	85.2	1 515
1 779	83.9	1 492	84.1	1 496	84.3	1 500	84.6	1 504	84.8	1 508	85.0	1 513	85.3	1 517
1 780	84.0	1 494	84.2	1 499	84.4	1 503	84.7	1 507	84.9	1 511	85.2	1 516	85.4	1 520
1 781	84.1	1 497	84.3	1 501	84.5	1 505	84.8	1 510	85.0	1 514	85.3	1 519	85.5	1 523
1 782	84.2	1 500	84.4	1 504	84.6	1 508	84.9	1 513	85.1	1 517	85.4	1 521	85.6	1 526
1 783	84.3	1 503	84.5	1 507	84.8	1 511	85.0	1 516	85.2	1 520	85.5	1 524	85.8	1 529
1 784	84.4	1 505	84.6	1 509	84.9	1 514	85.1	1 518	85.4	1 523	85.6	1 527	85.9	1 532
1 785	84.5	1 508	84.7	1 512	85.0	1 517	85.2	1 521	85.5	1 526	85.7	1 530	86.0	1 535
1 786	84.6	1 511	84.8	1 515	85.1	1 520	85.3	1 524	85.6	1 529	85.9	1 533	86.1	1 538
1 787	84.7	1 514	84.9	1 518	85.2	1 523	85.5	1 527	85.7	1 532	86.0	1 536	86.2	1 541
1 788	84.8	1 517	85.1	1 521	85.3	1 526	85.6	1 530	85.8	1 535	86.1	1 539	86.4	1 544

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m^3) at a temperature t (in $^{\circ}\text{C}$) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 $^{\circ}\text{F}$ relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H_2SO_4 in 100 g mass of solution.

