

OIV-MA-AS312-02 Alcoholic strength by volume

COMPENDIUM OF INTERNATIONAL ANALYSIS OF METHODS-OIV
Alcoholic strength by volume

TABLE I International alcoholic strength at 20°C

Table of apparent densities of ethanol/water mixtures in Pyrex pycnometer Densities at $t^{\circ}\text{C}$. corrected for air buoyancy

| Alcohol % by volume | | | | | | | | | | | | | | | | |
|---------------------|--------|------------|------------|------------|------------|------------|------------|-------|--------|-------|--------|-------|--------|------------|------------|------|
| t° | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | | | |
| 0° | 999.64 | 1.50998.14 | 1.44996.70 | 1.40995.30 | 1.35993.95 | 1.30992.65 | 1.24991.41 | 1.19 | 990.22 | 1.14 | 989.08 | 1.10 | 987.98 | 1.05986.93 | 1.00985.93 | 0.95 |
| | -0.07 | -0.06 | -0.06 | -0.06 | -0.06 | -0.06 | -0.06 | -0.05 | -0.04 | -0.03 | -0.02 | -0.01 | | | | |
| 1° | 999.71 | 1.51998.20 | 1.44996.76 | 1.40995.36 | 1.35994.01 | 1.30992.71 | 1.24991.47 | 1.20 | 990.27 | 1.15 | 989.12 | 1.11 | 988.01 | 1.06986.95 | 1.01985.94 | 0.97 |
| | -0.05 | -0.05 | -0.04 | -0.04 | -0.04 | -0.04 | -0.03 | -0.03 | -0.02 | -0.02 | -0.01 | 0.00 | | | | |
| 2° | 999.76 | 1.51998.25 | 1.45996.80 | 1.40995.40 | 1.35994.05 | 1.30992.75 | 1.25991.50 | 1.20 | 990.30 | 1.16 | 989.14 | 1.11 | 988.03 | 1.07986.96 | 1.02985.94 | 0.98 |
| | -0.03 | -0.03 | 4.03 | -0.02 | -0.02 | -0.02 | -0.02 | -0.01 | -0.01 | 0.00 | 0.01 | 0.02 | | | | |
| 3° | 999.79 | 1.51998.28 | 1.45996.83 | 1.41995.42 | 1.35994.07 | 1.30992.77 | 1.25991.52 | 1.21 | 990.31 | 1.16 | 989.15 | 1.12 | 988.03 | 1.08986.95 | 1.03985.92 | 1.00 |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|--------|-------|--------|-------|--------|-------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| | -0.02 | -0.02 | -0.01 | -0.02 | -0.01 | -0.01 | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | | | | | | | | | | | | |
| 4° | 999.81 | 1.51 | 998.30 | 1.46 | 996.84 | 1.40 | 995.44 | 1.36 | 994.08 | 1.30 | 992.78 | 1.26 | 991.52 | 1.21 | 990.31 | 1.17 | 989.14 | 1.13 | 988.01 | 1.09 | 986.92 | 1.04 | 985.88 | 1.00 |
| | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | | | | | | | | | | | | |
| 5° | 999.81 | 1.51 | 998.30 | 1.46 | 996.84 | 1.40 | 995.44 | 1.37 | 994.07 | 1.31 | 992.76 | 1.26 | 991.50 | 1.21 | 990.29 | 1.17 | 989.12 | 1.14 | 987.98 | 1.10 | 986.88 | 1.05 | 985.83 | 1.01 |
| | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.05 | 0.05 | 0.06 | | | | | | | | | | | | |
| 6° | 999.80 | 1.51 | 998.29 | 1.46 | 996.83 | 1.41 | 995.42 | 1.36 | 994.06 | 1.32 | 992.74 | 1.27 | 991.47 | 1.22 | 990.25 | 1.18 | 989.07 | 1.14 | 987.93 | 1.10 | 986.83 | 1.06 | 985.77 | 1.03 |
| | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 | | | | | | | | | | | | |
| 7° | 999.77 | 1.51 | 998.26 | 1.46 | 996.80 | 1.41 | 995.39 | 1.37 | 994.02 | 1.32 | 992.70 | 1.27 | 991.43 | 1.23 | 990.20 | 1.19 | 989.01 | 1.15 | 987.86 | 1.11 | 986.75 | 1.07 | 985.68 | 1.03 |
| | 0.05 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.07 | 0.08 | 0.09 | | | | | | | | | | | | |
| 8° | 999.72 | 1.50 | 998.22 | 1.46 | 996.76 | 1.42 | 995.34 | 1.37 | 993.97 | 1.32 | 992.65 | 1.27 | 991.38 | 1.24 | 990.14 | 1.19 | 988.95 | 1.16 | 987.79 | 1.12 | 986.67 | 1.08 | 985.59 | 1.05 |
| | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.08 | 0.09 | 0.10 | 0.11 | | | | | | | | | | | | |
| 9° | 999.67 | 1.51 | 998.16 | 1.46 | 996.70 | 1.42 | 995.28 | 1.37 | 993.91 | 1.32 | 992.59 | 1.28 | 991.31 | 1.24 | 990.07 | 1.20 | 988.87 | 1.17 | 987.70 | 1.13 | 986.57 | 1.09 | 985.48 | 1.06 |
| | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.09 | 0.09 | 0.10 | 0.11 | 0.12 | | | | | | | | | | | | |
| 10° | 999.60 | 1.51 | 998.09 | 1.46 | 996.63 | 1.42 | 995.21 | 1.37 | 993.84 | 1.33 | 992.51 | 1.28 | 991.23 | 1.25 | 989.98 | 1.20 | 988.78 | 1.17 | 987.60 | 1.14 | 986.46 | 1.10 | 985.36 | 1.06 |
| | 0.09 | 0.09 | 0.09 | 0.08 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 | 0.11 | 0.12 | 0.13 | | | | | | | | | | | | |
| 11° | 999.51 | 1.51 | 998.00 | 1.46 | 996.54 | 1.41 | 995.13 | 1.38 | 993.75 | 1.33 | 992.42 | 1.29 | 991.13 | 1.25 | 989.88 | 1.21 | 988.67 | 1.18 | 987.49 | 1.15 | 986.34 | 1.11 | 985.23 | 1.07 |
| | 0.10 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.13 | 0.14 | | | | | | | | | | | | |
| 12° | 999.41 | 1.50 | 997.91 | 1.46 | 996.45 | 1.42 | 995.03 | 1.38 | 993.65 | 1.34 | 992.31 | 1.29 | 991.02 | 1.25 | 989.77 | 1.22 | 988.55 | 1.19 | 987.36 | 1.15 | 986.21 | 1.12 | 985.09 | 1.09 |
| | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | | | | | | | | | | | | |
| 13° | 999.30 | 1.50 | 997.80 | 1.46 | 996.34 | 1.42 | 994.92 | 1.38 | 993.54 | 1.34 | 992.20 | 1.30 | 990.90 | 1.25 | 989.65 | 1.23 | 988.42 | 1.20 | 987.22 | 1.16 | 986.06 | 1.13 | 984.93 | 1.09 |
| | 0.12 | 0.12 | 0.13 | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.15 | 0.16 | 0.16 | 0.16 | | | | | | | | | | | | |
| 14° | 999.18 | 1.50 | 997.68 | 1.46 | 996.22 | 1.43 | 994.79 | 1.38 | 993.41 | 1.34 | 992.07 | 1.30 | 990.77 | 1.26 | 989.51 | 1.23 | 988.28 | 1.21 | 987.07 | 1.17 | 985.90 | 1.13 | 984.77 | 1.11 |
| | 0.14 | 0.14 | 0.13 | 0.13 | 0.14 | 0.14 | 0.15 | 0.16 | 0.16 | 0.17 | 0.18 | 0.18 | | | | | | | | | | | | |
| 15° | 999.05 | 1.51 | 997.54 | 1.46 | 996.08 | 1.42 | 994.66 | 1.38 | 993.28 | 1.35 | 991.93 | 1.30 | 990.63 | 1.27 | 989.36 | 1.24 | 988.12 | 1.21 | 986.91 | 1.18 | 985.73 | 1.14 | 984.59 | 1.12 |
| | 0.14 | 0.14 | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 | 0.19 | 0.19 | | | | | | | | | | | | |
| 16° | 998.90 | 1.50 | 997.40 | 1.46 | 995.94 | 1.43 | 994.51 | 1.38 | 993.13 | 1.35 | 991.78 | 1.31 | 990.47 | 1.27 | 989.20 | 1.25 | 987.95 | 1.21 | 986.74 | 1.19 | 985.55 | 1.15 | 984.40 | 1.13 |
| | 0.16 | 0.16 | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | | | | | | | | | | | | |
| 17° | 998.74 | 1.50 | 997.24 | 1.46 | 995.78 | 1.43 | 994.35 | 1.38 | 992.97 | 1.36 | 991.61 | 1.31 | 990.30 | 1.28 | 989.02 | 1.25 | 987.77 | 1.22 | 986.55 | 1.19 | 985.36 | 1.16 | 984.20 | 1.14 |
| | 0.17 | 0.17 | 0.16 | 0.17 | 0.17 | 0.18 | 0.18 | 0.19 | 0.20 | 0.20 | 0.21 | 0.22 | | | | | | | | | | | | |
| 18° | 998.57 | 1.50 | 997.07 | 1.46 | 995.61 | 1.42 | 994.19 | 1.39 | 992.80 | 1.36 | 991.44 | 1.32 | 990.12 | 1.28 | 988.84 | 1.26 | 987.58 | 1.23 | 986.35 | 1.20 | 985.15 | 1.17 | 983.98 | 1.14 |
| | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | | | | | | | | | | | | |
| 19° | 998.39 | 1.50 | 996.89 | 1.46 | 995.43 | 1.43 | 994.00 | 1.39 | 992.61 | 1.36 | 991.25 | 1.32 | 989.93 | 1.29 | 988.64 | 1.26 | 987.38 | 1.23 | 986.15 | 1.21 | 984.94 | 1.10 | 983.76 | 1.16 |
| | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 | 0.24 | | | | | | | | | | | | |
| 20° | 998.20 | 1.50 | 996.70 | 1.46 | 995.24 | 1.43 | 993.81 | 1.39 | 992.42 | 1.36 | 991.06 | 1.33 | 989.73 | 1.29 | 988.44 | 1.27 | 987.17 | 1.24 | 985.93 | 1.22 | 984.71 | 1.19 | 983.52 | 1.16 |

COMPEN

TABLE I (continued) International alcoholic strength at 20°C
Table of apparent densities of ethanol-water mixtures □ Pyrex pycnometer Densities
at $t^{\circ}\text{C}$. corrected for air buoyancy

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

COMPENDIUM OF INTERNATIONAL ANALYSIS OF METHODS-OIV
Alcoholic strength by volume

| t° | Alcohol % by volume | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | | | | | | | | | | | |
| 20° | 998.20 | 1.50 | 996.70 | 1.46 | 995.24 | 1.43 | 993.81 | 1.39 | 992.42 | 1.36 | 991.06 | 1.33 | 989.73 | 1.29 | 988.44 | 1.27 | 987.17 | 1.24 | 985.93 | 1.22 | 984.71 | 1.19 | 983.52 | 1.16 |
| | 0.20 | | 0.20 | | 0.20 | | 0.20 | | 0.21 | | 0.21 | | 0.21 | | 0.22 | | 0.22 | | 0.23 | | 0.24 | | 0.24 | |
| 21° | 998.00 | 1.50 | 996.50 | 1.46 | 995.04 | 1.43 | 993.61 | 1.40 | 992.21 | 1.36 | 990.85 | 1.33 | 989.52 | 1.30 | 988.22 | 1.27 | 986.95 | 1.25 | 985.70 | 1.23 | 984.47 | 1.19 | 983.28 | 1.18 |
| | 0.21 | | 0.21 | | 0.21 | | 0.21 | | 0.21 | | 0.22 | | 0.22 | | 0.23 | | 0.24 | | 0.24 | | 0.24 | | 0.26 | |
| 22° | 997.79 | 1.50 | 996.29 | 1.46 | 994.83 | 1.43 | 993.40 | 1.40 | 992.00 | 1.37 | 990.63 | 1.33 | 989.30 | 1.31 | 987.99 | 1.28 | 986.71 | 1.25 | 985.46 | 1.23 | 984.23 | 1.21 | 983.02 | 1.18 |
| | 0.22 | | 0.22 | | 0.23 | | 0.23 | | 0.23 | | 0.23 | | 0.24 | | 0.24 | | 0.24 | | 0.25 | | 0.26 | | 0.25 | |
| 23° | 997.57 | 1.50 | 996.07 | 1.47 | 994.60 | 1.43 | 993.17 | 1.40 | 991.77 | 1.37 | 990.40 | 1.34 | 989.06 | 1.31 | 987.75 | 1.28 | 986.47 | 1.26 | 985.21 | 1.24 | 983.97 | 1.20 | 982.77 | 1.20 |
| | 0.24 | | 0.23 | | 0.23 | | 0.23 | | 0.24 | | 0.24 | | 0.24 | | 0.25 | | 0.26 | | 0.26 | | 0.27 | | 0.29 | |
| 24° | 997.33 | 1.49 | 995.94 | 1.47 | 994.37 | 1.43 | 992.94 | 1.41 | 991.53 | 1.37 | 990.16 | 1.34 | 988.82 | 1.32 | 987.50 | 1.29 | 986.21 | 1.26 | 984.95 | 1.25 | 983.70 | 1.22 | 982.48 | 1.20 |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| | 0.24 | 0.25 | 0.24 | 0.25 | 0.24 | 0.25 | 0.26 | 0.26 | 0.26 | 0.27 | 0.28 | 0.28 | | | | | | | | | | | | |
| 25° | 997.09 | 1.50 | 995.59 | 1.46 | 994.13 | 1.44 | 992.69 | 1.40 | 991.29 | 1.38 | 989.91 | 1.35 | 988.56 | 1.32 | 987.24 | 1.29 | 985.95 | 1.27 | 984.68 | 1.26 | 983.42 | 1.22 | 982.20 | 1.21 |
| 26° | 0.25 | 0.25 | 0.26 | 0.25 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.28 | 0.28 | 0.28 | 0.30 | | | | | | | | | | | |
| | 996.84 | 1.50 | 995.34 | 1.47 | 993.87 | 1.43 | 992.44 | 1.41 | 991.03 | 1.38 | 989.65 | 1.35 | 988.30 | 1.32 | 986.98 | 1.31 | 985.67 | 1.27 | 984.40 | 1.26 | 983.14 | 1.24 | 981.90 | 1.22 |
| | 0.26 | 0.26 | 0.26 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.28 | 0.28 | 0.29 | 0.30 | 0.30 | | | | | | | | | | | |
| 27° | 996.58 | 1.50 | 995.68 | 1.47 | 993.61 | 1.44 | 992.17 | 1.41 | 990.76 | 1.38 | 989.38 | 1.35 | 988.03 | 1.33 | 986.70 | 1.31 | 985.39 | 1.28 | 984.11 | 1.27 | 982.84 | 1.24 | 981.60 | 1.23 |
| | 0.27 | 0.27 | 0.27 | 0.27 | 0.28 | 0.28 | 0.29 | 0.29 | 0.29 | 0.29 | 0.30 | 0.31 | 0.31 | | | | | | | | | | | |
| 28° | 996.31 | 1.50 | 994.81 | 1.47 | 993.34 | 1.44 | 991.90 | 1.42 | 990.48 | 1.38 | 989.10 | 1.36 | 987.74 | 1.33 | 986.41 | 1.31 | 985.10 | 1.29 | 983.81 | 1.28 | 982.53 | 1.25 | 981.28 | 1.23 |
| | 0.28 | 0.28 | 0.28 | 0.29 | 0.28 | 0.29 | 0.29 | 0.29 | 0.30 | 0.31 | 0.31 | 0.31 | 0.31 | | | | | | | | | | | |
| 29° | 996.03 | 1.50 | 994.53 | 1.47 | 993.06 | 1.45 | 991.61 | 1.41 | 990.20 | 1.39 | 988.81 | 1.36 | 987.45 | 1.34 | 986.11 | 1.32 | 984.79 | 1.29 | 983.50 | 1.28 | 982.22 | 1.26 | 980.96 | 1.24 |
| | 0.28 | 0.29 | 0.29 | 0.29 | 0.30 | 0.30 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.33 | 0.33 |
| 30° | 995.75 | 1.51 | 994.24 | 1.47 | 992.77 | 1.45 | 991.32 | 1.42 | 989.90 | 1.39 | 988.51 | 1.37 | 987.14 | 1.34 | 985.80 | 1.32 | 984.48 | 1.30 | 983.18 | 1.28 | 981.90 | 1.27 | 980.63 | 1.25 |
| | 0.30 | 0.30 | 0.30 | 0.30 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.32 | 0.33 | 0.34 | 0.34 | | | | | | | | | | | |
| 31° | 995.45 | 1.51 | 993.94 | 1.47 | 992.47 | 1.45 | 991.02 | 1.43 | 989.59 | 1.39 | 988.20 | 1.37 | 986.83 | 1.34 | 985.49 | 1.33 | 984.16 | 1.31 | 982.85 | 1.29 | 981.56 | 1.27 | 980.29 | 1.26 |
| | 0.31 | 0.31 | 0.31 | 0.32 | 0.31 | 0.32 | 0.32 | 0.32 | 0.33 | 0.33 | 0.34 | 0.35 | 0.36 | | | | | | | | | | | |
| 30° | 995.14 | 1.51 | 993.63 | 1.47 | 992.16 | 1.46 | 990.70 | 1.42 | 989.28 | 1.40 | 987.88 | 1.37 | 986.51 | 1.35 | 985.16 | 1.33 | 983.83 | 1.32 | 982.51 | 1.30 | 981.21 | 1.28 | 979.93 | 1.26 |
| | 0.31 | 0.31 | 0.32 | 0.32 | 0.32 | 0.33 | 0.33 | 0.34 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | | | | | | | | | | | |
| 33° | 994.93 | 1.51 | 993.32 | 1.48 | 991.84 | 1.46 | 990.38 | 1.42 | 988.96 | 1.41 | 987.55 | 1.37 | 986.18 | 1.36 | 984.82 | 1.34 | 983.48 | 1.32 | 982.16 | 1.30 | 980.86 | 1.28 | 979.58 | 1.28 |
| | 0.32 | 0.33 | 0.33 | 0.33 | 0.35 | 0.34 | 0.35 | 0.35 | 0.35 | 0.34 | 0.35 | 0.36 | 0.36 | | | | | | | | | | | |
| 34° | 994.51 | 1.52 | 992.99 | 1.48 | 991.51 | 1.46 | 990.05 | 1.44 | 988.61 | 1.40 | 987.21 | 1.38 | 985.83 | 1.36 | 984.47 | 1.33 | 983.14 | 1.33 | 981.81 | 1.31 | 980.50 | 1.29 | 979.21 | 1.28 |
| | 0.33 | 0.33 | 0.34 | 0.35 | 0.34 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.36 | 0.36 | 0.36 | | | | | | | | | | | |
| 35° | 994.18 | 1.52 | 992.66 | 1.49 | 991.17 | 1.47 | 989.70 | 1.43 | 988.27 | 1.41 | 986.86 | 1.38 | 985.48 | 1.36 | 984.12 | 1.34 | 982.78 | 1.33 | 981.45 | 1.31 | 980.14 | 1.30 | 978.84 | 1.29 |
| | 0.34 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.36 | 0.36 | 0.37 | 0.37 | 0.38 | | | | | | | | | | | |
| 36° | 993.84 | 1.53 | 992.31 | 1.49 | 990.82 | 1.47 | 989.35 | 1.43 | 987.92 | 1.41 | 986.51 | 1.38 | 985.13 | 1.37 | 983.76 | 1.34 | 982.42 | 1.34 | 981.08 | 1.31 | 979.77 | 1.31 | 978.46 | 1.29 |
| | 0.35 | 0.35 | 0.36 | 0.35 | 0.36 | 0.36 | 0.36 | 0.37 | 0.37 | 0.38 | 0.37 | 0.39 | 0.39 | | | | | | | | | | | |
| 37° | 993.49 | 1.53 | 991.96 | 1.50 | 990.46 | 1.46 | 989.00 | 1.44 | 987.56 | 1.41 | 986.15 | 1.39 | 984.76 | 1.37 | 983.39 | 1.35 | 982.04 | 1.33 | 980.71 | 1.33 | 979.38 | 1.31 | 978.07 | 1.30 |
| | 0.36 | 0.36 | 0.36 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.38 | 0.39 | 0.39 | 0.39 | | | | | | | | | | | |
| 38° | 993.13 | 1.53 | 991.60 | 1.50 | 990.10 | 1.47 | 988.63 | 1.44 | 987.19 | 1.41 | 985.78 | 1.39 | 984.39 | 1.37 | 983.02 | 1.36 | 981.66 | 1.34 | 980.32 | 1.32 | 979.00 | 1.32 | 977.68 | 1.31 |
| | 0.36 | 0.37 | 0.37 | 0.37 | 0.38 | 0.38 | 0.38 | 0.38 | 0.39 | 0.38 | 0.39 | 0.40 | 0.40 | | | | | | | | | | | |
| 39° | 992.77 | 1.54 | 991.23 | 1.50 | 989.73 | 1.47 | 988.26 | 1.45 | 986.81 | 1.41 | 985.40 | 1.39 | 984.01 | 1.38 | 982.63 | 1.35 | 981.28 | 1.35 | 979.93 | 1.33 | 978.60 | 1.32 | 977.28 | 1.32 |
| | 0.37 | 0.37 | 0.38 | 0.39 | 0.38 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.40 | 0.40 | 0.40 | | | | | | | | | | | |
| 40 | 992.40 | 1.54 | 990.86 | 1.51 | 989.35 | 1.48 | 987.87 | 1.44 | 986.43 | 1.42 | 985.01 | 1.39 | 983.62 | 1.38 | 982.24 | 1.36 | 980.88 | 1.34 | 979.54 | 1.34 | 978.20 | 1.33 | 976.87 | 1.32 |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

