

| Scale # | Scale                        | Unit of Measure           | Range            | Resolution | Precision |
|---------|------------------------------|---------------------------|------------------|------------|-----------|
| 308     | 10440VP 0-30 Units           | 0-30 Unit Arbitrary Scale | 0 to 30          | 0.1        | 0.1       |
| 360     | Acetic Acid (D20/20)         | Specific Gravity (D20/20) | 1.000 to 1.0669  | 0.0001     | 0.00029   |
| 359     | Acetic Acid (g/ml)           | Density (g/ml)            | 0.998 to 1.0650  | 0.0001     | 0.0002    |
| 627     | Acetic Acid (mol/Liter)      | Molarity (mol/Liter)      | 0 to 10.62       | 0.01       | 0.05      |
| 358     | Acetic Acid % v/v            | % v/v                     | 0 to 55          | 0.1        | 0.25      |
| 357     | Acetic Acid % w/w            | % w/w                     | 0 to 64          | 0.1        | 0.25      |
| 362     | Acetic Acid Freeze °C        | Freeze Point °C           | 0 to -18         | 1          | 1         |
| 361     | Acetic Acid Freeze °F        | Freeze Point °F           | +32 to 8         | 1          | 1         |
| 319     | Ammonium Chloride (D20/20)   | Specific Gravity (D20/20) | 1.0000 to 1.0693 | 0.0001     | 0.0002    |
| 318     | Ammonium Chloride (g/cm3)    | Density (g/cm3)           | 0.9982 to 1.0674 | 0.0001     | 0.0002    |
| 316     | Ammonium Chloride % w/w      | % w/w                     | 0 to 24          | 0.1        | 0.1       |
| 313     | Ammonium Hydroxide (D20/20)  | Specific Gravity (D20/20) | 1.000 to 0.894   | 0.001      | 0.001     |
| 312     | Ammonium Hydroxide (g/cm3)   | Density (g/cm3)           | 0.998 to 0.892   | 0.001      | 0.001     |
| 311     | Ammonium Hydroxide % v/v     | % v/v                     | 0 to 38          | 0.1        | 0.1       |
| 310     | Ammonium Hydroxide % w/w     | % w/w                     | 0 to 30          | 0.1        | 0.1       |
| 315     | Ammonium Hydroxide Freeze °C | Freeze Point °C           | 0 to -84         | 1          | 2         |
| 314     | Ammonium Hydroxide Freeze °F | Freeze Point °F           | +32 to -119      | 1          | 1         |
| 810     | Ammonium Nitrate % w/w       | % w/w                     | 0 to 55          | 0.1        | 0.1       |
| 323     | Ammonium Sulfate (D20/20)    | Specific Gravity (D20/20) | 1.000 to 1.230   | 0.001      | 0.001     |
| 322     | Ammonium Sulfate (g/ml)      | Density (g/ml)            | 0.998 to 1.228   | 0.001      | 0.001     |
| 320     | Ammonium Sulfate % w/w       | % w/w                     | 0 to 40          | 0.1        | 0.1       |
| 389     | Aqua Quench 260 %            | % Concentration           | 0 to 50          | 0.1        | 0.5       |
| 799     | Beer (Brix/Sucrose)          | Brix (Beer)               | 0 to 30          | 0.1        | 0.1       |
| 802     | Beer (Wort) (D20/20 °C)      | Specific Gravity (D20/20) | 1.000 to 1.127   | 0.001      | 0.001     |
| 803     | Beer (Wort) (D60/60 °F)      | Specific Gravity (D60/60) | 1.000 to 1.128   | 0.001      | 0.001     |
| 804     | Beer (Wort) Brewer's Points  | Brewer's Points           | 0 to 127         | 0.1        | 0.5       |
| 800     | Beer (Wort) Dissolved Solids | Dissolved Solids (Sugars) | 0 to 30          | 0.1        | 0.1       |
| 801     | Beer (Wort) Plato            | Plato                     | 0 to 30          | 0.1        | 0.1       |
| 105     | Blood (Animal) Protein g/dL  | Total Protein (TPr) g/dl  | 1 to 14          | 0.1        | 0.1       |
| 110     | Blood (Human) (D20/20)       | Specific Gravity (D20/20) | 1.000 to 1.043   | 0.0001     | 0.0002    |
| 111     | Blood (Human) (g/ml)         | Density (g/ml)            | 0.9982 to 1.0403 | 0.0001     | 0.0002    |
| 109     | Blood (Human) % Solids       | % Total Solids            | 0 to 15          | 0.1        | 0.1       |
| 108     | Blood (Human) Protein g/dL   | Total Protein (TPr) g/dl  | 1 to 14          | 0.1        | 0.1       |
| 061     | Brake Fluid DOT3 % H2O       | % Water                   | 0 to 6           | 0.1        | 0.5       |
| 166     | Brake Fluid DOT3 Boil °C     | Boiling Point °C          | 118 to 252       | 1          | 5 °C      |
| 062     | Brake Fluid DOT3 Boil °F     | Boiling Point °F          | 244 to 485       | 1          | 10 °F     |
| 167     | Brake Fluid DOT3 HT Boil °C  | Boiling Point °C          | 107 to 292       | 1          | 5 °C      |
| 063     | Brake Fluid DOT3HT % H2O     | % Water                   | 0 to 6           | 0.1        | 0.5       |
| 064     | Brake Fluid DOT3HT Boil °F   | Boiling Point °F          | 225 to 558       | 1          | 10 °F     |

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| 065     | Brake Fluid DOT4 % H2O        | % Water                   | 0 to 6           | 0.1        | 0.5       |
| 066     | Brake Fluid DOT4 Boil °C      | Boiling Point °C          | 143 to 278       | 1          | 5°C       |
| 164     | Brake Fluid DOT4 Boil °F      | Boiling Point °F          | 288 to 532       | 1          | 10 °F     |
| 067     | Brake Fluid DOT4+ % H2O       | % Water                   | 0 to 6           | 0.1        | 0.5       |
| 068     | Brake Fluid DOT4+ Boil °C     | Boiling Point °C          | 158 to 293       | 1          | 6°C       |
