

UNITED STATES DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

Letter
Circular
LC-770

Washington

November 1, 1944

EXPANDED TABLE OF WEIGHTS PER UNITED STATES GALLON AND WEIGHTS
PER CUBIC FOOT OF SUGAR (SUCROSE) SOLUTIONS AT 20°C

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It is frequently necessary to express the density of a sugar sirup or molasses in terms of weight per gallon or weight per cubic foot. Consequently, numerous requests for a table giving these weights have been received at the National Bureau of Standards. The sixth edition of Spencer's "Handbook for Cane Sugar Manufacturers and Their Chemists" contained a table of weights per gallon and per cubic foot, which was based on the density values of Stammer, standard at 17.5°C. It was obvious that a table standard at 20°C would be more desirable. For that reason a table was constructed, based on the density values of Plato, which are considered the most reliable of those available, and on the standard temperature of 20°C. This table was published in Circular No. 375 of this Bureau (out of print) and gave the values for each whole degree Brix (percent sucrose by weight). In the seventh edition of Spencer's Handbook, revised by George P. Meade, the new 20°C table was reprinted (see pages 476 and 477) by permission of the National Bureau of Standards. It appears that it has found more or less general use in the gauging of sugar sirups and molasses.

In the laboratories of this Bureau where large numbers of density determinations on sirups and molasses are made, it was found expedient to expand the original table to intervals of one-tenth degree Brix, thereby simplifying the interpolations.

In the original calculations the weights per gallon in vacuo for each whole degree Brix were computed from the specific gravities at 20°C/20°C, which are based on the density values of Plato. The weights in grams per gallon in vacuo were converted to weights in air (barometer reading, 760 mm of mercury; temperature, 20°C; density of air, 0.0012) for brass weights (density 8.4). The resulting metric weights were then converted to pounds per gallon in air through dividing them by the equivalent of one pound avoirdupois in grams, which is 453.5924. Pounds per cubic foot in air were computed from the results of

this conversion by multiplying them by the gallons per cubic foot (1728/231). In constructing the expanded table, the values for the fractional degrees Brix were obtained by straight-line interpolation between the computed values for whole degrees Brix, retaining sufficient figures to fix the last figure given.

Various methods of determining the density of molasses and sugar sirups are employed, for example by the use of the Brix hydrometer, Baume hydrometer, picnometer, direct-reading density balance, etc. To facilitate the conversion to weights per gallon or per cubic foot, the table includes degrees Brix (percent sucrose by weight), degrees Baume, and true specific gravity, 20°C/20°C (Technologic Paper No. 115); true density, 20°C/4°C (Circular C440, table 113); and apparent specific gravity in air at 20°C and grams of sucrose per 100 ml of solution in vacuo (Circular C440, table 114).

Detailed information on the analysis of sugars and sugar products, including sirups and molasses, together with numerous tables relating to various properties of these materials, are contained in National Bureau of Standards Circular C440, "Polarimetry, Saccharimetry, and the Sugars", by Frederick Bates and Associates. This Circular (810 pages) can be secured from the Superintendent of Documents, Government Printing Office, Washington, D.C., for \$2.00.

| Brix | Baume M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C |
|------|----------------|--------------------------------------|---|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0.0 | 0.00 | 0.99823 | 1.00000 | 0.000 | 1.00000 | 8.322 | 3774.6 | 62.25 |
| .1 | .06 | .99862 | .00039 | .100 | .00039 | .325 | 3776.1 | .27 |
| .2 | .11 | .99901 | .00078 | .200 | .00078 | .328 | 3777.6 | .30 |
| .3 | .17 | .99940 | .00117 | .300 | .00117 | .331 | 3779.1 | .32 |
| .4 | .22 | .99979 | .00155 | .400 | .00156 | .335 | 3780.5 | .35 |
| .5 | .28 | 1.00017 | .00194 | .500 | .00194 | .338 | 3782.0 | .37 |
| .6 | .34 | .00056 | .00233 | .600 | .00233 | .341 | 3783.5 | .40 |
| .7 | .39 | .00095 | .00272 | .701 | .00272 | .344 | 3784.9 | .42 |
| .8 | .45 | .00134 | .00311 | .801 | .00312 | .348 | 3786.4 | .44 |
| .9 | .51 | .00173 | .00350 | .902 | .00351 | .351 | 3787.9 | .47 |
| 1.0 | 0.56 | 1.00212 | 1.00389 | 1.002 | 1.00390 | 8.354 | 3789.3 | 62.49 |
| .1 | .62 | .00251 | .00428 | .103 | .00429 | .357 | 3790.8 | .52 |
| .2 | .67 | .00290 | .00467 | .203 | .00468 | .361 | 3792.3 | .54 |
| .3 | .73 | .00329 | .00506 | .304 | .00507 | .364 | 3793.8 | .57 |
| .4 | .79 | .00368 | .00545 | .405 | .00546 | .367 | 3795.2 | .59 |
| .5 | .84 | .00406 | .00584 | .506 | .00585 | .370 | 3796.7 | .61 |
| .6 | .90 | .00445 | .00623 | .607 | .00624 | .374 | 3798.2 | .64 |
| .7 | .95 | .00484 | .00662 | .708 | .00663 | .377 | 3799.7 | .66 |
| .8 | 1.01 | .00523 | .00701 | .809 | .00702 | .380 | 3801.1 | .69 |
| .9 | .07 | .00562 | .00740 | .911 | .00741 | .383 | 3802.6 | .71 |
| 2.0 | 1.12 | 1.00602 | 1.00779 | 2.012 | 1.00780 | 8.387 | 3804.1 | 62.74 |
| .1 | .18 | .00641 | .00818 | .113 | .00819 | .390 | 3805.6 | .76 |
| .2 | .23 | .00680 | .00858 | .215 | .00859 | .393 | 3807.1 | .78 |
| .3 | .29 | .00719 | .00897 | .317 | .00898 | .396 | 3808.5 | .81 |
| .4 | .34 | .00758 | .00936 | .418 | .00937 | .400 | 3810.0 | .83 |
| .5 | .40 | .00797 | .00976 | .520 | .00977 | .403 | 3811.5 | .86 |
| .6 | .46 | .00836 | .01015 | .622 | .01016 | .406 | 3813.0 | .88 |
| .7 | .51 | .00876 | .01054 | .724 | .01055 | .409 | 3814.5 | .91 |
| .8 | .57 | .00915 | .01093 | .826 | .01094 | .413 | 3816.0 | .93 |
| .9 | .62 | .00954 | .01133 | .928 | .01134 | .416 | 3817.5 | .96 |
| 3.0 | 1.68 | 1.00993 | 1.01172 | 3.030 | 1.01173 | 8.419 | 3818.9 | 62.98 |
| .1 | .74 | .01033 | .01211 | .132 | .01213 | .423 | 3820.4 | 63.01 |
| .2 | .79 | .01072 | .01251 | .234 | .01252 | .426 | 3821.9 | .03 |
| .3 | .85 | .01112 | .01290 | .337 | .01292 | .429 | 3823.4 | .05 |
| .4 | .90 | .01151 | .01330 | .439 | .01331 | .432 | 3824.9 | .08 |
| .5 | .96 | .01190 | .01369 | .542 | .01371 | .436 | 3826.4 | .10 |
| .6 | 2.02 | .01230 | .01409 | .644 | .01410 | .439 | 3827.9 | .13 |
| .7 | .07 | .01269 | .01448 | .747 | .01450 | .442 | 3829.4 | .15 |
| .8 | .13 | .01309 | .01488 | .850 | .01490 | .446 | 3830.9 | .18 |
| .9 | .18 | .01348 | .01528 | .953 | .01529 | .449 | 3832.4 | .20 |

| Brix | Baumé M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4.0 | 2.24 | 1.01388 | 1.01567 | 4.056 | 1.01569 | 8.452 | 3833.9 | 63.23 |
| .1 | .29 | .01428 | .01607 | .159 | .01609 | .456 | 3835.4 | .25 |
| .2 | .35 | .01467 | .01647 | .262 | .01649 | .459 | 3836.9 | .28 |
| .3 | .40 | .01507 | .01687 | .365 | .01688 | .462 | 3838.4 | .30 |
| .4 | .46 | .01547 | .01726 | .468 | .01728 | .465 | 3839.9 | .33 |
| .5 | .52 | .01586 | .01766 | .571 | .01768 | .469 | 3841.4 | .35 |
| .6 | .57 | .01626 | .01806 | .675 | .01808 | .472 | 3842.9 | .38 |
| .7 | .63 | .01666 | .01846 | .778 | .01848 | .475 | 3844.4 | .40 |
| .8 | .68 | .01706 | .01886 | .882 | .01888 | .479 | 3845.9 | .43 |
| .9 | .74 | .01746 | .01926 | .986 | .01928 | .482 | 3847.4 | .45 |
| 5.0 | 2.79 | 1.01785 | 1.01965 | 5.089 | 1.01968 | 8.485 | 3848.9 | 63.48 |
| .1 | .85 | .01825 | .02005 | .193 | .02008 | .489 | 3850.4 | .50 |
| .2 | .91 | .01865 | .02045 | .297 | .02048 | .492 | 3851.9 | .53 |
| .3 | .96 | .01905 | .02085 | .401 | .02088 | .495 | 3853.5 | .55 |
| .4 | 3.02 | .01945 | .02125 | .506 | .02128 | .499 | 3855.0 | .58 |
| .5 | .07 | .01985 | .02165 | .609 | .02168 | .502 | 3856.5 | .60 |
| .6 | .13 | .02025 | .02206 | .713 | .02208 | .505 | 3858.0 | .63 |
| .7 | .18 | .02065 | .02246 | .818 | .02248 | .509 | 3859.5 | .65 |
| .8 | .24 | .02105 | .02286 | .922 | .02289 | .512 | 3861.0 | .68 |
| .9 | .30 | .02145 | .02321 | 6.027 | .02329 | .515 | 3862.5 | .70 |
| 6.0 | 3.35 | 1.02186 | 1.02366 | 6.131 | 1.02369 | 8.519 | 3864.1 | 63.73 |
| .1 | .41 | .02226 | .02407 | .236 | .02409 | .522 | 3865.6 | .75 |
| .2 | .46 | .02266 | .02447 | .340 | .02450 | .526 | 3867.1 | .78 |
| .3 | .52 | .02306 | .02487 | .445 | .02490 | .529 | 3868.6 | .80 |
| .4 | .57 | .02346 | .02527 | .550 | .02530 | .532 | 3870.2 | .83 |
| .5 | .63 | .02387 | .02568 | .655 | .02571 | .536 | 3871.7 | .85 |
| .6 | .69 | .02427 | .02608 | .760 | .02611 | .539 | 3873.2 | .88 |
| .7 | .74 | .02467 | .02648 | .865 | .02652 | .542 | 3874.7 | .90 |
| .8 | .80 | .02508 | .02689 | .971 | .02692 | .546 | 3876.3 | .93 |
| .9 | .85 | .02548 | .02729 | 7.076 | .02733 | .549 | 3877.8 | .95 |
| 7.0 | 3.91 | 1.02588 | 1.02770 | 7.181 | 1.02773 | 8.552 | 3879.3 | 63.98 |
| .1 | .96 | .02629 | .02810 | .287 | .02814 | .556 | 3880.9 | 64.00 |
| .2 | 4.02 | .02669 | .02851 | .392 | .02854 | .559 | 3882.4 | .03 |
| .3 | .08 | .02710 | .02892 | .498 | .02895 | .563 | 3883.9 | .05 |
| .4 | .13 | .02750 | .02932 | .604 | .02936 | .566 | 3885.5 | .08 |
| .5 | .19 | .02791 | .02973 | .709 | .02976 | .569 | 3887.0 | .10 |
| .6 | .24 | .02832 | .03013 | .815 | .03017 | .573 | 3888.5 | .13 |
| .7 | .30 | .02872 | .03054 | .921 | .03058 | .576 | 3890.1 | .15 |
| .8 | .35 | .02913 | .03095 | 8.027 | .03098 | .580 | 3891.6 | .18 |
| .9 | .41 | .02954 | .03136 | .133 | .03139 | .583 | 3893.1 | .20 |