TABLE I (continued) International alcoholic strength at 20°C

COMPENDIUM OF INTERNATIONAL ANALYSIS OF METHODS-OIV
Alcoholic strength by volume

Table of apparent densities of ethanol/water mixtures in Pyrex pycnometer

Densities at t°C. corrected for air buoyancy

| t° | Alcohol % by volume | | | | | | | | | | | | | | | | | | | | | | | |
|----|---------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
| 0 | 986.93 | 1.00 | 985.93 | 0.95 | 984.98 | 0.92 | 984.06 | 0.88 | 983.18 | 0.84 | 982.34 | 0.80 | 981.54 | 0.78 | 980.76 | 0.75 | 980.01 | 0.73 | 979.28 | 0.72 | 978.56 | 0.70 | 977.86 | 0.70 |
| 1 | -0.02 | | -0.01 | | 0.01 | | 0.01 | | 0.03 | | 0.04 | | 0.07 | | 0.08 | | 0.10 | | 0.12 | | 0.14 | | 0.17 | |
| 1 | 986.95 | 1.01 | 995.94 | 0.97 | 984.97 | 0.92 | 984.05 | 0.90 | 983.15 | 0.85 | 982.30 | 0.83 | 981.47 | 0.79 | 980.68 | 0.77 | 979.91 | 0.75 | 979.16 | 0.74 | 978.42 | 0.73 | 977.69 | 0.72 |
| 2 | -0.01 | | 0.00 | | 0.01 | | 0.03 | | 0.04 | | 0.07 | | 0.08 | | 0.10 | | 0.12 | | 0.14 | | 0.16 | | 0.18 | |
| 2 | 986.96 | 1.02 | 985.94 | 0.98 | 984.96 | 0.94 | 984.02 | 0.91 | 983.11 | 0.98 | 982.23 | 0.84 | 981.39 | 0.81 | 980.58 | 0.79 | 979.79 | 0.77 | 979.02 | 0.76 | 978.26 | 0.75 | 977.51 | 0.74 |
| 3 | 0.01 | | 0.02 | | 0.04 | | 0.05 | | 0.06 | | 0.07 | | 0.09 | | 0.11 | | 0.13 | | 0.15 | | 0.17 | | 0.19 | |
| 3 | 986.95 | 1.03 | 985.92 | 1.00 | 984.92 | 0.95 | 983.97 | 0.92 | 983.05 | 0.89 | 982.16 | 0.86 | 981.30 | 0.83 | 980.47 | 0.81 | 979.66 | 0.79 | 978.87 | 0.78 | 978.09 | 0.77 | 977.32 | 0.77 |
| 4 | 0.03 | | 0.04 | | 0.04 | | 0.06 | | 0.07 | | 0.09 | | 0.10 | | 0.12 | | 0.14 | | 0.16 | | 0.18 | | 0.20 | |
| 4 | 986.92 | 1.04 | 985.88 | 1.00 | 984.88 | 0.97 | 983.91 | 0.93 | 982.98 | 0.91 | 982.07 | 0.87 | 981.20 | 0.85 | 980.35 | 0.83 | 979.52 | 0.81 | 978.71 | 0.80 | 977.91 | 0.79 | 977.12 | 0.79 |
| 5 | 0.04 | | 0.05 | | 0.06 | | 0.07 | | 0.09 | | 0.10 | | 0.12 | | 0.14 | | 0.15 | | 0.17 | | 0.19 | | 0.22 | |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----|---------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 5 | 986.88 | 1.05 | 985.83 | 1.01 | 984.82 | 0.98 | 983.84 | 0.95 | 982.89 | 0.92 | 981.97 | 0.89 | 981.08 | 0.87 | 980.21 | 0.84 | 979.37 | 0.83 | 978.54 | 0.82 | 977.72 | 0.82 | 976.90 | 0.80 |
| | 0.05 | | 0.06 | | 0.08 | | 0.09 | | 0.10 | | 0.12 | | 0.13 | | 0.14 | | 0.17 | | 0.19 | | 0.21 | | 0.22 | |
| 6 | 986.93 | 1.06 | 985.77 | 1.03 | 984.74 | 0.99 | 983.75 | 0.96 | 982.79 | 0.94 | 981.85 | 0.90 | 980.95 | 0.88 | 980.07 | 0.87 | 979.20 | 0.85 | 978.35 | 0.84 | 977.51 | 0.83 | 976.68 | 0.83 |
| | 0.08 | | 0.09 | | 0.09 | | 0.10 | | 0.12 | | 0.13 | | 0.15 | | 0.16 | | 0.18 | | 0.19 | | 0.21 | | 0.23 | |
| 7 | 986.75 | 1.07 | 985.68 | 1.03 | 984.65 | 1.00 | 983.65 | 0.98 | 982.67 | 0.95 | 981.72 | 0.92 | 980.80 | 0.89 | 979.91 | 0.89 | 979.02 | 0.86 | 978.16 | 0.86 | 977.30 | 0.85 | 976.45 | 0.85 |
| | 0.08 | | 0.09 | | 0.11 | | 0.13 | | 0.13 | | 0.14 | | 0.15 | | 0.18 | | 0.19 | | 0.21 | | 0.23 | | 0.25 | |
| 8 | 986.67 | 1.08 | 985.59 | 1.05 | 984.54 | 1.02 | 983.52 | 0.98 | 982.54 | 0.96 | 981.58 | 0.93 | 980.65 | 0.92 | 979.73 | 0.90 | 978.83 | 0.88 | 977.95 | 0.88 | 977.07 | 0.87 | 976.20 | 0.87 |
| | 0.10 | | 0.11 | | 0.12 | | 0.12 | | 0.14 | | 0.16 | | 0.18 | | 0.19 | | 0.21 | | 0.22 | | 0.24 | | 0.26 | |
| 9 | 986.57 | 1.09 | 985.48 | 1.06 | 984.42 | 1.02 | 983.40 | 1.00 | 982.40 | 0.98 | 981.42 | 0.95 | 980.47 | 0.93 | 979.54 | 0.92 | 978.62 | 0.89 | 977.73 | 0.90 | 976.83 | 0.89 | 975.94 | 0.89 |
| | 0.11 | | 0.12 | | 0.12 | | 0.14 | | 0.16 | | 0.17 | | 0.18 | | 0.20 | | 0.20 | | 0.23 | | 0.24 | | 0.26 | |
| 10 | 986.46 | 1.10 | 985.36 | 1.06 | 984.30 | 1.04 | 983.26 | 1.02 | 982.24 | 0.99 | 981.25 | 0.96 | 980.29 | 0.95 | 979.34 | 0.92 | 978.42 | 0.92 | 977.50 | 0.91 | 976.59 | 0.91 | 975.68 | 0.91 |
| | 0.12 | | 0.13 | | 0.14 | | 0.16 | | 0.16 | | 0.17 | | 0.19 | | 0.20 | | 0.23 | | 0.25 | | 0.27 | | 0.29 | |
| 11 | 986.34 | 1.11 | 985.23 | 1.07 | 984.16 | 1.06 | 983.10 | 1.02 | 982.08 | 1.00 | 981.08 | 0.98 | 980.10 | 0.96 | 979.14 | 0.95 | 978.19 | 0.94 | 977.25 | 0.93 | 976.32 | 0.93 | 975.39 | 0.92 |
| | 0.13 | | 0.14 | | 0.16 | | 0.16 | | 0.18 | | 0.19 | | 0.21 | | 0.22 | | 0.24 | | 0.25 | | 0.27 | | 0.28 | |
| 12 | 986.21 | 1.12 | 985.09 | 1.09 | 984.00 | 1.06 | 982.94 | 1.04 | 981.90 | 1.01 | 980.89 | 1.00 | 979.89 | 0.97 | 978.92 | 0.97 | 977.95 | 0.95 | 977.00 | 0.95 | 976.05 | 0.94 | 975.11 | 0.95 |
| | 0.15 | | 0.16 | | 0.16 | | 0.18 | | 0.19 | | 0.20 | | 0.21 | | 0.23 | | 0.24 | | 0.26 | | 0.28 | | 0.30 | |
| 13 | 986.06 | 1.13 | 984.93 | 1.09 | 983.84 | 1.08 | 982.76 | 1.05 | 981.71 | 1.02 | 980.69 | 1.01 | 979.68 | 0.99 | 978.69 | 0.98 | 977.71 | 0.97 | 976.74 | 0.97 | 975.77 | 0.96 | 974.81 | 0.96 |
| | 0.16 | | 0.16 | | 0.18 | | 0.18 | | 0.20 | | 0.22 | | 0.23 | | 0.24 | | 0.26 | | 0.27 | | 0.28 | | 0.30 | |
| 14 | 985.90 | 1.13 | 994.77 | 1.11 | 983.66 | 1.08 | 982.58 | 1.07 | 981.51 | 1.04 | 980.47 | 1.02 | 979.45 | 1.00 | 978.45 | 1.00 | 977.45 | 0.98 | 976.47 | 0.98 | 975.49 | 0.98 | 975.51 | 0.98 |
| | 0.17 | | 0.18 | | 0.19 | | 0.20 | | 0.21 | | 0.22 | | 0.24 | | 0.25 | | 0.26 | | 0.28 | | 0.30 | | 0.32 | |
| 15 | 985.73 | 1.14 | 994.59 | 1.12 | 983.47 | 1.09 | 982.38 | 1.08 | 981.30 | 1.05 | 960.25 | 1.04 | 979.21 | 1.01 | 978.20 | 1.01 | 977.19 | 1.00 | 976.19 | 1.00 | 975.19 | 1.00 | 974.19 | 1.00 |
| | 0.18 | | 0.19 | | 0.20 | | 0.22 | | 0.22 | | 0.24 | | 0.24 | | 0.27 | | 0.28 | | 0.30 | | 0.31 | | 0.32 | |
| 16 | 985.55 | 1.15 | 984.40 | 1.13 | 983.27 | 1.11 | 982.16 | 1.08 | 981.08 | 1.07 | 980.01 | 1.04 | 978.97 | 1.04 | 977.93 | 1.02 | 976.91 | 1.02 | 975.89 | 1.01 | 974.88 | 1.01 | 973.87 | 1.02 |
| | 0.19 | | 0.20 | | 0.21 | | 0.22 | | 0.23 | | 0.24 | | 0.26 | | 0.27 | | 0.29 | | 0.30 | | 0.32 | | 0.33 | |
| 17 | 985.136 | 1.16 | 984.20 | 1.14 | 983.06 | 1.12 | 981.94 | 1.09 | 980.85 | 1.08 | 979.77 | 1.06 | 978.71 | 1.05 | 977.66 | 1.04 | 976.62 | 1.03 | 975.59 | 1.03 | 974.56 | 1.02 | 973.54 | 1.04 |
| | 0.21 | | 0.22 | | 0.22 | | 0.23 | | 0.25 | | 0.26 | | 0.27 | | 0.28 | | 0.29 | | 0.31 | | 0.32 | | 0.35 | |
| 18 | 985.15 | 1.17 | 983.76 | 1.14 | 982.84 | 1.13 | 981.71 | 1.11 | 980.60 | 1.09 | 979.51 | 1.07 | 978.44 | 1.06 | 977.38 | 1.05 | 976.33 | 1.05 | 975.28 | 1.04 | 974.24 | 1.05 | 973.19 | 1.05 |
| | 0.21 | | 0.22 | | 0.24 | | 0.24 | | 0.25 | | 0.26 | | 0.28 | | 0.29 | | 0.31 | | 0.32 | | 0.34 | | 0.35 | |
| 19 | 984.94 | 1.18 | 983.76 | 1.16 | 982.60 | 1.13 | 981.47 | 1.12 | 980.35 | 1.10 | 979.25 | 1.09 | 978.16 | 1.07 | 977.09 | 1.07 | 976.02 | 1.06 | 974.96 | 1.06 | 973.90 | 1.06 | 972.84 | 1.06 |
| | 0.23 | | 0.24 | | 0.24 | | 0.26 | | 0.27 | | 0.28 | | 0.29 | | 0.30 | | 0.31 | | 0.33 | | 0.34 | | 0.36 | |
| 20 | 984.71 | 1.19 | 983.52 | 1.16 | 982.36 | 1.15 | 981.21 | 1.13 | 980.08 | 1.11 | 978.97 | 1.10 | 977.87 | 1.08 | 976.79 | 1.08 | 975.71 | 1.08 | 974.63 | 1.07 | 973.56 | 1.08 | 972.48 | 1.08 |

TABLE I (continued) International alcoholic strength at 20°C

Table of apparent densities of ethanol/water mixtures in Pyrex pycnometer. Densities at t°C. corrected for air buoyancy

| |
|---------------------|
| Alcohol % by volume |
|---------------------|

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| ℓ° | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | | | | | | | | | | | | |
|-----|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 20° | 984.71 | 1.19 | 983.52 | 1.16 | 982.36 | 1.15 | 981.21 | 1.13 | 980.08 | 1.11 | 978.97 | 1.10 | 977.87 | 1.08 | 976.79 | 1.08 | 975.71 | 1.08 | 974.63 | 1.07 | 973.56 | 1.08 | 972.48 | 1.08 |
| | 0.24 | 0.24 | 0.26 | 0.26 | 0.27 | 0.28 | 0.29 | 0.31 | 0.33 | 0.34 | 0.36 | 0.37 | | | | | | | | | | | | |
| 21° | 994.47 | 1.19 | 983.28 | 1.18 | 982.10 | 1.15 | 980.95 | 1.14 | 978.81 | 1.12 | 978.69 | 1.11 | 977.58 | 1.10 | 976.48 | 1.10 | 975.38 | 1.09 | 974.29 | 1.09 | 973.20 | 1.09 | 972.11 | 1.09 |
| | 0.24 | 0.26 | 0.28 | 0.29 | 0.30 | 0.31 | 0.33 | 0.33 | 0.35 | 0.35 | 0.36 | 0.37 | | | | | | | | | | | | |
| 22° | 984.23 | 1.21 | 983.02 | 1.18 | 981.84 | 1.17 | 980.67 | 1.15 | 979.52 | 1.13 | 978.39 | 1.12 | 977.27 | 1.12 | 976.15 | 1.10 | 975.05 | 1.11 | 973.94 | 1.10 | 972.84 | 1.10 | 971.74 | 1.12 |
| | 0.26 | 0.26 | 0.27 | 0.28 | 0.29 | 0.31 | 0.32 | 0.33 | 0.35 | 0.35 | 0.37 | 0.39 | | | | | | | | | | | | |
| 23° | 983.97 | 1.20 | 982.77 | 1.20 | 981.57 | 1.18 | 980.39 | 1.16 | 979.23 | 1.15 | 978.08 | 1.13 | 976.95 | 1.13 | 975.82 | 1.12 | 974.70 | 1.11 | 973.59 | 1.12 | 972.47 | 1.12 | 971.47 | 1.12 |
| | 0.27 | 0.29 | 0.29 | 0.29 | 0.30 | 0.31 | 0.33 | 0.33 | 0.35 | 0.37 | 0.38 | 0.40 | | | | | | | | | | | | |
| 24° | 983.70 | 1.22 | 982.48 | 1.20 | 981.28 | 1.18 | 980.10 | 1.17 | 978.93 | 1.16 | 977.77 | 1.15 | 976.62 | 1.13 | 975.49 | 1.14 | 974.35 | 1.13 | 973.22 | 1.13 | 972.09 | 1.14 | 970.95 | 1.14 |
| | 0.28 | 0.28 | 0.29 | 0.31 | 0.32 | 0.33 | 0.33 | 0.33 | 0.35 | 0.36 | 0.37 | 0.39 | 0.40 | | | | | | | | | | | |
| 25° | 983.42 | 1.22 | 982.20 | 1.21 | 980.99 | 1.20 | 979.79 | 1.18 | 978.61 | 1.17 | 977.44 | 1.15 | 976.29 | 1.15 | 975.14 | 1.15 | 973.99 | 1.14 | 972.85 | 1.15 | 971.70 | 1.15 | 970.55 | 1.16 |
| | 0.28 | 0.30 | 0.31 | 0.31 | 0.32 | 0.33 | 0.35 | 0.36 | 0.37 | 0.39 | 0.40 | 0.41 | | | | | | | | | | | | |
| 26° | 983.14 | 1.24 | 981.90 | 1.22 | 980.68 | 1.20 | 979.48 | 1.19 | 978.29 | 1.18 | 977.11 | 1.17 | 975.94 | 1.16 | 974.78 | 1.16 | 973.62 | 1.16 | 972.46 | 1.16 | 971.30 | 1.16 | 970.14 | 1.17 |
| | 0.30 | 0.30 | 0.31 | 0.32 | 0.33 | 0.34 | 0.35 | 0.36 | 0.38 | 0.39 | 0.40 | 0.42 | | | | | | | | | | | | |
| 27° | 982.84 | 1.24 | 981.60 | 1.23 | 980.37 | 1.21 | 979.16 | 1.20 | 977.96 | 1.19 | 976.77 | 1.18 | 975.59 | 1.17 | 974.42 | 1.18 | 973.24 | 1.17 | 972.07 | 1.17 | 970.90 | 1.18 | 969.72 | 1.18 |
| | 0.31 | 0.32 | 0.32 | 0.33 | 0.34 | 0.35 | 0.36 | 0.38 | 0.38 | 0.40 | 0.41 | 0.43 | | | | | | | | | | | | |
| 28° | 982.53 | 1.25 | 981.28 | 1.23 | 980.05 | 1.22 | 978.83 | 1.21 | 977.62 | 1.20 | 976.42 | 1.19 | 975.23 | 1.19 | 974.04 | 1.18 | 972.86 | 1.19 | 971.67 | 1.18 | 970.49 | 1.20 | 969.29 | 1.20 |
| | 0.31 | 0.32 | 0.33 | 0.34 | 0.35 | 0.36 | 0.37 | 0.38 | 0.40 | 0.40 | 0.42 | 0.43 | | | | | | | | | | | | |
| 29° | 982.22 | 1.26 | 980.96 | 1.24 | 979.72 | 1.23 | 978.49 | 1.22 | 977.27 | 1.21 | 976.06 | 1.20 | 974.86 | 1.20 | 973.66 | 1.20 | 972.46 | 1.19 | 971.27 | 1.20 | 970.07 | 1.21 | 968.86 | 1.22 |
| | 0.32 | 0.33 | 0.34 | 0.35 | 0.36 | 0.37 | 0.38 | 0.40 | 0.41 | 0.43 | 0.44 | 0.45 | | | | | | | | | | | | |
| 30° | 981.90 | 1.27 | 980.63 | 1.25 | 979.38 | 1.24 | 978.14 | 1.23 | 976.91 | 1.22 | 975.69 | 1.21 | 974.48 | 1.22 | 973.26 | 1.21 | 972.05 | 1.21 | 970.84 | 1.21 | 969.63 | 1.22 | 968.41 | 1.23 |
| | 0.34 | 0.34 | 0.35 | 0.36 | 0.37 | 0.38 | 0.40 | 0.40 | 0.41 | 0.42 | 0.44 | 0.45 | | | | | | | | | | | | |
| 31° | 981.56 | 1.27 | 980.29 | 1.26 | 979.03 | 1.25 | 977.78 | 1.24 | 976.54 | 1.23 | 975.31 | 1.23 | 974.08 | 1.22 | 972.86 | 1.22 | 971.64 | 1.22 | 970.42 | 1.23 | 969.19 | 1.23 | 967.96 | 1.24 |
| | 0.35 | 0.36 | 0.36 | 0.37 | 0.38 | 0.39 | 0.39 | 0.40 | 0.42 | 0.43 | 0.44 | 0.46 | | | | | | | | | | | | |
| 32° | 981.21 | 1.28 | 979.93 | 1.26 | 978.67 | 1.26 | 977.41 | 1.25 | 976.16 | 1.24 | 974.92 | 1.23 | 973.69 | 1.23 | 972.46 | 1.24 | 971.22 | 1.23 | 969.99 | 1.24 | 968.75 | 1.25 | 967.50 | 1.25 |
| | 0.35 | 0.35 | 0.37 | 0.37 | 0.38 | 0.39 | 0.40 | 0.42 | 0.42 | 0.44 | 0.45 | 0.46 | | | | | | | | | | | | |
| 33° | 980.86 | 1.28 | 979.58 | 1.28 | 978.30 | 1.26 | 977.04 | 1.26 | 975.78 | 1.25 | 974.53 | 1.24 | 973.29 | 1.25 | 972.04 | 1.24 | 970.80 | 1.25 | 969.55 | 1.25 | 968.30 | 1.26 | 967.04 | 1.27 |
| | 0.36 | 0.37 | 0.37 | 0.38 | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.44 | 0.46 | 0.47 | | | | | | | | | | | | |
| 34° | 980.50 | 1.29 | 979.21 | 1.28 | 977.93 | 1.27 | 976.66 | 1.27 | 975.39 | 1.26 | 974.13 | 1.25 | 972.88 | 1.26 | 971.62 | 1.25 | 970.37 | 1.26 | 969.11 | 1.27 | 967.84 | 1.27 | 966.57 | 1.29 |
| | 0.36 | 0.37 | 0.38 | 0.39 | 0.39 | 0.40 | 0.42 | - | 0.42 | 0.44 | 0.46 | 0.48 | | | | | | | | | | | | |
| 35° | 980.14 | 1.30 | 978.94 | 1.29 | 977.55 | 1.28 | 976.27 | 1.27 | 975.00 | 1.27 | 973.73 | 1.27 | 972.46 | 1.26 | 971.20 | 1.27 | 969.93 | 1.28 | 968.65 | 1.27 | 967.38 | 1.29 | 966.09 | 1.30 |
| | 0.37 | 0.38 | 0.38 | 0.39 | 0.40 | 0.41 | 0.42 | | 0.44 | 0.45 | 0.45 | 0.48 | | | | | | | | | | | | |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 36° | 979.77 | 1.31 | 978.46 | 1.29 | 977.17 | 1.29 | 975.88 | 1.28 | 974.60 | 1.28 | 973.32 | 1.28 | 972.04 | 1.28 | 970.76 | 1.28 | 969.48 | 1.28 | 968.20 | 1.29 | 966.91 | 1.30 | 965.61 | 1.32 |
| | 0.39 | | 0.39 | | 0.40 | | 0.40 | | 0.41 | | 0.42 | | 0.43 | | 0.44 | | 0.45 | | 0.47 | | 0.48 | | 0.49 | |
| 37° | 978.38 | 1.31 | 978.07 | 1.30 | 976.77 | 1.29 | 975.48 | 1.29 | 974.19 | 1.29 | 972.90 | 1.29 | 971.61 | 1.29 | 970.32 | 1.29 | 969.03 | 1.30 | 967.73 | 1.30 | 966.43 | 1.31 | 965.12 | 1.33 |
| | 0.38 | | 0.39 | | 0.40 | | 0.41 | | 0.42 | | 0.43 | | 0.44 | | 0.45 | | 0.46 | | 0.47 | | 0.49 | | 0.50 | |
| 38° | 979.00 | 1.32 | 977.68 | 1.31 | 976.37 | 1.30 | 975.07 | 1.30 | 973.77 | 1.30 | 972.47 | 1.30 | 971.17 | 1.30 | 969.87 | 1.30 | 968.57 | 1.31 | 967.26 | 1.32 | 965.94 | 1.32 | 964.62 | 1.34 |
| | 0.40 | | 0.40 | | 0.41 | | 0.42 | | 0.42 | | 0.43 | | 0.44 | | 0.45 | | 0.47 | | 0.48 | | 0.49 | | 0.50 | |
| 39° | 978.60 | 1.32 | 977.28 | 1.32 | 975.96 | 1.31 | 974.65 | 1.30 | 973.35 | 1.31 | 972.04 | 1.31 | 970.73 | 1.31 | 969.42 | 1.32 | 968.10 | 1.32 | 966.78 | 1.33 | 965.45 | 1.33 | 964.12 | 1.36 |
| | 0.40 | | 0.41 | | 0.41 | | 0.42 | | 0.43 | | 0.44 | | 0.45 | | 0.46 | | 0.47 | | 0.48 | | 0.49 | | 0.51 | |
| 40° | 978.20 | 1.33 | 976.87 | 1.32 | 975.55 | 1.32 | 974.23 | 1.31 | 972.92 | 1.32 | 971.60 | 1.52 | 970.28 | 1.32 | 968.96 | 1.33 | 967.63 | 1.33 | 966.30 | 1.34 | 964.96 | 1.35 | 963.61 | 1.37 |

