# OPTi Digital Handheld Refractometer Scale List

| Index | Application | Scale | Units | Range | Resolution | Accuracy | ATC |
|---|---|---|---|---|---|---|---|
| 01 | **Primary** | °Brix (ATC) | | 0–95 | 0.1 | ±0.2 | °Brix |
| 02 | **Primary** | °Brix | | 0–95 | 0.1 | ±0.2 | None |
| 03 | **Primary** | Refractive Index (ATC) | | 1.33–1.53 | 0.0001 | ±0.0003 | °Brix |
| 04 | **Primary** | Refractive Index | | 1.33–1.53 | 0.0001 | ±0.0003 | None |
| 05 | **Automotive** | AdBlue®/DEF (NOx reduction) | % Weight / Weight | 0–40 | 0.1 | ±0.2 | AUS32 |
| 06 | **Automotive** | Ethylene Glycol | °C Freezing Point | 0 to -50 | 1 | ±1 | EG |
| 07 | **Automotive** | Ethylene Glycol | °F Freezing Point | 30 to -40 | 1 | ±1 | EG |
| 08 | **Automotive** | Propylene Glycol | °C Freezing Point | 0 to -50 | 1 | ±1 | PG |
| 09 | **Automotive** | Propylene Glycol | °F Freezing Point | 30 to -40 | 1 | ±1 | PG |
| 10 | **Food & Beverage** | °Butyro | | 0–100 | 0.1 | ±0.5 | Butyro |
| 11 | **Food & Beverage** | Fructose | % Weight / Weight | 0–85 | 0.1 | ±0.2 | °Brix |
| 12 | **Food & Beverage** | Glucose | % Weight / Weight | 0–85 | 0.1 | ±0.2 | °Brix |
| 13 | **Food & Beverage** | 42 HFCS (High Fructose Corn Syrup) | % Weight / Weight | 0–95 | 0.1 | ±0.2 | °Brix |
| 14 | **Food & Beverage** | 55 HFCS (High Fructose Corn Syrup) | % Weight / Weight | 0–95 | 0.1 | ±0.2 | °Brix |
| 15 | **Food & Beverage** | 90 HFCS (High Fructose Corn Syrup) | % Weight / Weight | 0–95 | 0.1 | ±0.2 | °Brix |
| 16 | **Food & Beverage** | Invert Sugar | % Weight / Weight | 0–85 | 0.1 | ±0.2 | °Brix |
| 17 | **Food & Beverage** | Maltose | % Weight / Weight | 0–60 | 0.1 | ±0.2 | °Brix |
| 18 | **Food & Beverage** | Salinity (NaCl) | % Weight / Volume | 0–28 | 0.1 | ±0.2 | NaCl |
| 19 | **Food & Beverage** | Total Solids of Waste Milk | % | 5–15 | 0.1 | ±0.5 | °Brix |
| 20 | **Food & Beverage** | Water in Honey | % Weight / Weight | 10–30 | 0.1 | ±0.2 | Honey |
| 21 | **Industrial** | Arbitrary | | 0-95 | 0.1 | ±0.2 | |
| 22 | **Industrial** | Calcium Chloride | % Weight / Weight | 0–40 | 0.1 | ±0.2 | CaCl2 |
| 23 | **Industrial** | Ethanol | % Volume / Volume | 0–20 | 0.5 | ±1 | Ethanol |
| 24 | **Industrial** | Ethylene Glycol | % Volume / Volume | 0–60 | 0.1 | ±0.4 | EG |
| 25 | **Industrial** | Ethylene Glycol | % Weight / Weight | 0–60 | 0.1 | ±0.4 | EG |
| 26 | **Industrial** | FSII DiEGME (ASTM D 5006) | % Volume / Volume | 0.0–0.25 | 0.01 | ±0.02 | °Brix |
| 27 | **Industrial** | Hydrogen Peroxide | % Weight / Weight | 0–50 | 0.2 | ±0.5 | °Brix |
| 28 | **Industrial** | Methanol | % Weight / Weight | 0–40 | 1 | ±0.2 | Meth |
| 29 | **Industrial** | Propylene Glycol | % Volume / Volume | 0–60 | 0.1 | ±0.4 | PG |
| 30 | **Industrial** | Sodium Sulphate | % Weight / Weight | 0–22 | 0.1 | ±0.2 | Na2SO4 |
| 31 | **Industrial** | Starch | % | 0–30 | 0.1 | ±0.2 | °Brix |
| 32 | **Industrial** | Sulphuric Acid (Battery Acid) | Specific Gravity (d20/20) | 1.000–1.501 | 0.001 | ±0.003 | SA |
| 33 | **Industrial** | Urea (CRC data) | % Weight / Weight | 0–40 | 0.1 | ±0.2 | AUS32 |
| 34 | **Life Science** | Colostral Quality | | Poor / PASS | Poor / PASS | ±0.2 | °Brix |
| 35 | **Life Science** | Seawater (Practical Salt Units) | Part Per Thousand | 0–180 | 1 | ±1 | NaCl |
| 36 | **Life Science** | Seawater (Practical Salt Units) | Specific Gravity (d20/20) | 1.000–1.090 | 0.0005 | ±0.001 | NaCl |
| 37 | **Life Science** | Serum Protein | g/100ml | 0–30 | 0.1 | ±0.2 | °Brix |

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|---|---|---|---|---|---|---|---|
| **38** | **Life Science** | Urine (SG) Human | Specific Gravity (d20/20) | 1.000–1.050 | 0.0005 | ±0.0010 | °Brix |
| **39** | **Life Science** | Urine (SG) Large Mammal | Specific Gravity (d20/20) | 1.000–1.050 | 0.0001 | ±0.0010 | °Brix |
| **40** | **Life Science** | Urine (SG) Small Mammal | Specific Gravity (d20/20) | 1.000–1.050 | 0.0005 | ±0.0010 | °Brix |
| **41** | **Wine & Beer** | °Baumé | | 0–50 | 0.1 | ±0.2 | °Brix |
| **42** | **Wine & Beer** | °Zeiss (ABV) | % Volume / Volume | 10–135 | 0.1 | ±0.5 | °Brix |
| **43** | **Wine & Beer** | Alcohol Probable (AP) | | 0–22 | 0.1 | ±0.2 | °Brix |
| **44** | **Wine & Beer** | KMW (Babo) | | 0–25 | 1 | ±1 | °Brix |
| **45** | **Wine & Beer** | Oechsle (German) | | 30–130 | 1 | ±1 | °Brix |
| **46** | **Wine & Beer** | Oechsle (Swiss) | | 0–130 | 1 | ±1 | °Brix |
| **47** | **Wine & Beer** | °Plato | | 0–30 | 0.1 | ±0.2 | °Brix |
| **48** | **Wine & Beer** | Mass Sugar (°Brix) (ATC) | % Weight / Weight | 0–95 | 0.1 | ±0.2 | °Brix |
| **49** | **Wine & Beer** | Mass Sugar (°Brix) | % Weight / Weight | 0–95 | 0.1 | ±0.2 | None |
| **50** | **Wine & Beer** | Wort (Sucrose Equivalent) | Specific Gravity (d20/20) | 1.000–1.120 | 0.0005 | ±0.001 | °Brix |