

Density Meter Standards



**SCHMIDT
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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	VariDens
AOAC 945.102	Oil (Mineral) in Fat	VariDens
AOAC 982.10	Alcohol by Volume in Distilled Liquor	VariDens
AOAC 983.12	Alcohol by Volume in Liqueurs and Alcoholic Dairy Products	VariDens
AOAC 988.06	Specific Gravity of Beer and Wort	VariDens
AOAC 992.29 Ethanol and Original Gravity Content in Beer	Ethanol and Original Gravity Content in Beer	VariDens
ASBC Beer-2B	Specific Gravity by digital density meter (1978)	VariDens
ASBC Beer-4B	Instrumental method for alcohol and original gravity content (1989)	VariDens
ASBC Beer-5A&B	Real Extract — Beer measured volumetrically & gravimetrically (1958)	VariDens
ASBC Wort-2	Specific Gravity by digital density meter (2011)	VariDens
ASTM 7961	Standard Practice for Calibrating U-tube Density Cells over Large Ranges of Temperature and Pressure	VariDens
ASTM D1250	Standard Guide for Use of the Petroleum Measurement Tables ASTM D1250-08:2013 Standard Guide for Use of the Petroleum Measurement Tables	VariDens

Can't find your international norm and standard? - To receive updates on current standards, please contact sales@schmidt-haensch.de



ORGANIZATION	TITLE	SUGGESTED MEASURING DEVICE
ASTM D1475	Standard Test Method For Density of Liquid Coatings, Inks, and Related Products	VariDens
ASTM D2501	Standard Test Method for Calculation of Viscosity-Gravity Constant (VGC) of Petroleum Oils	VariDens
ASTM D4052	Standard Test Method for Density, Relative Density and API Gravity of Liquids by Digital Density Meter	VariDens
ASTM D4806	Standard Specification for Denatured Fuel Ethanol for Blending with Gasolines for Use as Automotive Spark-Ignition Engine Fuel	VariDens
ASTM D5002	Method for Density and Relative Density of Crude Oils by Digital Density Analyzer	VariDens
ASTM D5931	Standard Test Method for Density and Relative Density of Engine Coolant Concentrates and Aqueous Engine Coolants by Digital Density Meter	VariDens
ASTM D6448	Standard Specification for Industrial Burner Fuels from Used Lubricating Oils	VariDens
ASTM D8188	Standard Test Method for Determination of Density and Relative Density of Asphalt, Semi-Solid Bituminous Materials, and Soft-Tar Pitch by Use of a Digital Density Meter (U-Tube)	VariDens
ABNT NBR 14065	Petroleum distillates and viscous oils - Determination of specific gravity and relative density by digital densimeter	VariDens
ABNT NBR 15639	Fuel ethanol - Determination of specific mass and alcohol content by bench top digital densimeter	VariDens
ASTM D6448 - 16	Standard Specification for Industrial Burner Fuels from Used Lubricating Oils	VariDens
ASTM D7777-13	Standard Test Method for Density, Relative Density, or API Gravity of Liquid Petroleum by Portable Digital Density Meter	VariDens
CPTC SH/T 0604-2000 (eqv. ISO 12185)	(eqv. ISO 12185) Crude petroleum and petroleum products. Determination of density. Oscillating U-tube method	VariDens



