

TECHNICAL DATA

SCALES	Density [g/cm ³], Relative Density, Brix [%Brix], Concentration of alcohol [vol%], Concentration of sulphuric acid [wt%] User-defined
MEASUREMENT RANGE	0–3 g/cm ³
MEASUREMENT ACCURACY	DS7700: ±0.001 g/cm ³ ; DS7800: ±0.0001 g/cm ³
MEASUREMENT PERIOD	Typically 1–3 minutes including temperature control
SAMPLE VOLUME IN CASE OF MANUAL INJECTION	0.9 ml
AMBIENT TEMPERATURE	10–40 °C
TEMPERATURE CONTROL RANGE	10–40 °C
TEMP. MEASUREMENT ACCURACY	±0.02 °C
METHODS	A practically unlimited number of methods can be set
MANUFACTURER'S CALIBRATION	With air and water at 9 temperatures each
ADJUSTMENT	Automatic (menu-driven), with dried air and distilled water
CONTROL	7.0" capacitive touchscreen, 800 x 480 pixels
HOUSING	Aluminium cast, powder-coated
INTERFACES	1x USB, 1x RS-232, 1x Ethernet
OPERATING VOLTAGE	100–240 V, 47–63 Hz
POWER CONSUMPTION (OPERATION)	25 W
POWER CONSUMPTION (MAX.)	120 W
DIMENSIONS (W X H X D)	220 mm x 220 mm x 430 mm
WEIGHT	5.3 kg

Version 4.3 | Status: June 2022 | Subject to modifications and errors.

OVERVIEW OF DENSITY METER SETS AND CONSUMABLES

ORDER NUMBER	SETS AND SET COMPONENTS
DS7700-1/DS7800-1	SET 1 FOR MANUAL SAMPLE SUPPLY, CONSISTING OF:
DS7700 or DS7800	Density meter with glass U-tube oscillator, measurement accuracy $\pm 0.001 \text{ g/cm}^3$ or $\pm 0.0001 \text{ g/cm}^3$
DS7050	Drying unit with 2/2-way valve
DS7001	Tygon tube set for use with Luer syringe, consisting of: air tube (320 mm); waste tube (320 mm); tube connection Luer, 2 pieces
DS7005	Luer nozzle, 2 pieces
DS7009	Luer syringe, 2 ml, 10 pieces
DS7010	Luer syringe, 10 ml, 10 pieces
DS7019	PE waste container with lid, 600 ml
DS7700-2/DS7800-2	SET 2 FOR MANUAL SAMPLE SUPPLY, CONSISTING OF:
DS7700 or DS7800	Density meter with glass U-tube oscillator, measurement accuracy $\pm 0.001 \text{ g/cm}^3$ or $\pm 0.0001 \text{ g/cm}^3$
DS7050	Drying unit with 2/2-way valve
DS7001	Tygon tube set for use with Luer syringe, consisting of: air tube (320 mm); waste tube (320 mm); tube connection Luer, 2 pieces
DS7003	PTFE tube set for use with Luer syringe, consisting of: drain tube (400 mm); waste tube (280 mm); PEEK hollow screw, flanged and mounted, 3 pieces
DS7020	PTFE splash guard
DS7021	Adaptor olive/UNFa for sample discharge through Tygon tube via UNF nozzle
DS7007	Luer, UNF nozzle, 1 piece each
DS7009	Luer syringe, 2 ml, 10 pieces
DS7010	Luer syringe, 10 ml, 10 pieces
DS7019	PE waste container with lid, 600 ml
DS7700-3/DS7800-3	SET 3 FOR SEMI-AUTOMATIC SAMPLE SUPPLY, CONSISTING OF:
DS7700 or DS7800	Density meter with glass U-tube oscillator, measurement accuracy $\pm 0.001 \text{ g/cm}^3$ or $\pm 0.0001 \text{ g/cm}^3$
DS7060	Drying unit with 3/2-way valve
DS7070	Peristaltic pump
DS7002	Tygon tube set for use with drying unit DS7060, consisting of: suction tube (320 mm); drain tube (320 mm); air tube (320 mm); waste tube (320 mm); tube connection Luer, 3 pieces
DS7072	Tube set for peristaltic pump DS7070, consisting of: TPE pump tube (105 mm), 5 pieces; PTFE tube connection (olive), 2 pieces
DS7005	Luer nozzle, 2 pieces
DS7009	Luer syringe, 2 ml, 10 pieces
DS7010	Luer syringe, 10 ml, 10 pieces
DS7019	PE waste container with lid, 600 ml
DS7700-4/DS7800-4	SET 4 FOR FULLY AUTOMATIC SAMPLE SUPPLY, CONSISTING OF:
DS7700 or DS7800	Density meter with glass U-tube oscillator, measurement accuracy $\pm 0.001 \text{ g/cm}^3$ or $\pm 0.0001 \text{ g/cm}^3$
DS7060	Drying unit with 3/2-way valve
DS7070	Peristaltic pump
AS80 or AS90	Autosampler for 18 or 36 samples, including: sample plate 18x 50 ml (42 mm x 43 mm) or 36x 30 ml (28 mm x 65 mm) set polypropylene vials (50 ml) or glass vials (30 ml); other vials on request PTFE connecting tube or Autosampler for 53 or 89 samples, including: sample plate 53x 16 ml (22 mm x 55 mm) or 89x 6 ml (16 mm x 55 mm) set polypropylene vials (16 or 6 ml); other vials on request PTFE connecting tube
DS7002	Tygon tube set for use with drying unit DS7060, consisting of: suction tube (320 mm); drain tube (320 mm); air tube (320 mm); waste tube (320 mm); tube connection Luer, 3 pieces
DS7072	Tube set for peristaltic pump DS7070, consisting of: TPE pump tube (105 mm), 5 pieces; PTFE tube connection (olive), 2 pieces
DS7021 (2x)	Adaptor olive/UNFa for connecting the Tygon tubes to the drying unit DS7060
DS7022 (optional)	Adaptor UNFi/Luer for the sample supply with autosampler AS80 or AS90 via Luer nozzle
DS7005	Luer nozzle, 2 pieces
DS7009	Luer syringe, 2 ml, 10 pieces
DS7010	Luer syringe, 10 ml, 10 pieces
DS7019	PE waste container with lid, 600 ml