| Brix | Baumé M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C |
|------|----------------|--------------------------------------|--|---|--|---|--------|--|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 8.0 | 4.46 | 1.02994 | 1.03176 | 8.240 | 1.03180 | 8.586 | 3894.7 | 64.23 |
| .1 | .52 | .03035 | .03217 | .346 | .03221 | .590 | 3896.2 | .26 |
| .2 | .58 | .03076 | .03258 | .452 | .03262 | .593 | 3897.8 | .28 |
| .3 | .63 | .03116 | .03299 | .559 | .03303 | .597 | 3899.3 | .31 |
| .4 | .69 | .03157 | .03340 | .665 | .03344 | .600 | 3900.9 | .33 |
| .5 | .74 | .03198 | .03381 | .772 | .03385 | .603 | 3902.4 | .36 |
| .6 | .80 | .03239 | .03422 | .879 | .03426 | .607 | 3904.0 | .38 |
| .7 | .85 | .03280 | .03463 | .985 | .03467 | .610 | 3905.5 | .41 |
| .8 | .91 | .03321 | .03504 | 9.092 | .03508 | .614 | 3907.1 | .43 |
| .9 | .96 | .03362 | .03545 | .199 | .03549 | .617 | 3908.6 | .46 |
| 9.0 | 5.02 | 1.03403 | 1.03586 | 9.306 | 1.03590 | 8.620 | 3910.2 | 64.49 |
| .1 | .07 | .03444 | .03627 | .413 | .03631 | .624 | 3911.7 | .51 |
| .2 | .13 | .03485 | .03668 | .521 | .03672 | .627 | 3913.3 | .54 |
| .3 | .19 | .03526 | .03709 | .628 | .03713 | .631 | 3914.8 | .56 |
| .4 | .24 | .03567 | .03750 | .735 | .03755 | .634 | 3916.4 | .59 |
| .5 | .30 | .03608 | .03792 | .843 | .03796 | .638 | 3918.0 | .61 |
| .6 | .35 | .03649 | .03833 | .950 | .03837 | .641 | 3919.5 | .64 |
| .7 | .41 | .03691 | .03874 | 10.058 | .03879 | .644 | 3921.1 | .67 |
| .8 | .46 | .03732 | .03915 | .166 | .03920 | .648 | 3922.6 | .69 |
| .9 | .52 | .03773 | .03957 | .274 | .03961 | .651 | 3924.2 | .72 |
| 10.0 | 5.57 | 1.03814 | 1.03998 | 10.381 | 1.04003 | 8.655 | 3925.7 | 64.74 |
| .1 | .63 | .03856 | .04039 | .489 | .04044 | .658 | 3927.3 | .77 |
| .2 | .68 | .03897 | .04081 | .597 | .04086 | .662 | 3928.9 | .79 |
| .3 | .74 | .03938 | .04122 | .706 | .04127 | .665 | 3930.4 | .82 |
| .4 | .80 | .03980 | .04164 | .814 | .04169 | .669 | 3932.0 | .85 |
| .5 | .85 | .04021 | .04205 | .922 | .04210 | .672 | 3933.6 | .87 |
| .6 | .91 | .04063 | .04247 | 11.031 | .04252 | .675 | 3935.1 | .90 |
| .7 | .96 | .04104 | .04288 | .139 | .04293 | .679 | 3936.7 | .92 |
| .8 | 6.02 | .04146 | .04330 | .248 | .04335 | .682 | 3938.3 | .95 |
| .9 | .07 | .04187 | .04371 | .356 | .04377 | .686 | 3939.9 | .97 |
| 11.0 | 6.13 | 1.04229 | 1.04413 | 11.465 | 1.04418 | 8.689 | 3941.4 | 65.00 |
| .1 | .18 | .04270 | .04455 | .574 | .04460 | .693 | 3943.0 | .03 |
| .2 | .24 | .04312 | .04497 | .683 | .04502 | .696 | 3944.6 | .05 |
| .3 | .30 | .04354 | .04538 | .792 | .04544 | .700 | 3946.2 | .08 |
| .4 | .35 | .04395 | .04580 | .901 | .04585 | .703 | 3947.7 | .11 |
| .5 | .41 | .04437 | .04622 | 12.010 | .04627 | .707 | 3949.3 | .13 |
| .6 | .46 | .04479 | .04664 | .120 | .04669 | .710 | 3950.9 | .16 |
| .7 | .52 | .04521 | .04706 | .229 | .04711 | .714 | 3952.5 | .18 |
| .8 | .57 | .04562 | .04747 | .338 | .04753 | .717 | 3954.1 | .21 |
| .9 | .63 | .04604 | .04789 | .448 | .04795 | .721 | 3955.6 | .24 |

| Brix | Baumé M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| | | | | | | 7 | 8 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 12.0 | 6.68 | 1.04646 | 1.04831 | 12.558 | 1.04837 | 8.724 | 3957.2 | 65.26 |
| .1 | .74 | .04688 | .04873 | .667 | .04879 | .728 | 3958.8 | .29 |
| .2 | .79 | .04730 | .04915 | .777 | .04921 | .731 | 3960.4 | .31 |
| .3 | .85 | .04772 | .04957 | .887 | .04963 | .735 | 3962.0 | .34 |
| .4 | .90 | .04814 | .04999 | .997 | .05005 | .738 | 3963.6 | .37 |
| .5 | .96 | .04856 | .05041 | 13.107 | .05047 | .742 | 3965.2 | .39 |
| .6 | 7.02 | .04898 | .05084 | .217 | .05090 | .745 | 3966.8 | .42 |
| .7 | .07 | .04940 | .05126 | .327 | .05132 | .749 | 3968.4 | .44 |
| .8 | .13 | .04982 | .05168 | .438 | .05174 | .752 | 3969.9 | .47 |
| .9 | .18 | .05024 | .05210 | .548 | .05216 | .756 | 3971.5 | .50 |
| 13.0 | 7.24 | 1.05066 | 1.05252 | 13.659 | 1.05259 | 8.759 | 3973.1 | 65.52 |
| .1 | .29 | .05109 | .05295 | .769 | .05301 | .763 | 3974.7 | .55 |
| .2 | .35 | .05151 | .05337 | .880 | .05343 | .766 | 3976.3 | .58 |
| .3 | .40 | .05193 | .05379 | .991 | .05386 | .770 | 3977.9 | .60 |
| .4 | .46 | .05236 | .05422 | 14.102 | .05428 | .773 | 3979.6 | .63 |
| .5 | .51 | .05278 | .05464 | .213 | .05470 | .777 | 3981.2 | .66 |
| .6 | .57 | .05320 | .05506 | .324 | .05513 | .781 | 3982.8 | .68 |
| .7 | .62 | .05363 | .05549 | .435 | .05556 | .784 | 3984.4 | .71 |
| .8 | .68 | .05405 | .05591 | .546 | .05598 | .788 | 3986.0 | .74 |
| .9 | .73 | .05448 | .05634 | .657 | .05641 | .791 | 3987.6 | .76 |
| 14.0 | 7.79 | 1.05490 | 1.05677 | 14.769 | 1.05683 | 8.795 | 3989.2 | 65.79 |
| .1 | .84 | .05532 | .05719 | .880 | .05726 | .798 | 3990.8 | .82 |
| .2 | .90 | .05575 | .05762 | .992 | .05769 | .802 | 3992.4 | .84 |
| .3 | .96 | .05618 | .05804 | 15.103 | .05811 | .805 | 3994.0 | .87 |
| .4 | 8.01 | .05660 | .05847 | .215 | .05854 | .809 | 3995.6 | .90 |
| .5 | .07 | .05703 | .05890 | .327 | .05897 | .812 | 3997.3 | .92 |
| .6 | .12 | .05746 | .05933 | .439 | .05940 | .816 | 3998.9 | .95 |
| .7 | .18 | .05788 | .05975 | .551 | .05982 | .820 | 4000.5 | .97 |
| .8 | .23 | .05831 | .06018 | .663 | .06025 | .823 | 4002.1 | 66.00 |
| .9 | .29 | .05874 | .06061 | .775 | .06068 | .827 | 4003.7 | .03 |
| 15.0 | 8.34 | 1.05916 | 1.06104 | 15.887 | 1.06111 | 8.830 | 4005.3 | 66.05 |
| .1 | .40 | .05959 | .06147 | 16.000 | .06154 | .834 | 4007.0 | .08 |
| .2 | .45 | .06002 | .06190 | .112 | .06197 | .837 | 4008.6 | .11 |
| .3 | .51 | .06045 | .06233 | .225 | .06240 | .841 | 4010.2 | .14 |
| .4 | .56 | .06088 | .06275 | .338 | .06283 | .845 | 4011.8 | .16 |
| .5 | .62 | .06131 | .06319 | .450 | .06326 | .848 | 4013.5 | .19 |
| .6 | .67 | .06174 | .06362 | .563 | .06369 | .852 | 4015.1 | .22 |
| .7 | .73 | .06217 | .06405 | .676 | .06412 | .855 | 4016.7 | .24 |
| .8 | .78 | .06260 | .06448 | .789 | .06455 | .859 | 4018.3 | .27 |
| .9 | .84 | .06303 | .06491 | .902 | .06499 | .863 | 4020.0 | .30 |

| Brix | Baumé M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 16.0 | 8.89 | 1.06346 | 1.06534 | 17.015 | 1.06542 | 8.866 | 4021.6 | 66.32 |
| .1 | .95 | .06389 | .06577 | .129 | .06585 | .870 | 4023.2 | .35 |
| .2 | 9.00 | .06432 | .06621 | .242 | .06629 | .873 | 4024.9 | .38 |
| .3 | .06 | .06476 | .06664 | .356 | .06672 | .877 | 4026.5 | .40 |
| .4 | .11 | .06519 | .06707 | .469 | .06715 | .881 | 4028.1 | .43 |
| .5 | .17 | .06562 | .06751 | .583 | .06759 | .884 | 4029.8 | .46 |
| .6 | .22 | .06605 | .06794 | .697 | .06802 | .888 | 4031.4 | .49 |
| .7 | .28 | .06649 | .06837 | .810 | .06845 | .891 | 4033.1 | .51 |
| .8 | .33 | .06692 | .06881 | .924 | .06889 | .895 | 4034.7 | .54 |
| .9 | .39 | .06736 | .06924 | 18.038 | .06933 | .899 | 4036.3 | .57 |
| 17.0 | 9.45 | 1.06779 | 1.06968 | 18.152 | 1.06976 | 8.902 | 4038.0 | 66.59 |
| .1 | .50 | .06822 | .07011 | .267 | .07020 | .906 | 4039.6 | .62 |
| .2 | .56 | .06866 | .07055 | .381 | .07063 | .909 | 4041.3 | .65 |
| .3 | .61 | .06909 | .07098 | .495 | .07107 | .913 | 4042.9 | .67 |
| .4 | .67 | .06953 | .07142 | .610 | .07151 | .917 | 4044.6 | .70 |
| .5 | .72 | .06996 | .07186 | .724 | .07194 | .920 | 4046.2 | .73 |
| .6 | .78 | .07040 | .07229 | .839 | .07238 | .924 | 4047.9 | .76 |
| .7 | .83 | .07084 | .07273 | .954 | .07282 | .928 | 4049.5 | .78 |
| .8 | .89 | .07127 | .07317 | 19.069 | .07325 | .931 | 4051.2 | .81 |
| .9 | .94 | .07171 | .07361 | .184 | .07369 | .935 | 4052.8 | .84 |
| 18.0 | 10.00 | 1.07215 | 1.07404 | 19.299 | 1.07413 | 8.939 | 4054.5 | 66.87 |
| .1 | .05 | .07258 | .07448 | .414 | .07457 | .942 | 4056.1 | .89 |
| .2 | .11 | .07302 | .07492 | .529 | .07501 | .946 | 4057.8 | .92 |
| .3 | .16 | .07346 | .07536 | .644 | .07545 | .950 | 4059.4 | .95 |
| .4 | .22 | .07390 | .07580 | .760 | .07589 | .953 | 4061.1 | .97 |
| .5 | .27 | .07434 | .07624 | .875 | .07633 | .957 | 4062.8 | 67.00 |
| .6 | .33 | .07478 | .07668 | .991 | .07677 | .961 | 4064.4 | .03 |
| .7 | .38 | .07522 | .07712 | 20.107 | .07721 | .964 | 4066.1 | .06 |
| .8 | .44 | .07566 | .07756 | .222 | .07765 | .968 | 4067.8 | .08 |
| .9 | .49 | .07610 | .07800 | .338 | .07809 | .972 | 4069.4 | .11 |
| 19.0 | 10.55 | 1.07654 | 1.07844 | 20.454 | 1.07853 | 8.975 | 4071.1 | 67.14 |
| .1 | .60 | .07698 | .07888 | .570 | .07898 | .979 | 4072.8 | .17 |
| .2 | .66 | .07742 | .07932 | .686 | .07942 | .983 | 4074.4 | .19 |
| .3 | .71 | .07786 | .07977 | .803 | .07986 | .986 | 4076.1 | .22 |
| .4 | .77 | .07830 | .08021 | .919 | .08030 | .990 | 4077.8 | .25 |
| .5 | .82 | .07874 | .08065 | 21.036 | .08075 | .994 | 4079.5 | .28 |
| .6 | .88 | .07919 | .08110 | .152 | .08119 | .997 | 4081.1 | .30 |
| .7 | .93 | .07963 | .08154 | .269 | .08164 | 9.001 | 4082.8 | .33 |
| .8 | .99 | .08007 | .08198 | .385 | .08208 | .005 | 4084.5 | .36 |
| .9 | 11.04 | .08052 | .08243 | .502 | .08252 | .008 | 4086.2 | .39 |