G is the mass (in g) of H_2SO_4 in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 $^{\circ}\text{C}$		26 $^{\circ}\text{C}$		28 $^{\circ}\text{C}$		30 $^{\circ}\text{C}$		32 $^{\circ}\text{C}$		34 $^{\circ}\text{C}$		36 $^{\circ}\text{C}$		38 $^{\circ}\text{C}$		40 $^{\circ}\text{C}$		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
82.8	1 451	83.0	1 455	83.2	1 459	83.4	1 463	83.9	1 466	83.9	1 470	84.1	1 474	84.3	1 478	84.5	1 482	1 753
82.9	1 454	83.1	1 458	83.3	1 461	83.5	1 465	83.8	1 469	84.0	1 473	84.2	1 477	84.4	1 481	84.6	1 485	1 754
83.0	1 456	83.2	1 460	83.4	1 464	83.6	1 468	83.9	1 472	84.1	1 476	84.3	1 479	84.5	1 483	84.7	1 488	1 755
83.1	1 459	83.3	1 463	83.5	1 467	83.7	1 470	84.0	1 474	84.2	1 478	84.4	1 482	84.6	1 486	84.8	1 490	1 756
83.2	1 462	83.4	1 466	83.6	1 469	83.8	1 473	84.1	1 477	84.3	1 481	84.5	1 485	84.7	1 489	85.0	1 493	1 757
83.3	1 464	83.5	1 468	83.7	1 472	83.9	1 476	84.2	1 480	84.4	1 484	84.6	1 488	84.9	1 492	85.1	1 496	1 758
83.4	1 467	83.6	1 471	83.8	1 475	84.1	1 478	84.3	1 482	84.5	1 486	84.7	1 490	85.0	1 495	85.2	1 499	1 759
83.5	1 469	83.7	1 473	83.9	1 477	84.2	1 481	84.4	1 485	84.6	1 489	84.9	1 493	85.1	1 498	85.3	1 502	1 760
83.6	1 472	83.8	1 476	84.0	1 480	84.3	1 484	84.5	1 488	84.7	1 492	85.0	1 496	85.2	1 500	85.4	1 505	1 761
83.7	1 475	83.9	1 479	84.1	1 482	84.4	1 486	84.6	1 490	84.8	1 495	85.1	1 499	85.3	1 503	85.6	1 508	1 762
83.8	1 477	84.0	1 481	84.2	1 485	84.5	1 489	84.7	1 493	84.9	1 497	85.2	1 502	85.4	1 506	85.7	1 511	1 763
83.9	1 480	84.1	1 484	84.3	1 488	84.6	1 492	84.8	1 496	85.1	1 500	85.3	1 505	85.6	1 509	85.8	1 514	1 764
84.0	1 483	84.2	1 486	84.4	1 490	84.7	1 495	84.9	1 499	85.2	1 503	85.4	1 508	85.7	1 512	85.9	1 516	1 765
84.1	1 485	84.3	1 489	84.5	1 491	84.8	1 497	85.0	1 502	85.3	1 506	85.5	1 511	85.8	1 515	86.0	1 519	1 766
84.2	1 488	84.4	1 492	84.7	1 496	84.9	1 500	85.2	1 505	85.4	1 509	85.7	1 514	85.9	1 518	86.2	1 522	1 767
84.3	1 491	84.5	1 495	84.8	1 499	85.0	1 503	85.3	1 508	85.5	1 512	85.8	1 517	86.0	1 521	86.3	1 525	1 768
84.4	1 493	84.7	1 497	84.9	1 502	85.1	1 506	85.4	1 511	85.6	1 515	85.9	1 519	86.1	1 524	86.4	1 529	1 769
84.5	1 496	84.8	1 500	85.0	1 505	85.3	1 509	85.5	1 514	85.8	1 518	86.0	1 523	86.3	1 527	86.5	1 532	1 770
84.6	1 499	84.9	1 503	85.1	1 507	85.4	1 512	85.6	1 517	85.9	1 521	86.1	1 526	86.4	1 530	86.7	1 535	1 771
84.7	1 502	85.0	1 506	85.2	1 510	85.5	1 515	85.7	1 519	86.0	1 524	86.3	1 529	86.5	1 533	86.8	1 538	1 772
84.9	1 504	85.1	1 509	85.3	1 513	85.6	1 518	85.9	1 522	86.1	1 527	86.4	1 532	86.7	1 536	86.9	1 541	1 773
85.0	1 507	85.2	1 512	85.5	1 516	85.7	1 521	86.0	1 525	86.3	1 530	86.5	1 535	86.8	1 539	87.1	1 544	1 774
85.1	1 510	85.3	1 515	85.6	1 519	85.8	1 524	86.1	1 528	86.4	1 533	86.6	1 538	86.9	1 543	87.2	1 548	1 775
85.2	1 513	85.4	1 518	85.7	1 522	86.0	1 527	86.2	1 531	86.5	1 536	86.8	1 541	87.1	1 546	87.3	1 551	1 776
85.3	1 516	85.5	1 521	85.8	1 525	86.1	1 530	86.4	1 535	86.6	1 539	86.9	1 544	87.2	1 549	87.5	1 554	1 777
85.4	1 519	85.7	1 524	85.9	1 528	86.2	1 533	86.5	1 538	86.7	1 542	87.0	1 547	87.3	1 553	87.6	1 557	1 778
85.5	1 522	85.8	1 527	86.1	1 531	86.3	1 536	86.6	1 541	86.9	1 546	87.2	1 551	87.5	1 556	87.7	1 559	1 779
85.7	1 525	85.9	1 530	86.2	1 534	86.5	1 539	86.7	1 544	87.0	1 549	87.3	1 554	87.6	1 559	87.9	1 564	1 780
85.8	1 528	86.0	1 533	86.3	1 537	86.6	1 542	86.9	1 547	87.2	1 552	87.4	1 557	87.7	1 562	88.0	1 567	1 781
85.9	1 531	86.2	1 536	86.4	1 540	86.7	1 545	87.0	1 550	87.3	1 555	87.6	1 560	87.9	1 566	88.2	1 571	1 782
86.0	1 534	86.3	1 539	86.6	1 543	86.8	1 548	87.1	1 554	87.4	1 559	87.7	1 564	88.0	1 569	88.3	1 575	1 783
86.1	1 537	86.4	1 542	86.7	1 546	87.0	1 552	87.3	1 557	87.6	1 562	87.9	1 567	88.1	1 572	88.5	1 578	1 784
86.3	1 540	86.5	1 545	86.8	1 550	87.1	1 555	87.4	1 560	87.7	1 565	87.9	1 569	88.3	1 576	88.6	1 582	1 785
86.4	1 543	86.7	1 548	86.9	1 553	87.2	1 558	87.5	1 563	87.8	1 569	88.1	1 574	88.4	1 580	88.8	1 586	1 786
86.5	1 546	86.8	1 551	87.1	1 556	87.4	1 562	87.7	1 567	88.0	1 572	88.3	1 578	88.6	1 583	88.9	1 589	1 787
86.6	1 549	86.9	1 554	87.2	1 559	87.5	1 565	87.9	1 570	88.1	1 575	88.4	1 581	88.8	1 587	89.1	1 593	1 788