ORGANIZATION	TITLE	SUGGESTED MEASURING DEVICE
DIN 51423	Testing of mineral oils — Part 2: Measurement of the relative refractive index with the Abbe-refractometer	VariDens
DIN 51757	Testing of mineral oils and related materials - Determination of density	VariDens
EBC 1.6 (Apparatus)	Care and Adjustment of Apparatus: Density Meters	VariDens
EBC 8.2.2 (Wort)	Specific Gravity of Wort using a Density Meter	VariDens
EBC 9.43.2 (Beer)	Specific Gravity of Beer using a Density Meter	VariDens
EI IP 365	Crude petroleum and petroleum products — Determination of density — Oscillating U-tube method	VariDens
EI IP559	Determination of density of middle distillate fuels - Hand held oscillating U-tube density meter method	VariDens
EU Commission Reg. (EC) No 2676	Determining Community methods for the analysis of wines	VariDens
EU Commission Reg. (EC) No 2870	Laying down Community reference methods for the analysis of spirits drinks	VariDens
EU Commission Reg. (EC) No 128	Amending Regulation (EEC) No 2676/90 determining Community methods for the analysis of wines	VariDens
EU Commission Reg. (EC) No 355	Amending Regulation (EEC) No 2676/90 determining Community methods for the analysis of wines	VariDens
GB 23971	Heat transfer fluids	VariDens
GB 5009.225	National Food Safety Standard - Determination of ethanol concentration	VariDens
GBT 11540	Fragrance/flavor substances – Determination of relative density	VariDens
GBT 11857	Whisky	VariDens
GB 13531	General Methods on Determination of Cosmetics -	VariDens
GB 15531-4	Determination of pH	VariDens



ORGANIZATION	TITLE	SUGGESTED MEASURING DEVICE
GB T2013	Standard test method for density of liquid petrochemical products	VariDens
GB 21862.3	Paints and varnishes. Determination of densi. Part 3: Oscillation method	VariDens
GB T22731	Fragrance compound	VariDens
GB T 29617	Determination of density, relative density, and API gravity of liquids by digital density meter	VariDens
GB T 4928	Method for analysis of beer	VariDens
HGT 4067	Cell liquor of lithium hexafluorophosphate	VariDens
IP 365	Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method	VariDens
ISO 12185	Crude petroleum and petroleum products — Determination of density — Oscillating U-tube method	VariDens
ISO 14214	Liquid petroleum products — Fatty acid methyl esters (FAME) for use in diesel engines and heating applications — Requirements and test methods	VariDens
ISO 15212-2	Oscillation-type density meters — Part 1: Laboratory instruments	VariDens
ISO ISO 15212-1	Animal and vegetable fats and oils — Determination of conventional mass per volume (litre weight in air) — Oscillating U-tube method	VariDens
ISO 18301	Paints and varnishes — Determination of density — Part 3: Oscillation method	VariDens
ISO 2811-3	Method for density and specific gravity measurement of chemical products	VariDens
JJF 1070	Rules of Metrological Testing for Net Quantity of Products in Prepackages with Fixed Content	VariDens
JIS K 0061	Crude Petroleum And Petroleum Products — Determination Of Density — Part 1: Oscillating U-tube Method	VariDens



ORGANIZATION	TITLE	SUGGESTED MEASURING DEVICE
JIS K 2249	International Alcoholometric Tables — Determination of Volume of ethanol-water solution	VariDens
OIML R 22	Total dry matter	VariDens
OIV MA-AS2-03B MA-AS2-01A	Reference method for the determination of real alcoholic strength by volume of spirit drinks of viti-vinicultural origin: measurement by electronic densimetry	VariDens
OIV MA-BS-04	Relative density	VariDens
OIV MA-BS-06	Density of alcohols and alcoholic beverages method for determining electronic densimetry (principle based on measuring the period of oscillation)	VariDens
SH 0604-2000	Crude petroleum and petroleum products-Determination of density-Oscillating U-tube method	VariDens
Ph. Eur. 9th Edition-2.2.5	Specific Gravity	VariDens
USP 841	Australian Standards (AS) compliant	VariDens
Australian Standard K157	Determination of sucrose content of sugar cane juices, sugars and sugar mill products	VariDens
AS 4185	Polarimeters - Sugar - Automatic standard by Standards Australia, 01/01/1994	VariDens
EU Pharmacopoeia	Compliant with European pharmaceutical quality standards	VariDens
US Pharmacopoeia	Compliant with US-American pharmaceutical quality standards	VariDens
JP 17 2 56 Pharmacopoeia	Compliant with Japanese pharmaceutical quality standards	VariDens
Chinese Pharmacopoeia 2020	Compliant with Chinese pharmaceutical quality standards	VariDens
QBT 1858.1	Florida water	VariDens
QBT 2660	Skin tonic	VariDens