| Brix | Baume M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| | | | | | | 7 | 8 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 20.0 | 11.10 | 1.08096 | 1.08287 | 21.619 | 1.08297 | 9.012 | 4087.8 | 67.42 |
| .1 | .15 | .08140 | .08332 | .736 | .08342 | .016 | 4089.5 | .44 |
| .2 | .21 | .08185 | .08376 | .853 | .08386 | .020 | 4091.2 | .47 |
| .3 | .26 | .08229 | .08421 | .971 | .08431 | .023 | 4092.9 | .50 |
| .4 | .32 | .08274 | .08465 | 22.088 | .08475 | .027 | 4094.6 | .53 |
| .5 | .37 | .08318 | .08510 | .205 | .08520 | .031 | 4096.3 | .55 |
| .6 | .43 | .08363 | .08554 | .323 | .08565 | .034 | 4097.9 | .58 |
| .7 | .48 | .08407 | .08599 | .440 | .08609 | .038 | 4099.6 | .61 |
| .8 | .54 | .08452 | .08644 | .558 | .08654 | .042 | 4101.3 | .64 |
| .9 | .59 | .08497 | .08689 | .676 | .08699 | .046 | 4103.0 | .67 |
| 21.0 | 11.65 | 1.08541 | 1.08733 | 22.794 | 1.08744 | 9.049 | 4104.7 | 67.69 |
| .1 | .70 | .08586 | .08778 | .912 | .08789 | .053 | 4106.4 | .72 |
| .2 | .76 | .08631 | .08823 | 23.030 | .08834 | .057 | 4108.1 | .75 |
| .3 | .81 | .08676 | .08868 | .148 | .08879 | .061 | 4109.8 | .78 |
| .4 | .87 | .08720 | .08913 | .266 | .08923 | .064 | 4111.5 | .81 |
| .5 | .92 | .08765 | .08958 | .385 | .08968 | .068 | 4113.2 | .83 |
| .6 | .98 | .08810 | .09003 | .503 | .09013 | .072 | 4114.9 | .86 |
| .7 | 12.03 | .08855 | .09048 | .622 | .09058 | .076 | 4116.6 | .89 |
| .8 | .09 | .08900 | .09093 | .740 | .09103 | .079 | 4118.3 | .92 |
| .9 | .14 | .08945 | .09138 | .859 | .09149 | .083 | 4120.0 | .95 |
| 22.0 | 12.20 | 1.08990 | 1.09183 | 23.978 | 1.09194 | 9.087 | 4121.7 | 67.97 |
| .1 | .25 | .09035 | .09228 | 24.097 | .09239 | .091 | 4123.4 | 68.00 |
| .2 | .31 | .09080 | .09273 | .216 | .09284 | .094 | 4125.1 | .03 |
| .3 | .36 | .09125 | .09318 | .335 | .09329 | .098 | 4126.8 | .06 |
| .4 | .42 | .09170 | .09364 | .454 | .09375 | .102 | 4128.5 | .09 |
| .5 | .47 | .09216 | .09409 | .573 | .09420 | .106 | 4130.2 | .11 |
| .6 | .52 | .09261 | .09454 | .693 | .09465 | .109 | 4132.0 | .14 |
| .7 | .58 | .09306 | .09499 | .812 | .09511 | .113 | 4133.7 | .17 |
| .8 | .63 | .09351 | .09545 | .932 | .09556 | .117 | 4135.4 | .20 |
| .9 | .69 | .09397 | .09590 | 25.052 | .09602 | .121 | 4137.1 | .23 |
| 23.0 | 12.74 | 1.09442 | 1.09636 | 25.172 | 1.09647 | 9.125 | 4138.8 | 68.26 |
| .1 | .80 | .09487 | .09681 | .292 | .09693 | .128 | 4140.5 | .28 |
| .2 | .85 | .09533 | .09727 | .412 | .09738 | .132 | 4142.3 | .31 |
| .3 | .91 | .09578 | .09772 | .532 | .09784 | .136 | 4144.0 | .34 |
| .4 | .96 | .09624 | .09818 | .652 | .09829 | .140 | 4145.7 | .37 |
| .5 | 13.02 | .09669 | .09863 | .772 | .09875 | .143 | 4147.4 | .40 |
| .6 | .07 | .09715 | .09909 | .893 | .09921 | .147 | 4149.1 | .43 |
| .7 | .13 | .09760 | .09954 | 26.013 | .09966 | .151 | 4150.9 | .46 |
| .8 | .18 | .09806 | 1.0000 | .134 | 1.0012 | .155 | 4152.6 | .48 |
| .9 | .24 | .09851 | 1.0046 | .255 | 1.0058 | .159 | 4154.3 | .51 |

| Brix | Baumé M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| | | | | | | 7 | 8 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 24.0 | 13.29 | 1.09897 | 1.10092 | 26.375 | 1.10104 | 9.163 | 4156.0 | 68.54 |
| .1 | .35 | .09943 | .10137 | .496 | .10149 | .166 | 4157.8 | .57 |
| .2 | .40 | .09989 | .10183 | .617 | .10195 | .170 | 4159.5 | .60 |
| .3 | .46 | .10034 | .10229 | .738 | .10241 | .174 | 4161.2 | .63 |
| .4 | .51 | .10080 | .10275 | .860 | .10287 | .178 | 4163.0 | .65 |
| .5 | .57 | .10126 | .10321 | .981 | .10333 | .182 | 4164.7 | .68 |
| .6 | .62 | .10172 | .10367 | 27.102 | .10370 | .185 | 4166.4 | .71 |
| .7 | .67 | .10218 | .10413 | .224 | .10425 | .189 | 4168.2 | .74 |
| .8 | .73 | .10264 | .10459 | .345 | .10471 | .193 | 4169.9 | .77 |
| .9 | .78 | .10310 | .10505 | .467 | .10517 | .197 | 4171.7 | .80 |
| 25.0 | 13.84 | 1.10356 | 1.10551 | 27.589 | 1.10564 | 9.201 | 4173.4 | 68.83 |
| .1 | .89 | .10402 | .10597 | .710 | .10610 | .205 | 4175.1 | .86 |
| .2 | .95 | .10448 | .10643 | .833 | .10656 | .208 | 4176.9 | .88 |
| .3 | 14.00 | .10494 | .10689 | .955 | .10702 | .212 | 4178.6 | .91 |
| .4 | .06 | .10540 | .10736 | 28.077 | .10748 | .216 | 4180.4 | .94 |
| .5 | .11 | .10586 | .10782 | .199 | .10795 | .220 | 4182.1 | .97 |
| .6 | .17 | .10632 | .10828 | .322 | .10841 | .224 | 4183.9 | 69.00 |
| .7 | .22 | .10679 | .10874 | .444 | .10887 | .228 | 4185.6 | .03 |
| .8 | .28 | .10725 | .10921 | .567 | .10934 | .232 | 4187.4 | .06 |
| .9 | .33 | .10771 | .10967 | .690 | .10980 | .235 | 4189.1 | .09 |
| 26.0 | 14.39 | 1.10818 | 1.11014 | 28.813 | 1.11027 | 9.239 | 4190.9 | 69.11 |
| .1 | .44 | .10864 | .11060 | .935 | .11073 | .243 | 4192.6 | .14 |
| .2 | .49 | .10910 | .11106 | 29.059 | .11120 | .247 | 4194.4 | .17 |
| .3 | .55 | .10957 | .11153 | .182 | .11166 | .251 | 4196.2 | .20 |
| .4 | .60 | .11003 | .11200 | .305 | .11213 | .255 | 4197.9 | .23 |
| .5 | .66 | .11050 | .11246 | .428 | .11260 | .259 | 4199.7 | .26 |
| .6 | .71 | .11096 | .11293 | .552 | .11306 | .263 | 4201.5 | .29 |
| .7 | .77 | .11143 | .11339 | .675 | .11353 | .266 | 4203.2 | .32 |
| .8 | .82 | .11190 | .11386 | .799 | .11400 | .270 | 4205.0 | .35 |
| .9 | .88 | .11236 | .11433 | .923 | .11447 | .274 | 4206.7 | .38 |
| 27.0 | 14.93 | 1.11283 | 1.11480 | 30.046 | 1.11493 | 9.278 | 4208.5 | 69.41 |
| .1 | .99 | .11330 | .11526 | .170 | .11540 | .282 | 4210.3 | .43 |
| .2 | 15.04 | .11376 | .11573 | .294 | .11587 | .286 | 4212.0 | .46 |
| .3 | .09 | .11423 | .11620 | .418 | .11634 | .290 | 4213.8 | .49 |
| .4 | .15 | .11470 | .11667 | .543 | .11681 | .294 | 4215.6 | .52 |
| .5 | .20 | .11517 | .11714 | .667 | .11728 | .298 | 4217.4 | .55 |
| .6 | .26 | .11564 | .11761 | .792 | .11775 | .302 | 4219.1 | .58 |
| .7 | .31 | .11610 | .11808 | .916 | .11822 | .305 | 4220.9 | .61 |
| .8 | .37 | .11657 | .11855 | 31.041 | .11869 | .309 | 4222.7 | .64 |
| .9 | .42 | .11704 | .11902 | .165 | .11916 | .313 | 4224.4 | .67 |

| Brix | Baume M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| | | | | | | 1 | 2 | |
| 28.0 | 15.48 | 1.11751 | 1.11949 | 31.290 | 1.11963 | 9.317 | 4226.2 | 69.70 |
| .1 | .53 | .11798 | .11996 | .415 | .12010 | .321 | 4228.0 | .73 |
| .2 | .59 | .11845 | .12043 | .540 | .12058 | .325 | 4229.8 | .76 |
| .3 | .64 | .11892 | .12090 | .666 | .12105 | .329 | 4231.6 | .79 |
| .4 | .69 | .11940 | .12138 | .791 | .12152 | .333 | 4233.4 | .82 |
| .5 | .75 | .11987 | .12185 | .916 | .12199 | .337 | 4235.2 | .85 |
| .6 | .80 | .12034 | .12232 | 32.042 | .12247 | .341 | 4236.9 | .87 |
| .7 | .86 | .12081 | .12280 | .167 | .12294 | .345 | 4238.7 | .90 |
| .8 | .91 | .12128 | .12327 | .293 | .12342 | .349 | 4240.5 | .93 |
| .9 | .97 | .12176 | .12374 | .419 | .12389 | .353 | 4242.3 | .96 |
| 29.0 | 16.02 | 1.12223 | 1.12422 | 32.545 | 1.12436 | 9.357 | 4244.1 | 69.99 |
| .1 | .08 | .12270 | .12469 | .671 | .12484 | .361 | 4245.9 | 70.02 |
| .2 | .13 | .12318 | .12517 | .797 | .12532 | .365 | 4247.7 | .05 |
| .3 | .18 | .12365 | .12564 | .923 | .12579 | .369 | 4249.5 | .08 |
| .4 | .24 | .12413 | .12612 | 33.049 | .12627 | .372 | 4251.3 | .11 |
| .5 | .29 | .12460 | .12659 | .176 | .12674 | .376 | 4253.1 | .14 |
| .6 | .35 | .12508 | .12707 | .302 | .12722 | .380 | 4254.9 | .17 |
| .7 | .40 | .12556 | .12755 | .429 | .12770 | .384 | 4256.7 | .20 |
| .8 | .46 | .12603 | .12802 | .556 | .12817 | .388 | 4258.5 | .23 |
| .9 | .51 | .12651 | .12850 | .683 | .12865 | .392 | 4260.3 | .26 |
| 30.0 | 16.57 | 1.12698 | 1.12898 | 33.810 | 1.12913 | 9.396 | 4262.1 | 70.29 |
| .1 | .62 | .12746 | .12946 | .937 | .12961 | .400 | 4263.9 | .32 |
| .2 | .67 | .12794 | .12993 | 34.064 | .13009 | .404 | 4265.7 | .35 |
| .3 | .73 | .12842 | .13041 | .191 | .13057 | .408 | 4267.5 | .38 |
| .4 | .78 | .12890 | .13089 | .318 | .13105 | .412 | 4269.3 | .41 |
| .5 | .84 | .12937 | .13137 | .446 | .13153 | .416 | 4271.2 | .44 |
| .6 | .89 | .12985 | .13185 | .574 | .13201 | .420 | 4273.0 | .47 |
| .7 | .95 | .13033 | .13233 | .701 | .13249 | .424 | 4274.8 | .50 |
| .8 | 17.00 | .13081 | .13281 | .829 | .13297 | .428 | 4276.6 | .53 |
| .9 | .05 | .13129 | .13329 | .957 | .13345 | .432 | 4278.4 | .56 |
| 31.0 | 17.11 | 1.13177 | 1.13378 | 35.085 | 1.13394 | 9.436 | 4280.2 | 70.59 |
| .1 | .16 | .13225 | .13426 | .213 | .13442 | .440 | 4282.1 | .62 |
| .2 | .22 | .13274 | .13474 | .341 | .13490 | .444 | 4283.9 | .65 |
| .3 | .27 | .13322 | .13522 | .470 | .13538 | .448 | 4285.7 | .68 |
| .4 | .33 | .13370 | .13570 | .598 | .13587 | .452 | 4287.5 | .71 |
| .5 | .38 | .13418 | .13619 | .727 | .13635 | .456 | 4289.4 | .74 |
| .6 | .43 | .13466 | .13667 | .855 | .13683 | .460 | 4291.2 | .77 |
| .7 | .49 | .13515 | .13715 | .984 | .13732 | .464 | 4293.0 | .80 |
| .8 | .54 | .13563 | .13764 | 36.113 | .13780 | .468 | 4294.8 | .83 |
| .9 | .60 | .13611 | .13812 | .242 | .13829 | .472 | 4296.7 | .86 |

| Brix | Baumé M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 32.0 | 17.65 | 1.13660 | 1.13861 | 36.371 | 1.13877 | 9.477 | 4298.5 | 70.89 |
| .1 | .70 | .13708 | .13909 | .500 | .13926 | .481 | 4300.3 | .92 |
| .2 | .76 | .13756 | .13958 | .630 | .13974 | .485 | 4302.2 | .95 |
| .3 | .81 | .13805 | .14006 | .759 | .14023 | .489 | 4304.0 | .98 |
| .4 | .87 | .13853 | .14055 | .889 | .14072 | .493 | 4305.8 | 71.01 |
| .5 | .92 | .13902 | .14103 | 37.018 | .14120 | .497 | 4307.7 | .04 |
| .6 | .98 | .13951 | .14152 | .148 | .14169 | .501 | 4309.5 | .07 |
| .7 | 18.03 | .13999 | .14201 | .278 | .14218 | .505 | 4311.3 | .10 |
| .8 | .08 | .14048 | .14250 | .408 | .14267 | .509 | 4313.2 | .13 |
| .9 | .14 | .14097 | .14298 | .538 | .14316 | .513 | 4315.0 | .16 |
| 33.0 | 18.19 | 1.14145 | 1.14347 | 37.668 | 1.14364 | 9.517 | 4316.8 | 71.19 |
| .1 | .25 | .14194 | .14396 | .798 | .14413 | .521 | 4318.7 | .22 |
| .2 | .30 | .14243 | .14445 | .929 | .14462 | .525 | 4320.6 | .25 |
| .3 | .36 | .14292 | .14494 | 38.059 | .14511 | .529 | 4322.4 | .28 |
| .4 | .41 | .14340 | .14543 | .190 | .14560 | .533 | 4324.3 | .31 |
| .5 | .46 | .14389 | .14592 | .320 | .14609 | .537 | 4326.1 | .34 |
| .6 | .52 | .14438 | .14641 | .451 | .14658 | .541 | 4328.0 | .38 |
| .7 | .57 | .14487 | .14690 | .582 | .14708 | .546 | 4329.8 | .41 |
| .8 | .63 | .14536 | .14739 | .713 | .14757 | .550 | 4331.7 | .44 |
| .9 | .68 | .14585 | .14788 | .844 | .14806 | .554 | 4333.5 | .47 |
| 34.0 | 18.73 | 1.14634 | 1.14837 | 38.976 | 1.14855 | 9.558 | 4335.4 | 71.50 |
| .1 | .79 | .14684 | .14886 | .107 | .14904 | .562 | 4337.2 | .53 |
| .2 | .84 | .14733 | .14936 | .239 | .14954 | .566 | 4339.1 | .56 |
| .3 | .90 | .14782 | .14985 | .370 | .15003 | .570 | 4341.0 | .59 |
| .4 | .95 | .14831 | .15034 | .502 | .15052 | .574 | 4342.8 | .62 |
| .5 | 19.00 | .14880 | .15084 | .634 | .15102 | .578 | 4344.7 | .65 |
| .6 | .06 | .14930 | .15133 | .766 | .15151 | .583 | 4346.6 | .68 |
| .7 | .11 | .14979 | .15183 | .898 | .15201 | .587 | 4348.4 | .71 |
| .8 | .17 | .15029 | .15232 | 40.030 | .15250 | .591 | 4350.3 | .74 |
| .9 | .22 | .15078 | .15282 | .162 | .15300 | .595 | 4352.2 | .77 |
| 35.0 | 19.28 | 1.15128 | 1.15331 | 40.295 | 1.15350 | 9.599 | 4354.0 | 71.81 |
| .1 | .33 | .15177 | .15381 | .427 | .15399 | .603 | 4355.9 | .84 |
| .2 | .38 | .15226 | .15430 | .560 | .15449 | .607 | 4357.8 | .87 |
| .3 | .44 | .15276 | .15480 | .692 | .15498 | .611 | 4359.7 | .90 |
| .4 | .49 | .15326 | .15530 | .825 | .15548 | .616 | 4361.5 | .93 |
| .5 | .55 | .15375 | .15579 | .958 | .15598 | .620 | 4363.4 | .96 |
| .6 | .60 | .15425 | .15629 | 41.091 | .15648 | .624 | 4365.3 | .99 |
| .7 | .65 | .15475 | .15679 | .224 | .15698 | .628 | 4367.2 | 72.02 |
| .8 | .71 | .15524 | .15729 | .358 | .15747 | .632 | 4369.1 | .05 |
| .9 | .76 | .15574 | .15778 | .491 | .15797 | .636 | 4370.9 | .08 |