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	D_t	g	G	g	G	g	G	g	G	g	G	g	G	g
1 789	84.9	1 519	85.2	1 524	85.4	1 528	85.7	1 533	86.0	1 538	86.2	1 542	86.5	1 547
1 790	85.0	1 522	85.3	1 527	85.6	1 531	85.8	1 536	86.1	1 541	86.3	1 545	86.6	1 550
1 791	85.1	1 525	85.4	1 530	85.7	1 534	85.9	1 539	86.2	1 544	86.5	1 549	86.7	1 554
1 792	85.3	1 528	85.5	1 533	85.8	1 537	86.0	1 542	86.3	1 547	86.6	1 552	86.9	1 557
1 793	85.4	1 531	85.6	1 535	85.9	1 540	86.2	1 545	86.4	1 550	86.7	1 555	87.0	1 560
1 794	85.5	1 534	85.8	1 538	86.0	1 543	86.3	1 548	86.6	1 553	86.9	1 558	87.1	1 563
1 795	85.6	1 537	85.9	1 541	86.1	1 546	86.4	1 551	86.7	1 556	87.0	1 561	87.3	1 567
1 796	85.7	1 540	86.0	1 544	86.3	1 549	86.5	1 554	86.8	1 559	87.1	1 565	87.4	1 570
1 797	85.8	1 543	86.1	1 547	86.4	1 552	86.7	1 557	87.0	1 563	87.3	1 568	87.6	1 573
1 798	86.0	1 546	86.2	1 551	86.5	1 555	86.8	1 561	87.1	1 566	87.4	1 571	87.7	1 577
1 799	86.1	1 549	86.4	1 554	86.6	1 559	86.9	1 564	87.2	1 569	87.5	1 575	87.8	1 580
1 800	86.2	1 552	86.5	1 557	86.8	1 562	87.1	1 567	87.4	1 573	87.7	1 578	88.0	1 584
1 801	86.3	1 555	86.6	1 560	86.9	1 565	87.2	1 570	87.5	1 576	87.8	1 582	88.1	1 587
1 802	86.5	1 558	86.8	1 563	87.0	1 568	87.3	1 574	87.7	1 580	87.9	1 585	88.3	1 591
1 803	86.6	1 561	86.9	1 567	87.2	1 572	87.5	1 577	87.8	1 583	88.1	1 589	88.4	1 595
1 804	86.7	1 564	87.0	1 570	87.3	1 575	87.6	1 581	87.9	1 586	88.3	1 592	88.6	1 598
1 805	86.9	1 568	87.2	1 573	87.5	1 578	87.8	1 584	88.1	1 590	88.4	1 596	88.8	1 602
1 806	87.0	1 571	87.3	1 577	87.6	1 582	87.9	1 588	88.2	1 593	88.6	1 599	88.9	1 606
1 807	87.1	1 574	87.4	1 580	87.7	1 585	88.1	1 591	88.4	1 597	88.7	1 603	89.1	1 610
1 808	87.3	1 578	87.6	1 584	87.9	1 589	88.2	1 595	88.5	1 601	88.9	1 607	89.3	1 614
1 809	87.4	1 581	87.7	1 587	88.0	1 592	88.4	1 598	88.7	1 604	89.1	1 611	89.4	1 618
1 810	87.5	1 584	87.9	1 590	88.2	1 596	88.5	1 602	88.9	1 608	89.2	1 615	89.6	1 622
1 811	87.7	1 588	88.0	1 594	88.3	1 599	88.7	1 606	89.0	1 612	89.4	1 619	89.8	1 626
1 812	87.8	1 591	88.2	1 597	88.5	1 603	88.8	1 610	89.2	1 616	89.6	1 623	89.9	1 630
1 813	88.0	1 595	88.3	1 601	88.6	1 607	89.0	1 614	89.4	1 620	89.7	1 627	90.1	1 634
1 814	88.1	1 598	88.5	1 605	88.8	1 611	89.2	1 618	89.5	1 624	89.9	1 631	90.3	1 638
1 815	88.3	1 602	88.6	1 608	89.0	1 614	89.3	1 622	89.7	1 628	90.1	1 636	90.5	1 642
1 816	88.4	1 606	88.8	1 612	89.1	1 619	89.5	1 626	89.9	1 633	90.3	1 640	90.7	1 647