| 165     | Brake Fluid DOT4+ Boil °F     | Boiling Point °F          | 316 to 559       | 1          | 10 °F     |
| 003     | BRIX                          | BRIX                      | 0 to 85          | 0.1        | 0.1       |
| 004     | BRIX                          | BRIX                      | 0 to 56          | 0.1        | 0.1       |
| 081     | Calcium Chloride (D20/20)     | Specific Gravity (D20/20) | 1.000 to 1.3957  | 0.001      | 0.001     |
| 084     | Calcium Chloride (ppt)        | Parts Per Thousands (ppt) | 0 to 400         | 0.1        | 1         |
| 080     | Calcium Chloride % w/w        | % w/w                     | 0 to 40          | 0.1        | 0.1       |
| 083     | Calcium Chloride Freeze °C    | Freeze Point °C           | 0 to -54         | 1          | 1         |
| 082     | Calcium Chloride Freeze °F    | Freeze Point °F           | +32 to -65       | 1          | 1         |
| 085     | Calcium Chloride g/100 grams  | g/100 grams               | 0 to 40          | 0.1        | 0.1       |
| 096     | Cat Urine (D20/20)            | Specific Gravity (D20/20) | 1.0000 - 1.1200  | 0.0001     | 0.0005    |
| 097     | Cat Urine % Solids            | % Solids                  | 0 to 30          | 0.1        | 0.1       |
| 660     | Cimcool - Cimtech 310 % v/v   | % v/v                     | 0 to 16          | 0.1        | 0.25      |
| 114     | Citric Acid (D20/20)          | Specific Gravity (D20/20) | 1.000 to 1.135   | 0.001      | 0.00029   |
| 113     | Citric Acid % w/w             | % w/w                     | 0 to 30          | 0.1        | 0.1       |
| 169     | Copper Sulfate (D20/20)       | Specific Gravity (D20/20) | 1.000 to 1.209   | 0.001      | 0.001     |
| 170     | Copper Sulfate (g/cm3)        | Density (g/cm3)           | 1.000 to 1.206   | 0.001      | 0.001     |
| 171     | Copper Sulfate % w/w          | % w/w                     | 0 to 18          | 0.1        | 0.1       |
| 172     | Copper Sulfate Solute g/mL    | Solute g/mL               | 0 to 0.218       | 0.001      | 0.001     |
| 479     | CORN SYRUP 36 D.E. % Dry Sub. | % Dry Substance           | 0 to 82          | 0.1        | 0.1       |
| 605     | CORN SYRUP 42 D.E. % Dry Sub. | % Dry Substance           | 0 to 82          | 0.1        | 0.1       |
| 503     | CORN SYRUP 43 D.E. % Dry Sub. | % Dry Substance           | 0 to 82          | 0.1        | 0.1       |
| 613     | CORN SYRUP 62 D.E. % Dry Sub. | % Dry Substance           | 0 to 84          | 0.1        | 0.1       |
| 527     | CORN SYRUP 63 D.E. % Dry Sub. | % Dry Substance           | 0 to 85          | 0.1        | 0.1       |
| 551     | CORN SYRUP 95 D.E. % Dry Sub. | % Dry Substance           | 0 to 85          | 0.1        | 0.1       |
| 567     | CORN SYRUP HF 42, % Dry Sub.  | % Dry Substance           | 0 to 85          | 0.1        | 0.1       |
| 575     | CORN SYRUP HF 55, % Dry Sub.  | % Dry Substance           | 0 to 85          | 0.1        | 0.1       |
| 442     | CPTherm % v/v                 | % v/v                     | 0 to 100         | 0.1        | 0.5       |
| 444     | CPTherm Slush Point °C        | Slush Point °C            | 0 to -64         | 1          | 1         |
| 443     | CPTherm Slush Point °F        | Slush Point °F            | +32 to -83       | 1          | 2         |
| 588     | DEG Boil 760 mm Hg            | Boiling Point 760 mm Hg   | 100 to 180       | 1          | 2         |
| 049     | Diethylene Glycol (D60/60 °F) | Specific Gravity (D60/60) | 1.0000 to 1.1184 | 0.0001     | 0.0001    |
| 591     | Diethylene Glycol (H2O % w/w) | % Water w/w               | 100 to 0         | 0.1        | 0.1       |
| 045     | Diethylene Glycol % v/v       | % v/v                     | 0 to 100         | 0.1        | 0.1       |
| 046     | Diethylene Glycol % w/w       | % w/w                     | 0 to 100         | 0.1        | 0.1       |

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| 048     | Diethylene Glycol Freeze °C    | Freeze Point °C             | 0 to -45        | 1          | 1               |
| 047     | Diethylene Glycol Freeze °F    | Freeze Point °F             | +32 to -49      | 1          | 2               |
| 340     | Diglycolamine (Huntsman DGA®)  | % w/v                       | 0 to 100        | 0.1        | 0.25            |
| 725     | DOW® UCARSOL™ AP-802 Solvent   | % w/w                       | 0 to 100        | 1          | 3               |
| 409     | DowFrost (PG) (D25/25)         | Specific Gravity (D25/25)   | 1.000 to 1.054  | 0.001      | 0.001           |
| 239     | DowFrost (PG) % v/v            | % v/v                       | 0 to 100        | 0.1        | 0.1             |
| 238     | DowFrost (PG) % w/w            | % w/w                       | 0 to 100        | 0.1        | 0.1             |
| 240     | DowFrost (PG) Freeze °C        | Freeze Point °C             | 0 to -67        | 1          | 1               |
| 241     | DowFrost (PG) Freeze °F        | Freeze Point °F             | +32 to -88      | 1          | 2               |
| 247     | DowFrost HD (PG) % v/v         | % v/v                       | 0 to 100        | 0.1        | 0.1             |
| 246     | DowFrost HD (PG) % w/w         | % w/w                       | 0 to 100        | 0.1        | 0.1             |
| 248     | DowFrost HD (PG) Freeze °C     | Freeze Point °C             | 0 to -51        | 1          | 1               |