| Brix | Baume M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 36.0 | 19.81 | 1.15624 | 1.15828 | 41.625 | 1.15847 | 9.640 | 4372.8 | 72.12 |
| .1 | .87 | .15674 | .15878 | .758 | .15897 | .645 | 4374.7 | .15 |
| .2 | .92 | .15724 | .15928 | .892 | .15947 | .649 | 4376.6 | .18 |
| .3 | .98 | .15773 | .15978 | 42.026 | .15997 | .653 | 4378.5 | .21 |
| .4 | 20.03 | .15823 | .16028 | .160 | .16047 | .657 | 4380.4 | .24 |
| .5 | .08 | .15873 | .16078 | .294 | .16098 | .661 | 4382.3 | .27 |
| .6 | .14 | .15923 | .16128 | .428 | .16148 | .665 | 4384.2 | .30 |
| .7 | .19 | .15973 | .16178 | .562 | .16198 | .670 | 4386.1 | .33 |
| .8 | .25 | .16023 | .16228 | .697 | .16248 | .674 | 4388.0 | .37 |
| .9 | .30 | .16073 | .16279 | .831 | .16298 | .678 | 4389.9 | .40 |
| 37.0 | 20.35 | 1.16124 | 1.16329 | 42.966 | 1.16349 | 9.682 | 4391.8 | 72.43 |
| .1 | .41 | .16174 | .16379 | 43.100 | .16399 | .686 | 4393.7 | .46 |
| .2 | .46 | .16224 | .16430 | .235 | .16449 | .691 | 4395.6 | .49 |
| .3 | .52 | .16274 | .16480 | .370 | .16500 | .695 | 4397.5 | .52 |
| .4 | .57 | .16324 | .16530 | .505 | .16550 | .699 | 4399.4 | .55 |
| .5 | .62 | .16375 | .16581 | .641 | .16601 | .703 | 4401.3 | .58 |
| .6 | .68 | .16425 | .16631 | .776 | .16652 | .707 | 4403.2 | .62 |
| .7 | .73 | .16476 | .16682 | .911 | .16702 | .712 | 4405.1 | .65 |
| .8 | .78 | .16526 | .16732 | 44.047 | .16752 | .716 | 4407.0 | .68 |
| .9 | .84 | .16576 | .16783 | .182 | .16803 | .720 | 4408.9 | .71 |
| 38.0 | 20.89 | 1.16627 | 1.16833 | 44.318 | 1.16853 | 9.724 | 4410.8 | 72.74 |
| .1 | .94 | .16678 | .16884 | .454 | .16904 | .728 | 4412.7 | .77 |
| .2 | 21.00 | .16728 | .16934 | .590 | .16955 | .733 | 4414.6 | .80 |
| .3 | .05 | .16779 | .16985 | .726 | .17006 | .737 | 4416.6 | .84 |
| .4 | .11 | .16829 | .17036 | .862 | .17056 | .741 | 4418.5 | .87 |
| .5 | .16 | .16880 | .17087 | .999 | .17107 | .745 | 4420.4 | .90 |
| .6 | .21 | .16931 | .17138 | 45.135 | .17158 | .749 | 4422.3 | .93 |
| .7 | .27 | .16982 | .17188 | .272 | .17209 | .754 | 4424.2 | .96 |
| .8 | .32 | .17032 | .17239 | .408 | .17260 | .758 | 4426.2 | .99 |
| .9 | .38 | .17083 | .17290 | .545 | .17311 | .762 | 4428.1 | 73.03 |
| 39.0 | 21.43 | 1.17134 | 1.17341 | 45.682 | 1.17362 | 9.766 | 4430.0 | 73.06 |
| .1 | .48 | .17185 | .17392 | .819 | .17413 | .771 | 4431.9 | .09 |
| .2 | .54 | .17236 | .17443 | .956 | .17464 | .775 | 4433.9 | .12 |
| .3 | .59 | .17287 | .17494 | 46.094 | .17515 | .779 | 4435.8 | .15 |
| .4 | .64 | .17338 | .17545 | .231 | .17566 | .783 | 4437.7 | .19 |
| .5 | .70 | .17389 | .17596 | .369 | .17618 | .788 | 4439.7 | .22 |
| .6 | .75 | .17440 | .17648 | .506 | .17669 | .792 | 4441.6 | .25 |
| .7 | .80 | .17491 | .17699 | .644 | .17720 | .796 | 4443.5 | .28 |
| .8 | .86 | .17542 | .17750 | .782 | .17772 | .801 | 4445.5 | .31 |
| .9 | .91 | .17594 | .17802 | .920 | .17823 | .805 | 4447.4 | .35 |

| Brix | Baume M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| | | | | | | 7 | 8 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 40.0 | 21.97 | 1.17645 | 1.17853 | 47.058 | 1.17874 | 9.809 | 4449.3 | 73.38 |
| .1 | 22.02 | .17696 | .17904 | .196 | .17926 | .813 | 4451.3 | .41 |
| .2 | .07 | .17747 | .17956 | .334 | .17977 | .818 | 4453.2 | .44 |
| .3 | .13 | .17799 | .18007 | .473 | .18029 | .822 | 4455.2 | .47 |
| .4 | .18 | .17850 | .18058 | .611 | .18080 | .826 | 4457.1 | .51 |
| .5 | .23 | .17901 | .18110 | .750 | .18132 | .831 | 4459.1 | .54 |
| .6 | .29 | .17953 | .18162 | .889 | .18183 | .835 | 4461.0 | .57 |
| .7 | .34 | .18004 | .18213 | 48.028 | .18235 | .839 | 4463.0 | .60 |
| .8 | .39 | .18056 | .18265 | .167 | .18287 | .843 | 4464.9 | .63 |
| .9 | .45 | .18108 | .18316 | .306 | .18339 | .848 | 4466.9 | .67 |
| 41.0 | 22.50 | 1.18159 | 1.18368 | 48.445 | 1.18390 | 9.852 | 4468.8 | 73.70 |
| .1 | .55 | .18211 | .18420 | .585 | .18442 | .856 | 4470.8 | .73 |
| .2 | .61 | .18262 | .18472 | .724 | .18494 | .861 | 4472.7 | .76 |
| .3 | .66 | .18314 | .18524 | .864 | .18546 | .865 | 4474.7 | .80 |
| .4 | .72 | .18366 | .18575 | 49.004 | .18598 | .869 | 4476.7 | .83 |
| .5 | .77 | .18418 | .18627 | .143 | .18650 | .874 | 4478.6 | .86 |
| .6 | .82 | .18470 | .18679 | .283 | .18702 | .878 | 4480.6 | .89 |
| .7 | .88 | .18522 | .18731 | .424 | .18754 | .882 | 4482.5 | .92 |
| .8 | .93 | .18573 | .18783 | .564 | .18806 | .887 | 4484.5 | .96 |
| .9 | .98 | .18625 | .18835 | .704 | .18858 | .891 | 4486.5 | .99 |
| 42.0 | 23.04 | 1.18677 | 1.18887 | 49.845 | 1.18910 | 9.895 | 4488.4 | 74.02 |
| .1 | .09 | .18729 | .18939 | .985 | .18962 | .900 | 4490.4 | .05 |
| .2 | .14 | .18781 | .18992 | 50.126 | .19014 | .904 | 4492.4 | .09 |
| .3 | .20 | .18834 | .19044 | .267 | .19062 | .908 | 4494.4 | .12 |
| .4 | .25 | .18886 | .19096 | .408 | .19119 | .913 | 4496.3 | .15 |
| .5 | .30 | .18938 | .19148 | .549 | .19171 | .917 | 4498.3 | .18 |
| .6 | .36 | .18990 | .19201 | .690 | .19224 | .921 | 4500.3 | .22 |
| .7 | .41 | .19042 | .19253 | .831 | .19276 | .926 | 4502.3 | .25 |
| .8 | .46 | .19095 | .19305 | .973 | .19329 | .930 | 4504.2 | .28 |
| .9 | .52 | .19147 | .19358 | 51.114 | .19381 | .935 | 4506.2 | .32 |
| 43.0 | 23.57 | 1.19199 | 1.19410 | 51.256 | 1.19434 | 9.939 | 4508.2 | 74.35 |
| .1 | .62 | .19252 | .19463 | .398 | .19486 | .943 | 4510.2 | .38 |
| .2 | .68 | .19304 | .19515 | .539 | .19539 | .948 | 4512.2 | .41 |
| .3 | .73 | .19356 | .19568 | .681 | .19591 | .952 | 4514.2 | .45 |
| .4 | .78 | .19409 | .19620 | .824 | .19644 | .956 | 4516.1 | .48 |
| .5 | .84 | .19462 | .19673 | .966 | .19697 | .961 | 4518.1 | .51 |
| .6 | .89 | .19514 | .19726 | 52.108 | .19749 | .965 | 4520.1 | .54 |
| .7 | .94 | .19567 | .19778 | .251 | .19802 | .970 | 4522.1 | .58 |
| .8 | 24.00 | .19619 | .19831 | .393 | .19855 | .974 | 4524.1 | .61 |
| .9 | .05 | .19672 | .19884 | .536 | .19908 | .978 | 4526.1 | .64 |

| Brix | Baume M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| | | | | | | 7 | 8 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 44.0 | 24.10 | 1.19725 | 1.19936 | 52.679 | 1.19961 | 9.983 | 4528.1 | 74.68 |
| .1 | .16 | .19778 | .19989 | .822 | .20013 | .987 | 4530.1 | .71 |
| .2 | .21 | .19830 | .20042 | .965 | .20066 | .992 | 4532.1 | .74 |
| .3 | .26 | .19883 | .20095 | 53.108 | .20119 | .996 | 4534.1 | .77 |
| .4 | .32 | .19936 | .20148 | .252 | .20172 | 10.000 | 4536.1 | .81 |
| .5 | .37 | .19989 | .20201 | .395 | .20226 | .005 | 4538.1 | .84 |
| .6 | .42 | .20042 | .20254 | .539 | .20279 | .009 | 4540.1 | .87 |
| .7 | .48 | .20095 | .20307 | .683 | .20332 | .014 | 4542.1 | .91 |
| .8 | .53 | .20148 | .20360 | .826 | .20385 | .018 | 4544.1 | .94 |
| .9 | .58 | .20201 | .20414 | .970 | .20438 | .022 | 4546.1 | .97 |
| 45.0 | 24.63 | 1.20254 | 1.20467 | 54.114 | 1.20491 | 10.027 | 4548.1 | 75.01 |
| .1 | .69 | .20307 | .20520 | .259 | .20545 | .031 | 4550.2 | .04 |
| .2 | .74 | .20360 | .20573 | .403 | .20598 | .036 | 4552.2 | .07 |
| .3 | .79 | .20414 | .20627 | .547 | .20651 | .040 | 4554.2 | .11 |
| .4 | .85 | .20467 | .20680 | .692 | .20705 | .045 | 4556.2 | .14 |
| .5 | .90 | .20520 | .20733 | .837 | .20758 | .049 | 4558.2 | .17 |
| .6 | .95 | .20573 | .20787 | .981 | .20812 | .054 | 4560.2 | .21 |
| .7 | 25.01 | .20627 | .20840 | 55.126 | .20865 | .058 | 4562.3 | .24 |
| .8 | .06 | .20680 | .20894 | .272 | .20919 | .063 | 4564.3 | .27 |
| .9 | .11 | .20734 | .20947 | .417 | .20972 | .067 | 4566.3 | .31 |
| 46.0 | 25.17 | 1.20787 | 1.21001 | 55.562 | 1.21026 | 10.071 | 4568.3 | 75.34 |
| .1 | .22 | .20840 | .21054 | .708 | .21080 | .076 | 4570.3 | .37 |
| .2 | .27 | .20894 | .21108 | .853 | .21133 | .080 | 4572.4 | .41 |
| .3 | .32 | .20948 | .21162 | .999 | .21187 | .085 | 4574.4 | .44 |
| .4 | .38 | .21001 | .21215 | 56.145 | .21241 | .089 | 4576.4 | .47 |
| .5 | .43 | .21055 | .21269 | .291 | .21295 | .094 | 4578.5 | .51 |
| .6 | .48 | .21109 | .21323 | .437 | .21349 | .098 | 4580.5 | .54 |
| .7 | .54 | .21162 | .21377 | .583 | .21402 | .103 | 4582.5 | .57 |
| .8 | .59 | .21216 | .21431 | .729 | .21456 | .107 | 4584.5 | .61 |
| .9 | .64 | .21270 | .21484 | .876 | .21510 | .112 | 4586.6 | .64 |
| 47.0 | 25.70 | 1.21324 | 1.21538 | 57.022 | 1.21564 | 10.116 | 4588.6 | 75.67 |
| .1 | .75 | .21378 | .21592 | .169 | .21618 | .121 | 4590.7 | .71 |
| .2 | .80 | .21432 | .21646 | .316 | .21673 | .125 | 4592.7 | .74 |
| .3 | .86 | .21486 | .21700 | .463 | .21727 | .130 | 4594.8 | .78 |
| .4 | .91 | .21540 | .21755 | .610 | .21781 | .134 | 4596.8 | .81 |
| .5 | .96 | .21594 | .21809 | .757 | .21835 | .139 | 4598.9 | .84 |
| .6 | 26.01 | .21648 | .21863 | .904 | .21889 | .143 | 4600.9 | .88 |
| .7 | .07 | .21702 | .21917 | 58.052 | .21943 | .148 | 4602.9 | .91 |
| .8 | .12 | .21756 | .21971 | .199 | .21998 | .152 | 4605.0 | .94 |
| .9 | .17 | .21810 | .22026 | .347 | .22052 | .157 | 4607.0 | .98 |