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
86.8	1 552	87.1	1 558	87.4	1 563	87.7	1 568	88.0	1 574	88.3	1 579	88.6	1 585	88.9	1 591	89.3	1 597	1 789
86.9	1 555	87.2	1 561	87.5	1 566	87.8	1 572	88.1	1 577	88.4	1 583	88.7	1 588	89.1	1 595	89.4	1 601	1 790
87.0	1 559	87.3	1 564	87.6	1 570	87.9	1 575	88.2	1 581	88.6	1 586	88.9	1 592	89.3	1 598	89.6	1 605	1 791
87.2	1 562	87.5	1 568	87.8	1 573	88.1	1 579	88.4	1 584	88.7	1 590	89.1	1 596	89.4	1 602	89.8	1 609	1 792
87.3	1 565	87.6	1 571	87.9	1 577	88.2	1 582	88.5	1 588	88.9	1 594	89.2	1 600	89.6	1 606	89.9	1 613	1 793
87.4	1 569	87.8	1 574	88.1	1 580	88.4	1 586	88.7	1 591	89.1	1 598	89.4	1 604	89.8	1 610	90.1	1 617	1 794
87.6	1 572	87.9	1 578	88.2	1 584	88.5	1 589	88.9	1 595	89.2	1 601	89.6	1 608	89.9	1 614	90.3	1 621	1 795
87.7	1 576	88.0	1 581	88.4	1 587	88.7	1 593	89.0	1 599	89.4	1 605	89.7	1 612	90.1	1 618	90.5	1 625	1 796
87.9	1 579	88.2	1 585	88.5	1 591	88.9	1 597	89.2	1 603	89.6	1 609	89.9	1 616	90.3	1 623	90.7	1 630	1 797
88.0	1 582	88.3	1 588	88.7	1 594	89.0	1 601	89.4	1 607	89.7	1 613	90.1	1 620	90.5	1 627	90.9	1 634	1 798
88.2	1 586	88.5	1 592	88.9	1 598	89.2	1 604	89.5	1 611	89.9	1 617	90.3	1 624	90.7	1 631	91.1	1 639	1 799
88.3	1 590	88.6	1 596	89.0	1 602	89.4	1 608	89.7	1 615	90.1	1 621	90.5	1 628	90.9	1 635	91.3	1 643	1 800
88.5	1 593	88.8	1 599	89.2	1 606	89.5	1 612	89.9	1 619	90.3	1 625	90.7	1 633	91.1	1 640	91.5	1 648	1 801
88.6	1 597	89.0	1 603	89.3	1 610	89.7	1 616	90.1	1 623	90.4	1 630	90.8	1 637	91.3	1 645	91.7	1 652	1 802
88.8	1 601	89.1	1 607	89.5	1 614	89.9	1 620	90.2	1 627	90.6	1 634	91.0	1 641	91.5	1 649	91.9	1 657	1 803
89.0	1 604	89.3	1 611	89.7	1 618	90.0	1 624	90.4	1 631	90.8	1 638	91.3	1 646	91.7	1 654	92.2	1 662	1 804
89.1	1 609	89.5	1 615	89.8	1 622	90.2	1 629	90.6	1 636	91.0	1 643	91.5	1 651	91.9	1 659	92.4	1 668	1 805
89.3	1 612	89.7	1 619	90.0	1 626	90.4	1 633	90.8	1 640	91.2	1 647	91.7	1 656	92.2	1 664	92.6	1 673	1 806
89.5	1 617	89.8	1 623	90.2	1 630	90.6	1 637	91.0	1 645	91.4	1 652	91.9	1 661	92.4	1 669	92.9	1 679	1 807
89.6	1 621	90.0	1 627	90.4	1 634	90.8	1 642	91.2	1 649	91.7	1 657	92.1	1 668	92.6	1 675	93.2	1 684	1 808
89.8	1 625	90.2	1 632	90.6	1 639	91.0	1 646	91.4	1 654	91.9	1 662	92.4	1 671	92.9	1 680	93.4	1 690	1 809
90.0	1 629	90.4	1 636	90.8	1 643	91.2	1 651	91.6	1 659	92.1	1 667	92.6	1 676	93.2	1 686	93.7	1 696	1 810
90.2	1 633	90.6	1 640	91.0	1 648	91.4	1 655	91.9	1 664	92.4	1 672	92.9	1 682	93.4	1 692	94.0	1 703	1 811
90.4	1 637	90.8	1 645	91.2	1 652	91.6	1 660	92.1	1 668	92.6	1 678	93.1	1 688	93.7	1 698	94.4	1 710	1 812
90.6	1 642	91.0	1 649	91.4	1 657	91.9	1 665	92.3	1 674	92.7	1 684	93.4	1 693	94.0	1 705	94.7	1 717	1 813
90.8	1 646	91.2	1 654	91.6	1 662	92.1	1 671	92.6	1 679	93.1	1 690	93.7	1 700	94.4	1 712	95.1	1 725	1 814
91.0	1 651	91.4	1 659	91.8	1 667	92.3	1 676	92.8	1 685	93.4	1 695	94.0	1 706	94.7	1 719	95.6	1 735	1 815
91.2	1 655	91.6	1 664	92.1	1 672	92.5	1 681	93.1	1 691	93.7	1 701	94.3	1 713	95.1	1 727	96.2	1 747	1 816
												99.7	1 810	99.1	1 800	96.3	1 785	

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	g	G	g	G	g	G	g	G	g	G	g	G	g	G
1 817	88.6	1 609	89.0	1 616	89.3	1 623	89.7	1 630	90.1	1 637	90.5	1 644	90.9	1 652
1 818	88.8	1 613	89.1	1 620	89.5	1 627	89.9	1 634	90.3	1 641	90.7	1 649	91.1	1 657
1 819	88.9	1 617	89.3	1 624	89.7	1 631	90.1	1 638	90.5	1 646	90.9	1 653	91.3	1 661
1 820	89.1	1 621	89.5	1 628	89.8	1 635	90.3	1 643	90.7	1 650	91.1	1 658	91.6	1 666
1 821	89.3	1 625	89.6	1 632	90.0	1 639	90.4	1 647	90.9	1 655	91.3	1 663	91.8	1 671
1 822	89.4	1 630	89.8	1 637	90.2	1 644	90.7	1 652	91.1	1 659	91.5	1 668	92.0	1 677
1 823	89.6	1 634	90.0	1 641	90.4	1 648	90.9	1 656	91.3	1 664	91.8	1 673	92.3	1 682
1 824	89.8	1 638	90.2	1 645	90.6	1 653	91.1	1 661	91.5	1 669	92.0	1 678	92.5	1 687
1 825	90.0	1 642	90.4	1 649	90.8	1 657	91.3	1 666	91.7	1 674	92.2	1 684	92.8	1 693
1 826	90.2	1 646	90.6	1 654	91.0	1 662	91.5	1 671	92.0	1 680	92.5	1 689	93.1	1 699
1 827	90.4	1 651	90.8	1 659	91.2	1 667	91.7	1 676	92.2	1 685	92.8	1 695	93.3	1 705
1 828	90.6	1 655	91.0	1 663	91.5	1 672	92.0	1 681	92.5	1 690	93.0	1 701	93.6	1 712
1 829	90.8	1 660	91.2	1 668	91.7	1 677	92.2	1 686	92.7	1 696	93.3	1 707	94.0	1 719
1 830	91.0	1 665	91.4	1 673	91.9	1 682	92.4	1 692	93.0	1 702	93.6	1 713	94.3	1 726
1 831	91.2	1 669	91.6	1 678	92.2	1 688	92.7	1 697	93.3	1 708	93.9	1 720	94.7	1 734
											99.9	1 829	99.4	1 820
1 832	91.4	1 674	91.9	1 683	92.4	1 693	93.0	1 703	93.6	1 715	94.3	1 728	95.1	1 743
											99.7	1 826	99.1	1 815
1 833	91.6	1 679	92.1	1 689	92.7	1 699	93.3	1 709	93.9	1 722	94.7	1 736	95.7	1 753
									99.9	1 831	99.4	1 821	98.7	1 808
1 834	91.9	1 685	92.4	1 694	92.9	1 704	93.6	1 716	94.3	1 729	95.1	1 745	96.4	1 768
									99.7	1 828	99.1	1 817	98.1	1 799