| 249     | DowFrost HD (PG) Freeze °F     | Freeze Point °F             | +32 to -60      | 1          | 1               |
| 263     | DowTherm 4000 % v/v            | % v/v                       | 0 to 100        | 0.1        | 0.1             |
| 262     | DowTherm 4000 % w/w            | % w/w                       | 0 to 100        | 0.1        | 0.1             |
| 268     | DowTherm 4000 Boil °C 101 kPa  | Boiling Point °C @ 101 kPa  | 100 to 145      | 1          | 1               |
| 269     | DowTherm 4000 Boil °F 760 mmHg | Boiling Pt °F @ 760 mmHg    | 212 to 293      | 1          | 2               |
| 264     | DowTherm 4000 Freeze °C        | Freeze Point °C             | 0 to -48        | 1          | 1               |
| 265     | DowTherm 4000 Freeze °F        | Freeze Point °F             | +32 to -56      | 1          | 2               |
| 255     | DowTherm SR1 - EG % v/v        | % v/v                       | 0 to 100        | 0.1        | 0.1             |
| 254     | DowTherm SR1 - EG % w/w        | % w/w                       | 0 to 100        | 0.1        | 0.1             |
| 256     | DowTherm SR1 - EG Freeze °C    | Freeze Point °C             | 0 to -50        | 1          | 1               |
| 257     | DowTherm SR1 - EG Freeze °F    | Freeze Point °F             | +32 to -58      | 1          | 2               |
| 586     | EDTA (D20/20)                  | Specific Gravity (D20/20)   | 1.000 to 1.046  | 0.001      | 0.0005          |
| 585     | EDTA (g/cm3)                   | Density (g/cm3)             | 0.998 to 1.045  | 0.001      | 0.0005          |
| 584     | EDTA (g/L)                     | g/L                         | 0 to 80         | 1          | 1               |
| 583     | EDTA % w/w                     | % w/w                       | 0 to 8          | 0.1        | 0.1             |
| 195     | Ethanol - Wine (D20/20)        | Specific Gravity (D20/20)   | 1.000 to 0.9640 | 0.0001     | 0.00029         |
| 805     | Ethanol (Beer) % v/v @ 20°C    | % v/v @ 20°C                | 0 to 30         | 0.1        | 0.2             |
| 807     | Ethanol (Beer) % v/v @ 60°F    | % v/v @ 60°F                | 0 to 30         | 0.1        | 0.2             |
| 033     | Ethanol (D20/20) <             | Specific Gravity (D20/20) < | 1.000 to 0.869  | 0.001      | 0.001           |
| 035     | Ethanol (D20/20) >             | Specific Gravity (D20/20) > | 0.820 to 0.790  | 0.001      | 0.001           |
| 683     | Ethanol (D60/60) °F >          | Specific Gravity (D60/60) > | 0.794 to 0.820  | 0.001      | 0.001           |
| 681     | Ethanol (D60/60) <             | Specific Gravity (D60/60) < | 1.000 to 0.871  | 0.001      | 0.001           |
| 680     | Ethanol % v/v @ 60 °F <        | % v/v @ 60 °F <             | 0 to 77         | 0.1        | 0.2 / 0.2 / 1.0 |
| 684     | Ethanol % v/v @ 60 °F >        | % v/v @ 60 °F >             | 94 to 100       | 0.1        | 0.25            |
| 031     | Ethanol % v/v 20°C <           | % v/v @ 20 °C <             | 0 to 76         | 0.1        | 0.2 / 0.2 / 1.0 |
| 036     | Ethanol % v/v 20°C >           | % v/v @ 20 °C >             | 93 to 100       | 0.1        | 0.25            |
| 032     | Ethanol % w/w <                | % w/w <                     | 0 to 70         | 0.1        | 0.2 / 0.2 / 1.0 |

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| 037     | Ethanol % w/w >               | % w/w >                    | 90 to 100        | 0.1        | 0.5       |
| 030     | Ethanol Freeze °C             | Freeze Point °C            | 0 to -46         | 1          | 1         |
| 029     | Ethanol Freeze °F             | Freeze Point °F            | +32 to -51       | 1          | 1         |
| 687     | Ethanol g/cm3 >               | Density g/cm3 >            | 0.789 to 0.818   | 0.001      | 0.001     |
| 682     | Ethanol Proof @ 60 °F <       | Proof @ 60 °F <            | 0 to 155         | 1          | 0.5       |
| 685     | Ethanol Proof @ 60 °F >       | Proof @ 60 °F >            | 186 to 200       | 1          | 0.5       |
| 034     | Ethanol Proof 20°C <          | Proof @ 20 °C <            | 0 to 153         | 1          | 0.5       |
| 038     | Ethanol Proof 20°C >          | Proof @ 20 °C >            | 186 to 200       | 1          | 0.5       |
| 015     | Ethylene Glycol (D20/20)      | Specific Gravity (D 20/20) | 1.0000 to 1.1153 | 0.0001     | 0.0001    |
| 379     | Ethylene Glycol (g/cm3)       | Density (g/cm3)            | 0.998 to 1.113   | 0.0001     | 0.0002    |
| 465     | Ethylene Glycol (H2O % v/v)   | % Water v/v                | 100 to 0         | 0.1        | 0.1       |
| 011     | Ethylene Glycol % v/v         | % v/v                      | 0 to 100         | 0.1        | 0.1       |
| 012     | Ethylene Glycol % w/w         | % w/w                      | 0 to 100         | 0.1        | 0.1       |
| 381     | Ethylene Glycol Boil °C       | Boiling Point °C           | 100 to 152       | 1          | 1         |
| 380     | Ethylene Glycol Boil °F       | Boiling Point °F           | 212 to 305       | 1          | 1         |
| 014     | Ethylene Glycol Freeze °C     | Freeze Point °C            | 0 to -59         | 1          | 1         |
