

## ALCOHOLOMETRIC TABLE

Based on data appearing in the National Bureau of Standards Bulletin, vol. 9, pp. 424-425 (publication of the National Institute of Standards and Technology).

| (1)  | (2)       | (3)                     | (4)                 | (5)  | (6)                     | (7)                     | (8)                 |
|--|-----------|-------------------------|---------------------|--|-------------------------|-------------------------|---------------------|
| Percentage of C <sub>2</sub> H <sub>5</sub> OH |           | Specific gravity in air |                     | Percentage of C <sub>2</sub> H <sub>5</sub> OH |                         | Specific gravity in air |                     |
| By volume<br>at 15.56°C                        | By weight | At<br>25°/25°           | At<br>15.56°/15.56° | By weight                                      | By volume<br>at 15.56°C | At<br>25°/25°           | At<br>15.56°/15.56° |
| 0  | 0.00      | 1.0000                  | 1.0000              | 0  | 0.00                    | 1.0000                  | 1.0000              |
| 1  | 0.80      | 0.9985                  | 0.9985              | 1  | 1.26                    | 0.9981                  | 0.9981              |
| 2  | 1.59      | 0.9970                  | 0.9970              | 2  | 2.51                    | 0.9963                  | 0.9963              |
| 3  | 2.39      | 0.9956                  | 0.9956              | 3  | 3.76                    | 0.9945                  | 0.9945              |
| 4  | 3.19      | 0.9941                  | 0.9942              | 4  | 5.00                    | 0.9927                  | 0.9928              |
| 5  | 4.00      | 0.9927                  | 0.9928              | 5  | 6.24                    | 0.9911                  | 0.9912              |
| 6  | 4.80      | 0.9914                  | 0.9915              | 6  | 7.48                    | 0.9894                  | 0.9896              |
| 7  | 5.61      | 0.9901                  | 0.9902              | 7  | 8.71                    | 0.9879                  | 0.9881              |
| 8  | 6.42      | 0.9888                  | 0.9890              | 8  | 9.94                    | 0.9863                  | 0.9867              |
| 9  | 7.23      | 0.9875                  | 0.9878              | 9  | 11.17                   | 0.9848                  | 0.9852              |
| 10   | 8.05      | 0.9862                  | 0.9866              | 10   | 12.39                   | 0.9833                  | 0.9839              |
| 11   | 8.86      | 0.9850                  | 0.9854              | 11   | 13.61                   | 0.9818                  | 0.9825              |
| 12   | 9.68      | 0.9838                  | 0.9843              | 12   | 14.83                   | 0.9804                  | 0.9812              |
| 13   | 10.50     | 0.9826                  | 0.9832              | 13   | 16.05                   | 0.9789                  | 0.9799              |
| 14   | 11.32     | 0.9814                  | 0.9821              | 14   | 17.26                   | 0.9776                  | 0.9787              |
| 15   | 12.14     | 0.9802                  | 0.9810              | 15   | 18.47                   | 0.9762                  | 0.9774              |
| 16   | 12.96     | 0.9790                  | 0.9800              | 16   | 19.68                   | 0.9748                  | 0.9763              |
| 17   | 13.79     | 0.9778                  | 0.9789              | 17   | 20.88                   | 0.9734                  | 0.9751              |
| 18   | 14.61     | 0.9767                  | 0.9779              | 18   | 22.08                   | 0.9720                  | 0.9738              |
| 19   | 15.44     | 0.9756                  | 0.9769              | 19   | 23.28                   | 0.9706                  | 0.9726              |
| 20   | 16.27     | 0.9744                  | 0.9759              | 20   | 24.47                   | 0.9692                  | 0.9714              |
| 21   | 17.10     | 0.9733                  | 0.9749              | 21   | 25.66                   | 0.9677                  | 0.9701              |
| 22   | 17.93     | 0.9721                  | 0.9739              | 22   | 26.85                   | 0.9663                  | 0.9688              |