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
91.4	1 660	91.8	1 669	92.3	1 677	92.8	1 687	93.4	1 697	94.0	1 708	94.7	1 721	95.6	1 737			1 817
										99.9	1 815	99.4	1 806	98.8	1 794			1 818
91.6	1 665	92.1	1 674	92.5	1 683	93.1	1 693	93.7	1 703	94.3	1 715	95.1	1 729	96.2	1 749			1 818
										99.7	1 812	99.1	1 802	98.2	1 785			1 819
91.8	1 670	92.3	1 679	92.8	1 688	93.4	1 699	94.0	1 710	94.7	1 723	95.6	1 740					1 819
								99.9	1 817	99.4	1 808	98.7	1 796					1 820
92.0	1 675	92.5	1 684	93.1	1 694	93.6	1 703	94.4	1 717	95.2	1 732	96.3	1 752					1 820
								99.7	1 814	99.1	1 804	98.2	1 787					1 821
92.3	1 681	92.8	1 690	93.4	1 700	94.0	1 712	94.7	1 725	95.6	1 742							1 821
						99.9	1 819	99.4	1 810	98.7	1 797							1 822
92.5	1 686	93.1	1 696	93.7	1 707	94.3	1 719	95.2	1 734	96.3	1 755							1 822
						99.6	1 815	99.1	1 805	98.1	1 787							1 823
92.8	1 692	93.4	1 702	94.0	1 714	94.7	1 727	95.7	1 744									1 823
				99.9	1 821	99.4	1 811	98.7	1 799									1 824
93.1	1 698	93.7	1 709	94.4	1 721	95.2	1 736	96.3	1 757									1 824
				99.7	1 818	99.1	1 807	98.1	1 789									1 825
93.4	1 704	94.0	1 716	94.8	1 729	95.7	1 746											1 825
		99.9	1 823	99.4	1 814	98.7	1 801											1 826
93.7	1 710	94.4	1 723	95.2	1 738	96.4	1 742											1 826
		99.7	1 820	99.1	1 809	98.1	1 791											1 827
94.0	1 717	94.7	1 731	95.7	1 748													1 827
99.9	1 825	99.4	1 816	98.7	1 803													1 828
94.4	1 725	95.2	1 740	96.4	1 762													1 828
99.7	1 822	99.1	1 811	98.1	1 793													1 829
94.7	1 733	95.7	1 750															1 829
99.4	1 818	98.7	1 805															1 830
95.2	1 742	96.4	1 764															1 830
99.1	1 813	98.1	1 795															1 831
95.7	1 752																	1 831
98.8	1 806																	1 832
																		1 832
96.4	1 765																	1 833
98.0	1 795																	1 833
																		1 834

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

t	10 °C		12 °C		14 °C		16 °C		18 °C		20 °C		22 °C	
	g	G	g	G	g	G	g	G	g	G	g	G	g	G
1 835	92.1	1 690	92.6	1 700	93.3	1 711	93.9	1 723	94.7	1 737	95.6	1 755		
1 836	92.3	1 696	92.9	1 706	93.6	1 718	94.3	1 730	95.1	1 746	96.4	1 770		
1 837	92.6	1 701	93.2	1 712	93.9	1 725	94.6	1 739	95.6	1 756	98.1	1 801		
1 838	92.9	1 707	93.5	1 719	94.3	1 732	95.1	1 748	96.3	1 770				
1 839	93.2	1 713	93.9	1 726	94.7	1 741	95.6	1 758	98.1	1 803				
1 840	93.5	1 720	100.0	1 838	99.4	1 829	98.7	1 814						
1 841	93.8	1 727	94.2	1 733	95.1	1 749	96.3	1 772						
1 842	94.2	1 735	99.7	1 835	99.1	1 824	98.1	1 804						
1 843	99.7	1 837	94.6	1 742	95.2	1 760								
1 844	94.6	1 743	99.5	1 831	98.7	1 817								
1 845	99.5	1 833	95.0	1 750	96.3	1 773								
1 846	94.6	1 743	99.1	1 826	98.1	1 807								
	99.5	1 833	95.6	1 761										
	98.7	1 820	96.3	1 776										
	99.2	1 829	98.2	1 810										
	95.6	1 763												
	98.8	1 823												
	96.2	1 776												
	98.3	1 814												

Table 1 — Density-composition table for aqueous solutions of sulphuric acid

D_t is the density (mass per unit volume) of solution (in kg/m³) at a temperature t (in °C) [for many purposes it can be assumed that irrespective of the value of t the reading of a BS density hydrometer at t gives the density D_t , and that the reading of a 60/60 °F relative density hydrometer at t is numerically 0.001 greater than $D_{t/1000}$ (see Appendix A)].

g is the mass (in g) of H₂SO₄ in 100 g mass of solution.