| Brix | Baumé M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U. S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|---|--------|---|
| | | | | | | Pounds | Grams | |
| | | | | | | 7 | 8 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 48.0 | 26.23 | 1.21864 | 1.22080 | 58.495 | 1.22106 | 10.161 | 4609.1 | 76.01 |
| .1 | .28 | .21918 | .22134 | .643 | .22161 | .166 | 4611.2 | .05 |
| .2 | .33 | .21973 | .22189 | .791 | .22215 | .170 | 4613.2 | .08 |
| .3 | .38 | .22027 | .22243 | .939 | .22270 | .175 | 4615.3 | .11 |
| .4 | .44 | .22082 | .22298 | 59.087 | .22324 | .179 | 4617.3 | .15 |
| .5 | .49 | .22136 | .22352 | .236 | .22379 | .184 | 4619.4 | .18 |
| .6 | .54 | .22190 | .22406 | .385 | .22434 | .189 | 4621.4 | .22 |
| .7 | .59 | .22245 | .22461 | .533 | .22488 | .193 | 4623.5 | .25 |
| .8 | .65 | .22300 | .22516 | .682 | .22543 | .198 | 4625.6 | .28 |
| .9 | .70 | .22354 | .22570 | .831 | .22598 | .202 | 4627.6 | .32 |
| 49.0 | 26.75 | 1.22409 | 1.22625 | 59.980 | 1.22652 | 10.207 | 4629.7 | 76.35 |
| .1 | .81 | .22463 | .22680 | 60.129 | .22707 | .211 | 4631.8 | .39 |
| .2 | .86 | .22518 | .22735 | .279 | .22762 | .216 | 4633.8 | .42 |
| .3 | .91 | .22573 | .22789 | .428 | .22817 | .220 | 4635.9 | .45 |
| .4 | .96 | .22627 | .22844 | .578 | .22872 | .225 | 4638.0 | .49 |
| .5 | 27.02 | .22682 | .22899 | .728 | .22927 | .230 | 4640.1 | .52 |
| .6 | .07 | .22737 | .22954 | .878 | .22982 | .234 | 4642.1 | .56 |
| .7 | .12 | .22792 | .23009 | 61.028 | .23037 | .239 | 4644.2 | .59 |
| .8 | .18 | .22847 | .23064 | .178 | .23092 | .243 | 4646.3 | .63 |
| .9 | .23 | .22902 | .23119 | .328 | .23147 | .248 | 4648.4 | .66 |
| 50.0 | 27.28 | 1.22957 | 1.23174 | 61.478 | 1.23202 | 10.252 | 4650.4 | 76.69 |
| .1 | .33 | .23012 | .23229 | .629 | .23257 | .257 | 4652.5 | .73 |
| .2 | .39 | .23067 | .23284 | .780 | .23313 | .262 | 4654.6 | .76 |
| .3 | .44 | .23122 | .23340 | .930 | .23368 | .266 | 4656.7 | .80 |
| .4 | .49 | .23177 | .23395 | 62.081 | .23423 | .271 | 4658.8 | .83 |
| .5 | .54 | .23232 | .23450 | .232 | .23478 | .275 | 4660.9 | .87 |
| .6 | .60 | .23287 | .23506 | .383 | .23534 | .280 | 4663.0 | .90 |
| .7 | .65 | .23343 | .23561 | .535 | .23589 | .285 | 4665.1 | .93 |
| .8 | .70 | .23398 | .23616 | .686 | .23645 | .289 | 4667.2 | .97 |
| .9 | .75 | .23453 | .23672 | .838 | .23700 | .294 | 4669.2 | 77.00 |
| 51.0 | 27.81 | 1.23508 | 1.23727 | 62.989 | 1.23756 | 10.299 | 4671.3 | 77.04 |
| .1 | .86 | .23564 | .23782 | 63.141 | .23811 | .303 | 4673.4 | .07 |
| .2 | .91 | .23619 | .23838 | .293 | .23867 | .308 | 4675.5 | .11 |
| .3 | .96 | .23675 | .23894 | .445 | .23922 | .312 | 4677.6 | .14 |
| .4 | 28.02 | .23730 | .23949 | .597 | .23978 | .317 | 4679.8 | .18 |
| .5 | .07 | .23786 | .24005 | .750 | .24034 | .322 | 4681.9 | .21 |
| .6 | .12 | .23841 | .24060 | .902 | .24089 | .326 | 4684.0 | .25 |
| .7 | .17 | .23897 | .24116 | 64.055 | .24145 | .331 | 4686.1 | .28 |
| .8 | .23 | .23953 | .24172 | .208 | .24201 | .336 | 4688.2 | .32 |
| .9 | .28 | .24008 | .24228 | .360 | .24257 | .340 | 4690.3 | .35 |

| Brix | Baumé M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 52.0 | 28.33 | 1.24064 | 1.24284 | 64.513 | 1.24313 | 10.345 | 4692.4 | 77.39 |
| .1 | .38 | .24120 | .24339 | .666 | .24369 | .350 | 4694.5 | .42 |
| .2 | .44 | .24176 | .24395 | .820 | .24425 | .354 | 4696.6 | .46 |
| .3 | .49 | .24232 | .24451 | .973 | .24481 | .359 | 4698.7 | .49 |
| .4 | .54 | .24287 | .24507 | 65.127 | .24537 | .364 | 4700.8 | .53 |
| .5 | .59 | .24343 | .24563 | .280 | .24593 | .368 | 4703.0 | .56 |
| .6 | .65 | .24399 | .24619 | .433 | .24649 | .373 | 4705.1 | .59 |
| .7 | .70 | .24455 | .24675 | .588 | .24705 | .378 | 4707.2 | .63 |
| .8 | .75 | .24511 | .24731 | .742 | .24761 | .382 | 4709.3 | .66 |
| .9 | .80 | .24567 | .24788 | .896 | .24818 | .387 | 4711.4 | .70 |
| 53.0 | 28.86 | 1.24623 | 1.24844 | 66.050 | 1.24874 | 10.392 | 4713.5 | 77.73 |
| .1 | .91 | .24680 | .24900 | .205 | .24930 | .396 | 4715.7 | .77 |
| .2 | .96 | .24736 | .24956 | .359 | .24987 | .401 | 4717.8 | .80 |
| .3 | 29.01 | .24792 | .25013 | .514 | .25043 | .406 | 4719.9 | .84 |
| .4 | .06 | .24848 | .25069 | .669 | .25099 | .410 | 4722.1 | .88 |
| .5 | .12 | .24905 | .25126 | .824 | .25156 | .415 | 4724.2 | .91 |
| .6 | .17 | .24961 | .25182 | .979 | .25212 | .420 | 4726.3 | .95 |
| .7 | .22 | .25017 | .25238 | 67.134 | .25269 | .425 | 4728.5 | .98 |
| .8 | .27 | .25074 | .25295 | .290 | .25325 | .429 | 4730.6 | 78.02 |
| .9 | .32 | .25130 | .25351 | .445 | .25382 | .434 | 4732.7 | .05 |
| 54.0 | 29.38 | 1.25187 | 1.25408 | 67.601 | 1.25439 | 10.439 | 4734.9 | 78.09 |
| .1 | .43 | .25243 | .25465 | .757 | .25495 | .443 | 4737.0 | .12 |
| .2 | .48 | .25300 | .25521 | .912 | .25552 | .448 | 4739.2 | .16 |
| .3 | .53 | .25356 | .25578 | 68.069 | .25609 | .453 | 4741.3 | .19 |
| .4 | .59 | .25413 | .25635 | .225 | .25666 | .458 | 4743.4 | .23 |
| .5 | .64 | .25470 | .25692 | .381 | .25723 | .462 | 4745.6 | .26 |
| .6 | .69 | .25526 | .25748 | .537 | .25780 | .467 | 4747.7 | .30 |
| .7 | .74 | .25583 | .25805 | .694 | .25836 | .472 | 4749.9 | .33 |
| .8 | .80 | .25640 | .25862 | .851 | .25893 | .476 | 4752.0 | .37 |
| .9 | .85 | .25697 | .25919 | 69.008 | .25950 | .481 | 4754.2 | .40 |
| 55.0 | 29.90 | 1.25754 | 1.25976 | 69.164 | 1.26007 | 10.486 | 4756.3 | 78.44 |
| .1 | .95 | .25810 | .26033 | .322 | .26064 | .491 | 4758.5 | .48 |
| .2 | 30.00 | .25867 | .26090 | .479 | .26122 | .495 | 4760.7 | .51 |
| .3 | .06 | .25924 | .26147 | .636 | .26179 | .500 | 4762.8 | .55 |
| .4 | .11 | .25982 | .26204 | .794 | .26236 | .505 | 4765.0 | .58 |
| .5 | .16 | .26039 | .26261 | .951 | .26293 | .510 | 4767.1 | .62 |
| .6 | .21 | .26096 | .26319 | 70.109 | .26350 | .515 | 4769.3 | .65 |
| .7 | .26 | .26153 | .26376 | .267 | .26408 | .519 | 4771.5 | .69 |
| .8 | .32 | .26210 | .26433 | .425 | .26465 | .524 | 4773.6 | .73 |
| .9 | .37 | .26267 | .26490 | .583 | .26522 | .529 | 4775.8 | .76 |

| Brix | Baumé M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 56.0 | 30.42 | 1.26324 | 1.26548 | 70.742 | 1.26580 | 10.534 | 4777.9 | 78.80 |
| .1 | .47 | .26382 | .26605 | .900 | .26637 | .538 | 4780.1 | .83 |
| .2 | .52 | .26439 | .26663 | 71.059 | .26695 | .543 | 4782.3 | .87 |
| .3 | .57 | .26496 | .26720 | .217 | .26752 | .548 | 4784.5 | .90 |
| .4 | .63 | .26554 | .26778 | .376 | .26810 | .553 | 4786.6 | .94 |
| .5 | .68 | .26611 | .26835 | .535 | .26868 | .558 | 4788.8 | .98 |
| .6 | .73 | .26669 | .26893 | .694 | .26925 | .562 | 4791.0 | 79.01 |
| .7 | .78 | .26726 | .26950 | .854 | .26983 | .567 | 4793.2 | .05 |
| .8 | .83 | .26784 | .27008 | 72.013 | .27041 | .572 | 4795.3 | .08 |
| .9 | .89 | .26841 | .27066 | .173 | .27098 | .577 | 4797.5 | .12 |
| 57.0 | 30.94 | 1.26899 | 1.27123 | 72.332 | 1.27156 | 10.581 | 4799.7 | 79.15 |
| .1 | .99 | .26956 | .27181 | .492 | .27214 | .586 | 4801.9 | .19 |
| .2 | 31.04 | .27014 | .27239 | .652 | .27272 | .591 | 4804.1 | .23 |
| .3 | .09 | .27072 | .27297 | .812 | .27330 | .596 | 4806.3 | .26 |
| .4 | .15 | .27130 | .27355 | .973 | .27388 | .601 | 4808.4 | .30 |
| .5 | .20 | .27188 | .27413 | 73.133 | .27446 | .606 | 4810.6 | .34 |
| .6 | .25 | .27246 | .27471 | .293 | .27504 | .610 | 4812.8 | .37 |
| .7 | .30 | .27304 | .27529 | .454 | .27562 | .615 | 4815.0 | .41 |
| .8 | .35 | .27361 | .27587 | .615 | .27620 | .620 | 4817.2 | .44 |
| .9 | .40 | .27419 | .27645 | .776 | .27678 | .625 | 4819.4 | .48 |
| 58.0 | 31.46 | 1.27477 | 1.27703 | 73.937 | 1.27736 | 10.630 | 4821.6 | 79.52 |
| .1 | .51 | .27535 | .27761 | 74.098 | .27794 | .635 | 4823.8 | .55 |
| .2 | .56 | .27594 | .27819 | .260 | .27853 | .640 | 4826.0 | .59 |
| .3 | .61 | .27652 | .27878 | .421 | .27911 | .644 | 4828.2 | .63 |
| .4 | .66 | .27710 | .27936 | .583 | .27969 | .649 | 4830.4 | .66 |
| .5 | .71 | .27768 | .27994 | .744 | .28028 | .654 | 4832.6 | .70 |
| .6 | .76 | .27826 | .28052 | .906 | .28086 | .659 | 4834.8 | .73 |
| .7 | .82 | .27884 | .28111 | 75.068 | .28145 | .664 | 4837.0 | .77 |
| .8 | .87 | .27943 | .28169 | .230 | .28203 | .669 | 4839.2 | .81 |
| .9 | .92 | .28001 | .28228 | .393 | .28262 | .674 | 4841.4 | .84 |
| 59.0 | 31.97 | 1.28060 | 1.28286 | 75.555 | 1.28320 | 10.678 | 4843.6 | 79.88 |
| .1 | 32.02 | .28118 | .28345 | .718 | .28379 | .683 | 4845.8 | .92 |
| .2 | .07 | .28176 | .28404 | .880 | .28437 | .688 | 4848.1 | .95 |
| .3 | .13 | .28235 | .28462 | 76.043 | .28497 | .693 | 4850.3 | .99 |
| .4 | .18 | .28294 | .28520 | .207 | .28555 | .698 | 4852.5 | 80.03 |
| .5 | .23 | .28352 | .28579 | .369 | .28614 | .703 | 4854.7 | .06 |
| .6 | .28 | .28411 | .28638 | .533 | .28672 | .708 | 4856.9 | .10 |
| .7 | .33 | .28469 | .28697 | .696 | .28731 | .713 | 4859.2 | .14 |
| .8 | .38 | .28528 | .28755 | .860 | .28789 | .718 | 4861.4 | .17 |
| .9 | .43 | .28587 | .28814 | 77.024 | .28849 | .722 | 4863.6 | .21 |