TABLE I (continued) International alcoholic strength at 20°C

Table of apparent densities of ethanol/water mixtures in Pyrex pycnometer Densities at $t^{\circ}\text{C}$. corrected for air buoyancy

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

COMPENDIUM OF INTERNATIONAL ANALYSIS OF METHODS-OIV
Alcoholic strength by volume

| Alcohol % by volume | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| t° | 20 | | 21 | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | |
| 0 | 978.56 | 0.70 | 977.86 | 0.70 | 977.16 | 0.69 | 976.47 | 0.71 | 975.76 | 0.71 | 975.05 | 0.72 | 974.33 | 0.75 | 973.58 | 0.77 | 972.81 | 0.80 | 972.01 | 0.83 | 971.18 | 0.87 | 970.31 | 0.90 |
| | 0.14 | | 0.17 | | 0.19 | | 0.22 | | 0.24 | | 0.26 | | 0.29 | | 0.31 | | 0.34 | | 0.36 | | 0.39 | | 0.41 | |
| 1 | 978.42 | 0.73 | 977.69 | 0.72 | 976.97 | 0.72 | 976.25 | 0.73 | 975.52 | 0.73 | 974.79 | 0.75 | 974.04 | 0.77 | 973.27 | 0.80 | 972.47 | 0.82 | 971.65 | 0.86 | 970.79 | 0.89 | 969.90 | 0.92 |
| | 0.16 | | 0.18 | | 0.20 | | 0.23 | | 0.25 | | 0.28 | | 0.30 | | 0.32 | | 0.34 | | 0.37 | | 0.39 | | 0.41 | |
| 2 | 978.26 | 0.75 | 977.51 | 0.74 | 976.77 | 0.75 | 976.02 | 0.75 | 975.27 | 0.76 | 974.51 | 0.77 | 973.74 | 0.79 | 972.95 | 0.82 | 972.13 | 0.85 | 971.28 | 0.88 | 970.40 | 0.91 | 969.49 | 0.95 |
| | 0.17 | | 0.19 | | 0.22 | | 0.23 | | 0.26 | | 0.28 | | 0.31 | | 0.33 | | 0.36 | | 0.38 | | 0.40 | | 0.42 | |
| 3 | 978.09 | 0.77 | 977.32 | 0.77 | 976.55 | 0.76 | 975.79 | 0.78 | 975.01 | 0.78 | 974.23 | 0.80 | 973.43 | 0.81 | 972.62 | 0.85 | 971.77 | 0.87 | 970.90 | 0.90 | 970.00 | 0.93 | 969.07 | 0.98 |
| | 0.18 | | 0.20 | | 0.22 | | 0.25 | | 0.27 | | 0.29 | | 0.31 | | 0.34 | | 0.36 | | 0.38 | | 0.40 | | 0.43 | |
| 4 | 977.91 | 0.79 | 977.12 | 0.79 | 976.33 | 0.79 | 975.54 | 0.80 | 974.94 | 0.80 | 973.94 | 0.82 | 973.12 | 0.84 | 972.28 | 0.87 | 971.41 | 0.89 | 970.52 | 0.92 | 969.60 | 0.96 | 968.64 | 1.00 |
| | 0.19 | | 0.22 | | 0.23 | | 0.26 | | 0.27 | | 0.30 | | 0.33 | | 0.35 | | 0.37 | | 0.39 | | 0.42 | | 0.44 | |
| 5 | 977.72 | 0.82 | 976.90 | 0.80 | 976.10 | 0.82 | 975.28 | 0.81 | 974.47 | 0.83 | 973.64 | 0.85 | 972.79 | 0.86 | 971.93 | 0.89 | 971.04 | 0.91 | 970.13 | 0.95 | 969.18 | 0.98 | 968.20 | 1.01 |
| | 0.21 | | 0.22 | | 0.25 | | 0.26 | | 0.29 | | 0.31 | | 0.33 | | 0.35 | | 0.37 | | 0.40 | | 0.42 | | 0.44 | |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 6 | 977.51 | 0.83 | 976.68 | 0.83 | 975.85 | 0.83 | 975.02 | 0.84 | 974.18 | 0.85 | 973.33 | 0.87 | 972.46 | 0.86 | 971.58 | 0.91 | 970.67 | 0.94 | 969.73 | 0.97 | 968.76 | 1.00 | 967.76 | 1.03 |
| | 0.21 | | 0.23 | | 0.25 | | 0.28 | | 0.30 | | 0.32 | | 0.34 | | 0.36 | | 0.36 | | 0.40 | | 0.42 | | 0.44 | |
| 7 | 977.30 | 0.85 | 976.45 | 0.85 | 975.60 | 0.86 | 974.74 | 0.86 | 973.88 | 0.87 | 973.01 | 0.89 | 972.12 | 0.90 | 971.22 | 0.93 | 970.20 | 0.96 | 969.33 | 0.99 | 968.34 | 1.02 | 967.32 | 1.06 |
| | 0.23 | | 0.25 | | 0.27 | | 0.28 | | 0.31 | | 0.33 | | 0.35 | | 0.37 | | 0.40 | | 0.42 | | 0.43 | | 0.46 | |
| 8 | 977.07 | 0.87 | 976.20 | 0.87 | 975.33 | 0.87 | 974.46 | 0.89 | 973.57 | 0.89 | 972.68 | 0.91 | 971.77 | 0.92 | 970.85 | 0.96 | 969.89 | 0.98 | 968.91 | 1.00 | 967.91 | 1.05 | 966.86 | 1.07 |
| | 0.24 | | 0.26 | | 0.28 | | 0.30 | | 0.31 | | 0.34 | | 0.35 | | 0.38 | | 0.39 | | 0.41 | | 0.44 | | 0.46 | |
| 9 | 976.83 | 0.89 | 975.94 | 0.89 | 975.05 | 0.89 | 974.16 | 0.90 | 973.26 | 0.92 | 972.34 | 0.92 | 971.42 | 0.95 | 970.47 | 0.97 | 969.50 | 1.00 | 968.50 | 1.03 | 967.47 | 1.07 | 966.40 | 1.09 |
| | 0.24 | | 0.26 | | 0.28 | | 0.30 | | 0.33 | | 0.34 | | 0.37 | | 0.39 | | 0.41 | | 0.43 | | 0.45 | | 0.46 | |
| 10 | 976.59 | 0.91 | 975.68 | 0.91 | 974.77 | 0.91 | 973.86 | 0.93 | 972.93 | 0.93 | 972.00 | 0.95 | 971.05 | 0.97 | 970.08 | 0.99 | 969.09 | 1.02 | 968.07 | 1.05 | 967.02 | 1.08 | 965.94 | 1.12 |
| | 0.27 | | 0.29 | | 0.30 | | 0.33 | | 0.34 | | 0.36 | | 0.38 | | 0.40 | | 0.42 | | 0.44 | | 0.46 | | 0.47 | |
| 11 | 976.32 | 0.93 | 975.39 | 0.92 | 974.47 | 0.94 | 973.53 | 0.94 | 972.59 | 0.95 | 971.64 | 0.97 | 970.67 | 0.99 | 969.68 | 1.01 | 968.67 | 1.04 | 967.63 | 1.07 | 966.56 | 1.09 | 965.47 | 1.13 |
| | 0.27 | | 0.28 | | 0.31 | | 0.32 | | 0.34 | | 0.36 | | 0.38 | | 0.40 | | 0.42 | | 0.44 | | 0.45 | | 0.48 | |
| 12 | 976.05 | 0.94 | 975.11 | 0.95 | 974.16 | 0.95 | 973.21 | 0.96 | 972.25 | 0.97 | 971.28 | 0.99 | 970.29 | 1.01 | 969.28 | 1.03 | 968.25 | 1.06 | 967.19 | 1.08 | 966.11 | 1.12 | 964.99 | 1.15 |
| | 0.28 | | 0.30 | | 0.31 | | 0.33 | | 0.35 | | 0.37 | | 0.39 | | 0.41 | | 0.43 | | 0.45 | | 0.47 | | 0.49 | |
| 13 | 975.77 | 0.96 | 974.81 | 0.96 | 973.85 | 0.97 | 972.88 | 0.98 | 971.90 | 0.99 | 970.91 | 1.01 | 969.90 | 1.03 | 968.87 | 1.05 | 967.82 | 1.08 | 966.74 | 1.10 | 965.64 | 1.14 | 964.50 | 1.17 |
| | 0.28 | | 0.30 | | 0.32 | | 0.34 | | 0.36 | | 0.38 | | 0.40 | | 0.41 | | 0.43 | | 0.45 | | 0.47 | | 0.49 | |
| 14 | 975.49 | 0.98 | 974.51 | 0.98 | 973.53 | 0.99 | 972.54 | 1.00 | 971.54 | 1.01 | 970.53 | 1.03 | 969.50 | 1.04 | 968.46 | 1.07 | 967.39 | 1.10 | 966.29 | 1.12 | 965.17 | 1.16 | 964.01 | 1.19 |
| | 0.30 | | 0.32 | | 0.34 | | 0.35 | | 0.37 | | 0.39 | | 0.40 | | 0.42 | | 0.44 | | 0.46 | | 0.48 | | 0.49 | |
| 15 | 975.19 | 1.00 | 974.19 | 1.00 | 973.19 | 1.00 | 972.19 | 1.02 | 971.17 | 1.03 | 970.14 | 1.04 | 969.10 | 1.06 | 968.04 | 1.09 | 966.95 | 1.12 | 965.83 | 1.14 | 964.69 | 1.17 | 963.52 | 1.21 |
| | 0.31 | | 0.32 | | 0.34 | | 0.36 | | 0.37 | | 0.39 | | 0.41 | | 0.43 | | 0.45 | | 0.46 | | 0.48 | | 0.51 | |
| 16 | 974.88 | 1.01 | 973.87 | 1.02 | 972.85 | 1.02 | 971.83 | 1.03 | 970.80 | 1.05 | 969.75 | 1.06 | 968.69 | 1.08 | 967.61 | 1.11 | 966.50 | 1.13 | 965.37 | 1.16 | 964.21 | 1.20 | 963.01 | 1.22 |
| | 0.32 | | 0.33 | | 0.35 | | 0.37 | | 0.39 | | 0.40 | | 0.42 | | 0.44 | | 0.45 | | 0.48 | | 0.50 | | 0.50 | |
| 17 | 974.56 | 1.02 | 973.54 | 1.04 | 972.50 | 1.04 | 971.46 | 1.05 | 970.41 | 1.06 | 969.35 | 1.08 | 968.27 | 1.10 | 967.17 | 1.12 | 966.05 | 1.16 | 964.89 | 1.18 | 963.71 | 1.20 | 962.51 | 1.24 |
| | 0.32 | | 0.35 | | 0.36 | | 0.37 | | 0.39 | | 0.41 | | 0.43 | | 0.45 | | 0.47 | | 0.48 | | 0.49 | | 0.52 | |
| 18 | 974.24 | 1.05 | 973.19 | 1.05 | 972.14 | 1.05 | 971.09 | 1.07 | 970.02 | 1.08 | 968.94 | 1.10 | 967.84 | 1.12 | 966.72 | 1.14 | 965.58 | 1.17 | 964.41 | 1.19 | 963.22 | 1.23 | 961.99 | 1.25 |
| | 0.34 | | 0.35 | | 0.36 | | 0.39 | | 0.40 | | 0.42 | | 0.43 | | 0.45 | | 0.47 | | 0.48 | | 0.50 | | 0.52 | |
| 19 | 973.90 | 1.06 | 972.84 | 1.06 | 971.78 | 1.08 | 970.70 | 1.08 | 969.62 | 1.10 | 968.52 | 1.11 | 967.41 | 1.14 | 966.27 | 1.16 | 965.11 | 1.18 | 963.93 | 1.21 | 962.72 | 1.25 | 961.47 | 1.27 |
| | 0.34 | | 0.36 | | 0.38 | | 0.39 | | 0.41 | | 0.42 | | 0.45 | | 0.46 | | 0.47 | | 0.49 | | 0.51 | | 0.52 | |
| 20 | 973.56 | 1.08 | 972.48 | 1.08 | 971.40 | 1.09 | 970.31 | 1.10 | 969.21 | 1.11 | 968.10 | 1.14 | 966.96 | 1.15 | 965.81 | 1.17 | 964.64 | 1.20 | 963.44 | 1.23 | 962.21 | 1.26 | 960.95 | 1.29 |

TABLE I (continued) International alcoholic strength at 20°C

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

COMPENDIUM OF INTERNATIONAL ANALYSIS OF METHODS-OIV
Alcoholic strength by volume

Table of apparent densities of ethanol-water mixtures in Pyrex pycnometer
Densities at $t^{\circ}\text{C}$. corrected for air buoyancy