G is the mass (in g) of H₂SO₄ in a quantity of solution occupying 1 L at the temperature stated at the head of the column.

24 °C		26 °C		28 °C		30 °C		32 °C		34 °C		36 °C		38 °C		40 °C		t
g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	g	G	D_t
																		1 835
																		1 836
																		1 837
																		1 838
																		1 839
																		1 840
																		1 841
																		1 842
																		1 843
																		1 844
																		1 845
																		1 846

Appendix A Correction of readings taken on BS hydrometers

For many purposes it may be assumed that a reading taken at a temperature t (in °C) on a BS density hydrometer gives the density of the liquid D_t (in kg/m³) at t .

When a relative density hydrometer is used in a liquid at t the reading may be assumed to give the relative density of the liquid at t relative to water at 60 °F. Multiplying the readings thus obtained by 1 000 and applying the correction given in Table 2 will convert the reading to D_t (in kg/m³) at t before entering Table 1.

Table 2 — Corrections to be applied to obtain density at t

Relative density $t/60\text{ °F} \times 1\ 000$	Correction to give density at t
	kg/m ³
1 000	– 1.0
1 100	– 1.1
1 200	– 1.2
1 300	– 1.3
1 400	– 1.4
1 500	– 1.5
1 600	– 1.6
1 700	– 1.7
1 800	– 1.8
1 900	– 1.9

NOTE The sign being negative the quantity noted is to be subtracted to obtain the density at t .

Occasions may however arise when greater accuracy is necessary. Additional corrections can then be applied for:

- the scale error of the hydrometer;
- the difference between the temperature of the liquid and the standard temperature of the hydrometer;
- the difference between the surface tension of the liquid and that for which the hydrometer is adjusted.

These corrections are considered in detail as follows.

1) *Corrections for scale errors.* The maximum permissible errors allowed on BS hydrometers are given in Table 7. When these errors are too large to be ignored hydrometers furnished with National Measurement Accreditation Service certificates of calibration should be obtained and the corrections given thereon should be applied.

2) *Temperature corrections.* When the hydrometer reading is taken at a temperature t other than the standard temperature t_s (20 °C or 15 °C) then the reading is in error due to the difference in the volume of the hydrometer between t_s and t .

Appropriate corrections for making allowance for this temperature effect are given in Table 3.

Table 3 — Temperature corrections for BS hydrometers

Standard temperature t_s of hydrometer		Hydrometer reading at temperature t					
20 °C	15 °C	1 000	1 200	1 400	1 600	1 800	2 000
Temperature t of liquid		Correction (0.1 kg/m ³)					
°C	°C						
10	5	+ 3	+ 3	+ 4	+ 4	+ 5	+ 5
15	10	+ 1	+ 2	+ 2	+ 2	+ 2	+ 3
20	15	0	0	0	0	0	0
25	20	- 1	- 2	- 2	- 2	- 2	- 3
30	25	- 3	- 3	- 4	- 4	- 5	- 5
35	30	- 4	- 5	- 5	- 6	- 7	- 8
40	35	- 5	- 6	- 7	- 8	- 9	- 10
	40	- 6	- 8	- 9	- 10	- 11	- 13

NOTE 1 When the sign is positive the correction is to be added to the hydrometer reading and when negative to be subtracted from it.

NOTE 2 Table 3 is based on the value 0.000 025 per degree Celsius for the coefficient of cubical expansion of the hydrometer.

3) *Surface tension corrections*

i) *For hydrometers that are used in an overflow vessel so as to ensure that the acid surface is truly clean.* Using this means the highest accuracy can be achieved.

Values of the surface tensions of clean surfaces of aqueous solutions of sulphuric acid at 20 °C are given in Table 4. These are derived from data given in the International Critical Tables (1928) Vol. IV, page 464. It is unlikely that the values at other temperatures over the range 10 °C to 40 °C differ by more than 4 mN/m from the values at 20 °C.

Table 4 — Surface tensions of aqueous solutions of sulphuric acid at 20 °C

H ₂ SO ₄ in 100 g of solution	Surface tension of solution at 20 °C	H ₂ SO ₄ in 100 g of solution	Surface tension of solution at 20 °C
g	mN/m	g	mN/m
0	73	55	76
5	73	60	76
10	73	65	75
15	74	70	74
20	74	75	73
25	75	80	71
30	76	85	69
35	76	90	63
40	77	95	58
45	77	100	52
50	77		

when the highest accuracy is required hydrometers adjusted for the high surface tension value 75 mN/m should be used for sulphuric acid solutions having densities in the range 1 000 kg/m³ to 1 800 kg/m³, and hydrometers adjusted for the medium surface tension value 55 mN/m should be used for solutions having densities above 1 800 kg/m³. An indication of possible errors, in the form of corrections, which may be applied on account of the difference between the surface tension of the sulphuric acid solution and the surface tension for which the hydrometer is graduated is given in Table 8 of BS 718:1979.