| 013     | Ethylene Glycol Freeze °F     | Freeze Point °F            | +32 to -79       | 1          | 2         |
| 862     | Formaldehyde/Methanediol %w/w | % w/w                      | 0 to 50          | 0.1        | 0.1       |
| 052     | Fructose % w/w                | % w/w                      | 0 to 85          | 0.1        | 0.1       |
| 053     | Glucose/Dextrose % w/w        | % w/w                      | 0 to 85          | 0.1        | 0.1       |
| 020     | Glycerine (D20/20)            | Specific Gravity (D 20/20) | 1.000 to 1.2633  | 0.0001     | 0.0002    |
| 016     | Glycerine % v/v               | % v/v                      | 0 to 100         | 0.1        | 0.1       |
| 017     | Glycerine % w/w               | % w/w                      | 0 to 100         | 0.1        | 0.1       |
| 019     | Glycerine Freeze °C           | Freeze Point °C            | 0 to -43         | 1          | 1         |
| 018     | Glycerine Freeze °F           | Freeze Point °F            | +32 to -46       | 1          | 1         |
| 101     | Guinea Pig Urine (D20/20)     | Specific Gravity (D20/20)  | 1.0000 to 1.103  | 0.0001     | 0.0005    |
| 102     | Guinea Pig Urine % Solids     | % Solids                   | 0 to 21          | 0.1        | 0.1       |
| 327     | Honey (g/cm3)                 | Density (g/cm3)            | 1.359 to 1.443   | 0.001      | 0.0005    |
| 325     | Honey % Moisture              | % Moisture                 | 13 to 30         | 0.1        | 0.06      |
| 324     | Honey % Soluble Solids        | % Soluble Solids           | 75 to 87         | 0.1        | 0.06      |
| 326     | Honey Specific (D20/20)       | Specific Gravity (D20/20)  | 1.3616 to 1.4457 | 0.001      | 0.0005    |
| 093     | Human Urine (D20/20)          | Specific Gravity (D20/20)  | 1.0000 to 1.0450 | 0.0001     | 0.0005    |
| 094     | Human Urine % Solids          | Urine Solids %             | 0 to 11          | 0.1        | 0.1       |
| 095     | Human Urine Solids (g/L)      | Urine Solids (g/L)         | 0 to 11.5        | 0.1        | 0.1       |
| 157     | Hydrochloric Acid (D20/20)    | Specific Gravity (D20/20)  | 1.000 to 1.120   | 0.001      | 0.0005    |
| 156     | Hydrochloric Acid (g/cm3)     | Density (g/cm3)            | 0.998 to 1.198   | 0.001      | 0.0005    |
| 155     | Hydrochloric Acid % w/w       | % w/w                      | 0 to 40          | 0.1        | 0.1       |
| 631     | Hydrochloric Acid % w/w       | % w/w                      | 0 to 20          | 0.1        | 0.1       |
| 633     | Hydrogen Peroxide % w/w       | % w/w                      | 0 to 100         | 0.1        | 0.2       |

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| 700     | INEOS® GAS/SPEC® CS-1®         | % w/w                       | 0 to 100         | 1          | 3              |
| 743     | INEOS® GAS/SPEC® CS-1110™      | % w/w                       | 0 to 80          | 1          | 3              |
| 699     | INEOS® GAS/SPEC® CS-1160™      | % w/w                       | 0 to 100         | 1          | 3              |
| 695     | INEOS® GAS/SPEC® CS-2020™      | % w/w                       | 0 to 90          | 1          | 3              |
| 696     | INEOS® GAS/SPEC® SG-3500™      | % w/w                       | 0 to 100         | 1          | 3              |
| 721     | INEOS® GAS/SPEC® SS®           | % w/w                       | 0 to 90%         | 1          | 3              |
| 054     | Invert Sugar % w/w             | % w/w                       | 0 to 85          | 0.1        | 0.1            |
| 043     | Isopropyl (D20/20)             | Specific Gravity (D 20/20)  | 1.0000 to 0.8431 | 0.001      | 0.001 Avg.     |
| 041     | Isopropyl % v/v                | % v/v                       | 0 to 83          | 0.1        | 0.25 Avg.      |
| 042     | Isopropyl % w/w                | % w/w                       | 0 to 80          | 0.1        | 0.25 Avg.      |
| 040     | Isopropyl Freeze °C            | Freeze Point °C             | 0 to -40         | 1          | 1              |
| 039     | Isopropyl Freeze °F            | Freeze Point °F             | +32 to -40       | 1          | 1              |
| 044     | Isopropyl Viscosity (cP)       | Viscosity                   | 1.000 to 2.582   | 0.01       | 0.01           |
| 056     | Lactic Acid (D20/20)           | Specific Gravity (D 20/20)  | 1.0000 to 1.1870 | 0.001      | 0.001          |
| 055     | Lactic Acid % w/w              | % w/w                       | 0 to 80          | 0.1        | 0.1            |
| 447     | Lithium Chloride (D20/20)      | Specific Gravity (D20/20)   | 1.000 to 1.181   | 0.001      | 0.0005         |
| 448     | Lithium Chloride (g/cm3)       | Density (g/cm3)             | .998 to 1.179    | 0.001      | 0.0005         |
| 446     | Lithium Chloride % w/w         | % w/w                       | 0 to 30          | 0.1        | 0.1            |
| 098     | LRG Animal Urine (D20/20)      | Specific Gravity (D20/20)   | 1.000 to 1.065   | 0.0001     | 0.0005         |
| 099     | LRG Animal Urine % Solids      | % Solids                    | 0 to 11          | 0.1        | 0.1            |
| 100     | LRG Animal Urine Solids (g/L)  | Solids (g/L)                | 0 to 11.5        | 0.1        | 0.1            |
| 087     | Magnesium Chloride (D20/20)    | Specific Gravity (D20/20)   | 1.000 to 1.276   | 0.001      | 0.001          |