| $t^{\circ}\text{C}$ | | Alcohol % by volume | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------|---------------------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | | | | | | | | |
| 20 | 973.56 | 1.08 | 972.48 | 1.08 | 971.40 | 1.09 | 970.31 | 1.10 | 969.21 | 1.11 | 968.10 | 1.14 | 966.96 | 1.15 | 965.81 | 1.17 | 964.64 | 1.20 | 963.44 | 1.23 | 962.21 | 1.26 | 960.95 | 1.29 | 0.36 | 0.37 | 0.38 | 0.40 | 0.42 | 0.44 | 0.45 | 0.46 | 0.49 | 0.50 | 0.52 | 0.53 |
| 21 | 973.20 | 1.09 | 972.11 | 1.09 | 971.02 | 1.11 | 969.91 | 1.12 | 968.79 | 1.13 | 967.66 | 1.15 | 966.51 | 1.16 | 965.35 | 1.20 | 964.15 | 1.21 | 962.94 | 1.25 | 961.69 | 1.27 | 960.42 | 1.31 | 0.36 | 0.37 | 0.40 | 0.41 | 0.42 | 0.44 | 0.45 | 0.48 | 0.49 | 0.51 | 0.52 | 0.54 |
| 22 | 972.84 | 1.10 | 971.74 | 1.12 | 970.62 | 1.12 | 969.50 | 1.13 | 968.37 | 1.15 | 967.22 | 1.16 | 966.06 | 1.19 | 964.87 | 1.21 | 963.66 | 1.23 | 962.43 | 1.26 | 961.17 | 1.29 | 959.88 | 1.32 | 0.37 | 0.39 | 0.40 | 0.42 | 0.43 | 0.45 | 0.47 | 0.48 | 0.49 | 0.51 | 0.53 | 0.55 |
| 23 | 972.47 | 1.12 | 971.35 | 1.13 | 970.22 | 1.14 | 969.08 | 1.14 | 967.94 | 1.17 | 966.77 | 1.18 | 965.59 | 1.20 | 964.39 | 1.22 | 963.17 | 1.25 | 961.92 | 1.28 | 960.64 | 1.31 | 959.33 | 1.33 | 0.38 | 0.40 | 0.41 | 0.42 | 0.44 | 0.45 | 0.47 | 0.49 | 0.51 | 0.52 | 0.54 | 0.55 |
| 24 | 972.09 | 1.14 | 970.95 | 1.14 | 969.81 | 1.15 | 968.66 | 1.16 | 967.50 | 1.18 | 966.32 | 1.20 | 965.12 | 1.22 | 963.90 | 1.24 | 962.66 | 1.26 | 961.40 | 1.30 | 960.10 | 1.32 | 958.78 | 1.35 | 0.39 | 0.40 | 0.42 | 0.43 | 0.45 | 0.47 | 0.48 | 0.49 | 0.51 | 0.53 | 0.54 | 0.55 |
| 25 | 971.70 | 1.15 | 970.55 | 1.16 | 969.39 | 1.16 | 968.23 | 1.18 | 967.05 | 1.20 | 965.85 | 1.21 | 964.64 | 1.23 | 963.41 | 1.26 | 962.15 | 1.28 | 960.87 | 1.31 | 959.56 | 1.33 | 958.23 | 1.37 | 0.40 | 0.41 | 0.42 | 0.44 | 0.46 | 0.47 | 0.49 | 0.50 | 0.51 | 0.53 | 0.54 | 0.57 |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 26 | 971.30 | 1.16 | 970.14 | 1.17 | 968.97 | 1.18 | 967.79 | 1.20 | 966.59 | 1.21 | 965.38 | 1.23 | 964.15 | 1.24 | 962.91 | 1.27 | 961.64 | 1.30 | 960.34 | 1.32 | 959.02 | 1.36 | 957.66 | 1.38 |
| | 0.40 | | 0.42 | | 0.43 | | 0.45 | | 0.46 | | 0.48 | | 0.49 | | 0.51 | | 0.53 | | 0.54 | | 0.56 | | 0.56 | |
| 27 | 970.90 | 1.18 | 969.72 | 1.18 | 968.54 | 1.20 | 967.34 | 1.21 | 966.13 | 1.23 | 964.90 | 1.24 | 963.66 | 1.26 | 962.40 | 1.29 | 961.11 | 1.31 | 959.80 | 1.34 | 958.46 | 1.36 | 957.10 | 1.40 |
| | 0.41 | | 0.43 | | 0.45 | | 0.46 | | 0.47 | | 0.48 | | 0.50 | | 0.52 | | 0.54 | | 0.56 | | 0.57 | | 0.59 | |
| 28 | 970.49 | 1.20 | 969.29 | 1.20 | 968.09 | 1.21 | 966.88 | 1.22 | 965.66 | 1.24 | 964.42 | 1.26 | 963.16 | 1.28 | 961.88 | 1.31 | 960.57 | 1.33 | 959.24 | 1.35 | 957.89 | 1.38 | 956.51 | 1.41 |
| | 0.42 | | 0.43 | | 0.45 | | 0.47 | | 0.49 | | 0.50 | | 0.52 | | 0.53 | | 0.53 | | 0.55 | | 0.56 | | 0.58 | |
| 29 | 970.07 | 1.21 | 968.86 | 1.22 | 967.64 | 1.23 | 966.41 | 1.24 | 965.17 | 1.25 | 963.92 | 1.28 | 962.64 | 1.29 | 961.35 | 1.31 | 960.04 | 1.35 | 958.69 | 1.36 | 957.33 | 1.40 | 955.93 | 1.42 |
| | 0.44 | | 0.45 | | 0.46 | | 0.47 | | 0.49 | | 0.50 | | 0.51 | | 0.53 | | 0.55 | | 0.55 | | 0.58 | | 0.58 | |
| 30 | 969.63 | 1.22 | 968.41 | 1.23 | 967.18 | 1.24 | 965.94 | 1.26 | 964.68 | 1.26 | 963.42 | 1.29 | 962.13 | 1.31 | 960.82 | 1.33 | 959.49 | 1.35 | 958.14 | 1.39 | 956.75 | 1.40 | 955.35 | 1.44 |
| | 0.44 | | 0.45 | | 0.46 | | 0.48 | | 0.49 | | 0.51 | | 0.52 | | 0.53 | | 0.55 | | 0.57 | | 0.58 | | 0.60 | |
| 31 | 969.19 | 1.23 | 967.96 | 1.24 | 966.72 | 1.26 | 965.46 | 1.27 | 964.19 | 1.28 | 962.91 | 1.30 | 961.61 | 1.32 | 960.29 | 1.35 | 958.94 | 1.37 | 957.57 | 1.40 | 956.17 | 1.42 | 954.75 | 1.44 |
| | 0.44 | | 0.46 | | 0.47 | | 0.48 | | 0.50 | | 0.51 | | 0.53 | | 0.54 | | 0.55 | | 0.57 | | 0.58 | | 0.59 | |
| 32 | 968.75 | 1.25 | 967.50 | 1.25 | 966.25 | 1.27 | 964.98 | 1.29 | 963.69 | 1.29 | 962.40 | 1.32 | 961.08 | 1.33 | 959.75 | 1.36 | 958.39 | 1.39 | 957.00 | 1.41 | 955.59 | 1.43 | 954.16 | 1.46 |
| | 0.45 | | 0.46 | | 0.48 | | 0.49 | | 0.50 | | 0.52 | | 0.53 | | 0.55 | | 0.57 | | 0.57 | | 0.59 | | 0.61 | |
| 33 | 968.30 | 1.26 | 967.04 | 1.27 | 965.77 | 1.28 | 964.49 | 1.30 | 963.19 | 1.31 | 961.88 | 1.33 | 960.55 | 1.35 | 959.20 | 1.38 | 957.82 | 1.39 | 956.43 | 1.43 | 955.00 | 1.45 | 953.55 | 1.47 |
| | 0.46 | | 0.47 | | 0.49 | | 0.50 | | 0.51 | | 0.53 | | 0.54 | | 0.56 | | 0.56 | | 0.59 | | 0.59 | | 0.60 | |
| 34 | 967.84 | 1.27 | 966.57 | 1.29 | 965.28 | 1.29 | 963.99 | 1.31 | 962.68 | 1.33 | 961.35 | 1.34 | 960.01 | 1.37 | 958.64 | 1.38 | 957.26 | 1.42 | 955.84 | 1.43 | 954.41 | 1.46 | 952.95 | 1.49 |
| | 0.46 | | 0.48 | | 0.49 | | 0.51 | | 0.52 | | 0.53 | | 0.55 | | 0.56 | | 0.58 | | 0.58 | | 0.60 | | 0.62 | |
| 35 | 967.38 | 1.29 | 966.09 | 1.30 | 964.79 | 1.31 | 963.48 | 1.32 | 962.16 | 1.34 | 960.82 | 1.36 | 959.46 | 1.38 | 958.08 | 1.40 | 956.68 | 1.42 | 955.26 | 1.45 | 953.81 | 1.48 | 952.33 | 1.50 |
| | 0.47 | | 0.48 | | 0.50 | | 0.51 | | 0.53 | | 0.54 | | 0.55 | | 0.57 | | 0.58 | | 0.60 | | 0.61 | | 0.62 | |
| 36 | 966.91 | 1.30 | 965.61 | 1.32 | 964.29 | 1.32 | 962.97 | 1.34 | 961.63 | 1.35 | 960.28 | 1.37 | 958.91 | 1.40 | 957.51 | 1.41 | 956.10 | 1.44 | 954.66 | 1.46 | 953.20 | 1.49 | 951.71 | 1.51 |
| | 0.48 | | 0.49 | | 0.50 | | 0.52 | | 0.53 | | 0.55 | | 0.56 | | 0.57 | | 0.59 | | 0.60 | | 0.61 | | 0.62 | |
| 37 | 966.43 | 1.31 | 965.12 | 1.33 | 963.79 | 1.34 | 962.45 | 1.35 | 961.10 | 1.37 | 959.73 | 1.38 | 958.35 | 1.41 | 956.94 | 1.43 | 955.51 | 1.45 | 954.06 | 1.47 | 952.59 | 1.50 | 951.09 | 1.53 |
| | 0.49 | | 0.50 | | 0.51 | | 0.52 | | 0.54 | | 0.55 | | 0.57 | | 0.58 | | 0.59 | | 0.60 | | 0.62 | | 0.63 | |
| 38 | 965.94 | 1.32 | 964.62 | 1.34 | 963.28 | 1.35 | 961.93 | 1.37 | 960.56 | 1.38 | 959.18 | 1.40 | 957.78 | 1.42 | 956.36 | 1.44 | 954.92 | 1.46 | 953.46 | 1.49 | 951.97 | 1.51 | 950.4 | 1.54 |
| | 0.49 | | 0.50 | | 0.52 | | 0.53 | | 0.54 | | 0.56 | | 0.57 | | 0.58 | | 0.60 | | 0.61 | | 0.62 | | 0.64 | |
| 39 | 965.45 | 1.33 | 964.12 | 1.36 | 962.76 | 1.36 | 961.40 | 1.38 | 960.02 | 1.40 | 958.62 | 1.41 | 957.21 | 1.43 | 955.78 | 1.46 | 954.32 | 1.47 | 952.85 | 1.50 | 951.35 | 1.53 | 949.82 | 1.55 |
| | 0.49 | | 0.51 | | 0.52 | | 0.54 | | 0.55 | | 0.56 | | 0.58 | | 0.59 | | 0.60 | | 0.62 | | 0.63 | | 0.64 | |
| 40 | 964.96 | 1.35 | 963.61 | 1.37 | 962.24 | 1.38 | 960.86 | 1.39 | 959.47 | 1.41 | 958.06 | 1.43 | 956.63 | 1.44 | 955.19 | 1.47 | 953.72 | 1.49 | 952.23 | 1.51 | 950.72 | 1.54 | 949.18 | 1.57 |

TABLE II International alcoholic strength at 20°C

Table of Corrections to be applied to the apparent alcoholic strength to correct for the effect of temperature

Add or subtract from the apparent alcoholic strength at $t^{\circ}\text{C}$ (ordinary glass alcohol meter) the correction indicated below

| | Apparent alcoholic strength at $t^{\circ}\text{C}$ | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|--|--|--|--|--|--|--|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | | | | | | | |
|--------------|-----|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Temperatures | 0 | 0.76 | 0.77 | 0.82 | 0.87 | 0.95 | 1.04 | 1.16 | 1.31 | 1.49 | 1.70 | 1.95 | 2.26 | 2.62 | 3.03 | 3.49 | 4.02 | 4.56 | |
| | 1° | 0.81 | 0.83 | 0.87 | 0.92 | 1.00 | 1.09 | 1.20 | 1.35 | 1.52 | 1.73 | 1.97 | 2.26 | 2.59 | 2.97 | 3.40 | 3.87 | 4.36 | |
| | 2° | 0.85 | 0.87 | 0.92 | 0.97 | 1.04 | 1.13 | 1.24 | 1.38 | 1.54 | 1.74 | 1.97 | 2.24 | 2.54 | 2.89 | 3.29 | 3.72 | 4.17 | |
| | 3° | 0.88 | 0.91 | 0.95 | 1.00 | 1.07 | 1.15 | 1.26 | 1.39 | 1.55 | 1.73 | 1.95 | 2.20 | 2.48 | 2.80 | 3.16 | 3.55 | 3.95 | |
| | 4° | 0.90 | 0.92 | 0.97 | 1.02 | 1.09 | 1.17 | 1.27 | 1.40 | 1.55 | 1.72 | 1.92 | 2.15 | 2.41 | 2.71 | 3.03 | 3.38 | 3.75 | |
| | 5° | 0.91 | 0.93 | 0.98 | 1.03 | 1.10 | 1.17 | 1.27 | 1.39 | 1.53 | 1.69 | 1.87 | 2.08 | 2.33 | 2.60 | 2.89 | 3.21 | 3.54 | |
| | 6° | 0.92 | 0.94 | 0.98 | 1.02 | 1.09 | 1.16 | 1.25 | 1.37 | 1.50 | 1.65 | 1.82 | 2.01 | 2.23 | 2.47 | 2.74 | 3.02 | 3.32 | |
| | 7° | 0.91 | 0.93 | 0.97 | 1.01 | 1.07 | 1.14 | 1.23 | 1.33 | 1.45 | 1.59 | 1.75 | 1.92 | 2.12 | 2.34 | 2.58 | 2.83 | 3.10 | |
| | 8° | 0.89 | 0.91 | 0.94 | 0.98 | 1.04 | 1.11 | 1.19 | 1.28 | 1.39 | 1.52 | 1.66 | 1.82 | 2.00 | 2.20 | 2.42 | 2.65 | 2.88 | |
| | 9° | 0.86 | 0.88 | 0.91 | 0.95 | 1.01 | 1.07 | 1.14 | 1.23 | 1.33 | 1.44 | 1.57 | 1.71 | 1.97 | 2.05 | 2.24 | 2.44 | 2.65 | |
| | 10° | To add | 0.82 | 0.84 | 0.87 | 0.91 | 0.96 | 1.01 | 1.08 | 1.16 | 1.25 | 1.35 | 1.47 | 1.60 | 1.74 | 1.89 | 2.06 | 2.24 | 2.43 |
| | 11° | | 0.78 | 0.79 | 0.82 | 0.86 | 0.90 | 0.95 | 1.01 | 1.08 | 1.16 | 1.25 | 1.36 | 1.47 | 1.60 | 1.73 | 1.88 | 2.03 | 2.20 |
| | 12° | | 0.72 | 0.74 | 0.76 | 0.79 | 0.83 | 0.88 | 0.93 | 0.99 | 1.07 | 1.15 | 1.24 | 1.34 | 1.44 | 1.56 | 1.69 | 1.82 | 1.96 |
| | 13° | | 0.66 | 0.67 | 0.69 | 0.72 | 0.76 | 0.80 | 0.84 | 0.90 | 0.96 | 1.03 | 1.11 | 1.19 | 1.28 | 1.38 | 1.49 | 1.61 | 1.73 |
| | 14° | | 0.59 | 0.60 | 0.62 | 0.64 | 0.67 | 0.71 | 0.74 | 0.79 | 0.85 | 0.91 | 0.97 | 1.04 | 1.12 | 1.20 | 1.29 | 1.39 | 1.49 |
| | 15° | | 0.51 | 0.52 | 0.53 | 0.55 | 0.58 | 0.61 | 0.64 | 0.68 | 0.73 | 0.77 | 0.83 | 0.89 | 0.95 | 1.02 | 1.09 | 1.16 | 1.24 |
| | 16° | | 0.42 | 0.43 | 0.44 | 0.46 | 0.48 | 0.50 | 0.53 | 0.56 | 0.60 | 0.63 | 0.67 | 0.72 | 0.77 | 0.82 | 0.88 | 0.94 | 1.00 |
| | 17° | | 0.33 | 0.33 | 0.34 | 0.35 | 0.37 | 0.39 | 0.41 | 0.43 | 0.46 | 0.48 | 0.51 | 0.55 | 0.59 | 0.62 | 0.67 | 0.71 | 0.75 |
| | 18° | | 0.23 | 0.23 | 0.23 | 0.24 | 0.25 | 0.26 | 0.27 | 0.29 | 0.31 | 0.33 | 0.35 | 0.37 | 0.40 | 0.42 | 0.45 | 0.48 | 0.51 |
| | 19° | | 0.12 | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.23 | 0.24 | 0.25 |

TABLE II (continued)

Tables of correction

COMPENDIUM OF INTERNATIONAL ANALYSIS OF METHODS-OIV
 Alcoholic strength by volume

International alcoholic strength at 20°C

Table of Corrections to be applied to the apparent alcoholic strength to correct for the effect of temperature

Add or subtract from the apparent alcoholic strength at $t^{\circ}\text{C}$ (ordinary glass alcohol meter) the correction indicated below

| | | Apparent alcoholic strength at $t^{\circ}\text{C}$ | | | | | | | | | | | | | | | | |
|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | | | | | | | | | | | | | | | | | | |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | | | | | | | |
|--------------|-----|----------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Temperatures | 21° | To subtract | | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.19 | 0.20 | 0.22 | 0.23 | 0.25 | 0.26 |
| | 22° | | | 0.26 | 0.27 | 0.28 | 0.29 | 0.30 | 0.31 | 0.32 | 0.34 | 0.36 | 0.37 | 0.39 | 0.41 | 0.44 | 0.47 | 0.49 | 0.52 |
| | 23° | | | 0.40 | 0.41 | 0.42 | 0.44 | 0.45 | 0.47 | 0.49 | 0.51 | 0.54 | 0.57 | 0.60 | 0.63 | 0.66 | 0.70 | 0.74 | 0.78 |
| | 24° | | | 0.55 | 0.56 | 0.58 | 0.60 | 0.62 | 0.64 | 0.67 | 0.70 | 0.73 | 0.77 | 0.81 | 0.85 | 0.89 | 0.94 | 0.99 | 1.04 |
| | 25° | | | 0.69 | 0.71 | 0.73 | 0.76 | 0.79 | 0.82 | 0.85 | 0.89 | 0.93 | 0.97 | 1.02 | 1.07 | 1.13 | 1.19 | 1.25 | 1.31 |
| | 26° | | | 0.85 | 0.87 | 0.90 | 0.93 | 0.96 | 1.00 | 1.04 | 1.08 | 1.13 | 1.18 | 1.24 | 1.30 | 1.36 | 1.43 | 1.50 | 1.57 |
| | 27° | | | | 1.03 | 1.07 | 1.11 | 1.15 | 1.19 | 1.23 | 1.28 | 1.34 | 1.40 | 1.46 | 1.53 | 1.60 | 1.68 | 1.76 | 1.84 |
| | 28° | | | | 1.21 | 1.25 | 1.29 | 1.33 | 1.38 | 1.43 | 1.49 | 1.55 | 1.62 | 1.69 | 1.77 | 1.85 | 1.93 | 2.02 | 2.11 |
| | 29° | | | | 1.39 | 1.43 | 1.47 | 1.52 | 1.58 | 1.63 | 1.70 | 1.76 | 1.84 | 1.92 | 2.01 | 2.10 | 2.19 | 2.29 | 2.39 |
| | 30° | | | | 1.57 | 1.61 | 1.66 | 1.72 | 1.78 | 1.84 | 1.91 | 1.98 | 2.07 | 2.15 | 2.25 | 2.35 | 2.45 | 2.56 | 2.67 |
| | 31° | | | | 1.75 | 1.80 | 1.86 | 1.92 | 1.98 | 2.05 | 2.13 | 2.21 | 2.30 | 2.39 | 2.49 | 2.60 | 2.71 | 2.83 | 2.94 |
| | 32° | | | | 1.94 | 2.00 | 2.06 | 2.13 | 2.20 | 2.27 | 2.35 | 2.44 | 2.53 | 2.63 | 2.74 | 2.86 | 2.97 | 3.09 | 3.22 |
| | 33° | | | | | 2.20 | 2.27 | 2.34 | 2.42 | 2.50 | 2.58 | 2.67 | 2.77 | 2.88 | 2.99 | 3.12 | 3.24 | 3.37 | 3.51 |
| | 34° | | | | | 2.41 | 2.48 | 2.56 | 2.64 | 2.72 | 2.81 | 2.91 | 3.02 | 3.13 | 3.25 | 3.38 | 3.51 | 3.65 | 3.79 |
| | 35° | | | | | 2.62 | 2.70 | 2.78 | 2.86 | 2.95 | 3.05 | 3.16 | 3.27 | 3.39 | 3.51 | 3.64 | 3.78 | 3.93 | 4.08 |
| | 36° | | | | | 2.83 | 2.91 | 3.00 | 3.09 | 3.19 | 3.29 | 3.41 | 3.53 | 3.65 | 3.78 | 3.91 | 4.05 | 4.21 | 4.37 |
| | 37° | | | | | | 3.13 | 3.23 | 3.33 | 3.43 | 3.54 | 3.65 | 3.78 | 3.91 | 4.04 | 4.18 | 4.33 | 4.49 | 4.65 |
| | 38° | | | | | | 3.36 | 3.47 | 3.57 | 3.68 | 3.79 | 3.91 | 4.03 | 4.17 | 4.31 | 4.46 | 4.61 | 4.77 | 4.94 |
| | 39° | | | | | | 3.59 | 3.70 | 3.81 | 3.93 | 4.05 | 4.17 | 4.44 | 4.58 | 4.74 | 4.90 | 5.06 | 5.06 | 5.23 |
| | 40° | | | | | | 3.82 | 3.94 | 4.06 | 4.18 | 4.31 | 4.44 | 4.57 | 4.71 | 4.86 | 5.02 | 5.19 | 5.36 | 5.53 |

TABLE II (continued)

International alcoholic strength at 20°C

Table of Corrections to be applied to the apparent alcoholic strength to correct for the effect of temperature