It should be observed that it is of little advantage to apply these surface tension corrections unless corrections for scale errors and temperature are also applied.

ii) For hydrometers used without special precautions for obtaining a clean acid surface. In these circumstances the surface tensions of aqueous solutions are usually less than the surface tension values given in Table 4 for clean surfaces. Also, since the values depend to a great extent on the degree of contamination of the surface, the effective surface tension is erratic. Hence, when using ordinary hydrometer jars without overflow, it is not possible to assign a reliable value to the surface tension of the acid solution without measuring it. Under these conditions surface tension corrections are usually ignored. It may, however, be assumed that under ordinary conditions of cleanliness the values lie between 40 mN/m and 70 mN/m. It is therefore appropriate to use a BS hydrometer adjusted for 55 mN/m. The error then introduced by ignoring surface tension is unlikely to exceed the values given in Table 5.

Table 5 — Maximum errors introduced by ignoring surface tension when reading BS hydrometers, adjusted for 55 mN/m, in aqueous solutions of sulphuric acid in an ordinary hydrometer jar

Density of acid solution (in kg/m ³)	BS hydrometers adjusted for 55 mN/m				
	L20	L50	M50	M100	S50
	Maximum error (kg/m ³)				
1 000 to 1 850	± 0.2	± 0.3	± 0.5	± 0.9	± 0.8

It is of interest to examine the overall effect of ignoring corrections under a), b) and c) when using BS hydrometers adjusted for the medium surface tension value. In Table 6 the hydrometers are assumed to be floating in sulphuric acid solution of density between 1 000 kg/m³ to 1 850 kg/m³ at a temperature differing by ± 10 degrees Celsius from the standard temperature of the hydrometer.

Table 6 — Maximum errors due to omission of all corrections to BS hydrometers adjusted for 55 mN/m

Series	L20	L50	M50	M100	S50
Value of one sub-division (kg/m ³)	0.2	0.5	1.0	2.0	2.0
	kg/m ³	kg/m ³	kg/m ³	kg/m ³	kg/m ³
a) Maximum permissible scale corrections	± 0.2	± 0.5	± 1.0	± 2.0	± 2.0
b) Temperature corrections for ± 10 °C	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5
c) Maximum estimated surface tension corrections	± 0.2	± 0.3	± 0.5	± 0.9	± 0.8
Maximum value of total corrections	± 0.9	± 1.3	± 2.0	± 3.4	± 3.3
Error in grams is determined strength of solution of density 1 400 kg/m ³ at 30 °C (51.3 g of H ₂ SO ₄ per 100 g of solution or 718 g of H ₂ SO ₄ per 1 L of solution) corresponding to total corrections above.					
	g	g	g	g	g
H ₂ SO ₄ in 100 g of solution	± 0.1	± 0.1	± 0.2	± 3	± 3
H ₂ SO ₄ in 1 L of solution	± 2	± 3	± 3	± 7	± 7
NOTE It is assumed above that a BS density hydrometer was used. If a relative density hydrometer had been used without correction from Table 2, the errors resulting from the neglect of <i>all corrections</i> , would be between the values, in grams, given below.					
	g	g	g	g	g
H ₂ SO ₄ in 100 g of solution	0 + 0.2	0 + 0.3	- 0.1 + 0.3	- 0.2 + 0.5	- 0.2 + 0.5
H ₂ SO ₄ in 1 L of solution	+ 1 + 5	0 + 5	- 1 + 7	- 4 + 10	- 4 + 9

Example of application of hydrometer corrections

Hydrometer used: density hydrometer L50 range 1 750 kg/m³ to 1 800 kg/m³ at 20 °C adjusted for 75 mN/m, ascertained scale error + 0.5 kg/m³ (i.e. maximum permissible positive error).

Temperature of acid solution	27 °C
Uncorrected hydrometer reading using overflow technique	1 772 kg/m ³

Corrections

For scale error	– 0.5 kg/m ³
For temperature (from Table 3)	– 0.4 kg/m ³
For surface tension (from Table 4 and from Table 8 of BS 718:1979)	– 0.1 kg/m ³
Then density of acid solution at 27 °C	<u>1 771 kg/m³</u>

By interpolation in Table 1 a solution of density 1 771.0 kg/m³ at 27 °C contains 85.0 g of H₂SO₄ in 100 g of solution and 1 L of solution contains 1 505 g of H₂SO₄.

If the corrections for scale error, temperature and surface tension had been ignored, the values would have been 85.1 g and 1 508 g respectively.

Appendix B BS hydrometers available for use in conjunction with the tables

BS 718 affords a choice of hydrometers suitable for use in aqueous solutions of sulphuric acid. They may have scales of density at 20 °C or 15 °C.

The choice of the hydrometer series will depend on the accuracy required and the amount of the solution available. Table 7 gives the essential features of the various series of instruments suitable for aqueous solutions.

To use the hydrometers given in Table 7 to the best advantage (see Appendix A) it is recommended that they should be used in an overflow vessel as described in BS 718. Hydrometers adjusted for the high surface tension value 75 mN/m should be used for sulphuric acid solutions having densities in the range 1 000 kg/m³ to 1 800 kg/m³ and hydrometers adjusted for the medium surface tension value 55 mN/m should be used for solutions having densities above 1 800 kg/m³. If considered necessary, adjustments for the surface tension of the acid solution may also be made.

For work of lower accuracy hydrometers adjusted for the medium surface tension category (55 mN/m) may be used without adopting the overflow technique (see Table 5).

Appendix C Examples of the use of Table 1 in conjunction with BS hydrometers

NOTE In these examples it has been assumed that either:

- the readings on BS density hydrometers (or relative density hydrometers corrected to read density) have been corrected as described in Appendix A; or
- the corrections are not significant to the accuracy required.