| 090     | Magnesium Chloride (ppt)       | Parts Per Thousands (ppt)   | 0 to 300         | 0.1        | 1              |
| 086     | Magnesium Chloride % w/w       | % w/w                       | 0 to 30          | 0.1        | 0.1            |
| 089     | Magnesium Chloride Freeze °C   | Freeze Point °C             | 0 to -33         | 1          | 1              |
| 088     | Magnesium Chloride Freeze °F   | Freeze Point °F             | +32 to -27.4     | 1          | 2              |
| 091     | Magnesium Chloride g/100 grams | g/100 grams                 | 0 to 30g         | 0.1        | 0.1            |
| 372     | Magnesium Sulfate (D20/20)     | Specific Gravity (D20/20)   | 1.000 to 1.298   | 0.001      | 0.001          |
| 371     | Magnesium Sulfate (g/ml)       | Density (g/ml)              | 0.998 to 1.296   | 0.001      | 0.001          |
| 369     | Magnesium Sulfate % w/w        | % w/w                       | 0 to 26          | 0.1        | 0.1            |
| 200     | Mannitol (D20/20)              | Specific Gravity (D20/20)   | 1.000 to 1.055   | 0.001      | 0.0005         |
| 199     | Mannitol % w/w                 | % w/w                       | 0 to 15          | 0.1        | 0.1            |
| 201     | Mannitol Solute g/L            | Solute g/L                  | 0 to 158         | 1          | 1              |
| 306     | Maple Syrup < 30 °C BRIX       | BRIX                        | 0 to 85          | 0.1        | 0.1            |
| 304     | Maple Syrup < 86 °F BRIX       | BRIX                        | 0 to 85          | 0.1        | 0.1            |
| 307     | Maple Syrup > 30 °C BRIX       | BRIX                        | 0 to 85          | 1          | 0.5            |
| 305     | Maple Syrup > 86 °F BRIX       | BRIX                        | 0 to 85          | 1          | 0.5            |
| 025     | Methanol (D20/20) <            | Specific Gravity (D20/20) < | 1.000 to 0.935   | 0.001      | 0.001 to 0.005 |
| 026     | Methanol (D20/20) >            | Specific Gravity (D20/20) > | 0.849 to 0.793   | 0.001      | 0.001 to 0.005 |

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|---------|-------------------------------|-----------------------------------|------------------|------------|------------|
| 023     | Methanol % v/v <              | % v/v <                           | 0 to 45          | 0.1        | 0.5 to 0.8 |
| 027     | Methanol % v/v >              | % v/v >                           | 84 to 100        | 0.1        | 0.5 to 0.2 |
| 024     | Methanol % w/w <              | % w/w <                           | 0 to 40          | 0.1        | 0.5 to 0.8 |
| 028     | Methanol % w/w >              | % w/w >                           | 80 to 100        | 0.1        | 0.4 to 0.2 |
| 022     | Methanol Freeze °C            | Freeze Point °C                   | 0 to -39         | 1          | 0.5 to 1.7 |
| 021     | Methanol Freeze °F            | Freeze Point °F                   | +32 to -39       | 1          | 1 to 3     |
| 592     | Methyldiethanolamine % w/w    | % w/w                             | 0 to 100         | 0.1        | 0.2        |
| 466     | Milk % Total Solids           | % Total Solids                    | 5 to 15          | 0.1        | 0.5        |
| 663     | MW Fluid Factor (Brix x 0.9)  | Factor (Brix x 0.9)               | 0 to 20.7 Units  | 0.1        | 0.1        |
| 667     | MW Fluid Factor (Brix x 1.1)  | Factor (Brix x 1.1)               | 0 to 50 Units    | 0.1        | 0.15       |
| 657     | MW Fluid Factor (Brix x 1.16) | Factor (Brix x 1.16)              | 0 to 50 Units    | 0.1        | 0.1        |
| 668     | MW Fluid Factor (Brix x 1.2)  | Factor (Brix x 1.2)               | 0 to 50 Units    | 0.1        | 0.1        |
| 650     | MW Fluid Factor (Brix x 1.22) | Factor (Brix x 1.22)              | 0 to 50 Units    | 0.1        | 0.1        |
| 653     | MW Fluid Factor (Brix x 1.34) | Factor (Brix x 1.34)              | 0 to 50 Units    | 0.1        | 0.12       |
| 715     | MW Fluid Factor (Brix x 1.36) | Factor (Brix x 1.36)              | 0 to 50 Units    | 0.1        | 0.1        |
| 669     | MW Fluid Factor (Brix x 1.4)  | Factor (Brix x 1.4)               | 0 to 50 Units    | 0.1        | 0.1        |
| 666     | MW Fluid Factor (Brix x 1.7)  | Factor (Brix x 1.7)               | 0 to 50 Units    | 0.1        | 0.15       |
| 665     | MW Fluid Factor (Brix x 1.75) | Factor (Brix x 1.75)              | 0 to 50 Units    | 0.1        | 0.15       |
| 654     | MW Fluid Factor (Brix x 1.78) | Factor (Brix x 1.78)              | 0 to 50 Units    | 0.1        | 0.17       |
| 659     | MW Fluid Factor (Brix x 1.79) | Factor (Brix x 1.79)              | 0 to 50 Units    | 0.1        | 0.15       |
| 662     | MW Fluid Factor (Brix x 1.87) | Factor (Brix x 1.87)              | 0 to 50 Units    | 0.1        | 0.12       |
| 716     | MW Fluid Factor (Brix x 1.9)  | Factor (Brix x 1.9)               | 0 to 50 Units    | 0.1        | 0.13       |
| 664     | MW Fluid Factor (Brix x 2.0)  | Factor (Brix x 2.0)               | 0 to 50 Units    | 0.1        | 0.15       |
| 717     | MW Fluid Factor (Brix x 2.3)  | Factor (Brix x 2.3)               | 0 to 50 Units    | 0.1        | 0.16       |
| 652     | MW Fluid Factor (Brix x 2.50) | Factor (Brix x 2.50)              | 0 to 100 Units   | 0.1        | 0.25       |