| Brix | Baume M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 60.0 | 32.49 | 1.28646 | 1.28873 | 77.188 | 1.28908 | 10.727 | 4865.8 | 80.25 |
| .1 | .54 | .28704 | .28932 | .351 | .28966 | .732 | 4868.0 | .28 |
| .2 | .59 | .28763 | .28991 | .515 | .29025 | .737 | 4870.3 | .32 |
| .3 | .64 | .28822 | .29050 | .680 | .29084 | .742 | 4872.5 | .36 |
| .4 | .69 | .28881 | .29109 | .844 | .29143 | .747 | 4874.7 | .39 |
| .5 | .74 | .28940 | .29168 | 78.009 | .29203 | .752 | 4877.0 | .43 |
| .6 | .79 | .28999 | .29227 | .173 | .29262 | .757 | 4879.2 | .47 |
| .7 | .85 | .29058 | .29286 | .338 | .29321 | .762 | 4881.4 | .50 |
| .8 | .90 | .29117 | .29346 | .503 | .29380 | .767 | 4883.7 | .54 |
| .9 | .95 | .29176 | .29405 | .668 | .29439 | .772 | 4885.9 | .58 |
| 61.0 | 33.00 | 1.29235 | 1.29464 | 78.833 | 1.29498 | 10.777 | 4888.1 | 80.61 |
| .1 | .05 | .29295 | .29523 | .999 | .29559 | .781 | 4890.4 | .65 |
| .2 | .10 | .29354 | .29583 | 79.165 | .29618 | .786 | 4892.6 | .69 |
| .3 | .15 | .29413 | .29642 | .330 | .29677 | .791 | 4894.9 | .73 |
| .4 | .20 | .29472 | .29701 | .496 | .29736 | .796 | 4897.1 | .76 |
| .5 | .26 | .29532 | .29761 | .662 | .29796 | .801 | 4899.4 | .80 |
| .6 | .31 | .29591 | .29820 | .828 | .29855 | .806 | 4901.6 | .84 |
| .7 | .36 | .29651 | .29880 | .995 | .29915 | .811 | 4903.9 | .87 |
| .8 | .41 | .29710 | .29940 | 80.161 | .29975 | .816 | 4906.1 | .91 |
| .9 | .46 | .29770 | .29999 | .328 | .30034 | .821 | 4908.4 | .95 |
| 62.0 | 33.51 | 1.29829 | 1.30059 | 80.494 | 1.30093 | 10.826 | 4910.6 | 80.98 |
| .1 | .56 | .29889 | .30118 | .661 | .30153 | .831 | 4912.9 | 81.02 |
| .2 | .61 | .29948 | .30178 | .828 | .30212 | .836 | 4915.2 | .06 |
| .3 | .67 | .30008 | .30238 | .995 | .30273 | .841 | 4917.4 | .10 |
| .4 | .72 | .30068 | .30298 | 81.162 | .30334 | .846 | 4919.7 | .13 |
| .5 | .77 | .30127 | .30358 | .329 | .30393 | .851 | 4921.9 | .17 |
| .6 | .82 | .30187 | .30418 | .497 | .30453 | .856 | 4924.2 | .21 |
| .7 | .87 | .30247 | .30477 | .665 | .30513 | .861 | 4926.5 | .25 |
| .8 | .92 | .30307 | .30537 | .833 | .30573 | .866 | 4928.7 | .28 |
| .9 | .97 | .30367 | .30597 | 82.001 | .30633 | .871 | 4931.0 | .32 |
| 63.0 | 34.02 | 1.30427 | 1.30657 | 82.169 | 1.30694 | 10.876 | 4933.2 | 81.36 |
| .1 | .07 | .30487 | .30718 | .337 | .30754 | .881 | 4935.5 | .40 |
| .2 | .12 | .30547 | .30778 | .506 | .30815 | .886 | 4937.8 | .43 |
| .3 | .18 | .30607 | .30838 | .674 | .30875 | .891 | 4940.1 | .47 |
| .4 | .23 | .30667 | .30898 | .843 | .30936 | .896 | 4942.3 | .51 |
| .5 | .28 | .30727 | .30958 | 83.012 | .30994 | .901 | 4944.6 | .55 |
| .6 | .33 | .30787 | .31019 | .180 | .31055 | .906 | 4946.9 | .58 |
| .7 | .38 | .30848 | .31079 | .350 | .31117 | .911 | 4949.2 | .62 |
| .8 | .43 | .30908 | .31139 | .519 | .31177 | .916 | 4951.5 | .66 |
| .9 | .48 | .30968 | .31200 | .688 | .31237 | .921 | 4953.7 | .70 |

| Brix | Baume M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 64.0 | 34.53 | 1.31028 | 1.31260 | 83.858 | 1.31297 | 10.926 | 4956.0 | 81.73 |
| .1 | .58 | .31088 | .31320 | 84.028 | .31359 | .931 | 4958.3 | .77 |
| .2 | .63 | .31149 | .31381 | .198 | .31418 | .936 | 4960.6 | .81 |
| .3 | .68 | .31209 | .31441 | .367 | .31479 | .941 | 4962.9 | .85 |
| .4 | .74 | .31270 | .31502 | .538 | .31540 | .946 | 4965.2 | .88 |
| .5 | .79 | .31330 | .31563 | .708 | .31600 | .951 | 4967.5 | .92 |
| .6 | .84 | .31391 | .31623 | .879 | .31661 | .956 | 4969.8 | .96 |
| .7 | .89 | .31452 | .31684 | 85.049 | .31723 | .961 | 4972.1 | 82.00 |
| .8 | .94 | .31512 | .31745 | .220 | .31784 | .967 | 4974.3 | .04 |
| .9 | .99 | .31573 | .31806 | .391 | .31845 | .972 | 4976.6 | .07 |
| 65.0 | 35.04 | 1.31633 | 1.31866 | 85.561 | 1.31905 | 10.977 | 4978.9 | 82.11 |
| .1 | .09 | .31694 | .31927 | .733 | .31966 | .982 | 4981.2 | .15 |
| .2 | .14 | .31755 | .31988 | .904 | .32028 | .987 | 4983.5 | .19 |
| .3 | .19 | .31816 | .32049 | 86.076 | .32089 | .992 | 4985.8 | .23 |
| .4 | .24 | .31877 | .32110 | .248 | .32150 | .997 | 4988.1 | .26 |
| .5 | .29 | .31937 | .32171 | .419 | .32210 | 11.002 | 4990.4 | .30 |
| .6 | .34 | .31998 | .32232 | .591 | .32271 | .007 | 4992.8 | .34 |
| .7 | .39 | .32059 | .32293 | .763 | .32332 | .012 | 4995.1 | .38 |
| .8 | .45 | .32120 | .32354 | .935 | .32393 | .017 | 4997.4 | .42 |
| .9 | .50 | .32181 | .32415 | 87.107 | .32455 | .022 | 4999.7 | .45 |
| 66.0 | 35.55 | 1.32242 | 1.32476 | 87.280 | 1.32516 | 11.027 | 5002.0 | 82.49 |
| .1 | .60 | .32304 | .32538 | .453 | .32577 | .033 | 5004.3 | .53 |
| .2 | .65 | .32365 | .32599 | .626 | .32638 | .038 | 5006.6 | .57 |
| .3 | .70 | .32426 | .32660 | .798 | .32699 | .043 | 5008.9 | .61 |
| .4 | .75 | .32487 | .32722 | .971 | .32759 | .048 | 5011.3 | .64 |
| .5 | .80 | .32548 | .32783 | 88.142 | .32820 | .053 | 5013.6 | .68 |
| .6 | .85 | .32610 | .32844 | .318 | .32884 | .058 | 5015.9 | .72 |
| .7 | .90 | .32671 | .32906 | .492 | .32945 | .063 | 5018.2 | .76 |
| .8 | .95 | .32732 | .32967 | .666 | .33007 | .068 | 5020.5 | .80 |
| .9 | 36.00 | .32794 | .33029 | .839 | .33068 | .073 | 5022.9 | .84 |
| 67.0 | 36.05 | 1.32855 | 1.33090 | 89.012 | 1.33129 | 11.079 | 5025.2 | 82.87 |
| .1 | .10 | .32917 | .33152 | .187 | .33192 | .084 | 5027.5 | .91 |
| .2 | .15 | .32978 | .33214 | .361 | .33254 | .089 | 5029.9 | .95 |
| .3 | .20 | .33040 | .33275 | .536 | .33315 | .094 | 5032.2 | .99 |
| .4 | .25 | .33102 | .33337 | .711 | .33377 | .099 | 5034.5 | 83.03 |
| .5 | .30 | .33163 | .33399 | .885 | .33438 | .104 | 5036.9 | .07 |
| .6 | .35 | .33225 | .33460 | 90.060 | .33500 | .110 | 5039.2 | .10 |
| .7 | .40 | .33287 | .33523 | .235 | .33562 | .115 | 5041.5 | .14 |
| .8 | .45 | .33348 | .33584 | .411 | .33625 | .120 | 5043.9 | .18 |
| .9 | .50 | .33410 | .33646 | .585 | .33686 | .125 | 5046.2 | .22 |

| Brix | Baumé M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 68.0 | 36.55 | 1.33472 | 1.33708 | 90.761 | 1.33748 | 11.130 | 5048.5 | 83.26 |
| .1 | .61 | .33534 | .33770 | .937 | .33810 | .135 | 5050.9 | .30 |
| .2 | .66 | .33596 | .33832 | 91.112 | .33872 | .140 | 5053.2 | .34 |
| .3 | .71 | .33658 | .33894 | .288 | .33935 | .146 | 5055.6 | .38 |
| .4 | .76 | .33720 | .33957 | .464 | .33997 | .151 | 5057.9 | .41 |
| .5 | .81 | .33782 | .34019 | .641 | .34059 | .156 | 5060.3 | .45 |
| .6 | .86 | .33844 | .34081 | .817 | .34121 | .161 | 5062.6 | .49 |
| .7 | .91 | .33906 | .34143 | .993 | .34183 | .166 | 5065.0 | .53 |
| .8 | .96 | .33968 | .34205 | 92.169 | .34245 | .172 | 5067.3 | .57 |
| .9 | 37.01 | .34031 | .34268 | .347 | .34309 | .177 | 5069.7 | .61 |
| 69.0 | 37.06 | 1.34093 | 1.34330 | 92.524 | 1.34371 | 11.182 | 5072.0 | 83.65 |
| .1 | .11 | .34155 | .34392 | .701 | .34433 | .187 | 5074.4 | .69 |
| .2 | .16 | .34217 | .34455 | .878 | .34495 | .192 | 5076.8 | .72 |
| .3 | .21 | .34280 | .34517 | 93.056 | .34558 | .198 | 5079.1 | .76 |
| .4 | .26 | .34342 | .34580 | .233 | .34621 | .203 | 5081.5 | .80 |
| .5 | .31 | .34405 | .34642 | .411 | .34684 | .208 | 5083.9 | .84 |
| .6 | .36 | .34467 | .34705 | .589 | .34746 | .213 | 5086.2 | .88 |
| .7 | .41 | .34530 | .34768 | .767 | .34809 | .218 | 5088.6 | .92 |
| .8 | .46 | .34592 | .34830 | .945 | .34871 | .224 | 5091.0 | .96 |
| .9 | .51 | .34655 | .34893 | 94.123 | .34934 | .229 | 5093.3 | 84.00 |
| 70.0 | 37.56 | 1.34717 | 1.34956 | 94.302 | 1.34997 | 11.234 | 5095.7 | 84.04 |
| .1 | .61 | .34780 | .35019 | .481 | .35060 | .239 | 5098.1 | .08 |
| .2 | .66 | .34843 | .35081 | .660 | .35123 | .245 | 5100.5 | .12 |
| .3 | .71 | .34906 | .35144 | .839 | .35186 | .250 | 5102.8 | .15 |
| .4 | .76 | .34968 | .35207 | 95.017 | .35248 | .255 | 5105.2 | .19 |
| .5 | .81 | .35031 | .35270 | .197 | .35311 | .260 | 5107.6 | .23 |
| .6 | .86 | .35094 | .35333 | .376 | .35375 | .265 | 5110.0 | .27 |
| .7 | .91 | .35157 | .35396 | .556 | .35438 | .271 | 5112.3 | .31 |
| .8 | .96 | .35220 | .35459 | .736 | .35501 | .276 | 5114.7 | .35 |
| .9 | 38.01 | .35283 | .35522 | .916 | .35564 | .281 | 5117.1 | .39 |
| 71.0 | 38.06 | 1.35346 | 1.35585 | 96.096 | 1.35627 | 11.286 | 5119.5 | 84.43 |
| .1 | .11 | .35409 | .35648 | .276 | .35691 | .292 | 5121.9 | .47 |
| .2 | .16 | .35472 | .35711 | .456 | .35754 | .297 | 5124.3 | .51 |
| .3 | .21 | .35535 | .35775 | .636 | .35817 | .302 | 5126.6 | .55 |
| .4 | .26 | .35598 | .35838 | .817 | .35881 | .308 | 5129.0 | .59 |
| .5 | .30 | .35661 | .35901 | .998 | .35944 | .313 | 5131.4 | .63 |
| .6 | .35 | .35724 | .35964 | 97.179 | .36008 | .318 | 5133.8 | .67 |
| .7 | .40 | .35788 | .36028 | .360 | .36072 | .323 | 5136.2 | .71 |
| .8 | .45 | .35851 | .36091 | .541 | .36135 | .329 | 5138.6 | .74 |
| .9 | .50 | .35914 | .36155 | .722 | .36198 | .334 | 5141.0 | .78 |