OVERVIEW OF DENSITY METER SETS AND CONSUMABLES

DS7700-5/DS7800-5	SET 5 FOR FULLY AUTOMATIC SAMPLE SUPPLY, CONSISTING OF:
DS7700 or DS7800	Density meter with glass U-tube oscillator, measurement accuracy $\pm 0.001 \text{ g/cm}^3$ or $\pm 0.0001 \text{ g/cm}^3$
DS7060	Drying unit with 3/2-way valve
DS7070	Peristaltic pump
AS80 or AS90	Autosampler for 18 or 36 samples, including: sample plate 18x 50 ml (42 mm x 43 mm) or 36x 30 ml (28 mm x 65 mm) set polypropylene vials (50 ml) or glass vials (30 ml); other vials on request PTFE connecting tube or Autosampler for 53 or 89 samples, including: sample plate 53x 16 ml (22 mm x 55 mm) or 89x 6 ml (16 mm x 55 mm) set polypropylene vials (16 or 6 ml); other vials on request PTFE connecting tube
DS7004	PTFE tube set for use with drying unit DS7060, consisting of: suction tube (280 mm); drain tube (400 mm); connecting tube (340 mm); waste tube (280 mm); PEEK hollow screw, flanged and mounted, 6 pieces
DS7071	Tube set for peristaltic pump DS7070, consisting of: TPE pump tube (105 mm), 5 pieces; PTFE tube connection UNF, 2 pieces
DS7023	Adaptor Luer/UNFa for the sample supply with syringe via UNF nozzle
DS7006	UNF nozzle, 2 pieces
DS7009	Luer syringe, 2 ml, 10 pieces
DS7010	Luer syringe, 10 ml, 10 pieces
DS7019	PE waste container with lid, 600 ml

ORDER NUMBER	CALIBRATION LIQUIDS
DS7011	DAkKS-certified density standard high-purity water, 0.9982 g/cm^3 at $20 \text{ }^\circ\text{C}$, 10 ml
DS7012	DAkKS-certified density standard isooctane, 0.6900 g/cm^3 at $20 \text{ }^\circ\text{C}$, 10 ml
DS7013	DAkKS-certified density standard n-nonane, 0.7200 g/cm^3 at $20 \text{ }^\circ\text{C}$, 10 ml
DS7014	DAkKS-certified density standard dichlorotoluene, 1.2500 g/cm^3 at $20 \text{ }^\circ\text{C}$, 10 ml