| 655     | MW Fluid Factor (Brix x 2.7)  | Factor (Brix x 2.7)               | 0 to 100 Units   | 0.1        | 0.25       |
| 661     | MW Fluid Factor (Brix x 2.77) | Factor (Brix x 2.77)              | 0 to 100 Units   | 0.1        | 0.25       |
| 651     | MW Fluid Factor (Brix x 3.11) | Factor (Brix x 3.11)              | 0 to 100 Units   | 0.1        | 0.3        |
| 160     | Nitric Acid (D20/20)          | Specific Gravity (D20/20)         | 1.000 to 1.2466  | 0.001      | 0.001      |
| 158     | Nitric Acid (g/cm3)           | Density (g/cm3)                   | 1.000 to 1.2466  | 0.001      | 0.001      |
| 159     | Nitric Acid % w/w             | % w/w                             | 0 to 40          | 0.1        | 0.15       |
| 815     | NMP (D20/20)                  | Specific Gravity (D20/20)         | 1.0000 to 1.0542 | 0.0001     | 0.0001     |
| 814     | NMP (g/cm3)                   | Density (g/cm <sup>3</sup> 20 °C) | .9983 to 1.0524  | 0.0001     | 0.0001     |
| 813     | NMP % w/w                     | % w/w                             | 0 to 100         | 0.1        | 0.1        |
| 909     | PG Freeze °C (GEN)            | Freeze Point °C                   | 0 to -51         | 1          | 1          |
| 908     | PG Freeze °F (GEN)            | Freeze Point °F                   | 32 to -60        | 1          | 2          |
| 331     | Phosphoric Acid (D20/20)      | Specific Gravity (D20/20)         | 1.000 to 1.256   | 0.001      | 0.001      |
| 330     | Phosphoric Acid (g/cm3)       | Density (g/cm3)                   | 0.998 to 1.254   | 0.001      | 0.001      |
| 328     | Phosphoric Acid % w/w         | % w/w                             | 0 to 40          | 0.1        | 0.1        |

| Scale # | Scale                        | Unit of Measure                | Range            | Resolution | Precision |
|---------|------------------------------|--------------------------------|------------------|------------|-----------|
| 354     | Polyethylene Glycol % v/v    | % v/v                          | 0 to 100         | 0.1        | 0.5       |
| 183     | Potassium Chloride (D20/20)  | Specific Gravity (D20/20)      | 1.000 to 1.1643  | 0.001      | 0.001     |
| 182     | Potassium Chloride (g/cm3)   | Density (g/cm3)                | 1.000 to 1.162   | 0.001      | 0.001     |
| 181     | Potassium Chloride % w/w     | % w/w                          | 0 to 24          | 0.1        | 0.1       |
| 344     | Potassium Acetate (D20/20)   | Specific Gravity (D20/20)      | 1.000 to 1.339   | 0.001      | 0.001     |
| 343     | Potassium Acetate (g/ml)     | Density (g/ml)                 | 0.998 to 1.337   | 0.001      | 0.001     |
| 341     | Potassium Acetate % w/w      | % w/w                          | 0 to 60          | 0.1        | 0.12      |
| 346     | Potassium Acetate Freeze °C  | Freeze Point °C                | 0 to -59         | 1          | 1         |
| 345     | Potassium Acetate Freeze °F  | Freeze Point °F                | +32 to -75       | 1          | 1         |
| 366     | Potassium Bromide (D20/20)   | Specific Gravity (D20/20)      | 1.000 to 1.3813  | 0.001      | 0.001     |
| 365     | Potassium Bromide (g/ml)     | Density (g/ml)                 | .998 to 1.3788   | 0.001      | 0.001     |
| 368     | Potassium Bromide Freeze °C  | Freeze Point °C                | 0 to -17         | 1          | 1         |
| 367     | Potassium Bromide Freeze °F  | Freeze Point °F                | +32 to 1         | 1          | 1         |
| 760     | Potassium Hydroxide (D20/20) | Specific Gravity (D20/20)      | 1.000 to 1.505   | 0.001      | 0.001     |
| 759     | Potassium Hydroxide (g/cm3)  | Density (g/cm3)                | .998 to 1.502    | 0.001      | 0.001     |
| 758     | Potassium Hydroxide % w/w    | % w/w                          | 0 to 50          | 0.1        | 0.1       |
| 457     | Potassium Phosphate (g/cm3)  | Density (g/cm3)                | 0.998 to 1.086   | 0.001      | 0.001     |
| 456     | Potassium Phosphate % w/w    | % w/w                          | 0 to 10          | 0.1        | 0.1       |
| 458     | Potassium Phosphate(D20/20)  | Specific Gravity (D20/20)      | 1.000 to 1.088   | 0.001      | 0.001     |
| 010     | Propylene Glycol (D20/20)    | Specific Gravity (D20/20)      | 1.0000 - 1.0460  | 0.0001     | 0.0001    |
| 445     | Propylene Glycol (H2O %v/v)  | % water v/v                    | 100 to 0         | 1          | 0.1       |
| 006     | Propylene Glycol % v/v       | % v/v                          | 0 to 100         | 0.1        | 0.1       |
| 007     | Propylene Glycol % w/w       | % w/w                          | 0 to 100         | 0.1        | 0.1       |
| 907     | Propylene Glycol % w/w (GEN) | % w/w                          | 0 to 100         | 0.1        | 0.1       |
| 009     | Propylene Glycol Freeze °C   | Freeze Point °C                | 0 to -51         | 1          | 1         |
| 008     | Propylene Glycol Freeze °F   | Freeze Point °F                | +32 to -60       | 1          | 2         |
| 103     | Rabbit Urine (D20/20)        | Specific Gravity (D20/20)      | 1.0000 to 1.084  | 0.0001     | 0.0005    |
| 104     | Rabbit Urine % Solids        | % Solids                       | 0 to 19          | 0.1        | 0.1       |