Add or subtract from the apparent alcoholic strength at $t^{\circ}\text{C}$ (ordinary glass alcohol meter) the correction indicated below

| | Apparent alcoholic strength at $t^{\circ}\text{C}$ | | | | | | | | | | | | | | | | |
|--|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| | | | | | | | | | | | | | | | | | |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | | | | | | | | |
|--------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Temperatures | To add | 0° | 3.49 | 4.02 | 4.56 | 5.11 | 5.65 | 6.16 | 6.63 | 7.05 | 7.39 | 7.67 | 7.91 | 8.07 | 8.20 | 8.30 | 8.36 | 8.39 | 8.40 | |
| | | 1° | 3.40 | 3.87 | 4.36 | 4.86 | 5.35 | 5.82 | 6.26 | 6.64 | 6.96 | 7.23 | 7.45 | 7.62 | 7.75 | 7.85 | 7.91 | 7.95 | 7.96 | 7.96 |
| | | 2° | 3.29 | 3.72 | 4.17 | 4.61 | 5.05 | 5.49 | 5.89 | 6.25 | 6.55 | 6.81 | 7.02 | 7.18 | 7.31 | 7.40 | 7.47 | 7.51 | 7.53 | 7.53 |
| | | 3° | 3.16 | 3.55 | 3.95 | 4.36 | 4.77 | 5.17 | 5.53 | 5.85 | 6.14 | 6.39 | 6.59 | 6.74 | 6.86 | 6.97 | 7.03 | 7.07 | 7.09 | 7.09 |
| | | 4° | 3.03 | 3.38 | 3.75 | 4.11 | 4.48 | 4.84 | 5.17 | 5.48 | 5.74 | 5.97 | 6.16 | 6.31 | 6.43 | 6.53 | 6.59 | 6.63 | 6.66 | 6.66 |
| | | 5° | 2.89 | 3.21 | 3.54 | 3.86 | 4.20 | 4.52 | 4.83 | 5.11 | 5.35 | 5.56 | 5.74 | 5.89 | 6.00 | 6.10 | 6.16 | 6.20 | 6.23 | 6.23 |
| | | 6° | 2.74 | 3.02 | 3.32 | 3.61 | 3.91 | 4.21 | 4.49 | 4.74 | 4.96 | 5.16 | 5.33 | 5.47 | 5.58 | 5.67 | 5.73 | 5.77 | 5.80 | 5.80 |
| | | 7° | 2.58 | 2.83 | 3.10 | 3.36 | 3.63 | 3.90 | 4.15 | 4.38 | 4.58 | 4.77 | 4.92 | 5.05 | 5.15 | 5.24 | 5.30 | 5.34 | 5.37 | 5.37 |
| | | 8° | 2.42 | 2.65 | 2.88 | 3.11 | 3.35 | 3.59 | 3.81 | 4.02 | 4.21 | 4.38 | 4.52 | 4.64 | 4.74 | 4.81 | 4.87 | 4.92 | 4.95 | 4.95 |
| | | 9° | 2.24 | 2.44 | 2.65 | 2.86 | 3.07 | 3.28 | 3.48 | 3.67 | 3.84 | 3.99 | 4.12 | 4.23 | 4.32 | 4.39 | 4.45 | 4.50 | 4.53 | 4.53 |
| | | 10° | 2.06 | 2.24 | 2.43 | 2.61 | 2.80 | 2.98 | 3.16 | 3.33 | 3.48 | 3.61 | 3.73 | 3.83 | 3.91 | 3.98 | 4.03 | 4.08 | 4.11 | 4.11 |
| | | 11° | 1.88 | 2.03 | 2.20 | 2.36 | 2.52 | 2.68 | 2.83 | 2.98 | 3.12 | 3.24 | 3.34 | 3.43 | 3.50 | 3.57 | 3.62 | 3.66 | 3.69 | 3.69 |
| | | 12° | 1.69 | 1.82 | 1.96 | 2.10 | 2.24 | 2.38 | 2.51 | 2.64 | 2.76 | 2.87 | 2.96 | 3.04 | 3.10 | 3.16 | 3.21 | 3.25 | 3.27 | 3.27 |
| | | 13° | 1.49 | 1.61 | 1.73 | 1.84 | 1.96 | 2.08 | 2.20 | 2.31 | 2.41 | 2.50 | 2.58 | 2.65 | 2.71 | 2.76 | 2.80 | 2.83 | 2.85 | 2.85 |
| | | 14° | 1.29 | 1.39 | 1.49 | 1.58 | 1.68 | 1.78 | 1.88 | 1.97 | 2.06 | 2.13 | 2.20 | 2.26 | 2.31 | 2.36 | 2.39 | 2.42 | 2.44 | 2.44 |
| | | 15° | 1.09 | 1.16 | 1.24 | 1.32 | 1.40 | 1.48 | 1.56 | 1.64 | 1.71 | 1.77 | 1.83 | 1.88 | 1.92 | 1.96 | 1.98 | 2.01 | 2.03 | 2.03 |
| | | 16° | 0.88 | 0.94 | 1.00 | 1.06 | 1.12 | 1.19 | 1.25 | 1.31 | 1.36 | 1.41 | 1.46 | 1.50 | 1.53 | 1.56 | 1.58 | 1.60 | 1.62 | 1.62 |
| | | 17° | 0.67 | 0.71 | 0.75 | 0.80 | 0.84 | 0.89 | 0.94 | 0.98 | 1.02 | 1.05 | 1.09 | 1.12 | 1.14 | 1.17 | 1.18 | 1.20 | 1.21 | 1.21 |
| | | 18° | 0.45 | 0.48 | 0.51 | 0.53 | 0.56 | 0.59 | 0.62 | 0.65 | 0.68 | 0.70 | 0.72 | 0.74 | 0.76 | 0.78 | 0.79 | 0.80 | 0.81 | 0.81 |
| 19° | 0.23 | 0.24 | 0.25 | 0.27 | 0.28 | 0.30 | 0.31 | 0.33 | 0.34 | 0.35 | 0.36 | 0.37 | 0.38 | 0.39 | 0.40 | 0.41 | 0.41 | 0.41 | | |

TABLE II (continued)

Tables of correction

COMPENDIUM OF INTERNATIONAL ANALYSIS OF METHODS-OIV
 Alcoholic strength by volume

International alcoholic strength at 20°C

Table of Corrections to be applied to the apparent alcoholic strength to correct for the effect of temperature

Add or subtract from the apparent alcoholic strength at $t^{\circ}\text{C}$ (ordinary glass alcohol meter) the correction indicated below

| | Apparent alcoholic strength at $t^{\circ}\text{C}$ | | | | | | | | | | | | | | | | | |
|--|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| | | | | | | | | | | | | | | | | | | |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | | | | | | | |
|--------------|-----|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Temperatures | 21° | | 0.23 | 0.25 | 0.26 | 0.28 | 0.29 | 0.30 | 0.31 | 0.33 | 0.34 | 0.35 | 0.35 | 0.37 | 0.38 | 0.38 | 0.39 | 0.39 | 0.40 |
| | 22° | | 0.47 | 0.49 | 0.52 | 0.55 | 0.57 | 0.60 | 0.62 | 0.65 | 0.67 | 0.70 | 0.72 | 0.74 | 0.75 | 0.76 | 0.78 | 0.79 | 0.80 |
| | 23° | | 0.70 | 0.74 | 0.78 | 0.82 | 0.86 | 0.90 | 0.93 | 0.97 | 1.01 | 1.04 | 1.07 | 1.10 | 1.12 | 1.15 | 1.17 | 1.18 | 1.19 |
| | 24° | | 0.94 | 0.99 | 1.04 | 1.10 | 1.15 | 1.20 | 1.25 | 1.29 | 1.34 | 1.39 | 1.43 | 1.46 | 1.50 | 1.53 | 1.55 | 1.57 | 1.59 |
| | 25° | | 1.19 | 1.25 | 1.31 | 1.37 | 1.43 | 1.49 | 1.56 | 1.62 | 1.68 | 1.73 | 1.78 | 1.83 | 1.87 | 1.90 | 1.94 | 1.97 | 1.99 |
| | 26° | | 1.43 | 1.50 | 1.57 | 1.65 | 1.73 | 1.80 | 1.87 | 1.94 | 2.01 | 2.07 | 2.13 | 2.19 | 2.24 | 2.28 | 2.32 | 2.35 | 2.38 |
| | 27° | | 1.68 | 1.76 | 1.84 | 1.93 | 2.01 | 2.10 | 2.18 | 2.26 | 2.34 | 2.41 | 2.48 | 2.55 | 2.61 | 2.66 | 2.70 | 2.74 | 2.77 |
| | 28° | | 1.93 | 2.02 | 2.11 | 2.21 | 2.31 | 2.40 | 2.49 | 2.58 | 2.67 | 2.76 | 2.83 | 2.90 | 2.98 | 3.03 | 3.08 | 3.13 | 3.17 |
| | 29° | | 2.19 | 2.29 | 2.39 | 2.50 | 2.60 | 2.70 | 2.81 | 2.91 | 3.00 | 3.09 | 3.18 | 3.26 | 3.34 | 3.40 | 3.46 | 3.51 | 3.55 |
| | 30° | | 2.45 | 2.56 | 2.67 | 2.78 | 2.90 | 3.01 | 3.12 | 3.23 | 3.34 | 3.44 | 3.53 | 3.62 | 3.70 | 3.77 | 3.84 | 3.90 | 3.95 |
| | 31° | To subtract | 2.71 | 2.83 | 2.94 | 3.07 | 3.19 | 3.31 | 3.43 | 3.55 | 3.67 | 3.78 | 3.88 | 3.98 | 4.07 | 4.15 | 4.22 | 4.28 | 4.33 |
| | 32° | | 2.97 | 3.09 | 3.22 | 3.36 | 3.49 | 3.62 | 3.74 | 3.87 | 4.00 | 4.11 | 4.22 | 4.33 | 4.43 | 4.51 | 4.59 | 4.66 | 4.72 |
| | 33° | | 3.24 | 3.37 | 3.51 | 3.65 | 3.79 | 3.92 | 4.06 | 4.20 | 4.33 | 4.45 | 4.57 | 4.68 | 4.79 | 4.88 | 4.97 | 5.04 | 5.10 |
| | 34° | | 3.51 | 3.65 | 3.79 | 3.94 | 4.09 | 4.23 | 4.37 | 4.52 | 4.66 | 4.79 | 4.91 | 5.03 | 5.15 | 5.25 | 5.34 | 5.42 | 5.49 |
| | 35° | | 3.78 | 3.93 | 4.08 | 4.23 | 4.38 | 4.53 | 4.69 | 4.84 | 4.98 | 5.12 | 5.26 | 5.38 | 5.50 | 5.61 | 5.71 | 5.80 | 5.87 |
| | 36° | | 4.05 | 4.21 | 4.37 | 4.52 | 4.68 | 4.84 | 5.00 | 5.16 | 5.31 | 5.46 | 5.60 | 5.73 | 5.86 | 5.97 | 6.08 | 6.17 | 6.25 |
| | 37° | | 4.33 | 4.49 | 4.65 | 4.82 | 4.98 | 5.15 | 5.31 | 5.48 | 5.64 | 5.80 | 5.95 | 6.09 | 6.22 | 6.33 | 6.44 | 6.54 | 6.63 |
| 38° | | 4.61 | 4.77 | 4.94 | 5.12 | 5.29 | 5.46 | 5.63 | 5.80 | 5.97 | 6.13 | 6.29 | 6.43 | 6.57 | 6.69 | 6.81 | 6.92 | 7.01 | |
| 39° | | 4.90 | 5.06 | 5.23 | 5.41 | 5.59 | 5.77 | 5.94 | 6.12 | 6.30 | 6.47 | 6.63 | 6.78 | 6.93 | 7.06 | 7.18 | 7.29 | 7.39 | |
| 40° | | 5.19 | 5.36 | 5.53 | 5.71 | 5.90 | 6.08 | 6.26 | 6.44 | 6.62 | 6.80 | 6.97 | 7.13 | 7.28 | 7.41 | 7.54 | 7.66 | 7.76 | |

TABLE III International alcoholic strength at 20°C

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

COMPENDIUM OF INTERNATIONAL ANALYSIS OF METHODS-OIV
Alcoholic strength by volume

Table of apparent densities of ethanol-water mixtures - Ordinary glass

apparatus Densities at $t^{\circ}\text{C}$ corrected for air buoyancy

| t° | Alcoholic strength in % | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|-------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | | | | | | | | | | | |
| 0 | 999.34 | 1.52 | 997.82 | 1.45 | 996.37 | 1.39 | 994.98 | 1.35 | 993.63 | 1.29 | 992.34 | 1.24 | 991.10 | 1.18 | 989.92 | 1.15 | 988.77 | 1.09 | 987.68 | 1.05 | 986.63 | 1.00 | 985.63 | 0.96 |
| 1 | -0.09 | | -0.09 | | -0.09 | | -0.08 | | -0.08 | | -0.08 | | -0.07 | | -0.05 | | -0.05 | | -0.04 | | -0.03 | | -0.02 | |
| 1 | 999.43 | 1.52 | 997.91 | 1.45 | 996.46 | 1.40 | 995.06 | 1.35 | 993.71 | 1.29 | 992.42 | 1.25 | 991.17 | 1.20 | 989.97 | 1.15 | 988.82 | 1.10 | 987.72 | 1.06 | 986.66 | 1.01 | 985.65 | 0.97 |
| 2 | -0.06 | | -0.06 | | -0.06 | | -0.06 | | -0.06 | | -0.05 | | -0.05 | | -0.04 | | -0.03 | | -0.02 | | 0.02 | | -0.01 | |
| 2 | 999.49 | 1.52 | 997.97 | 1.40 | 996.52 | 1.40 | 995.12 | 1.35 | 993.77 | 1.30 | 992.47 | 1.25 | 991.22 | 1.21 | 990.01 | 1.16 | 988.85 | 1.11 | 987.74 | 1.06 | 986.68 | 1.02 | 985.66 | 0.98 |
| 3 | -0.05 | | -0.05 | | -0.04 | | -0.04 | | -0.04 | | -0.04 | | -0.03 | | -0.03 | | -0.03 | | -0.02 | | 0.00 | | 0.01 | |
| 3 | 999.54 | 1.52 | 998.02 | 1.46 | 996.56 | 1.40 | 995.16 | 1.35 | 993.81 | 1.30 | 992.51 | 1.26 | 991.25 | 1.21 | 990.04 | 1.16 | 988.88 | 1.12 | 987.76 | 1.08 | 986.68 | 1.03 | 985.65 | 0.99 |
| 4 | -0.03 | | -0.03 | | -0.03 | | -0.03 | | -0.02 | | -0.02 | | -0.02 | | -0.01 | | 0.00 | | 0.01 | | 0.01 | | 0.02 | |
| 4 | 999.57 | 1.52 | 998.05 | 1.46 | 996.59 | 1.40 | 995.19 | 1.36 | 993.83 | 1.30 | 992.53 | 1.26 | 991.27 | 1.22 | 990.05 | 1.17 | 988.88 | 1.13 | 987.75 | 1.08 | 986.67 | 1.04 | 985.63 | 1.00 |
| 5 | -0.02 | | -0.02 | | -0.02 | | -0.02 | | -0.02 | | -0.01 | | 0.00 | | 0.00 | | 0.00 | | 0.01 | | 0.02 | | 0.03 | |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 5 | 999.59 | 1.52 | 998.07 | 1.46 | 996.61 | 1.40 | 995.21 | 1.36 | 993.85 | 1.31 | 992.54 | 1.27 | 991.27 | 1.22 | 990.05 | 1.17 | 988.88 | 1.14 | 987.74 | 1.09 | 986.65 | 1.05 | 985.60 | 1.02 |
| | 0.00 | | 0.00 | | 0.00 | | 0.01 | | 0.01 | | 0.01 | | 0.01 | | 0.02 | | 0.03 | | 0.03 | | 0.04 | | 0.06 | |
| 6 | 999.59 | 1.52 | 998.07 | 1.46 | 996.61 | 1.41 | 995.20 | 1.36 | 993.84 | 1.31 | 992.53 | 1.27 | 991.26 | 1.23 | 990.03 | 1.18 | 988.85 | 1.14 | 987.71 | 1.10 | 986.61 | 1.07 | 985.54 | 1.02 |
| | 0.01 | | 0.01 | | 0.01 | | 0.01 | | 0.01 | | 0.02 | | 0.02 | | 0.02 | | 0.03 | | 0.04 | | 0.05 | | 0.06 | |
| 7 | 999.58 | 1.52 | 998.06 | 1.46 | 996.60 | 1.41 | 995.19 | 1.36 | 993.83 | 1.32 | 992.51 | 1.27 | 991.24 | 1.23 | 990.01 | 1.19 | 988.82 | 1.15 | 987.67 | 1.11 | 986.56 | 1.08 | 985.48 | 1.04 |
| | 0.03 | | 0.03 | | 0.03 | | 0.03 | | 0.04 | | 0.04 | | 0.05 | | 0.05 | | 0.06 | | 0.07 | | 0.07 | | 0.08 | |
| 8 | 999.55 | 1.52 | 998.03 | 1.46 | 996.57 | 1.41 | 995.16 | 1.37 | 993.79 | 1.32 | 992.47 | 1.28 | 991.19 | 1.23 | 989.96 | 1.20 | 988.76 | 1.16 | 987.60 | 1.11 | 986.49 | 1.09 | 985.40 | 1.05 |
| | 0.04 | | 0.04 | | 0.04 | | 0.04 | | 0.04 | | 0.04 | | 0.05 | | 0.06 | | 0.06 | | 0.06 | | 0.08 | | 0.08 | |
| 9 | 999.51 | 1.52 | 997.99 | 1.46 | 996.53 | 1.41 | 995.12 | 1.37 | 993.75 | 1.32 | 992.43 | 1.29 | 991.14 | 1.24 | 989.90 | 1.20 | 988.70 | 1.16 | 987.54 | 1.13 | 986.41 | 1.09 | 985.32 | 1.06 |
| | 0.06 | | 0.06 | | 0.06 | | 0.06 | | 0.06 | | 0.07 | | 0.07 | | 0.07 | | 0.08 | | 0.09 | | 0.10 | | 0.11 | |
| 10 | 999.45 | 1.52 | 997.93 | 1.46 | 996.47 | 1.41 | 995.06 | 1.37 | 993.69 | 1.33 | 992.36 | 1.29 | 991.07 | 1.24 | 989.83 | 1.21 | 988.62 | 1.17 | 987.45 | 1.14 | 986.31 | 1.10 | 985.21 | 1.07 |
| | 0.07 | | 0.06 | | 0.06 | | 0.07 | | 0.07 | | 0.07 | | 0.07 | | 0.08 | | 0.09 | | 0.10 | | 0.10 | | 0.11 | |
| 11 | 999.38 | 1.51 | 997.87 | 1.46 | 996.41 | 1.42 | 994.99 | 1.37 | 993.62 | 1.33 | 992.29 | 1.29 | 991.00 | 1.25 | 989.75 | 1.22 | 988.53 | 1.18 | 987.35 | 1.14 | 986.21 | 1.11 | 985.10 | 1.08 |
| | 0.09 | | 0.09 | | 0.09 | | 0.09 | | 0.09 | | 0.09 | | 0.10 | | 0.11 | | 0.11 | | 0.11 | | 0.12 | | 0.13 | |
| 12 | 999.29 | 1.51 | 997.78 | 1.46 | 996.32 | 1.42 | 994.90 | 1.37 | 993.53 | 1.33 | 992.20 | 1.30 | 990.90 | 1.26 | 989.64 | 1.22 | 988.42 | 1.18 | 987.24 | 1.15 | 986.10 | 1.12 | 984.97 | 1.09 |
| | 0.09 | | 0.09 | | 0.09 | | 0.09 | | 0.10 | | 0.10 | | 0.10 | | 0.10 | | 0.11 | | 0.12 | | 0.13 | | 0.14 | |
| 13 | 999.20 | 1.51 | 997.69 | 1.46 | 996.23 | 1.42 | 994.81 | 1.38 | 993.43 | 1.33 | 992.10 | 1.30 | 990.80 | 1.26 | 989.54 | 1.23 | 988.31 | 1.19 | 987.12 | 1.16 | 985.96 | 1.13 | 984.83 | 1.10 |
| | 0.11 | | 0.11 | | 0.11 | | 0.11 | | 0.11 | | 0.12 | | 0.12 | | 0.13 | | 0.13 | | 0.14 | | 0.15 | | 0.16 | |
| 14 | 999.09 | 1.51 | 997.58 | 1.46 | 996.12 | 1.42 | 994.70 | 1.38 | 993.32 | 1.34 | 991.98 | 1.30 | 990.68 | 1.27 | 989.41 | 1.23 | 988.18 | 1.20 | 986.98 | 1.17 | 985.81 | 1.14 | 984.67 | 1.11 |
| | 0.12 | | 0.12 | | 0.12 | | 0.12 | | 0.12 | | 0.12 | | 0.13 | | 0.13 | | 0.14 | | 0.14 | | 0.15 | | 0.16 | |
| 15 | 998.97 | 1.51 | 997.46 | 1.46 | 996.00 | 1.42 | 994.58 | 1.38 | 993.20 | 1.34 | 991.86 | 1.31 | 990.55 | 1.27 | 989.28 | 1.24 | 988.04 | 1.20 | 986.94 | 1.18 | 985.66 | 1.15 | 984.51 | 1.12 |
| | 0.13 | | 0.13 | | 0.13 | | 0.13 | | 0.14 | | 0.14 | | 0.14 | | 0.15 | | 0.15 | | 0.17 | | 0.17 | | 0.18 | |
| 16 | 998.84 | 1.51 | 997.33 | 1.46 | 995.87 | 1.42 | 994.45 | 1.39 | 993.06 | 1.34 | 991.72 | 1.31 | 990.41 | 1.28 | 989.13 | 1.24 | 987.89 | 1.22 | 986.67 | 1.18 | 985.49 | 1.16 | 984.33 | 1.13 |
| | 0.14 | | 0.14 | | 0.14 | | 0.14 | | 0.14 | | 0.15 | | 0.15 | | 0.15 | | 0.16 | | 0.17 | | 0.17 | | 0.18 | |
| 17 | 998.70 | 1.51 | 997.19 | 1.46 | 995.73 | 1.42 | 994.31 | 1.39 | 992.92 | 1.35 | 991.57 | 1.31 | 990.26 | 1.28 | 988.98 | 1.25 | 987.73 | 1.22 | 986.50 | 1.18 | 985.32 | 1.17 | 984.15 | 1.14 |
| | 0.15 | | 0.15 | | 0.16 | | 0.16 | | 0.16 | | 0.16 | | 0.17 | | 0.17 | | 0.18 | | 0.18 | | 0.19 | | 0.19 | |
| 18 | 998.55 | 1.51 | 997.04 | 1.47 | 995.57 | 1.42 | 994.15 | 1.39 | 992.76 | 1.35 | 991.41 | 1.32 | 990.09 | 1.28 | 988.81 | 1.26 | 987.55 | 1.23 | 986.32 | 1.19 | 985.13 | 1.17 | 983.96 | 1.15 |
| | 0.17 | | 0.16 | | 0.16 | | 0.16 | | 0.16 | | 0.16 | | 0.17 | | 0.18 | | 0.18 | | 0.19 | | 0.20 | | 0.21 | |
| 19 | 998.38 | 1.50 | 996.88 | 1.47 | 995.41 | 1.42 | 993.99 | 1.39 | 992.60 | 1.35 | 991.25 | 1.33 | 989.92 | 1.29 | 988.63 | 1.26 | 987.37 | 1.24 | 986.13 | 1.20 | 984.93 | 1.18 | 983.75 | 1.16 |
| | 0.18 | | 0.18 | | 0.18 | | 0.18 | | 0.19 | | 0.19 | | 0.19 | | 0.20 | | 0.21 | | 0.22 | | 0.22 | | 0.23 | |
| 20 | 998.20 | 1.50 | 996.70 | 1.47 | 995.23 | 1.42 | 993.81 | 1.40 | 992.41 | 1.35 | 991.06 | 1.33 | 989.73 | 1.30 | 988.43 | 1.27 | 987.16 | 1.24 | 985.92 | 1.21 | 984.71 | 1.19 | 983.52 | 1.17 |