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DENSITY SAMPLES



Sorted by value		T [°C]	Alphabetical order	
ρ [kg/dm ³]	SAMPLES		SAMPLES	ρ [kg/dm ³]
0.621	Pentane	20	Acetic acid	1.049
0.640	Fumaric acid	20	Acetone	0.799
0.654	Hexane	20	Acetonitrile	0.783
0.684	Heptane	20	Acetonylacetone	0.971
0.699	1-Heptene	20	Acetophenone	1.026
0.703	Octane	20	Acetyl chloride	1.103
0.714	Diethyl ether	20	Acetylacetone	0.970
0.718	1-Octene	20	Acrolein	0.841
0.733	1-Nonene	20	1-Bromopentane	1.223
0.743	1-Decene	20	Aniline	1.022
0.747	Di-n-propyl ether	20	Benzaldehyde	1.046
0.752	1-Undecene	20	Benzene	0.878
0.764	Methylcyclohexane	20	Benzyl alcohol	1.045
0.779	Cyclohexane	20	Benzyl chloride	1.098
0.780	1-Pentadecene	20	Benzylacetone	0.989
0.783	Acetonitrile	20	Bromoform	2.890
0.789	tert-Butanol	20	Butyric acid	0.959
0.789	Ethanol	20	Caproic acid	0.929
0.792	Methanol	20	Caprylic acid	0.910
0.799	Acetone	20	Carbon disulfide	1.174
0.800	Methyl isobutyl ketone (MIBK)	20	Carvacrol	0.976
0.802	Isobutanol	20	Caustic hypochlorite	1.220
0.804	1-Propanol	20	Chlorobenzene	1.107
0.805	Cyclopentadiene	20	Chlorocyclohexane	1.000
0.805	Methyl ethyl ketone (MEK)	20	Chloroform	1.489
0.810	1-Butanol	20	cis-1,2-Dichloroethylene	1.282
0.810	Kerosene	20	cis-1,2-Dibromoethylene	2.246
0.811	Cyclohexene	20	Citral	0.893



DENSITY SAMPLES



Sorted by value		T [°C]	Alphabetical order	
ρ [kg/dm ³]	SAMPLES		SAMPLES	ρ [kg/dm ³]
0.814	3-Heptanone	20	Crotonaldehyde	0.856
0.816	1-Pentanol	20	Cyclohexane	0.779
0.820	1-Hexanol	20	Cyclohexanol	0.962
0.823	1-Heptanol	20	Cyclohexanone	0.949
0.826	Dimethylamine solution 60 % (DMA)	20	Cyclohexene	0.811
0.827	1-Octanol	20	Cyclohexylamine	0.896
0.828	1-Nonanol	20	Cyclopentadiene	0.805
0.829	1-Decanol	20	Dichloromethane	1.336
0.841	Acrolein	20	Diethyl ether	0.714
0.850	Mesityl oxide	20	Diethylaniline	0.934
0.853	Lemon oil	20	Dimethylacetamide 90 %	0.940
0.856	Crotonaldehyde	20	Dimethylamine solution 60 % (DMA)	0.826
0.860	Piperidine	20	Dimethylaniline	0.956
0.863	Linalool	20	Dimethylformamide (DMF)	0.948
0.863	Mesitylene	20	Di-n-propyl ether	0.747
0.863	p-Xylene	20	1-Decene	0.743
0.866	1-Chlorodecane	20	Enanthic acid	0.922
0.868	Ethylbenzene	20	Ethanol	0.789
0.868	1,2,4-Trimethylbenzene (Pseudocumene)	20	Ethyl acetate	0.900
0.870	Toluene	20	Ethyl iodid	1.940
0.871	m-Xylene	20	Ethylbenzene	0.868
0.872	1-Chlorohexane	20	Ethylen bromide	2.180
0.872	1-Chlorooctane	20	Ethylenglycole	1.115
0.878	Benzene	20	Formanide	1.139
0.878	Isopropylbenzene (Cumene)	20	Formic acid	1.212
0.884	1-Chlorobutane	20	Fumaric acid	0.640
0.887	Hemellitol	20	Glycerol	1.261
0.891	Propyl acetate	20	Hemellitol	0.887