| 001     | Ref. Index (nD20)            | Refractive Index (nD20)        | 1.3330 to 1.5000 | 0.0001     | 0.0001    |
| 670     | Seawater (D 25/25)           | Specific Gravity (D 25/25)     | 1.0000 to 1.0626 | 0.0001     | 0.0005    |
| 058     | Seawater (D20/20)            | Specific Gravity (D 20/20)     | 1.0000 to 1.1180 | 0.0001     | 0.0005    |
| 176     | Seawater (g/cm3) 20°C        | Density 20°C (g/cm3)           | 0.998 to 1.036   | 0.0001     | 0.0005    |
| 059     | Seawater (ppt)               | Parts per Thousand (ppt)       | 0 to 155         | 1          | 1         |
| 173     | Seawater (PSU)               | Practical Salinity Units (PSU) | 0 to 155         | 1          | 1         |
| 057     | Seawater % w/w               | % w/w                          | 0 to 15.5        | 0.1        | 0.1       |
| 673     | Seawater 25 °C (mS/cm)       | Conductvty @ 25C (mS/cm)       | 0 to 110         | 0.1        | 0.5       |
| 180     | Seawater Chlorinity (ppt)    | Chlorinity (ppt)               | 0 to 85.5        | 0.1        | 0.5       |
| 174     | Seawater Sigma-t @ 15°C      | Density Sigma-t @ 15°C         | 0 to 119         | 0.1        | 0.5       |
| 175     | Seawater Sigma-t @ 20°C      | Density Sigma-t @ 20°C         | -2 to 116        | 0.1        | 0.5       |

| Scale # | Scale                          | Unit of Measure            | Range            | Resolution | Precision |
|---------|--------------------------------|----------------------------|------------------|------------|-----------|
| 674     | Seawater Sigma-t @ 25°C        | Density Sigma-t @ 25°C     | -3 to 59         | 0.1        | 0.5       |
| 075     | Sodium Chloride (D20/20)       | Specific Gravity (D20/20)  | 1.000 to 1.208   | 0.001      | 0.001     |
| 163     | Sodium Chloride (g/cm3)        | Density (g/cm3)            | 0.998 to 1.202   | 0.001      | 0.001     |
| 078     | Sodium Chloride (ppt)          | Parts Per Thousands (ppt)  | 0 to 26.4        | 0.1        | 1         |
| 168     | Sodium Chloride % Saturation   | % Saturation               | 0 to 100         | 1          | 0.5       |
| 074     | Sodium Chloride %w/w           | %w/w                       | 0 to 26          | 0.1        | 0.1       |
| 702     | Sodium Chloride Baume (20°C)   | Baume (20°C)               | 0 to 25          | 0.1        | 0.1       |
| 077     | Sodium Chloride Freeze °C      | Freeze Point °C            | 0 to -21         | 1          | 0.5       |
| 076     | Sodium Chloride Freeze °F      | Freeze Point °F            | 32 to -6         | 1          | 0.5       |
| 079     | Sodium Chloride g/100 grams    | g/100 grams                | 0 to 26.4        | 0.1        | 0.1       |
| 154     | Sodium Hydroxide (D20/20)      | Specific Gravity (D20/20)  | 1.000 to 1.4325  | 0.001      | 0.001     |
| 449     | Sodium Hydroxide (D80/80°F)    | Specific Gravity (80°F)    | 1.000 to 1.428   | 0.001      | 0.001     |
| 153     | Sodium Hydroxide (g/cm3)       | Density (g/cm3)            | 0.998 to 1.430   | 0.001      | 0.001     |
| 152     | Sodium Hydroxide % w/w         | % w/w                      | 0 to 40          | 0.1        | 0.1       |
| 454     | Sodium Nitrate (D20/20)        | Specific Gravity (D20/20)  | 1.000 to 1.3199  | 0.001      | 0.001     |
| 455     | Sodium Nitrate (D80/80°F)      | Specific Gravity 80°F      | 1.000 to 1.3146  | 0.001      | 0.001     |
| 453     | Sodium Nitrate (g/cm3)         | Density (g/cm3)            | 0.998 to 1.3175  | 0.001      | 0.001     |
| 452     | Sodium Nitrate % w/w           | % w/w                      | 0 to 40          | 0.1        | 0.1       |
| 116     | Sodium Phosphate (D20/20)      | Specific Gravity (D20/20)  | 1.000 to 1.099   | 0.001      | 0.0004    |
| 115     | Sodium Phosphate % w/w         | % w/w                      | 0 to 8           | 0.1        | 0.05      |
| 192     | Sodium Thiocyanate (D20/20)    | Specific Gravity (D20/20)  | 1.000 to 1.3677  | 0.001      | 0.0002    |
| 193     | Sodium Thiocyanate (g/cm3)     | Density (g/cm3)            | .9982 to 1.3653  | 0.001      | 0.00029   |
| 191     | Sodium Thiocyanate % w/w       | % w/w                      | 0 to 60          | 0.1        | 0.1       |
| 203     | Sorbitol (D20/20)              | Specific Gravity (D20/20)  | 1.000 to 1.055   | 0.001      | 0.0005    |
| 202     | Sorbitol % w/w                 | % w/w                      | 0 to 15          | 0.1        | 0.1       |
| 204     | Sorbitol Solute g/L            | Solute g/L                 | 0 to 158         | 1          | 1         |
| 767     | Soy Milk % Solids              | % Solids                   | 0 to 20          | 0.1        | 0.1       |
| 768     | Soy Milk Protein Concentration | Protein Concentration      | 0 to 9           | 0.1        | 0.1       |
| 332     | Splenda - Consumer % w/w       | % w/w                      | 1 to 45          | 0.1        | 0.1       |
| 336     | Sucralose - Pure % w/w         | % w/w                      | 0 to 28          | 0.1        | 0.1       |
| 634     | SUCROSE - ASH Content % w/w    | % w/w                      | .0000 to .3400   | 0.01       | 0.0001    |
| 436     | Sucrose (D 20/20)              | Specific Gravity (D 20/20) | 1.0000 to 1.4147 | 0.0001     | 0.0004    |