| Brix | Baumé M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 72.0 | 38.55 | 1.35978 | 1.36218 | 97.904 | 1.36261 | 11.339 | 5143.4 | 84.82 |
| .1 | .60 | .36041 | .36282 | 98.085 | .36324 | .345 | 5145.8 | .86 |
| .2 | .65 | .36105 | .36346 | .268 | .36389 | .350 | 5148.2 | .90 |
| .3 | .70 | .36168 | .36409 | .449 | .36452 | .355 | 5150.6 | .94 |
| .4 | .75 | .36232 | .36473 | .632 | .36516 | .360 | 5153.0 | .98 |
| .5 | .80 | .36295 | .36536 | .814 | .36579 | .366 | 5155.4 | 85.02 |
| .6 | .85 | .36359 | .36600 | .997 | .36643 | .371 | 5157.9 | .06 |
| .7 | .90 | .36423 | .36664 | 99.179 | .36707 | .376 | 5160.3 | .10 |
| .8 | .95 | .36486 | .36728 | .362 | .36771 | .382 | 5162.7 | .14 |
| .9 | 39.00 | .36550 | .36792 | .545 | .36836 | .387 | 5165.1 | .18 |
| 73.0 | 39.05 | 1.36614 | 1.36856 | 99.728 | 1.36900 | 11.392 | 5167.5 | 85.22 |
| .1 | .10 | .36678 | .36919 | .912 | .36964 | .398 | 5169.9 | .26 |
| .2 | .15 | .36742 | .36983 | 100.095 | .37028 | .403 | 5172.3 | .30 |
| .3 | .20 | .36805 | .37047 | .278 | .37092 | .408 | 5174.8 | .34 |
| .4 | .25 | .36869 | .37111 | .462 | .37156 | .414 | 5177.2 | .38 |
| .5 | .30 | .36933 | .37176 | .646 | .37220 | .419 | 5179.6 | .42 |
| .6 | .35 | .36997 | .37240 | .827 | .37283 | .424 | 5182.0 | .46 |
| .7 | .39 | .37061 | .37304 | 101.014 | .37347 | .430 | 5184.4 | .50 |
| .8 | .44 | .37125 | .37368 | .198 | .37411 | .435 | 5186.9 | .54 |
| .9 | .49 | .37189 | .37432 | .383 | .37476 | .440 | 5189.3 | .58 |
| 74.0 | 39.54 | 1.37254 | 1.37496 | 101.568 | 1.37541 | 11.446 | 5191.7 | 85.62 |
| .1 | .59 | .37318 | .37561 | .753 | .37605 | .451 | 5194.1 | .66 |
| .2 | .64 | .37382 | .37625 | .937 | .37669 | .456 | 5196.6 | .70 |
| .3 | .69 | .37446 | .37689 | 102.122 | .37733 | .462 | 5199.0 | .74 |
| .4 | .74 | .37510 | .37754 | .308 | .37798 | .467 | 5201.4 | .78 |
| .5 | .79 | .37575 | .37818 | .493 | .37864 | .473 | 5203.9 | .82 |
| .6 | .84 | .37639 | .37883 | .679 | .37928 | .478 | 5206.3 | .86 |
| .7 | .89 | .37704 | .37947 | .865 | .37993 | .483 | 5208.8 | .90 |
| .8 | .94 | .37768 | .38012 | 103.050 | .38057 | .489 | 5211.2 | .94 |
| .9 | .99 | .37833 | .38076 | .237 | .38122 | .494 | 5213.6 | .98 |
| 75.0 | 40.03 | 1.37897 | 1.38141 | 103.423 | 1.38187 | 11.499 | 5216.1 | 86.02 |
| .1 | .08 | .37962 | .38206 | .609 | .38252 | .505 | 5218.5 | .06 |
| .2 | .13 | .38026 | .38270 | .796 | .38316 | .510 | 5221.0 | .10 |
| .3 | .18 | .38091 | .38335 | .983 | .38381 | .516 | 5223.4 | .14 |
| .4 | .23 | .38156 | .38400 | 104.170 | .38445 | .521 | 5225.9 | .18 |
| .5 | .28 | .38220 | .38465 | .356 | .38510 | .526 | 5228.3 | .22 |
| .6 | .33 | .38285 | .38530 | .543 | .38575 | .532 | 5230.8 | .26 |
| .7 | .38 | .38350 | .38595 | .731 | .38640 | .537 | 5233.2 | .31 |
| .8 | .43 | .38415 | .38660 | .919 | .38705 | .543 | 5235.7 | .35 |
| .9 | .48 | .38480 | .38725 | 105.106 | .38770 | .548 | 5238.1 | .39 |

| Brix | Baume M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 76.0 | 40.53 | 1.38545 | 1.38790 | 105.294 | 1.38835 | 11.554 | 5240.6 | 86.43 |
| .1 | .57 | .38610 | .38855 | .482 | .38902 | .559 | 5243.1 | .47 |
| .2 | .62 | .38675 | .38920 | .670 | .38967 | .564 | 5245.5 | .51 |
| .3 | .67 | .38740 | .38985 | .859 | .39032 | .570 | 5248.0 | .55 |
| .4 | .72 | .38805 | .39050 | 106.047 | .39097 | .575 | 5250.5 | .59 |
| .5 | .77 | .38870 | .39115 | .236 | .39162 | .581 | 5252.9 | .63 |
| .6 | .82 | .38935 | .39180 | .424 | .39228 | .586 | 5255.4 | .67 |
| .7 | .87 | .39000 | .39246 | .613 | .39293 | .592 | 5257.8 | .71 |
| .8 | .92 | .39065 | .39311 | .802 | .39358 | .597 | 5260.3 | .75 |
| .9 | .97 | .39130 | .39376 | .991 | .39423 | .602 | 5262.8 | .79 |
| 77.0 | 41.01 | 1.39196 | 1.39442 | 107.181 | 1.39489 | 11.608 | 5265.2 | 86.83 |
| .1 | .06 | .39261 | .39507 | .370 | .39554 | .613 | 5267.7 | .87 |
| .2 | .11 | .39326 | .39573 | .560 | .39619 | .619 | 5270.2 | .91 |
| .3 | .16 | .39392 | .39638 | .750 | .39685 | .624 | 5272.7 | .96 |
| .4 | .21 | .39457 | .39704 | .940 | .39750 | .630 | 5275.2 | 87.00 |
| .5 | .26 | .39523 | .39769 | 108.130 | .39816 | .635 | 5277.6 | .04 |
| .6 | .31 | .39588 | .39835 | .320 | .39882 | .641 | 5280.1 | .08 |
| .7 | .36 | .39654 | .39901 | .511 | .39949 | .646 | 5282.6 | .12 |
| .8 | .40 | .39719 | .39966 | .701 | .40014 | .652 | 5285.1 | .16 |
| .9 | .45 | .39785 | .40032 | .892 | .40080 | .657 | 5287.5 | .20 |
| 78.0 | 41.50 | 1.39850 | 1.40098 | 109.084 | 1.40146 | 11.663 | 5290.0 | 87.24 |
| .1 | .55 | .39916 | .40164 | .274 | .40211 | .668 | 5292.5 | .28 |
| .2 | .60 | .39982 | .40230 | .466 | .40277 | .673 | 5295.0 | .32 |
| .3 | .65 | .40048 | .40295 | .657 | .40344 | .679 | 5297.5 | .37 |
| .4 | .70 | .40113 | .40361 | .848 | .40409 | .684 | 5300.0 | .41 |
| .5 | .74 | .40179 | .40427 | 110.041 | .40475 | .690 | 5302.5 | .45 |
| .6 | .79 | .40245 | .40493 | .232 | .40541 | .695 | 5305.0 | .49 |
| .7 | .84 | .40311 | .40559 | .425 | .40607 | .701 | 5307.5 | .53 |
| .8 | .89 | .40377 | .40625 | .617 | .40674 | .706 | 5310.0 | .57 |
| .9 | .94 | .40443 | .40691 | .809 | .40740 | .712 | 5312.5 | .61 |
| 79.0 | 41.99 | 1.40509 | 1.40758 | 111.002 | 1.40806 | 11.717 | 5315.0 | 87.65 |
| .1 | 42.03 | .40575 | .40824 | .195 | .40872 | .723 | 5317.5 | .69 |
| .2 | .08 | .40641 | .40890 | .388 | .40938 | .728 | 5320.0 | .74 |
| .3 | .13 | .40707 | .40956 | .581 | .41005 | .734 | 5322.5 | .78 |
| .4 | .18 | .40774 | .41023 | .775 | .41072 | .740 | 5325.0 | .82 |
| .5 | .23 | .40840 | .41089 | .968 | .41138 | .745 | 5327.5 | .86 |
| .6 | .28 | .40906 | .41155 | 112.161 | .41204 | .751 | 5330.0 | .90 |
| .7 | .32 | .40972 | .41222 | .354 | .41270 | .756 | 5332.5 | .94 |
| .8 | .37 | .41039 | .41288 | .549 | .41337 | .762 | 5335.0 | .98 |
| .9 | .42 | .41105 | .41355 | .743 | .41404 | .767 | 5337.5 | 88.02 |

| Brix | Baume M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 80.0 | 42.47 | 1.41172 | 1.41421 | 112.938 | 1.41471 | 11.773 | 5340.0 | 88.07 |
| .1 | .52 | .41238 | .41488 | 113.131 | .41537 | .778 | 5342.5 | .11 |
| .2 | .57 | .41304 | .41554 | .326 | .41603 | .784 | 5345.1 | .15 |
| .3 | .61 | .41371 | .41621 | .521 | .41670 | .789 | 5347.6 | .19 |
| .4 | .66 | .41437 | .41688 | .715 | .41737 | .795 | 5350.1 | .23 |
| .5 | .71 | .41504 | .41754 | .911 | .41804 | .801 | 5352.6 | .27 |
| .6 | .76 | .41571 | .41821 | 114.106 | .41872 | .806 | 5355.1 | .32 |
| .7 | .81 | .41637 | .41888 | .301 | .41937 | .812 | 5357.7 | .36 |
| .8 | .85 | .41704 | .41955 | .497 | .42004 | .817 | 5360.2 | .40 |
| .9 | .90 | .41771 | .42022 | .692 | .42072 | .823 | 5362.7 | .44 |
| 81.0 | 42.95 | 1.41837 | 1.42088 | 114.888 | 1.42138 | 11.828 | 5365.2 | 88.48 |
| .1 | 43.00 | .41904 | .42155 | 115.084 | .42205 | .834 | 5367.8 | .52 |
| .2 | .05 | .41971 | .42222 | .280 | .42272 | .839 | 5370.3 | .57 |
| .3 | .10 | .42038 | .42289 | .477 | .42339 | .845 | 5372.8 | .61 |
| .4 | .14 | .42105 | .42356 | .673 | .42406 | .851 | 5375.4 | .65 |
| .5 | .19 | .42172 | .42423 | .870 | .42474 | .856 | 5377.9 | .69 |
| .6 | .24 | .42239 | .42490 | 116.067 | .42541 | .862 | 5380.4 | .73 |
| .7 | .29 | .42306 | .42558 | .264 | .42608 | .867 | 5383.0 | .77 |
| .8 | .33 | .42373 | .42625 | .461 | .42675 | .873 | 5385.5 | .82 |
| .9 | .38 | .42440 | .42692 | .658 | .42742 | .879 | 5388.1 | .86 |
| 82.0 | 43.43 | 1.42507 | 1.42759 | 116.856 | 1.42810 | 11.884 | 5390.6 | 88.90 |
| .1 | .48 | .42574 | .42827 | 117.053 | .42878 | .890 | 5393.1 | .94 |
| .2 | .53 | .42642 | .42894 | .252 | .42946 | .895 | 5395.7 | .98 |
| .3 | .57 | .42709 | .42961 | .449 | .43013 | .901 | 5398.2 | 89.03 |
| .4 | .62 | .42776 | .43029 | .647 | .43080 | .907 | 5400.8 | .07 |
| .5 | .67 | .42844 | .43096 | .845 | .43148 | .912 | 5403.3 | .11 |
| .6 | .72 | .42911 | .43164 | 118.044 | .43214 | .918 | 5405.9 | .15 |
| .7 | .77 | .42978 | .43231 | .243 | .43282 | .924 | 5408.4 | .19 |
| .8 | .81 | .43046 | .43298 | .442 | .43350 | .929 | 5411.0 | .24 |
| .9 | .86 | .43113 | .43366 | .641 | .43417 | .935 | 5413.5 | .28 |
| 83.0 | 43.91 | 1.43181 | 1.43434 | 118.840 | 1.43486 | 11.940 | 5416.1 | 89.32 |
| .1 | .96 | .43248 | .43502 | 119.039 | .43553 | .946 | 5418.7 | .36 |
| .2 | 44.00 | .43316 | .43569 | .239 | .43621 | .952 | 5421.2 | .41 |
| .3 | .05 | .43384 | .43637 | .438 | .43688 | .957 | 5423.8 | .45 |
| .4 | .10 | .43451 | .43705 | .638 | .43756 | .963 | 5426.3 | .49 |
| .5 | .15 | .43519 | .43773 | .838 | .43824 | .969 | 5428.9 | .53 |
| .6 | .19 | .43587 | .43841 | 120.039 | .43894 | .974 | 5431.5 | .57 |
| .7 | .24 | .43654 | .43908 | .238 | .43961 | .980 | 5434.0 | .62 |
| .8 | .29 | .43722 | .43976 | .439 | .44029 | .986 | 5436.6 | .66 |
| .9 | .34 | .43790 | .44044 | .640 | .44097 | .991 | 5439.2 | .70 |