DENSITY SAMPLES



Sorted by value			Alphabetical order	
ρ [kg/dm ³]	SAMPLES	T [°C]	SAMPLES	ρ [kg/dm ³]
0.893	Citral	20	Heptane	0.684
0.896	Cyclohexylamine	20	Hexamethylenediamine adipinat	1.201
0.900	Ethyl acetate	20	Hexane	0.654
0.900	Methylamine solution 40 % (MMA)	20	Indene	0.998
0.910	Caprylic acid	20	Iodobenzene	1.830
0.922	Enanthic acid	20	Iron(II) sulfate heptahydrate	1.900
0.929	Caproic acid	20	Isobutanol	0.802
0.934	Diethylaniline	20	Isopropylbenzene (Cumene)	0.878
0.940	Dimethylacetamide 90 %	20	Kerosene	0.810
0.942	Vinyl acetate (VyAc)	20	Lemon oil	0.853
0.948	Dimethylformamide (DMF)	20	Linalool	0.863
0.949	Cyclohexanone	20	Lithium chloride	2.068
0.956	Dimethylaniline	20	Mercury	13.595
0.959	Butyric acid	20	Mesityl oxide	0.850
0.962	Cyclohexanol	20	Mesitylene	0.863
0.967	Tetralin	20	Methanol	0.792
0.970	Acetylacetone	20	Methyl diethanolamin (MDEA)	1.040
0.971	Acetylacetone	20	Methyl ethyl ketone (MEK)	0.805
0.976	Carvacrol	20	Methyl iodide	2.279
0.984	N-Methylaniline	20	Methyl isobutyl ketone (MIBK)	0.800
0.989	Benzylacetone	20	Methylamine solution 40 % (MMA)	0.900
0.992	Propionic acid	20	Methylcyclohexane	0.764
0.994	Paraldehyde	20	m-Toluidine	0.998
0.998	Indene	20	m-Xylene	0.871
0.998	m-Toluidine	20	N-Benzyl-N-ethylaniline	1.029
0.998	o-Toluidine	20	Nicotine	1.009
0.998	Water	20	Nitro benzene	1.207
1.000	Chlorocyclohexane	20	Nitro methane	1.139



DENSITY SAMPLES



Sorted by value		T [°C]	Alphabetical order	
ρ [kg/dm ³]	SAMPLES		SAMPLES	ρ [kg/dm ³]
1.009	Propiophenone (Ethyl phenyl ketone)	20	3-Nitrotoluene	1.157
1.009	Nicotine	20	2-Nitrotoluene	1.163
1.022	Aniline	20	N-Methylaniline	0.984
1.026	Acetophenone	20	Octane	0.703
1.029	N-Benzyl-N-ethylaniline	20	1-Bromooctane	1.166
1.038	1,4-Dioxane	20	o-Toluidine	0.998
1.040	Methyl diethanolamin (MDEA)	20	Paraldehyde	0.994
1.045	Benzyl alcohol	20	Pentachloroethane	1.672
1.046	Benzaldehyde	20	Pentane	0.621
1.049	Acetic acid	20	Phenylhydrazine	1.098
1.064	Thiophene	20	Phthalic anhydride	1.527
1.066	4-Chlorotoluene	20	Piperidine	0.860
1.069	Quinaldine	20	Propionic acid	0.992
1.070	3-Chlorotoluene	20	Propiophenone (Ethyl phenyl ketone)	1.009
1.093	Quinoline	20	Propyl acetate	0.891
1.098	Benzyl chloride	20	p-Xylene	0.863
1.098	Phenylhydrazine	20	Pyruvic acid	1.267
1.103	Acetyl chloride	20	Quinaldine	1.069
1.107	Chlorbenzene	20	Quinoline	1.093
1.115	Ethylenglycole	20	Sodium hydroxide solution (Caustic soda)	1.430
1.139	Formanide	20	Sulfuric acid 90 %	1.810
1.139	Nitro methane	20	tert-Butanol	0.789
1.157	3-Nitrotoluene	20	Tetrabromomethane	2.963
1.163	2-Nitrotoluene	20	Tetrachloroethylene	1.614
1.166	1-Bromooctane	20	Tetralin	0.967
1.174	Carbon disulfide	20	Thiophene	1.064
1.201	Hexamethylenediamine adipinat	20	Toluene	0.870
1.207	Nitro benzene	20	trans-1,2-Dibromoethylene	2.231