The hydrometer readings are therefore assumed to indicate the density of the acid solution (in kg/m³) at the temperature determination.

C.1 To determine the strength of an aqueous solution of sulphuric acid

Suppose that the temperature of the solution is 28 °C and the density at that temperature (see note) is 1 806 kg/m³. Then in Table 1 under the temperature 28 °C and opposite $D_t = 1 896$ will be found $g = 90.0$ and $G = 1 626$, indicating that the solution contains 90.0 g of H₂SO₄ in 100 g of solution and 1 626 g of H₂SO₄ in 1 L of solution at 28 °C.

Suppose that the temperature of the solution is 16 °C and the density at that temperature is 1 839 kg/m³. Then from Table 1 the solution contains either 95.6 g of H₂SO₄ in 100 g of solution or 98.7 g of H₂SO₄ in 100 g of solution. Which of the two is correct can be settled by cautiously adding some of the solution to a little water. If this results in an increase of density, the original solution was the more concentrated of the two possible strengths, and vice versa.

Table 7 — BS Hydrometers available for use in aqueous solutions of sulphuric acid

Series	Maximum total length	Nominal range of each hydrometer		Number of scale divisions and value of the scale interval		Minimum scale length (nominal range)	Bulb diameter		Volume below lowest graduation line of nominal range		Extension of scale at each and beyond upper and lower nominal limits	Maximum permitted error at any point on the scale
							min.	max.	min.	max.		
	mm	kg/m ³	g/mL	kg/m ³	g/mL	mm	mm	mm	mL	mL		kg/m ³
L20	335	20	0.020	100 × 0.2	100 × 0.000 2	105	36	40	108	132	5 to 10	± 0.2
L50	335	50	0.050	100 × 0.5	100 × 0.000 5	125	23	27	50	65	2 to 5	± 0.5
M50	270	50	0.050	50 × 1	50 × 0.001	70	20	24	30	45	2 to 5	± 1.0
M100	250	100	0.100	50 × 2	50 × 0.002	85	18	20	18	26	2 to 5	± 2.0
S50	190	50	0.050	25 × 2	25 × 0.002	50	18	20	18	26	2 to 3	± 2.0

C.2 To make up a solution containing 4.7 g of H₂SO₄ in 100 g of solution

In Table 1 under $t = 20\text{ }^{\circ}\text{C}$ the value of D_t corresponding to $g = 4.7\text{ g}$ is $1\ 030\text{ kg/m}^3$. Concentrated acid should therefore be added to an appropriate quantity of water²⁾, in small quantities at a time, with thorough mixing and avoidance of an undue rise in temperature, the density of the diluted acid being checked with a BS hydrometer during the dilution until the hydrometer indicates that the density is approaching $1\ 030\text{ kg/m}^3$. At this stage and before making the final adjustment, the temperature of the solution is taken. Suppose it is $30\text{ }^{\circ}\text{C}$; then from Table 1 the value of D_t corresponding to $g = 4.7\text{ g}$ in the column headed $30\text{ }^{\circ}\text{C}$ is $1\ 026\text{ kg/m}^3$. The solution at $30\text{ }^{\circ}\text{C}$ should therefore be adjusted so that a BS hydrometer indicates that its density is $1\ 026\text{ kg/m}^3$ (see note). The solution thus obtained will contain 4.7 g of H₂SO₄ in 100 g of solution.

C.3 To make up a solution containing 678 g of H₂SO₄ in 1 L of solution at 20 °C

From Table 1 under the heading $20\text{ }^{\circ}\text{C}$ it is found that a solution containing 678 g of H₂SO₄ per litre has 49.0 g of H₂SO₄ per 100 g of solution. Therefore the required solution is made up as in C.2 using $g = 49.0$.

²⁾ The appropriate proportions of acid and water can be roughly calculated beforehand if the strength of the concentrated acid is known. For example, suppose that concentrated acid containing approximately 96 g of H₂SO₄ in 100 g of acid is used. From Table 1, 1 L of the concentrated acid at $20\text{ }^{\circ}\text{C}$ contains 1 763 g of H₂SO₄. Also from Table 1, 1 L of solution containing 4.7 g of H₂SO₄ in 100 g of solution contains 49 g of H₂SO₄ per litre at $20\text{ }^{\circ}\text{C}$. Now 49 g will be contained in $\frac{49 \times 1000}{1763}$ mL, i.e. 27.7 mL, of concentrated acid. Therefore 27.7 mL of the concentrated acid are required to make up 1 L of the solution containing 49 g of H₂SO₄ per litre, i.e. 4.7 g of H₂SO₄ per 100 g of solution. The volume of water required will be roughly $1\ 000 - 27.7\text{ mL} = 970\text{ mL}$.

Publications referred to

BS 718, *Specification for density hydrometers.*

BS 733, *Pyknometers*³⁾.

ISO 650, *Relative density 60/60 °F hydrometers for general purposes*³⁾.

ISO 911, *Sulphuric acid for industrial use — Evaluation of sulphuric acid concentration by measurement of density*³⁾.

ISO 1768, *Glass hydrometers — Conventional value for the thermal cubic expansion coefficient (for use in the preparation of measurement tables for liquids)*³⁾.

³⁾ Referred to in the foreword only.

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