TABLE III (continued) International alcoholic strength at 20°C

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

COMPENDIUM OF INTERNATIONAL ANALYSIS OF METHODS-OIV
Alcoholic strength by volume

Table of apparent densities of ethanol-water mixtures – Ordinary glass apparatus Densities at $t^{\circ}\text{C}$ corrected for air buoyancy

| Alcoholic strength in % | | | | | | | | | | | | | | | |
|-------------------------|--------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|----|----|
| t° | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 20 | 998.20 | 1.50996.70 | 1.47995.23 | 1.42993.81 | 1.40992.41 | 1.35991.06 | 1.33989.73 | 1.30988.43 | 1.27987.16 | 1.24985.92 | 1.21984.71 | 1.19983.52 | 1.17 | | |
| | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | 0.23 | 0.23 | | | |
| 21 | 998.01 | 1.50996.51 | 1.47995.04 | 1.42993.62 | 1.40992.22 | 1.36990.86 | 1.33989.53 | 1.31988.22 | 1.27986.95 | 1.25985.70 | 1.22984.48 | 1.19983.29 | 1.17 | | |
| | 0.20 | 0.20 | 0.19 | 0.20 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 | 0.23 | 0.24 | | | |
| 22 | 987.81 | 1.50996.31 | 1.46994.85 | 1.43993.42 | 1.40992.02 | 1.36990.66 | 1.34989.32 | 1.31988.01 | 1.28986.73 | 1.25985.48 | 1.23984.25 | 1.20983.05 | 1.18 | | |
| | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.22 | 0.22 | 0.22 | 0.23 | 0.24 | 0.24 | 0.25 | | | |
| 23 | 997.60 | 1.50996.10 | 1.46994.64 | 1.43993.21 | 1.40991.81 | 1.37990.44 | 1.34989.10 | 1.31987.79 | 1.29986.50 | 1.26985.24 | 1.23984.01 | 1.21982.80 | 1.19 | | |
| | 0.21 | 0.21 | 0.22 | 0.22 | 0.22 | 0.22 | 0.23 | 0.23 | 0.23 | 0.24 | 0.25 | 0.26 | | | |
| 24 | 997.39 | 1.50995.89 | 1.47994.42 | 1.43992.99 | 1.40991.59 | 1.37990.22 | 1.35988.87 | 1.31987.56 | 1.29986.27 | 1.27985.00 | 1.24983.76 | 1.22982.54 | 1.20 | | |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| | 0.23 | 0.23 | 0.23 | 0.23 | 0.24 | 0.24 | 0.24 | 0.25 | 0.25 | 0.25 | 0.26 | 0.27 | | | | | | | | | | | | |
| 25 | 997.16 | 1.50 | 995.66 | 1.47 | 994.19 | 1.43 | 992.76 | 1.41 | 991.35 | 1.37 | 989.98 | 1.35 | 988.63 | 1.32 | 987.31 | 1.29 | 986.02 | 1.27 | 984.75 | 1.25 | 983.50 | 1.23 | 982.27 | 1.21 |
| | 0.23 | 0.23 | 0.23 | 0.24 | 0.24 | 0.24 | 0.24 | 0.25 | 0.26 | 0.27 | 0.27 | 0.28 | | | | | | | | | | | | |
| 26 | 996.93 | 1.50 | 995.43 | 1.47 | 993.96 | 1.44 | 992.52 | 1.41 | 991.11 | 1.37 | 989.74 | 1.35 | 988.39 | 1.33 | 987.06 | 1.30 | 985.76 | 1.28 | 984.48 | 1.25 | 983.23 | 1.24 | 981.99 | 1.22 |
| | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.26 | 0.26 | 0.26 | 0.27 | 0.28 | 0.29 | 0.29 | | | | | | | | | | | | |
| 27 | 996.68 | 1.50 | 995.18 | 1.47 | 993.71 | 1.44 | 992.27 | 1.41 | 990.86 | 1.38 | 989.48 | 1.35 | 988.13 | 1.33 | 986.80 | 1.31 | 985.49 | 1.29 | 994.20 | 1.26 | 982.94 | 1.24 | 981.70 | 1.23 |
| | 0.25 | 0.25 | 0.26 | 0.26 | 0.26 | 0.26 | 0.27 | 0.28 | 0.28 | 0.28 | 0.29 | 0.30 | | | | | | | | | | | | |
| 28 | 996.43 | 1.50 | 994.93 | 1.48 | 993.45 | 1.44 | 992.01 | 1.41 | 990.60 | 1.38 | 989.22 | 1.36 | 987.86 | 1.34 | 986.52 | 1.31 | 985.21 | 1.29 | 983.92 | 1.27 | 982.65 | 1.25 | 981.40 | 1.23 |
| | 0.26 | 0.27 | 0.27 | 0.27 | 0.27 | 0.28 | 0.28 | 0.28 | 0.28 | 0.29 | 0.29 | 0.30 | 0.31 | | | | | | | | | | | |
| 29 | 996.17 | 1.51 | 994.66 | 1.48 | 993.18 | 1.44 | 991.74 | 1.41 | 990.33 | 1.39 | 988.94 | 1.36 | 987.58 | 1.34 | 986.24 | 1.32 | 984.92 | 1.29 | 983.63 | 1.28 | 982.35 | 1.26 | 981.09 | 1.24 |
| | 0.27 | 0.27 | 0.27 | 0.28 | 0.28 | 0.28 | 0.28 | 0.29 | 0.29 | 0.30 | 0.31 | 0.32 | | | | | | | | | | | | |
| 30 | 995.90 | 1.51 | 994.39 | 1.48 | 992.91 | 1.45 | 991.46 | 1.41 | 990.05 | 1.39 | 988.66 | 1.37 | 987.29 | 1.34 | 985.95 | 1.32 | 984.63 | 1.30 | 983.33 | 1.29 | 982.04 | 1.27 | 980.77 | 1.25 |
| | 0.29 | 0.29 | 0.29 | 0.29 | 0.30 | 0.30 | 0.30 | 0.31 | 0.31 | 0.31 | 0.32 | 0.32 | 0.32 | | | | | | | | | | | |
| 31 | 995.61 | 1.51 | 994.10 | 1.48 | 992.62 | 1.45 | 991.17 | 1.42 | 989.75 | 1.39 | 988.36 | 1.37 | 986.99 | 1.35 | 985.64 | 1.33 | 984.31 | 1.30 | 983.01 | 1.29 | 981.72 | 1.27 | 980.45 | 1.26 |
| | 0.29 | 0.29 | 0.29 | 0.29 | 0.30 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.32 | 0.33 | 0.34 | | | | | | | | | | | |
| 32 | 995.32 | 1.51 | 993.81 | 1.48 | 992.33 | 1.45 | 990.88 | 1.42 | 989.45 | 1.40 | 988.05 | 1.37 | 986.68 | 1.35 | 985.33 | 1.33 | 984.00 | 1.31 | 982.69 | 1.30 | 981.39 | 1.28 | 980.11 | 1.26 |
| | 0.30 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.32 | 0.33 | 0.33 | 0.33 | 0.34 | 0.34 | | | | | | | | | | | |
| 33 | 995.02 | 1.52 | 993.50 | 1.48 | 992.02 | 1.45 | 990.57 | 1.43 | 989.14 | 1.40 | 987.74 | 1.37 | 986.37 | 1.36 | 985.01 | 1.34 | 983.67 | 1.31 | 982.36 | 1.31 | 981.05 | 1.28 | 979.77 | 1.27 |
| | 0.30 | 0.31 | 0.31 | 0.31 | 0.31 | 0.32 | 0.33 | 0.33 | 0.33 | 0.33 | 0.34 | 0.34 | 0.35 | | | | | | | | | | | |
| 34 | 994.72 | 1.53 | 993.19 | 1.48 | 991.71 | 1.45 | 990.26 | 1.43 | 988.83 | 1.41 | 987.42 | 1.38 | 986.04 | 1.36 | 984.68 | 1.34 | 983.34 | 1.32 | 982.02 | 1.31 | 980.71 | 1.29 | 979.42 | 1.28 |
| | 0.32 | 0.32 | 0.32 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.34 | 0.34 | 0.35 | | | | | | | | | | | |
| 35 | 994.40 | 1.53 | 992.87 | 1.48 | 991.39 | 1.46 | 989.93 | 1.43 | 988.50 | 1.41 | 987.09 | 1.38 | 985.71 | 1.36 | 984.35 | 1.34 | 983.01 | 1.33 | 981.68 | 1.31 | 980.37 | 1.30 | 979.07 | 1.29 |
| | 0.32 | 0.32 | 0.33 | 0.33 | 0.33 | 0.33 | 0.34 | 0.34 | 0.35 | 0.35 | 0.35 | 0.36 | 0.37 | | | | | | | | | | | |
| 36 | 994.08 | 1.53 | 992.55 | 1.49 | 991.06 | 1.46 | 989.60 | 1.43 | 988.17 | 1.41 | 986.76 | 1.39 | 985.37 | 1.36 | 984.01 | 1.35 | 982.66 | 1.33 | 981.33 | 1.32 | 980.01 | 1.31 | 978.70 | 1.29 |
| | 0.33 | 0.34 | 0.34 | 0.34 | 0.35 | 0.35 | 0.35 | 0.35 | 0.36 | 0.36 | 0.36 | 0.37 | 0.37 | | | | | | | | | | | |
| 37 | 993.75 | 1.54 | 992.21 | 1.49 | 990.72 | 1.46 | 989.26 | 1.44 | 987.82 | 1.41 | 986.41 | 1.39 | 985.02 | 1.37 | 983.65 | 1.35 | 982.30 | 1.33 | 980.97 | 1.32 | 979.65 | 1.32 | 978.33 | 1.30 |
| | 0.34 | 0.34 | 0.35 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.37 | 0.38 | 0.38 | 0.38 | 0.38 | | | | | | | | | | | |
| 38 | 993.41 | 1.54 | 991.87 | 1.50 | 990.37 | 1.47 | 988.90 | 1.44 | 987.46 | 1.41 | 986.05 | 1.39 | 984.66 | 1.37 | 983.29 | 1.36 | 981.93 | 1.34 | 980.59 | 1.32 | 979.27 | 1.32 | 977.95 | 1.31 |
| | 0.35 | 0.35 | 0.36 | 0.36 | 0.36 | 0.37 | 0.37 | 0.37 | 0.37 | 0.38 | 0.38 | 0.39 | 0.39 | | | | | | | | | | | |
| 39 | 993.06 | 1.54 | 991.52 | 1.51 | 990.01 | 1.47 | 988.54 | 1.44 | 987.10 | 1.41 | 985.68 | 1.39 | 984.29 | 1.37 | 982.92 | 1.36 | 981.56 | 1.34 | 980.22 | 1.33 | 978.89 | 1.33 | 977.56 | 1.31 |
| | 0.35 | 0.36 | 0.36 | 0.37 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.39 | 0.39 | 0.39 | | | | | | | | | | | |
| 40 | 992.71 | 1.55 | 991.16 | 1.51 | 989.65 | 1.48 | 988.17 | 1.45 | 986.72 | 1.42 | 985.30 | 1.39 | 983.91 | 1.37 | 982.54 | 1.36 | 981.18 | 1.35 | 979.83 | 1.33 | 978.50 | 1.33 | 977.17 | 1.32 |

TABLE III (continued) International alcoholic strength in 20°C

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

COMPENDIUM OF INTERNATIONAL ANALYSIS OF METHODS-OIV
Alcoholic strength by volume

Table of apparent densities of ethanol-water mixtures – Ordinary glass apparatus Densities at $t^{\circ}\text{C}$ corrected for air buoyancy

| t° | Alcoholic strength in % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|-------------------------|-------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | | | | | | | | | | | | |
| 0 | 986.63 | 1.00 | 985.63 | 0.96 | 984.67 | 0.92 | 983.75 | 0.87 | 982.88 | 0.84 | 982.04 | 0.81 | 981.23 | 0.77 | 980.46 | 0.75 | 979.71 | 0.73 | 978.98 | 0.72 | 978.26 | 0.70 | 977.56 | 0.70 | | | | | | | | | | | | |
| 1 | -0.03 | -0.02 | -0.01 | 0.00 | 0.02 | 0.04 | 0.05 | 0.07 | 0.09 | 0.11 | 0.13 | 0.15 | 986.66 | 1.01 | 985.65 | 0.97 | 984.68 | 0.93 | 983.75 | 0.89 | 982.86 | 0.86 | 982.00 | 0.82 | 981.18 | 0.79 | 980.39 | 0.77 | 979.62 | 0.75 | 978.87 | 0.74 | 978.13 | 0.72 | 977.41 | 0.72 |
| 2 | -0.02 | -0.01 | 0.00 | 0.01 | 0.03 | 0.04 | 0.06 | 0.08 | 0.10 | 0.12 | 0.14 | 0.17 | 986.68 | 1.02 | 985.66 | 0.98 | 984.68 | 0.94 | 983.74 | 0.91 | 982.83 | 0.87 | 981.96 | 0.84 | 981.12 | 0.81 | 980.31 | 0.79 | 979.52 | 0.77 | 978.75 | 0.76 | 977.99 | 0.75 | 977.24 | 0.74 |
| 3 | 0.00 | 0.01 | 0.02 | 0.04 | 0.05 | 0.06 | 0.08 | 0.10 | 0.12 | 0.14 | 0.16 | 0.18 | 986.68 | 1.03 | 985.65 | 0.99 | 984.66 | 0.96 | 983.70 | 0.92 | 982.78 | 0.88 | 981.90 | 0.86 | 981.04 | 0.83 | 980.21 | 0.81 | 979.40 | 0.79 | 978.61 | 0.78 | 977.83 | 0.77 | 977.06 | 0.76 |
| 4 | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.07 | 0.08 | 0.10 | 0.12 | 0.14 | 0.16 | 0.18 | 986.67 | 1.04 | 985.63 | 1.00 | 984.63 | 0.97 | 983.66 | 0.93 | 982.73 | 0.90 | 981.83 | 0.87 | 980.96 | 0.85 | 980.11 | 0.83 | 979.28 | 0.81 | 978.47 | 0.80 | 977.67 | 0.79 | 976.88 | 0.79 |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| | 0.02 | 0.03 | 0.05 | 0.06 | 0.08 | 0.09 | 0.11 | 0.13 | 0.14 | 0.16 | 0.18 | 0.20 | | | | | | | | | | | | |
| 5 | 986.65 | 1.05 | 985.60 | 1.02 | 984.58 | 0.98 | 983.60 | 0.95 | 982.65 | 0.91 | 981.74 | 0.89 | 980.85 | 0.87 | 979.98 | 0.84 | 979.11 | 0.83 | 978.31 | 0.82 | 977.49 | 0.81 | 976.68 | 0.81 |
| | 0.04 | 0.06 | 0.06 | 0.07 | 0.08 | 0.10 | 0.11 | 0.13 | 0.15 | 0.17 | 0.19 | 0.21 | | | | | | | | | | | | |
| 6 | 986.61 | 1.07 | 985.54 | 1.02 | 984.52 | 0.99 | 983.53 | 0.96 | 982.57 | 0.93 | 981.64 | 0.90 | 980.74 | 0.89 | 979.85 | 0.86 | 978.99 | 0.85 | 978.14 | 0.84 | 977.30 | 0.83 | 976.47 | 0.83 |
| | 0.05 | 0.06 | 0.08 | 0.09 | 0.10 | 0.12 | 0.14 | 0.15 | 0.17 | 0.19 | 0.20 | 0.22 | | | | | | | | | | | | |
| 7 | 986.56 | 1.08 | 985.48 | 1.04 | 994.44 | 1.00 | 983.44 | 0.97 | 982.47 | 0.95 | 981.52 | 0.92 | 980.60 | 0.90 | 979.70 | 0.88 | 978.82 | 0.87 | 977.95 | 0.85 | 977.10 | 0.85 | 976.25 | 0.85 |
| | 0.07 | 0.08 | 0.09 | 0.10 | 0.11 | 0.12 | 0.14 | 0.16 | 0.18 | 0.19 | 0.21 | 0.23 | | | | | | | | | | | | |
| 8 | 986.49 | 1.09 | 985.40 | 1.05 | 984.35 | 1.01 | 983.34 | 0.98 | 982.36 | 0.96 | 981.40 | 0.94 | 980.46 | 0.92 | 979.54 | 0.90 | 978.64 | 0.88 | 977.76 | 0.87 | 976.89 | 0.87 | 976.02 | 0.97 |
| | 0.08 | 0.08 | 0.09 | 0.11 | 0.13 | 0.14 | 0.15 | 0.16 | 0.18 | 0.20 | 0.22 | 0.24 | | | | | | | | | | | | |
| 9 | 986.41 | 1.09 | 985.32 | 1.06 | 984.26 | 1.03 | 983.23 | 1.00 | 982.23 | 0.97 | 981.26 | 0.95 | 980.31 | 0.93 | 979.38 | 0.92 | 978.48 | 0.90 | 977.56 | 0.89 | 976.67 | 0.89 | 975.78 | 0.89 |
| | 0.10 | 0.11 | 0.12 | 0.13 | 0.14 | 0.16 | 0.17 | 0.18 | 0.19 | 0.21 | 0.23 | 0.25 | | | | | | | | | | | | |
| 10 | 986.31 | 1.10 | 985.21 | 1.07 | 984.14 | 1.04 | 983.10 | 1.01 | 982.09 | 0.99 | 981.10 | 0.96 | 980.14 | 0.94 | 979.20 | 0.93 | 918.27 | 0.92 | 977.35 | 0.91 | 976.44 | 0.91 | 975.53 | 0.91 |
| | 0.10 | 0.11 | 0.12 | 0.13 | 0.15 | 0.16 | 0.17 | 0.19 | 0.21 | 0.23 | 0.25 | 0.27 | | | | | | | | | | | | |
| 11 | 986.21 | 1.11 | 985.10 | 1.08 | 984.02 | 1.05 | 982.97 | 1.03 | 981.94 | 1.00 | 980.94 | 0.97 | 979.97 | 0.96 | 979.01 | 0.95 | 978.06 | 0.94 | 977.12 | 0.93 | 976.19 | 0.93 | 975.26 | 0.92 |
| | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.19 | 0.21 | 0.22 | 0.24 | 0.26 | 0.27 | | | | | | | | | | | | |
| 12 | 986.09 | 1.12 | 984.97 | 1.09 | 983.88 | 1.06 | 982.82 | 1.04 | 981.78 | 1.01 | 980.77 | 0.99 | 979.78 | 0.98 | 978.80 | 0.96 | 977.84 | 0.96 | 976.88 | 0.95 | 975.93 | 0.94 | 974.99 | 0.94 |
| | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.19 | 0.20 | 0.21 | 0.23 | 0.24 | 0.26 | 0.28 | | | | | | | | | | | | |
| 13 | 985.96 | 1.13 | 984.83 | 1.10 | 983.73 | 1.07 | 982.66 | 1.05 | 981.61 | 1.03 | 980.58 | 1.00 | 979.58 | 0.99 | 978.59 | 0.98 | 977.61 | 0.97 | 976.64 | 0.97 | 975.67 | 0.96 | 974.71 | 0.96 |
| | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.22 | 0.23 | 0.24 | 0.26 | 0.27 | 0.29 | | | | | | | | | | | | |
| 14 | 985.81 | 1.14 | 984.67 | 1.11 | 983.56 | 1.08 | 982.48 | 1.06 | 981.42 | 1.04 | 980.38 | 1.02 | 979.36 | 1.00 | 978.36 | 0.99 | 977.37 | 0.99 | 976.38 | 0.98 | 975.40 | 0.98 | 974.42 | 0.98 |
| | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.22 | 0.24 | 0.26 | 0.27 | 0.28 | 0.30 | | | | | | | | | | | | |
| 15 | 985.66 | 1.15 | 984.51 | 1.12 | 983.39 | 1.09 | 982.30 | 1.07 | 981.23 | 1.05 | 980.18 | 1.04 | 979.14 | 1.02 | 978.12 | 1.01 | 977.11 | 1.00 | 976.11 | 0.99 | 975.12 | 1.00 | 974.12 | 1.00 |
| | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.22 | 0.23 | 0.25 | 0.26 | 0.28 | 0.30 | 0.31 | | | | | | | | | | | | |
| 16 | 985.49 | 1.16 | 984.33 | 1.13 | 983.20 | 1.10 | 982.10 | 1.08 | 981.02 | 1.06 | 979.96 | 1.05 | 978.91 | 1.04 | 977.87 | 1.02 | 976.85 | 1.02 | 975.83 | 1.01 | 974.82 | 1.01 | 973.81 | 1.02 |
| | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.23 | 0.24 | 0.25 | 0.27 | 0.29 | 0.30 | 0.31 | | | | | | | | | | | | |
| 17 | 985.32 | 1.17 | 984.15 | 1.14 | 983.01 | 1.11 | 981.90 | 1.09 | 980.81 | 1.08 | 979.73 | 1.06 | 978.67 | 1.05 | 977.62 | 1.04 | 976.58 | 1.04 | 975.54 | 1.02 | 974.52 | 1.02 | 973.95 | 1.04 |
| | 0.19 | 0.19 | 0.20 | 0.22 | 0.24 | 0.25 | 0.26 | 0.27 | 0.28 | 0.29 | 0.31 | 0.33 | | | | | | | | | | | | |
| 18 | 985.13 | 1.17 | 983.96 | 1.15 | 982.81 | 1.13 | 981.68 | 1.11 | 980.57 | 1.09 | 979.48 | 1.07 | 978.41 | 1.06 | 977.35 | 1.05 | 976.30 | 1.05 | 975.25 | 1.04 | 974.21 | 1.04 | 973.17 | 1.05 |
| | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 | 0.25 | 0.26 | 0.27 | 0.29 | 0.30 | 0.32 | 0.34 | | | | | | | | | | | | |
| 19 | 984.93 | 1.18 | 983.75 | 1.16 | 982.59 | 1.14 | 981.45 | 1.12 | 980.33 | 1.10 | 979.23 | 1.08 | 978.15 | 1.07 | 977.08 | 1.07 | 976.01 | 1.06 | 974.94 | 1.05 | 973.89 | 1.06 | 972.83 | 1.06 |
| | 0.22 | 0.23 | 0.24 | 0.24 | 0.25 | 0.26 | 0.28 | 0.29 | 0.30 | 0.31 | 0.33 | 0.35 | | | | | | | | | | | | |
| 20 | 984.71 | 1.19 | 983.52 | 1.17 | 982.35 | 1.14 | 981.21 | 1.13 | 980.08 | 1.11 | 978.97 | 1.10 | 977.87 | 1.08 | 976.79 | 1.08 | 975.71 | 1.08 | 974.63 | 1.07 | 973.56 | 1.08 | 972.48 | 1.08 |