DENSITY SAMPLES



Sorted by value		Alphabetical order		
ρ [kg/dm ³]	SAMPLES	T [°C]	SAMPLES	ρ [kg/dm ³]
1.212	Formic acid	20	trans-1,2-Dichloroethylene	1.257
1.220	Caustic hypochlorite	20	Tribromoacetaldehyde (Bromal)	2.550
1.223	1-Bromopentane	20	Vinyl acetate (VyAc)	0.942
1.253	1,2-Dichlorethane	20	Water	0.998
1.257	trans-1,2-Dichloroethylene	20	1,1,2,2-Tetrabromoethane	2.970
1.261	Glycerol	20	1,2,4-Trichlorobenzene	1.477
1.267	Pyruvic acid	20	1,2,4-Trimethylbenzene (Pseudocumene)	0.868
1.275	1-Bromobutane	20	1,2-Dichlorethane	1.253
1.282	cis-1,2-Dichloroethylene	20	1,2-Dichlorobenzene	1.305
1.296	2-Nitroethanol	20	1,4-Dioxane	1.038
1.305	1,2-Dichlorobenzene	20	1-Bromobutane	1.275
1.336	Dichloromethane	20	1-Bromonaphthalene	1.487
1.430	Sodium hydroxide solution (Caustic soda)	20	1-Butanol	0.810
1.441	1-Iodoheptane	20	1-Chlorobutane	0.884
1.477	1,2,4-Trichlorobenzene	20	1-Chlorodecane	0.866
1.487	1-Bromonaphthalene	20	1-Chlorohexane	0.872
1.489	Chloroform	20	1-Chlorooctane	0.872
1.527	Phthalic anhydride	20	1-Decanol	0.829
1.614	1-Iodobutane	20	1-Heptanol	0.823
1.614	Tetrachloroethylene	20	1-Heptene	0.699
1.672	Pentachloroethane	20	1-Hexanol	0.820
1.747	1-Iodopropane	20	1-Iodobutane	1.614
1.810	Sulfuric acid 90 %	20	1-Iodoheptane	1.441
1.830	Iodobenzene	20	1-Iodopropane	1.747
1.900	Iron(II) sulfate heptahydrate	20	1-Nonanol	0.828
1.940	Ethyl iodid	20	1-Nonene	0.733
2.068	Lithium chloride	20	1-Octanol	0.827
2.180	Ethylen bromide	20	1-Octene	0.718



DENSITY SAMPLES



Sorted by value			Alphabetical order	
ρ [kg/dm ³]	SAMPLES	T [°C]	SAMPLES	ρ [kg/dm ³]
2.231	trans-1,2-Dibromoethylene	20	1-Pentadecene	0.780
2.246	cis-1,2-Dibromoethylene	20	1-Pentanol	0.816
2.279	Methyl iodide	20	1-Propanol	0.804
2.550	Tribromoacetaldehyde (Bromal)	20	1-Undecene	0.752
2.890	Bromoform	20	2-Nitroethanol	1.296
2.970	1,1,2,2-Tetrabromoethane	20	3-Chlorotoluene	1.070
2.963	Tetrabromomethane	20	3-Heptanone	0.814
13.595	Mercury	20	4-Chlorotoluene	1.066

SAMPLES

The table presents an overview of samples that our customers typically measure with our density meters.
The values should not be interpreted as specifications.