| 23   | 18.77     | 0.9710                  | 0.9729              | 23   | 28.03                   | 0.9648                  | 0.9675              |
| 24   | 19.60     | 0.9698                  | 0.9719              | 24   | 29.21                   | 0.9633                  | 0.9662              |
| 25   | 20.44     | 0.9685                  | 0.9708              | 25   | 30.39                   | 0.9617                  | 0.9648              |
| 26   | 21.29     | 0.9673                  | 0.9697              | 26   | 31.56                   | 0.9601                  | 0.9635              |
| 27   | 22.13     | 0.9661                  | 0.9687              | 27   | 32.72                   | 0.9585                  | 0.9620              |
| 28   | 22.97     | 0.9648                  | 0.9676              | 28   | 33.88                   | 0.9568                  | 0.9605              |
| 29   | 23.82     | 0.9635                  | 0.9664              | 29   | 35.03                   | 0.9551                  | 0.9590              |
| 30   | 24.67     | 0.9622                  | 0.9653              | 30   | 36.18                   | 0.9534                  | 0.9574              |
| 31   | 25.52     | 0.9609                  | 0.9641              | 31   | 37.32                   | 0.9516                  | 0.9558              |
| 32   | 26.38     | 0.9595                  | 0.9629              | 32   | 38.46                   | 0.9498                  | 0.9541              |
| 33   | 27.24     | 0.9581                  | 0.9617              | 33   | 39.59                   | 0.9480                  | 0.9524              |
| 34   | 28.10     | 0.9567                  | 0.9604              | 34   | 40.72                   | 0.9461                  | 0.9506              |
| 35   | 28.97     | 0.9552                  | 0.9590              | 35   | 41.83                   | 0.9442                  | 0.9488              |
| 36   | 29.84     | 0.9537                  | 0.9576              | 36   | 42.94                   | 0.9422                  | 0.9470              |
| 37   | 30.72     | 0.9521                  | 0.9562              | 37   | 44.05                   | 0.9402                  | 0.9451              |
| 38   | 31.60     | 0.9506                  | 0.9548              | 38   | 45.15                   | 0.9382                  | 0.9432              |
| 39   | 32.48     | 0.9489                  | 0.9533              | 39   | 46.24                   | 0.9362                  | 0.9412              |
| 40   | 33.36     | 0.9473                  | 0.9517              | 40   | 47.33                   | 0.9341                  | 0.9392              |
| 41   | 34.25     | 0.9456                  | 0.9501              | 41   | 48.41                   | 0.9320                  | 0.9372              |
| 42   | 35.15     | 0.9439                  | 0.9485              | 42   | 49.48                   | 0.9299                  | 0.9352              |
| 43   | 36.05     | 0.9421                  | 0.9469              | 43   | 50.55                   | 0.9278                  | 0.9331              |
| 44   | 36.96     | 0.9403                  | 0.9452              | 44   | 51.61                   | 0.9256                  | 0.9310              |
| 45   | 37.87     | 0.9385                  | 0.9434              | 45   | 52.66                   | 0.9235                  | 0.9289              |
| 46   | 38.78     | 0.9366                  | 0.9417              | 46   | 53.71                   | 0.9213                  | 0.9268              |
| 47   | 39.70     | 0.9348                  | 0.9399              | 47   | 54.75                   | 0.9191                  | 0.9246              |
| 48   | 40.62     | 0.9328                  | 0.9380              | 48   | 55.78                   | 0.9169                  | 0.9225              |
| 49   | 41.55     | 0.9309                  | 0.9361              | 49   | 56.81                   | 0.9147                  | 0.9203              |
| 50   | 42.49     | 0.9289                  | 0.9342              | 50   | 57.83                   | 0.9124                  | 0.9181              |
| 51   | 43.43     | 0.9269                  | 0.9322              | 51   | 58.84                   | 0.9102                  | 0.9159              |
| 52   | 44.37     | 0.9248                  | 0.9302              | 52   | 59.85                   | 0.9079                  | 0.9137              |