TABLE III (continued) International alcoholic strength in 20°C

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

COMPENDIUM OF INTERNATIONAL ANALYSIS OF METHODS-OIV
Alcoholic strength by volume

Table of apparent densities of ethanol-water mixtures – Ordinary glass apparatus Densities at $t^{\circ}\text{C}$ corrected for air buoyancy

| Alcoholic strength in % | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| $t^{\circ}\text{C}$ | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
| 20 | 984.71 | 1.19 | 983.52 | 1.17 | 982.35 | 1.14 | 981.21 | 1.13 | 980.08 | 1.11 | 978.97 | 1.10 | 977.87 | 1.08 | 976.79 | 1.08 | 975.71 | 1.08 | 974.63 | 1.07 | 973.56 | 1.08 | 972.48 | 1.08 |
| | 0.23 | | 0.23 | | 0.23 | | 0.25 | | 0.26 | | 0.28 | | 0.29 | | 0.31 | | 0.32 | | 0.33 | | 0.35 | | 0.36 | |
| 21 | 984.48 | 1.19 | 983.29 | 1.17 | 982.12 | 1.16 | 980.96 | 1.14 | 979.82 | 1.13 | 978.69 | 1.11 | 977.58 | 1.10 | 976.48 | 1.09 | 975.39 | 1.09 | 974.30 | 1.09 | 973.21 | 1.09 | 972.12 | 1.09 |
| | 0.23 | | 0.24 | | 0.25 | | 0.26 | | 0.27 | | 0.28 | | 0.29 | | 0.31 | | 0.32 | | 0.33 | | 0.35 | | 0.36 | |
| 22 | 984.25 | 1.20 | 983.05 | 1.18 | 981.97 | 1.17 | 980.70 | 1.15 | 979.55 | 1.14 | 978.41 | 1.12 | 977.29 | 1.12 | 976.17 | 1.10 | 975.07 | 1.10 | 973.97 | 1.10 | 972.86 | 1.10 | 971.76 | 1.11 |
| | 0.24 | | 0.25 | | 0.26 | | 0.27 | | 0.28 | | 0.29 | | 0.30 | | 0.31 | | 0.33 | | 0.34 | | 0.35 | | 0.37 | |
| 23 | 984.01 | 1.21 | 982.80 | 1.19 | 981.61 | 1.18 | 980.43 | 1.16 | 979.27 | 1.15 | 978.12 | 1.13 | 976.99 | 1.13 | 975.86 | 1.12 | 974.74 | 1.11 | 973.63 | 1.12 | 972.51 | 1.12 | 971.39 | 1.13 |
| | 0.25 | | 0.26 | | 0.27 | | 0.28 | | 0.29 | | 0.30 | | 0.31 | | 0.32 | | 0.33 | | 0.35 | | 0.36 | | 0.38 | |
| 24 | 983.76 | 1.22 | 982.54 | 1.20 | 981.34 | 1.19 | 980.15 | 1.17 | 978.98 | 1.16 | 977.82 | 1.14 | 976.68 | 1.14 | 975.54 | 1.13 | 974.41 | 1.13 | 973.28 | 1.13 | 972.15 | 1.14 | 971.01 | 1.14 |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| | 0.26 | 0.27 | 0.28 | 0.29 | 0.30 | 0.31 | 0.32 | 0.33 | 0.35 | 0.36 | 0.38 | 0.39 | |
| 25 | 983.50 | 982.27 | 981.06 | 979.86 | 978.68 | 977.51 | 976.36 | 975.21 | 974.06 | 972.92 | 971.77 | 970.62 | |
| | 0.27 | 0.28 | 0.29 | 0.29 | 0.30 | 0.31 | 0.33 | 0.34 | 0.35 | 0.37 | 0.38 | 0.39 | |
| 26 | 983.23 | 981.99 | 980.77 | 979.57 | 978.38 | 977.20 | 976.03 | 974.87 | 973.71 | 972.55 | 971.39 | 970.23 | |
| | 0.29 | 0.29 | 0.30 | 0.31 | 0.32 | 0.33 | 0.34 | 0.36 | 0.37 | 0.38 | 0.39 | 0.41 | |
| 27 | 982.94 | 981.70 | 980.47 | 979.26 | 978.06 | 976.87 | 975.69 | 974.51 | 973.34 | 972.17 | 971.00 | 969.82 | |
| | 0.29 | 0.30 | 0.30 | 0.31 | 0.32 | 0.33 | 0.35 | 0.36 | 0.38 | 0.39 | 0.40 | 0.41 | |
| 28 | 982.65 | 981.40 | 980.17 | 978.95 | 977.74 | 976.54 | 975.34 | 974.15 | 972.96 | 971.78 | 970.60 | 969.41 | |
| | 0.30 | 0.31 | 0.32 | 0.33 | 0.34 | 0.35 | 0.36 | 0.37 | 0.38 | 0.39 | 0.40 | 0.42 | |
| 29 | 982.35 | 981.09 | 979.85 | 978.62 | 977.40 | 976.19 | 974.98 | 973.78 | 972.58 | 971.39 | 970.20 | 968.99 | |
| | 0.31 | 0.32 | 0.33 | 0.34 | 0.35 | 0.36 | 0.37 | 0.38 | 0.38 | 0.40 | 0.42 | 0.43 | |
| 30 | 982.04 | 980.77 | 979.52 | 978.28 | 977.05 | 975.83 | 974.62 | 973.41 | 972.20 | 970.99 | 969.78 | 968.56 | |
| | 0.32 | 0.32 | 0.33 | 0.34 | 0.35 | 0.36 | 0.37 | 0.38 | 0.39 | 0.40 | 0.42 | 0.43 | |
| 31 | 981.72 | 980.45 | 979.19 | 977.94 | 976.70 | 975.47 | 974.25 | 973.03 | 971.81 | 970.59 | 969.36 | 968.13 | |
| | 0.33 | 0.34 | 0.34 | 0.35 | 0.36 | 0.37 | 0.38 | 0.39 | 0.40 | 0.42 | 0.43 | 0.45 | |
| 32 | 981.39 | 980.11 | 978.95 | 977.59 | 976.34 | 975.10 | 973.87 | 972.64 | 971.41 | 970.17 | 968.93 | 967.68 | |
| | 0.34 | 0.34 | 0.35 | 0.35 | 0.36 | 0.37 | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.45 | |
| 33 | 981.05 | 979.77 | 978.50 | 977.24 | 975.78 | 974.73 | 973.48 | 972.24 | 971.00 | 969.75 | 968.50 | 967.23 | |
| | 0.34 | 0.35 | 0.36 | 0.37 | 0.38 | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.45 | 0.45 | |
| 34 | 980.71 | 979.42 | 978.14 | 976.97 | 975.60 | 974.34 | 973.08 | 971.83 | 970.58 | 969.32 | 968.05 | 966.78 | |
| | 0.34 | 0.35 | 0.36 | 0.37 | 0.38 | 0.39 | 0.40 | 0.41 | 0.43 | 0.44 | 0.45 | 0.47 | |
| 35 | 980.37 | 979.07 | 977.78 | 976.50 | 975.22 | 973.95 | 972.68 | 971.42 | 970.15 | 968.88 | 967.60 | 966.31 | |
| | 0.36 | 0.37 | 0.37 | 0.38 | 0.38 | 0.39 | 0.40 | 0.42 | 0.43 | 0.44 | 0.45 | 0.47 | |
| 36 | 980.01 | 978.70 | 977.41 | 976.12 | 974.84 | 973.56 | 972.28 | 971.00 | 969.72 | 968.44 | 967.15 | 965.84 | |
| | 0.36 | 0.37 | 0.38 | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.44 | 0.45 | 0.46 | 0.47 | |
| 37 | 979.65 | 978.33 | 977.03 | 975.73 | 974.44 | 973.15 | 971.86 | 970.57 | 969.28 | 967.99 | 966.69 | 965.37 | |
| | 0.38 | 0.38 | 0.39 | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.44 | 0.46 | 0.47 | 0.48 | |
| 38 | 979.27 | 977.95 | 976.64 | 975.34 | 974.04 | 972.74 | 971.44 | 970.14 | 968.84 | 967.53 | 966.22 | 964.89 | |
| | 0.38 | 0.39 | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.44 | 0.45 | 0.46 | 0.48 | 0.49 | |
| 39 | 978.89 | 977.56 | 976.25 | 974.94 | 973.63 | 972.32 | 971.01 | 969.70 | 968.39 | 967.07 | 965.74 | 964.40 | |
| | 0.39 | 0.39 | 0.40 | 0.41 | 0.42 | 0.42 | 0.43 | 0.45 | 0.47 | 0.48 | 0.49 | 0.50 | |
| 40 | 978.50 | 977.17 | 975.85 | 974.53 | 973.21 | 971.90 | 970.58 | 969.25 | 967.92 | 966.59 | 965.25 | 963.90 | |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

TABLE III (continued) International alcoholic strength in 20°C

COMPENDIUM OF INTERNATIONAL ANALYSIS OF METHODS-OIV
Alcoholic strength by volume

Table of apparent densities of ethanol-water mixtures – Ordinary glass apparatus Densities at $t^{\circ}\text{C}$ corrected for air buoyancy

| | | Alcoholic strength in % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|--------|-------------------------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| t° | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 978.26 | 0.70 | 977.56 | 0.70 | 976.86 | 0.69 | 976.17 | 0.70 | 975.47 | 0.72 | 974.75 | 0.72 | 974.03 | 0.74 | 973.29 | 0.77 | 972.52 | 0.80 | 971.72 | 0.83 | 970.89 | 0.87 | 970.02 | 0.90 | | | | | | | | | | | | |
| 1 | 0.13 | 0.15 | 0.17 | 0.20 | 0.22 | 0.24 | 0.27 | 0.30 | 0.32 | 0.35 | 0.37 | 0.39 | 978.13 | 0.72 | 977.41 | 0.72 | 976.69 | 0.72 | 975.97 | 0.72 | 975.25 | 0.74 | 974.51 | 0.75 | 973.76 | 0.77 | 972.99 | 0.79 | 972.20 | 0.83 | 971.37 | 0.85 | 970.52 | 0.89 | 969.63 | 0.93 |
| 2 | 0.14 | 0.17 | 0.19 | 0.21 | 0.24 | 0.26 | 0.29 | 0.31 | 0.34 | 0.36 | 0.38 | 0.41 | 977.99 | 0.75 | 977.24 | 0.74 | 976.50 | 0.74 | 975.76 | 0.75 | 975.01 | 0.76 | 974.25 | 0.78 | 973.47 | 0.79 | 972.68 | 0.82 | 971.86 | 0.85 | 971.01 | 0.87 | 970.14 | 0.92 | 969.22 | 0.96 |
| 3 | 0.16 | 0.18 | 0.20 | 0.23 | 0.25 | 0.27 | 0.29 | 0.32 | 0.34 | 0.36 | 0.38 | 0.40 | 977.83 | 0.77 | 977.06 | 0.76 | 976.30 | 0.77 | 975.53 | 0.77 | 974.76 | 0.78 | 973.98 | 0.80 | 973.18 | 0.82 | 972.36 | 0.84 | 971.52 | 0.87 | 970.65 | 0.89 | 969.76 | 0.94 | 968.82 | 0.98 |
| | 0.16 | 0.18 | 0.21 | 0.23 | 0.25 | 0.28 | 0.30 | 0.32 | 0.34 | 0.36 | 0.39 | 0.42 | | | | | | | | | | | | | | | | | | | | | | | | |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 4 | 977.67 | 0.79 | 976.98 | 0.79 | 976.09 | 0.79 | 975.30 | 0.79 | 974.51 | 0.81 | 973.70 | 0.82 | 972.88 | 0.84 | 972.04 | 0.86 | 971.18 | 0.89 | 970.29 | 0.92 | 969.37 | 0.96 | 968.40 | 1.00 |
| | 0.18 | | 0.20 | | 0.22 | | 0.24 | | 0.26 | | 0.28 | | 0.30 | | 0.33 | | 0.35 | | 0.38 | | 0.40 | | 0.41 | |
| 5 | 977.49 | 0.81 | 976.68 | 0.81 | 975.87 | 0.81 | 975.06 | 0.81 | 974.25 | 0.83 | 973.42 | 0.84 | 972.58 | 0.86 | 971.71 | 0.88 | 970.83 | 0.92 | 969.91 | 0.94 | 968.97 | 0.98 | 967.99 | 1.02 |
| | 0.19 | | 0.21 | | 0.23 | | 0.25 | | 0.27 | | 0.30 | | 0.33 | | 0.34 | | 0.37 | | 0.39 | | 0.41 | | 0.43 | |
| 6 | 977.30 | 0.83 | 976.47 | 0.83 | 975.64 | 0.83 | 974.81 | 0.84 | 973.97 | 0.85 | 973.12 | 0.87 | 972.25 | 0.88 | 971.37 | 0.91 | 970.46 | 0.94 | 969.52 | 0.96 | 968.56 | 1.00 | 967.56 | 1.04 |
| | 0.20 | | 0.22 | | 0.24 | | 0.26 | | 0.28 | | 0.30 | | 0.32 | | 0.35 | | 0.37 | | 0.39 | | 0.41 | | 0.43 | |
| 7 | 976.10 | 0.85 | 976.25 | 0.85 | 975.40 | 0.85 | 974.55 | 0.96 | 973.69 | 0.87 | 972.82 | 0.89 | 971.93 | 0.91 | 971.02 | 0.93 | 970.09 | 0.96 | 969.13 | 0.98 | 968.15 | 1.02 | 967.13 | 1.06 |
| | 0.21 | | 0.23 | | 0.25 | | 0.27 | | 0.29 | | 0.31 | | 0.33 | | 0.35 | | 0.37 | | 0.39 | | 0.42 | | 0.44 | |
| 8 | 976.89 | 0.87 | 976.02 | 0.87 | 975.15 | 0.87 | 974.28 | 0.88 | 973.40 | 0.89 | 972.51 | 0.91 | 971.60 | 0.93 | 970.67 | 0.95 | 969.72 | 0.98 | 968.74 | 1.01 | 967.73 | 1.04 | 966.69 | 1.08 |
| | 0.22 | | 0.24 | | 0.26 | | 0.28 | | 0.30 | | 0.32 | | 0.34 | | 0.36 | | 0.39 | | 0.41 | | 0.43 | | 0.45 | |
| 9 | 976.67 | 0.89 | 975.78 | 0.89 | 974.89 | 0.89 | 974.00 | 0.90 | 973.10 | 0.91 | 972.19 | 0.93 | 971.26 | 0.95 | 970.31 | 0.98 | 969.33 | 1.00 | 968.33 | 1.03 | 967.30 | 1.06 | 966.24 | 1.09 |
| | 0.23 | | 0.25 | | 0.27 | | 0.29 | | 0.31 | | 0.33 | | 0.35 | | 0.37 | | 0.39 | | 0.41 | | 0.43 | | 0.45 | |
| 10 | 976.44 | 0.91 | 975.53 | 0.91 | 974.62 | 0.91 | 973.71 | 0.92 | 972.79 | 0.93 | 971.86 | 0.95 | 970.91 | 0.97 | 969.94 | 1.00 | 968.94 | 1.02 | 967.92 | 1.05 | 966.87 | 1.08 | 965.79 | 1.11 |
| | 0.25 | | 0.27 | | 0.28 | | 0.30 | | 0.32 | | 0.34 | | 0.36 | | 0.38 | | 0.40 | | 0.42 | | 0.44 | | 0.45 | |
| 11 | 976.11 | 0.93 | 975.26 | 0.92 | 974.34 | 0.93 | 973.41 | 0.94 | 972.47 | 0.95 | 971.52 | 0.97 | 970.55 | 0.99 | 969.56 | 1.02 | 968.54 | 1.04 | 967.50 | 1.07 | 966.43 | 1.09 | 965.34 | 1.13 |
| | 0.26 | | 0.27 | | 0.29 | | 0.31 | | 0.33 | | 0.35 | | 0.37 | | 0.39 | | 0.40 | | 0.42 | | 0.44 | | 0.46 | |
| 12 | 975.93 | 0.94 | 974.99 | 0.94 | 974.05 | 0.95 | 973.10 | 0.96 | 972.14 | 0.97 | 971.17 | 0.99 | 970.18 | 1.01 | 969.17 | 1.03 | 968.14 | 1.06 | 967.08 | 1.09 | 965.99 | 1.11 | 964.88 | 1.15 |
| | 0.26 | | 0.28 | | 0.30 | | 0.32 | | 0.34 | | 0.36 | | 0.38 | | 0.39 | | 0.41 | | 0.43 | | 0.45 | | 0.47 | |
| 13 | 975.67 | 0.96 | 974.71 | 0.96 | 973.75 | 0.97 | 972.78 | 0.98 | 971.80 | 0.99 | 970.81 | 1.01 | 969.80 | 1.02 | 968.78 | 1.05 | 967.73 | 1.08 | 966.65 | 1.11 | 965.54 | 1.13 | 964.41 | 1.17 |
| | 0.27 | | 0.29 | | 0.31 | | 0.33 | | 0.35 | | 0.37 | | 0.38 | | 0.40 | | 0.42 | | 0.44 | | 0.45 | | 0.47 | |
| 14 | 975.40 | 0.98 | 974.42 | 0.98 | 973.44 | 0.99 | 972.45 | 1.00 | 971.45 | 1.01 | 970.44 | 1.02 | 969.42 | 1.04 | 968.38 | 1.07 | 967.31 | 1.10 | 966.21 | 1.12 | 965.09 | 1.15 | 963.94 | 1.19 |
| | 0.28 | | 0.30 | | 0.32 | | 0.33 | | 0.35 | | 0.37 | | 0.39 | | 0.41 | | 0.43 | | 0.45 | | 0.47 | | 0.49 | |
| 15 | 975.12 | 1.00 | 974.12 | 1.00 | 973.12 | 1.00 | 972.12 | 1.02 | 971.10 | 1.03 | 970.07 | 1.04 | 969.03 | 1.06 | 967.97 | 1.09 | 966.88 | 1.12 | 965.76 | 1.14 | 964.62 | 1.17 | 963.45 | 1.20 |
| | 0.30 | | 0.31 | | 0.33 | | 0.35 | | 0.36 | | 0.38 | | 0.40 | | 0.42 | | 0.44 | | 0.45 | | 0.47 | | 0.49 | |
| 16 | 974.82 | 1.01 | 973.81 | 1.02 | 972.79 | 1.02 | 971.77 | 1.03 | 970.74 | 1.05 | 969.69 | 1.06 | 968.63 | 1.08 | 967.55 | 1.11 | 966.44 | 1.13 | 965.31 | 1.16 | 964.15 | 1.19 | 962.96 | 1.22 |
| | 0.30 | | 0.31 | | 0.33 | | 0.35 | | 0.37 | | 0.38 | | 0.40 | | 0.42 | | 0.43 | | 0.45 | | 0.47 | | 0.49 | |
| 17 | 974.52 | 1.02 | 973.50 | 1.04 | 972.46 | 1.04 | 971.42 | 1.05 | 970.37 | 1.06 | 969.31 | 1.08 | 968.23 | 1.10 | 967.13 | 1.12 | 966.01 | 1.15 | 964.86 | 1.18 | 963.68 | 1.21 | 962.47 | 1.24 |
| | 0.31 | | 0.33 | | 0.34 | | 0.36 | | 0.38 | | 0.40 | | 0.42 | | 0.43 | | 0.45 | | 0.47 | | 0.48 | | 0.50 | |
| 18 | 974.21 | 1.04 | 973.17 | 1.05 | 972.12 | 1.06 | 971.06 | 1.07 | 969.99 | 1.08 | 968.91 | 1.10 | 967.81 | 1.11 | 966.70 | 1.14 | 965.56 | 1.17 | 964.39 | 1.19 | 963.20 | 1.23 | 961.97 | 1.26 |
| | 0.32 | | 0.34 | | 0.35 | | 0.36 | | 0.38 | | 0.40 | | 0.42 | | 0.44 | | 0.46 | | 0.47 | | 0.49 | | 0.50 | |
| 19 | 973.89 | 1.06 | 972.83 | 1.06 | 971.77 | 1.07 | 970.70 | 1.09 | 969.61 | 1.10 | 968.51 | 1.11 | 967.39 | 1.13 | 966.26 | 1.16 | 965.10 | 1.18 | 963.92 | 1.21 | 962.71 | 1.24 | 961.47 | 1.28 |
| | 0.33 | | 0.35 | | 0.37 | | 0.39 | | 0.40 | | 0.41 | | 0.42 | | 0.45 | | 0.46 | | 0.48 | | 0.51 | | 0.52 | |
| 20 | 973.56 | 1.08 | 972.48 | 1.08 | 971.40 | 1.09 | 970.31 | 1.10 | 969.21 | 1.11 | 968.10 | 1.13 | 966.97 | 1.14 | 965.81 | 1.17 | 964.64 | 1.20 | 963.44 | 1.23 | 962.21 | 1.26 | 960.95 | 1.29 |