| Brix | Baumé M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 84.0 | 44.38 | 1.43858 | 1.44112 | 120.841 | 1.44165 | 11.997 | 5441.7 | 89.74 |
| .1 | .43 | .43926 | .44180 | 121.042 | .44234 | 12.003 | 5444.3 | .79 |
| .2 | .48 | .43994 | .44249 | .243 | .44302 | .008 | 5446.9 | .83 |
| .3 | .53 | .44062 | .44317 | .444 | .44370 | .014 | 5449.5 | .87 |
| .4 | .57 | .44130 | .44385 | .646 | .44438 | .020 | 5452.0 | .91 |
| .5 | .62 | .44198 | .44453 | .847 | .44507 | .025 | 5454.6 | .96 |
| .6 | .67 | .44266 | .44521 | 122.049 | .44575 | .031 | 5457.2 | 90.00 |
| .7 | .72 | .44334 | .44590 | .251 | .44643 | .037 | 5459.8 | .04 |
| .8 | .76 | .44402 | .44658 | .453 | .44712 | .042 | 5462.3 | .08 |
| .9 | .81 | .44470 | .44726 | .655 | .44780 | .048 | 5464.9 | .13 |
| 85.0 | 44.86 | 1.44539 | 1.44794 | 122.858 | 1.44848 | 12.054 | 5467.5 | 90.17 |
| .1 | .91 | .44607 | .44863 | 123.061 | .44917 | .060 | 5470.1 | .21 |
| .2 | .95 | .44675 | .44931 | .263 | .44985 | .065 | 5472.7 | .25 |
| .3 | 45.00 | .44744 | .45000 | .466 | .45054 | .071 | 5475.3 | .30 |
| .4 | .05 | .44812 | .45068 | .670 | .45123 | .077 | 5477.9 | .34 |
| .5 | .09 | .44881 | .45137 | .873 | .45191 | .082 | 5480.5 | .38 |
| .6 | .14 | .44949 | .45205 | 124.076 | .45260 | .088 | 5483.1 | .42 |
| .7 | .19 | .45018 | .45274 | .280 | .45329 | .094 | 5485.6 | .47 |
| .8 | .24 | .45086 | .45343 | .484 | .45397 | .099 | 5488.2 | .51 |
| .9 | .28 | .45154 | .45411 | .688 | .45466 | .105 | 5490.8 | .55 |
| 86.0 | 45.33 | 1.45223 | 1.45480 | 124.892 | 1.45535 | 12.111 | 5493.4 | 90.60 |
| .1 | .38 | .45292 | .45549 | 125.096 | .45604 | .117 | 5496.0 | .64 |
| .2 | .42 | .45360 | .45618 | .301 | .45673 | .122 | 5498.6 | .68 |
| .3 | .47 | .45429 | .45686 | .505 | .45741 | .128 | 5501.2 | .73 |
| .4 | .52 | .45498 | .45755 | .710 | .45810 | .134 | 5503.9 | .77 |
| .5 | .57 | .45567 | .45824 | .915 | .45879 | .140 | 5506.5 | .81 |
| .6 | .61 | .45636 | .45893 | 126.121 | .45949 | .145 | 5509.1 | .85 |
| .7 | .66 | .45704 | .45962 | .326 | .46018 | .151 | 5511.7 | .90 |
| .8 | .71 | .45773 | .46031 | .531 | .46087 | .157 | 5514.3 | .94 |
| .9 | .75 | .45842 | .46100 | .737 | .46156 | .163 | 5516.9 | .98 |
| 87.0 | 45.80 | 1.45911 | 1.46170 | 126.943 | 1.46225 | 12.168 | 5519.5 | 91.03 |
| .1 | .85 | .45980 | .46239 | 127.149 | .46294 | .174 | 5522.1 | .07 |
| .2 | .89 | .46050 | .46308 | .355 | .46364 | .180 | 5524.7 | .11 |
| .3 | .94 | .46119 | .46377 | .562 | .46433 | .186 | 5527.3 | .16 |
| .4 | .99 | .46188 | .46446 | .768 | .46502 | .191 | 5530.0 | .20 |
| .5 | 46.03 | .46257 | .46516 | .975 | .46572 | .197 | 5532.6 | .24 |
| .6 | .08 | .46326 | .46585 | 128.182 | .46641 | .203 | 5535.2 | .28 |
| .7 | .13 | .46395 | .46654 | .389 | .46710 | .209 | 5537.8 | .33 |
| .8 | .17 | .46464 | .46724 | .596 | .46780 | .215 | 5540.4 | .37 |
| .9 | .22 | .46534 | .46793 | .803 | .46849 | .220 | 5543.0 | .41 |

| Brix | Baume M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|--------------------------------------|--|---|--|---|--------|--|
| | | | | | | Pounds | Grams | |
| 1. | 2 | 3 | 4 | 5 | 6 | 7 | 8. | 9 |
| 88.0 | 46.27 | 1.46603 | 1.46862 | 129.011 | 1.46919 | 12.226 | 5545.6 | 91.46 |
| .1 | .31 | .46673 | .46932 | .219 | .46989 | .232 | 5548.3 | .50 |
| .2 | .36 | .46742 | .47002 | .426 | .47058 | .238 | 5550.9 | .54 |
| .3 | .41 | .46812 | .47071 | .635 | .47128 | .243 | 5553.6 | .59 |
| .4 | .45 | .46881 | .47141 | .843 | .47198 | .249 | 5556.2 | .63 |
| .5 | .50 | .46950 | .47210 | 130.051 | .47267 | .255 | 5558.8 | .67 |
| .6 | .55 | .47020 | .47280 | .260 | .47337 | .261 | 5561.5 | .72 |
| .7 | .59 | .47090 | .47350 | .468 | .47407 | .267 | 5564.1 | .76 |
| .8 | .64 | .47159 | .47420 | .677 | .47477 | .273 | 5566.7 | .80 |
| .9 | .69 | .47229 | .47489 | .886 | .47547 | .278 | 5569.4 | .85 |
| 89.0 | 46.73 | 1.47299 | 1.47559 | 131.096 | 1.47616 | 12.284 | 5572.0 | 91.89 |
| .1 | .78 | .47368 | .47629 | .305 | .47686 | .290 | 5574.6 | .94 |
| .2 | .83 | .47438 | .47699 | .515 | .47756 | .296 | 5577.3 | .98 |
| .3 | .87 | .47508 | .47769 | .725 | .47826 | .302 | 5579.9 | 92.02 |
| .4 | .92 | .47578 | .47839 | .935 | .47897 | .307 | 5582.6 | .07 |
| .5 | .97 | .47648 | .47909 | 132.145 | .47967 | .313 | 5585.2 | 92.11 |
| .6 | 47.01 | .47718 | .47979 | .355 | .48037 | .319 | 5587.9 | .15 |
| .7 | .06 | .47788 | .48049 | .565 | .48107 | .325 | 5590.5 | .20 |
| .8 | .11 | .47858 | .48119 | .776 | .48177 | .331 | 5593.2 | .24 |
| .9 | .15 | .47928 | .48189 | .987 | .48247 | .337 | 5595.8 | .28 |
| 90.0 | 47.20 | 1.47998 | 1.48259 | 133.198 | 1.48317 | 12.342 | 5598.4 | 92.33 |
| .1 | .24 | .48068 | .48330 | .409 | .48388 | .348 | 5601.1 | .37 |
| .2 | .29 | .48138 | .48400 | .620 | .48458 | .354 | 5603.8 | .42 |
| .3 | .34 | .48028 | .48470 | .832 | .48529 | .360 | 5606.4 | .46 |
| .4 | .38 | .48278 | .48540 | 134.043 | .48599 | .366 | 5609.1 | .50 |
| .5 | .43 | .48348 | .48611 | .255 | .48669 | .372 | 5611.7 | .55 |
| .6 | .48 | .48419 | .48681 | .467 | .48740 | .378 | 5614.4 | .59 |
| .7 | .52 | .48489 | .48752 | .680 | .48810 | .383 | 5617.1 | .64 |
| .8 | .57 | .48559 | .48822 | .892 | .48881 | .389 | 5619.7 | .68 |
| .9 | .61 | .48630 | .48893 | 135.104 | .48951 | .395 | 5622.4 | .72 |
| 91.0 | 47.66 | 1.48700 | 1.48963 | 135.317 | 1.49022 | 12.401 | 5625.1 | 92.77 |
| .1 | .71 | .48771 | .49034 | .530 | .49093 | .407 | 5627.7 | .81 |
| .2 | .75 | .48841 | .49104 | .743 | .49164 | .413 | 5630.4 | .86 |
| .3 | .80 | .48912 | .49175 | .956 | .49234 | .419 | 5633.1 | .90 |
| .4 | .84 | .48982 | .49246 | 136.170 | .49305 | .425 | 5635.8 | .94 |
| .5 | .89 | .49053 | .49316 | .383 | .49376 | .431 | 5638.4 | .99 |
| .6 | .94 | .49123 | .49387 | .597 | .49447 | .437 | 5641.1 | 93.03 |
| .7 | .98 | .49194 | .49458 | .811 | .49518 | .442 | 5643.8 | .08 |
| .8 | 48.03 | .49265 | .49529 | 137.025 | .49588 | .448 | 5646.5 | .12 |
| .9 | .08 | .49336 | .49600 | .239 | .49659 | .454 | 5649.1 | .16 |

| Brix | Baume M=145 | True density 20°C/4°C in vacuo | True specific gravity 20°C/20°C in vacuo | Grams of sucrose per 100 ml of solution in vacuo | Apparent specific gravity in air at 20°C | Weight per U.S. gallon in air at 20°C | | Weight per cubic foot in air at 20°C Pounds |
|------|----------------|---|--|--|--|--|--------|---|
| | | | | | | Pounds | Grams | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 92.0 | 48.12 | 1.49406 | 1.49671 | 137.454 | 1.49730 | 12.460 | 5651.8 | 93.21 |
| .1 | .17 | .49477 | .49741 | .668 | .49801 | .466 | 5654.5 | .25 |
| .2 | .21 | .49548 | .49812 | .883 | .49872 | .472 | 5657.2 | .30 |
| .3 | .26 | .49619 | .49883 | 138.098 | .49944 | .478 | 5659.9 | .34 |
| .4 | .30 | .49690 | .49954 | .313 | .50015 | .484 | 5662.5 | .39 |
| .5 | .35 | .49761 | .50026 | .529 | .50086 | .490 | 5665.2 | .43 |
| .6 | .40 | .49832 | .50097 | .744 | .50157 | .496 | 5667.9 | .47 |
| .7 | .44 | .49903 | .50168 | .960 | .50228 | .502 | 5670.6 | .52 |
| .8 | .49 | .49974 | .50239 | 139.176 | .50299 | .507 | 5673.3 | .56 |
| .9 | .53 | .50045 | .50310 | .392 | .50371 | .513 | 5676.0 | .61 |
| 93.0 | 48.58 | 1.50116 | 1.50381 | 139.608 | 1.50442 | 12.519 | 5678.6 | 93.65 |
| .1 | .62 | .50187 | .50453 | .824 | .50513 | .525 | 5681.3 | .70 |
| .2 | .67 | .50258 | .50524 | 140.041 | .50585 | .531 | 5684.0 | .74 |
| .3 | .72 | .50329 | .50595 | .257 | .50656 | .537 | 5686.7 | .78 |
| .4 | .76 | .50401 | .50667 | .474 | .50728 | .543 | 5689.4 | .83 |
| .5 | .81 | .50472 | .50738 | .691 | .50799 | .549 | 5692.1 | .87 |
| .6 | .85 | .50543 | .50810 | .908 | .50871 | .555 | 5694.9 | .92 |
| .7 | .90 | .50615 | .50881 | 141.126 | .50942 | .561 | 5697.6 | .96 |
| .8 | .94 | .50686 | .50952 | .343 | .51014 | .567 | 5700.3 | 94.01 |
| .9 | .99 | .50757 | .51024 | .561 | .51086 | .573 | 5703.0 | .05 |
| 94.0 | 49.03 | 1.50829 | 1.51096 | 141.779 | 1.51157 | 12.579 | 5705.7 | 94.10 |
| .1 | .08 | .50900 | .51167 | .997 | .51229 | .585 | 5708.4 | .14 |
| .2 | .12 | .50972 | .51239 | 142.216 | .51301 | .591 | 5711.1 | .19 |
| .3 | .17 | .51044 | .51311 | .434 | .51372 | .597 | 5713.8 | .23 |
| .4 | .22 | .51115 | .51382 | .653 | .51444 | .603 | 5716.5 | .28 |
| .5 | .26 | .51187 | .51454 | .872 | .51516 | .609 | 5719.2 | .32 |
| .6 | .31 | .51258 | .51526 | 143.091 | .51588 | .615 | 5721.9 | .36 |
| .7 | .35 | .51330 | .51598 | .310 | .51660 | .621 | 5724.7 | .41 |
| .8 | .40 | .51402 | .51670 | .529 | .51732 | .627 | 5727.4 | .45 |
| .9 | .44 | .51474 | .51742 | .749 | .51804 | .633 | 5730.1 | .50 |
| 95.0 | 49.49 | 1.51546 | 1.51814 | 143.968 | 1.51876 | 12.639 | 5732.8 | 94.54 |

This table is based on the density values of Plato for solutions of cane sugar. The Baume values are from the table of Bates and Bearce (Technologic Paper No. 115). The weights are for brass weights, density 8.4; one United States gallon, 231 cubic inches; one pound (avoirdupois), 453.5924 grams. One United States gallon of water weighs 3,778.649 grams (8.33049 pounds avoirdupois) in vacuo, at 20°C. After the computations were completed, the tabulations were made by rounding off the results to the last figure given.