| 437     | Sucrose (g/cm3)                | Density (g/cm3)            | 0.998 to 1.4119  | 0.0001     | 0.0004    |
| 441     | Sucrose Baume (20°C)           | Baume (20°C)               | 0 to 42.5        | 0.01       | 0.05      |
| 439     | Sucrose Lbs. Solids / Gallon   | Lbs. Solids / Gallon       | 0.00 to 9.42     | 0.01       | 0.01      |
| 440     | Sucrose Plato                  | Plato                      | 0 to 30          | 0.1        | 0.1       |
| 438     | Sucrose Weight/Gallon          | Weight/Gallon              | 8.32 to 11.77    | 0.001      | 0.005     |
| 783     | Sulfuric Acid (D113/113°F)     | Specific Gravity (113°F)   | 1.000 to 1.399   | 0.001      | 0.001     |
| 784     | Sulfuric Acid (D131/131°F)     | Specific Gravity (131°F)   | 1.000 to 1.397   | 0.001      | 0.001     |



| Scale # | Scale                          | Unit of Measure            | Range            | Resolution | Precision |
|---------|--------------------------------|----------------------------|------------------|------------|-----------|
| 118     | Sulfuric Acid (D20/20)         | Specific Gravity (D20/20)  | 1.000 to 1.5012  | 0.001      | 0.001     |
| 832     | Sulfuric Acid (D30/30)         | Specific Gravity (D30/30)  | 1.00 to 1.491    | 0.001      | 0.001     |
| 780     | Sulfuric Acid (D50/50°F)       | Specific Gravity (50°F)    | 1.000 to 1.413   | 0.001      | 0.001     |
| 450     | Sulfuric Acid (D60/60°F)       | Specific Gravity (60°F)    | 1.000 to 1.502   | 0.001      | 0.001     |
| 781     | Sulfuric Acid (D77/77°F)       | Specific Gravity (77°F)    | 1.000 to 1.405   | 0.001      | 0.001     |
| 451     | Sulfuric Acid (D80/80°F)       | Specific Gravity (80°F)    | 1.000 to 1.496   | 0.001      | 0.001     |
| 782     | Sulfuric Acid (D95/95°F)       | Specific Gravity (95°F)    | 1.000 to 1.402   | 0.001      | 0.001     |
| 119     | Sulfuric Acid (g/cm3) 20 °C    | Density (g/cm3) 20 °C      | 0.998 to 1.496   | 0.001      | 0.001     |
| 117     | Sulfuric Acid % w/w            | % w/w                      | 0 to 60          | 0.1        | 0.1       |
| 179     | SW Conductivity 15 °C (mS/cm)  | Conductvty @ 15C (mS/cm)   | 0 to 89.9        | 0.1        | 0.5       |
| 178     | SW Conductivity 20 °C (mS/cm)  | Conductvty @ 20C (mS/cm)   | 0 to 100         | 0.1        | 0.5       |
| 386     | Triethylene Glycol (D 20/20)   | Specific Gravity (D 20/20) | 1.000 to 1.1255  | 0.0001     | 0.0002    |
| 387     | Triethylene Glycol (g/cm3)     | Density (g/cm3)            | 0.998 to 1.1235  | 0.0001     | 0.0002    |
| 692     | Triethylene Glycol (H2O % w/w) | % w/w                      | 0 to 100         | 0.1        | 0.12      |
| 382     | Triethylene Glycol % v/v       | % v/v                      | 0 to 100         | 0.1        | 0.12      |
| 383     | Triethylene Glycol % w/w       | % w/w                      | 0 to 100         | 0.1        | 0.12      |
| 385     | Triethylene Glycol Freeze °C   | Freeze Point °C            | 0 to -35         | 1          | 0.25      |
| 384     | Triethylene Glycol Freeze °F   | Freeze Point °F            | +32 to -31       | 1          | 0.5       |
| 388     | UCON Quenchant A % w/w         | % w/w                      | 0 to 35          | 0.1        | 0.1       |
| 390     | UCON Quenchant E % v/v         | % v/v                      | 0 to 75          | 0.1        | 0.1       |
| 391     | UCON Quenchant HT % v/v        | % v/v                      | 0 to 60          | 0.1        | 0.1       |
| 187     | Urea (g/cm3)                   | Density (g/cm3)            | 1.000 to 1.1313  | 0.001      | 0.00029   |
| 628     | Urea (mol/Liter)               | Molarity (mol/Liter)       | 0 to 8.6         | 0.01       | 0.02      |
| 629     | Urea (nD20)                    | Refractive Index (nD)      | 1.3330 to 1.4140 | 0.0001     | 0.0001    |
| 190     | Urea (ppt)                     | Parts Per Thousands (ppt)  | 0 to 460         | 1          | 1         |
| 185     | Urea % w/w                     | % w/w                      | 0 to 51          | 0.1        | 0.1       |
| 189     | Urea Freeze Point °C           | Freeze Point °C            | 0 to -17         | 1          | 0.1       |
| 188     | Urea Freeze Point °F           | Freeze Point °F            | +32 to 0         | 1          | 0.1       |
| 194     | Wine - ABV % v/v (OIV)         | % v/v                      | 0 to 30          | 0.1        | 0.25      |
| 122     | Wine (D20/20)                  | Specific Gravity (D20/20)  | 1.000 to 1.130   | 0.001      | 0.0005    |
| 196     | Wine (Mass Fraction) % m/m     | % m/m                      | 0 to 85          | 0.1        | 0.1       |
| 127     | Wine Babo                      | Babo                       | 0 to 25.2        | 0.1        | 0.1       |
| 120     | Wine Balling                   | Balling                    | 0 to 30          | 0.1        | 0.1       |
| 124     | Wine Baume (20°C)              | Baume (20°C)               | 0 to 16          | 0.1        | 0.1       |
| 123     | Wine Grape Must (kg/L)         | Grape Must Density (kg/L)  | 0.998 to 1.129   | 0.001      | 0.0005    |
| 126     | Wine KMW                       | KMW                        | 0 to 25.2        | 0.1        | 0.1       |
| 125     | Wine Oechsle                   | Oechsle                    | 0 to 129         | 1          | 0.5       |