A.KRÜSS Optronic GmbH
Alsterdorfer Straße 276–278
22297 Hamburg | Germany

Phone +49 40 514317-0
Fax +49 40 514317-60

E-Mail info@kruess.com
Web www.kruess.com



DENSITY STANDARDS



ORGANISATION	NOTATION	LAST REV.	TITLE
AOAC	945.102	1945	Oil (Mineral) in Fat
AOAC	982.10	1982	Alcohol by Volume in Distilled Liquors
AOAC	983.12	1983	Alcohol by Volume in Liqueurs and Alcoholic Dairy Products
AOAC	988.06	1988	Specific Gravity of Beer and Wort
AOAC	992.29	1997	Ethanol and Original Gravity Content in Beer
ASBC	Beer-2B	2014	Specific Gravity by digital density meter (1978)
ASBC	Beer-4E	1989	Instrumental method for alcohol and original gravity content (1989)
ASBC	Beer-5A&B	1958	Real Extract — Beer measured volumetrically & gravimetrically (1958)
ASBC	Wort-2	2011	Specific Gravity by digital density meter (2011)
ASTM	D1250-08	2013	Standard Guide for Use of the Petroleum Measurement Tables
ASTM	D1475-13	2013	Standard Test Method For Density of Liquid Coatings, Inks, and Related Products
ASTM	D2501-14	2014	Standard Test Method for Calculation of Viscosity-Gravity Constant (VGC) of Petroleum Oils
ASTM	D4052-16	2016	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
ASTM	D4806-17	2017	Standard Specification for Denatured Fuel Ethanol for Blending with Gasolines for Use as Automotive Spark-Ignition Engine Fuel
ASTM	D5002-16	2016	Method for Density and Relative Density of Crude Oils by Digital Density Analyzer
ASTM	D5931-13	2013	Standard Test Method for Density and Relative Density of Engine Coolant Concentrates and Aqueous Engine Coolants by Digital Density Meter
ASTM	D6448-16	2016	Standard Specification for Industrial Burner Fuels from Used Lubricating Oils
ASTM	D7777-13	2013	Standard Test Method for Density, Relative Density, or API Gravity of Liquid Petroleum by Portable Digital Density Meter
CPTC	SH/T 0604-2000 eqv. ISO 12185	1997	Crude petroleum and petroleum products. Determination of density. Oscillating U-tube method
DIN	51423	2010	Testing of mineral oils — Part 2: Measurement of the relative refractive index with the Abbe-refractometer
DIN	51757	2011	Testing of mineral oils and related materials — Determination of density
EBC	1.6 (Apparatus)	1999	Care and Adjustment of Apparatus: Density Meters
EBC	8.2.2 (Wort)	2004	Specific Gravity of Wort using a Density Meter
EBC	9.43.2 (Beer)	2004	Specific Gravity of Beer using a Density Meter
EI	IP 365	2004	Crude petroleum and petroleum products — Determination of density — Oscillating U-tube method
EI	IP 559	2012	Determination of density of middle distillate fuels - Hand held oscillating U-tube density meter method
EU	Commission Reg. (EC) No 2676/90	1990	Determining Community methods for the analysis of wines
EU	Commission Reg. (EC) No 2870/2000	2000	Laying down Community reference methods for the analysis of spirits drinks

DENSITY STANDARDS



ORGANISATION	NOTATION	LAST REV.	TITLE
EU	Commission Reg. (EC) No 128/2004	2004	Amending Regulation (EEC) No 2676/90 determining Community methods for the analysis of wines
EU	Commission Reg. (EC) No 355/2005	2005	Amending Regulation (EEC) No 2676/90 determining Community methods for the analysis of wines
ISO	12185:1997-11	1997	Crude petroleum and petroleum products — Determination of density — Oscillating U-tube method
ISO	14214:2014-06	2014	Liquid petroleum products — Fatty acid methyl esters (FAME) for use in diesel engines and heating applications — Requirements and test methods
ISO	15212-1:1999-06	1999	Oscillation-type density meters — Part 1: Laboratory instruments
ISO	18301:2014	2014	Animal and vegetable fats and oils — Determination of conventional mass per volume (litre weight in air) — Oscillating U-tube method
ISO	2811-3:2011-06	2011	Paints and varnishes — Determination of density — Part 3: Oscillation method
JIS	K 0061-2001	2001	Method for density and specific gravity measurement of chemical products
JIS	K 2249-2011	2011	Crude Petroleum And Petroleum Products — Determination Of Density — Part 1: Oscillating U-tube Method
OIML	R 22	1973	International Alcoholometric Tables — Determination of Volume of ethanol-water solution
OIV	MA-AS2-03B MA-AS2-01A	2012	Total dry matter
OIV	MA-BS-04	2014	Reference method for the determination of real alcoholic strength by volume of spirit drinks of viti-vinicultural origin: measurement by electronic densimetry
Ph. Eur.	9th Edition-2.2.5	2017	Relative density
USP	841	2013	Specific Gravity

STANDARD ORGANISATIONS

- AOAC – Association of Analytical Communities
- ASBC – American Society of Brewing Chemists
- ASTM – American Society for Testing and Materials
- CPTC – Canadian Pipeline Technology Collaborative
- DIN – German Institute for Standardization
- EBC – European Brewery Convention
- EI – Energy Institute
- EU – European Union
- ISO – International Organization for Standardization
- JIS – Japanese Industrial Standards
- OIML – International Organization of Legal Metrology
- OIV – International Organisation of Vine and Wine
- Ph. Eur. – European Pharmacopoeia
- USP – United States Pharmacopoeia

A.KRÜSS Optronic GmbH
 Alsterdorfer Straße 276–278
 22297 Hamburg | Germany

Phone +49 40 514317-0
 Fax +49 40 514317-60
 E-Mail info@kruess.com
 Web www.kruess.com