TABLE III (continued) International alcoholic strength in 20°C

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

COMPENDIUM OF INTERNATIONAL ANALYSIS OF METHODS-OIV
Alcoholic strength by volume

Table of apparent densities of ethanol-water mixtures – Ordinary glass apparatus Densities at $t^{\circ}\text{C}$ corrected for air buoyancy

| t° | Alcoholic strength at % | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|-------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| | 20 | | 21 | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | |
| 20 | 973.56 | 1.08 | 972.48 | 1.08 | 971.40 | 1.09 | 970.31 | 1.10 | 969.21 | 1.11 | 968.10 | 1.13 | 966.97 | 1.16 | 965.81 | 1.17 | 964.64 | 1.20 | 963.44 | 1.23 | 962.21 | 1.26 | 960.95 | 1.29 |
| | 0.35 | | 0.36 | | 0.37 | | 0.39 | | 0.40 | | 0.42 | | 0.44 | | 0.45 | | 0.47 | | 0.49 | | 0.50 | | 0.52 | |
| 21 | 973.21 | 1.09 | 972.12 | 1.09 | 971.03 | 1.11 | 969.92 | 1.11 | 968.81 | 1.13 | 967.68 | 1.15 | 966.53 | 1.17 | 965.36 | 1.19 | 964.17 | 1.22 | 962.95 | 1.24 | 961.71 | 1.28 | 960.43 | 1.31 |
| | 0.35 | | 0.36 | | 0.38 | | 0.39 | | 0.41 | | 0.43 | | 0.44 | | 0.46 | | 0.48 | | 0.49 | | 0.51 | | 0.52 | |
| 22 | 972.86 | 1.10 | 971.76 | 1.11 | 970.65 | 1.12 | 969.53 | 1.13 | 968.40 | 1.15 | 967.25 | 1.16 | 966.09 | 1.19 | 964.90 | 1.21 | 963.69 | 1.23 | 962.46 | 1.26 | 961.20 | 1.29 | 959.91 | 1.32 |
| | 0.35 | | 0.37 | | 0.39 | | 0.40 | | 0.42 | | 0.43 | | 0.45 | | 0.46 | | 0.48 | | 0.50 | | 0.52 | | 0.53 | |
| 23 | 972.51 | 1.12 | 971.39 | 1.13 | 970.26 | 1.13 | 969.13 | 1.15 | 967.98 | 1.16 | 966.82 | 1.18 | 965.64 | 1.20 | 964.44 | 1.23 | 963.21 | 1.25 | 961.96 | 1.28 | 960.68 | 1.30 | 959.38 | 1.33 |
| | 0.36 | | 0.38 | | 0.39 | | 0.41 | | 0.42 | | 0.44 | | 0.46 | | 0.48 | | 0.49 | | 0.51 | | 0.53 | | 0.54 | |
| 24 | 972.15 | 1.14 | 971.01 | 1.14 | 969.87 | 1.15 | 968.72 | 1.16 | 967.56 | 1.18 | 966.38 | 1.20 | 965.18 | 1.22 | 963.96 | 1.24 | 962.72 | 1.27 | 961.45 | 1.29 | 960.16 | 1.32 | 958.84 | 1.34 |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | 0.38 | 0.39 | 0.40 | 0.42 | 0.44 | 0.45 | 0.46 | 0.48 | 0.50 | 0.51 | 0.53 | 0.54 | |
|----|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|
| 25 | 971.77 | 1.15 970.62 | 1.15 969.47 | 1.17 968.30 | 1.18 967.12 | 1.19 965.93 | 1.21 964.72 | 1.24 963.48 | 1.26 962.22 | 1.28 960.94 | 1.31 959.63 | 1.33 958.30 | 1.36 |
| | 0.38 | 0.39 | 0.41 | 0.42 | 0.44 | 0.46 | 0.48 | 0.49 | 0.50 | 0.52 | 0.53 | 0.55 | |
| 26 | 971.39 | 1.16 970.23 | 1.17 969.06 | 1.18 967.88 | 1.20 966.68 | 1.21 965.47 | 1.23 964.24 | 1.25 962.99 | 1.27 961.72 | 1.30 960.42 | 1.32 959.10 | 1.35 957.75 | 1.38 |
| | 0.39 | 0.41 | 0.42 | 0.44 | 0.45 | 0.46 | 0.48 | 0.50 | 0.51 | 0.52 | 0.53 | 0.55 | |
| 27 | 971.00 | 1.18 969.82 | 1.18 968.64 | 1.20 967.44 | 1.21 966.23 | 1.22 965.01 | 1.25 963.76 | 1.27 962.49 | 1.28 961.21 | 1.31 959.90 | 1.33 958.57 | 1.37 957.20 | 1.40 |
| | 0.40 | 0.41 | 0.43 | 0.44 | 0.46 | 0.48 | 0.49 | 0.50 | 0.52 | 0.53 | 0.55 | 0.56 | |
| 28 | 970.60 | 1.19 969.41 | 1.20 968.21 | 1.21 967.00 | 1.23 965.77 | 1.24 964.53 | 1.26 963.27 | 1.28 961.99 | 1.30 960.69 | 1.32 959.37 | 1.35 958.02 | 1.38 956.64 | 1.41 |
| | 0.40 | 0.42 | 0.43 | 0.45 | 0.46 | 0.48 | 0.49 | 0.50 | 0.52 | 0.54 | 0.55 | 0.56 | |
| 29 | 970.20 | 1.21 968.99 | 1.21 967.78 | 1.23 966.55 | 1.24 965.31 | 1.26 964.05 | 1.27 962.78 | 1.29 961.49 | 1.32 960.17 | 1.34 958.83 | 1.36 957.47 | 1.39 956.08 | 1.43 |
| | 0.42 | 0.43 | 0.45 | 0.46 | 0.47 | 0.48 | 0.50 | 0.52 | 0.53 | 0.54 | 0.56 | 0.58 | |
| 30 | 969.78 | 1.22 968.56 | 1.23 967.33 | 1.24 966.09 | 1.25 964.84 | 1.27 963.57 | 1.29 962.28 | 1.31 960.97 | 1.33 959.64 | 1.35 958.29 | 1.38 956.91 | 1.41 955.50 | 1.44 |
| | 0.42 | 0.43 | 0.44 | 0.45 | 0.47 | 0.49 | 0.51 | 0.52 | 0.53 | 0.55 | 0.56 | 0.58 | |
| 31 | 969.36 | 1.23 968.13 | 1.24 966.89 | 1.25 965.64 | 1.27 964.37 | 1.29 963.08 | 1.31 961.77 | 1.32 960.45 | 1.34 959.11 | 1.37 957.74 | 1.39 956.35 | 1.43 954.92 | 1.45 |
| | 0.43 | 0.45 | 0.46 | 0.48 | 0.49 | 0.50 | 0.51 | 0.52 | 0.54 | 0.56 | 0.57 | 0.58 | |
| 32 | 968.93 | 1.25 967.68 | 1.25 966.43 | 1.27 965.16 | 1.28 963.88 | 1.30 962.58 | 1.32 961.26 | 1.33 959.93 | 1.36 958.57 | 1.39 957.18 | 1.40 955.78 | 1.44 954.34 | 1.47 |
| | 0.43 | 0.45 | 0.47 | 0.48 | 0.50 | 0.51 | 0.52 | 0.54 | 0.55 | 0.56 | 0.58 | 0.59 | |
| 33 | 968.50 | 1.27 967.23 | 1.27 965.96 | 1.28 964.68 | 1.30 963.38 | 1.31 962.07 | 1.33 960.74 | 1.35 959.39 | 1.37 958.02 | 1.40 956.62 | 1.42 955.20 | 1.45 953.75 | 1.48 |
| | 0.45 | 0.45 | 0.47 | 0.49 | 0.50 | 0.51 | 0.52 | 0.54 | 0.55 | 0.56 | 0.58 | 0.60 | |
| 34 | 968.05 | 1.27 966.78 | 1.29 965.49 | 1.30 964.19 | 1.31 962.88 | 1.32 961.56 | 1.34 960.22 | 1.37 958.85 | 1.38 957.47 | 1.41 956.06 | 1.44 954.62 | 1.47 953.15 | 1.49 |
| | 0.45 | 0.47 | 0.48 | 0.49 | 0.50 | 0.52 | 0.54 | 0.55 | 0.57 | 0.58 | 0.59 | 0.60 | |
| 35 | 967.60 | 1.29 996.31 | 1.30 965.01 | 1.31 963.70 | 1.32 962.38 | 1.34 961.04 | 1.36 959.68 | 1.38 958.0 | 1.40 956.90 | 1.42 955.48 | 1.45 954.03 | 1.48 952.55 | 1.50 |
| | 0.45 | 0.47 | 0.48 | 0.49 | 0.51 | 0.53 | 0.54 | | 0.57 | 0.59 | 0.60 | 0.61 | |
| 36 | 967.15 | 1.31 965.84 | 1.31 964.53 | 1.32 963.21 | 1.34 961.87 | 1.36 960.51 | 1.37 959.14 | 1.39 957.75 | 1.42 956.33 | 1.44 954.89 | 1.46 953.43 | 1.49 951.94 | 1.51 |
| | 0.46 | 0.47 | 0.48 | 0.50 | 0.52 | 0.53 | 0.55 | 0.56 | 0.57 | 0.58 | 0.60 | 0.61 | |
| 37 | 966.69 | 1.32 965.37 | 1.32 964.05 | 1.34 962.71 | 1.36 961.35 | 1.37 959.98 | 1.39 958.59 | 1.40 957.19 | 1.43 955.76 | 1.45 954.31 | 1.48 952.83 | 1.50 951.33 | 1.52 |
| | 0.47 | 0.48 | 0.50 | 0.51 | 0.52 | 0.54 | 0.55 | 0.57 | 0.58 | 0.59 | 0.60 | 0.61 | |
| 38 | 966.22 | 1.33 964.89 | 1.34 963.55 | 1.35 962.20 | 1.37 960.83 | 1.39 959.44 | 1.40 958.04 | 1.42 956.62 | 1.44 955.18 | 1.46 953.72 | 1.49 952.23 | 1.51 950.72 | 1.54 |
| | 0.48 | 0.49 | 0.51 | 0.52 | 0.53 | 0.54 | 0.56 | 0.57 | 0.58 | 0.60 | 0.61 | 0.62 | |
| 39 | 965.74 | 1.34 964.40 | 1.36 963.04 | 1.36 961.68 | 1.38 960.30 | 1.40 958.90 | 1.42 957.48 | 1.43 956.05 | 1.45 954.60 | 1.48 953.12 | 1.50 951.62 | 1.52 950.10 | 1.55 |
| | 0.49 | 0.50 | 0.51 | 0.53 | 0.54 | 0.55 | 0.56 | 0.58 | 0.60 | 0.61 | 0.62 | 0.64 | |
| 40 | 965.25 | 1.35 963.90 | 1.37 962.53 | 1.38 961.15 | 1.39 959.76 | 1.41 958.35 | 1.43 956.92 | 1.45 955.47 | 1.47 954.00 | 1.49 952.51 | 1.51 951.00 | 1.54 949.49 | 1.56 |

TABLE IV

Table giving the refractive indices of pure ethanol-water mixtures

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

and distillates at 20°C

and the corresponding alcoholic strengths at 20°C

| Refractive index at 20°C | Alcoholic strength at 20°C | | | | Refractive index at 20°C | Alcoholic strength at 20°C | | | |
|--------------------------|----------------------------|------|-------------|------|--------------------------|----------------------------|------|-------------|------|
| | Water-ethanol mixtures | | Distillates | | | Water-ethanol mixtures | | Distillates | |
| 1.33628 | 6.54 | 0.25 | 6.48 | 0.26 | 1.34222 | 16.76 | 0.23 | 16.65 | 0.23 |
| 1.33642 | 6.79 | 0.26 | 6.74 | 0.26 | 1.34236 | 16.99 | 0.23 | 16.88 | 0.24 |
| 1.33656 | 7.05 | 0.25 | 7.00 | 0.27 | 1.34250 | 17.22 | 0.22 | 17.12 | 0.22 |
| 1.33670 | 7.30 | 0.28 | 7.27 | 0.27 | 1.34264 | 17.44 | 0.24 | 17.34 | 0.22 |
| 1.33685 | 7.58 | 0.25 | 7.54 | 0.25 | 1.34278 | 17.68 | 0.21 | 17.56 | 0.22 |
| 1.33699 | 7.83 | 0.26 | 7.79 | 0.26 | 1.34291 | 17.89 | 0.23 | 17.78 | 0.23 |
| 1.33713 | 8.09 | 0.25 | 8.05 | 0.25 | 1.34305 | 18.12 | 0.24 | 18.01 | 0.22 |
| 1.33727 | 8.34 | 0.28 | 8.30 | 0.26 | 1.34319 | 18.36 | 0.23 | 18.23 | 0.23 |
| 1.33742 | 8.62 | 0.25 | 8.56 | 0.25 | 1.34333 | 18.59 | 0.23 | 18.46 | 0.24 |
| 1.33756 | 8.87 | 0.25 | 8.81 | 0.25 | 1.34347 | 18.82 | 0.23 | 18.70 | 0.22 |
| 1.33770 | 9.12 | 0.24 | 9.06 | 0.24 | 1.34361 | 19.05 | 0.23 | 18.92 | 0.25 |
| 1.33784 | 9.36 | 0.27 | 9.30 | 0.25 | 1.34375 | 19.28 | 0.23 | 19.17 | 0.23 |
| 1.33799 | 9.63 | 0.24 | 9.55 | 0.26 | 1.34389 | 19.51 | 0.24 | 19.40 | 0.22 |
| 1.33813 | 9.87 | 0.25 | 9.81 | 0.24 | 1.34403 | 19.75 | 0.23 | 19.62 | 0.24 |
| 1.33827 | 10.12 | 0.23 | 10.05 | 0.24 | 1.34417 | 19.98 | 0.24 | 19.86 | 0.23 |
| 1.33841 | 10.35 | 0.26 | 10.29 | 0.25 | 1.34431 | 20.22 | 0.22 | 20.09 | 0.24 |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | |
|---------|-------|------|-------|------|---------|-------|------|-------|------|
| 1.33856 | 10.61 | 0.25 | 10.54 | 0.24 | 1.34445 | 20.44 | 0.21 | 20.33 | 0.21 |
| 1.33870 | 10.86 | 0.24 | 10.78 | 0.24 | 1.34458 | 20.65 | 0.24 | 20.54 | 0.22 |
| 1.33884 | 11.10 | 0.23 | 11.02 | 0.24 | 1.34472 | 20.89 | 0.22 | 20.76 | 0.23 |
| 1.33898 | 11.33 | 0.24 | 11.26 | 0.24 | 1.34486 | 21.11 | 0.23 | 20.99 | 0.22 |
| 1.33912 | 11.47 | 0.24 | 11.50 | 0.24 | 1.34500 | 21.34 | 0.21 | 21.21 | 0.23 |
| 1.33926 | 11.81 | 0.24 | 11.74 | 0.24 | 1.34513 | 21.55 | 0.23 | 21.44 | 0.21 |
| 1.33940 | 12.05 | 0.25 | 11.98 | 0.24 | 1.34527 | 21.78 | 0.22 | 21.65 | 0.22 |
| 1.33955 | 12.30 | 0.23 | 12.22 | 0.24 | 1.34541 | 22.00 | 0.23 | 21.87 | 0.23 |
| 1.33969 | 12.53 | 0.23 | 12.46 | 0.23 | 1.34555 | 22.23 | 0.21 | 22.10 | 0.21 |
| 1.33983 | 12.76 | 0.24 | 12.69 | 0.23 | 1.34568 | 22.44 | 0.23 | 22.31 | 0.23 |
| 1.33997 | 13.00 | 0.23 | 12.92 | 0.23 | 1.34582 | 22.67 | 0.23 | 22.54 | 0.21 |
| 1.34011 | 13.23 | 0.24 | 13.15 | 0.25 | 1.34596 | 22.90 | 0.23 | 22.75 | 0.21 |
| 1.34025 | 13.47 | 0.23 | 13.40 | 0.22 | 1.34610 | 23.13 | 0.20 | 22.96 | 0.21 |
| 1.34039 | 13.70 | 0.23 | 13.62 | 0.24 | 1.34623 | 23.33 | 0.24 | 23.17 | 0.23 |
| 1.34053 | 13.93 | 0.23 | 13.86 | 0.23 | 1.34637 | 23.57 | 0.24 | 23.40 | 0.21 |
| 1.34067 | 14.16 | 0.25 | 14.09 | 0.23 | 1.34651 | 23.81 | 0.23 | 23.61 | 0.24 |
| 1.34081 | 14.41 | 0.25 | 14.32 | 0.25 | 1.34665 | 24.04 | 0.22 | 23.85 | 0.24 |
| 1.34096 | 14.66 | 0.23 | 14.57 | 0.24 | 1.34678 | 24.26 | 0.22 | 24.09 | 0.22 |
| 1.34110 | 14.89 | 0.24 | 14.81 | 0.25 | 1.34692 | 24.48 | 0.24 | 24.31 | 0.25 |
| 1.34124 | 15.13 | 0.23 | 15.06 | 0.22 | 1.34706 | 24.72 | 0.23 | 24.56 | 0.22 |
| 1.34138 | 15.36 | 0.23 | 15.28 | 0.22 | 1.34720 | 24.95 | 0.21 | 24.78 | 0.22 |

COMPENDIUM OF INTERNATIONAL METHODS OF WINE AND MUST ANALYSIS

Tables of correction

| | | | | | | | | | |
|---------|-------|------|-------|------|---------|-------|------|-------|------|
| 1.34152 | 15.59 | 0.24 | 15.50 | 0.24 | 1.34733 | 25.16 | 0.24 | 25.00 | 0.23 |
| 1.34166 | 15.83 | 0.23 | 15.74 | 0.22 | 1.34747 | 25.40 | 0.22 | 25.23 | 0.22 |
| 1.34180 | 16.06 | 0.23 | 15.96 | 0.23 | 1.34760 | 25.62 | 0.24 | 25.45 | 0.25 |
| 1.34194 | 16.29 | 0.23 | 16.19 | 0.22 | 1.34774 | 25.86 | 0.24 | 25.70 | 0.23 |
| 1.34208 | 16.52 | 0.24 | 16.41 | 0.24 | 1.34788 | 26.10 | 0.22 | 25.93 | 0.22 |