

Refractometer Standards



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SCHMIDT + HAENSCH instruments comply with a multitude of international standards and norms. Depending on which standards are relevant to you, you can navigate our instrument portfolio according to applicable standards and norms.*

Or contact us directly! Our experts are happy to find or develop a solution tailored to your needs.

* listed standards and norms are exemplary applications for SCHMIDT + HAENSCH instruments. Liability is only granted once specific application and correct use of instrument has been thoroughly validated by SCHMIDT + HAENSCH. Please speak to our instrument qualification team for specific requests on norm and standard updates: sales@schmidt-haensch.de

ORGANIZATION	TITLE	SUGGESTED MEASURING DEVICE
21 CFR Part 11	Documentation and system validation of United States Food and Drug Administration (FDA) regulations	VariRef
AOAC 896.02	Sucrose in sugar and syrups	ATR-P
AOAC 898.02	Physical Constants of 10 per cent distillate of lemon and orange oils	VariRef
AOAC 905.01	Methanol in Distilled Liquors - Immersion refractometer method	ATR-P
AOAC 908.01	Percent Alcohol by Volume in Distilled Liquors	ATR-P
AOAC 920.141	Refractive index of lemon and orange oils	VariRef
AOAC 920.58	Alcohol in wines - By volume from refraction (rapid method)	ATR-P
AOAC 920.78	Index of refraction of cacao fat	VariRef
AOAC 921.08	Index of refraction of oils and fats	VariRef
AOAC 932.12	Solids (soluble) in fruits and fruit products	ATR-P
AOAC 932.14	Solids in syrups	ATR-P
AOAC 940.06	Methanol in Cordials and Liqueurs	ATR-P
AOAC 940.09	Total Solids in Cordials and Liqueurs	ATR-P
AOAC 940.16	Volatile esters in cordials and liqueurs	ATR-P
AOAC 943.05	Dry substance in corn syrups and sugars	ATR-P



ORGANIZATION	TITLE	SUGGESTED MEASURING DEVICE
AOAC 945.102	Oil (mineral) in fats	ATR-BR
AOAC 948.10	Water (added) in milk	ATR-P
AOAC 950.04	Alcohol by volume in distilled liqueurs	ATR-P
AOAC 950.06	Fermentation of beer	ATR-P
AOAC 950.13	Alcohol in nonalcoholic beverages	ATR-P
AOAC 953.16	Fruit Content (Approximate) of Frozen Fruit-Sugar Mixtures	ATR-P
AOAC 960.57	Crystalline substances	VariRef
AOAC 969.18	Refractive Index of Butterfat	ATR-P
AOAC 969.38	Moisture in honey	ATR-P
AOAC 970.15	Alcohol (by weight) in beer - Refractometer method	ATR-P
AOAC 970.59	Solids (soluble) in tomato products	ATR-P
AOAC 973.65	Characterization and matching of glass fragments	ATR-L
AOAC 976.20	Solids (Soluble) in Frozen Concentrate for Lemonade	ATR-P
AOAC 983.01	Urea and methyleneureas (Water-soluble) in fertilizers	VariRef
AOAC 983.17	Solids (Soluble) in Citrus Fruit Juices	ATR-P
AOAC 995.17	Beet sugars in fruit juices	ATR-P
AOAC 2000.19	Beet or cane sugar in maple syrup	ATR-P
AOCS Tp 1a-64	Refractive Index of Drying Oils	VariRef
ASTM D542	Standard Test Method for Index of Refraction of Transparent Organic Plastics	ATR-L
ASTM D5775	Standard Test Method for Rubber—Determination of Bound Styrene in Styrene Butadiene Rubber by Refractive Index	ATR-L



ORGANIZATION	TITLE	SUGGESTED MEASURING DEVICE
ASTM D1218	Standard Test Method for Refractive Index and Refractive Dispersion of Hydrocarbon Liquids	ATR-L
ASTM D1747	Standard Test Method for Refractive Index of Viscous Materials	ATR-P
ASTM D3321	Standard Test Method for Use of the Refractometer for Field Test Determination of the Freezing Point of Aqueous Engine Coolants	VariRef
ASTM D4095	Standard Practice for Use of the Refractometer for Determining Nonvolatile Matter (Total Solids) in Floor Polishes	VariRef
ASTM D4542	Standard Test Methods for Pore Water Extraction and Determination of the Soluble Salt Content of Soils by Refractometer	ATR-BR
ASTM D5006	Standard Test Method for Measurement of Fuel System Icing Inhibitors (Ether Type) in Aviation Fuels	VariRef
ASTM D524	Standard Test Method for Ramsbottom Carbon Residue of Petroleum Products	VariRef
DIN 51423-2	Testing of mineral oils - Part 2: Measurement of the relative refractive index with the Abbe-refractometer Prüfung von Mineralölen - Teil 2: Messung der relativen Brechzahl mit dem Abbe-Refraktometer	ATR-L
EHC Harmonised methods of the European Honey Commission 1997	Determination of moisture, refractometric method	VariRef
ICUMSA GS4/3-13	The Determination of Refractometric Dry Substance (RDS%) of Molasses – Accepted and Very Pure Syrups (Liquid Sugars), Thick Juices and Run-off Syrups	ATR-P
ICUMSA GS4/3/8-13	The Determination of Refractometric Dry Substance (RDS %) of Molasses - Accepted and Very Pure Syrups (Liquid Sugars), Thick Juice and Run-off Syrups-Official	ATR-P, Purity Analyzer®
ISI 06-1e	Determination of Dry Matter in Syrup by Refractive Index	VariRef
ISO 1743:1982	Glucose Syrup – Determination of dry matter content – Refractive index method	ATR-P



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ORGANIZATION	TITLE	SUGGESTED MEASURING DEVICE
ISO8036	Microscopes — Immersion liquids for light microscopy	VariRef
OIML R 108	Refractometers for the measurement of the sugar content of fruit juices	ATR-P
OIV MA-AS2-02:	Evaluation by refractometry of the sugar concentration in grape musts, concentrated grape musts and rectified concentrated grape musts	ATR-P
OIV MA-AS312-01B	Alcoholic strength by volume - Measurement of the alcoholic strength of the distillate by refractometry	VariRef
Ph. Eur. 7th Edition-2.2.7	Refractive Index	VariRef
USP 831	Refractive Index	VariRef
Australian Standard K157	Australian Standards (AS) compliant	PolarTonic® V, Saccharomat® V
AS 4185	Determination of sucrose content of sugar cane juices, sugars and sugar mill products	Saccharomat® V, Purity Analyzer®
EU Pharmacopoeia	Compliant with European pharmaceutical quality standards	VariRef
US Pharmacopoeia	Compliant with US-American pharmaceutical quality standards	VariRef
JP 17 2 56 Pharmacopoeia	Compliant with Japanese pharmaceutical quality standards	VariRef
Chinese Pharmacopoeia	Compliant with Chinese pharmaceutical quality standards	VariRef

