

CERTIFIED REFERENCE MATERIALS & STANDARDS



DENSITY STANDARDS

Precision. Accuracy. Measurement Certainty



ARO Scientific Ltd

ARO Scientific Ltd is an independent ISO 17034 accredited reference material producer with ISO/IEC 17025 accredited calibration and testing laboratories, providing high quality certified reference materials, reference materials, standards, and consumables for calibration of measuring equipment, verification of measuring equipment, method validation, method verification, or other quality control processes applicable for international test methods such as ASTM, IP, ISO, etc. Our management team has more than 40 years' experience in the manufacturing, characterisation and certification of certified reference materials, reference materials, standards, and consumables.

Accreditation

ARO Scientific Ltd holds triple accreditation status under The United Kingdom Accreditation Service (UKAS) to international standards ISO/IEC 17025 and ISO 17034, CAB No. 27393. The United Kingdom Accreditation Service (UKAS) is the sole national accreditation body recognised by the UK Government for certification and conformity to internationally agreed standards for testing, calibration and inspection. UKAS is a signatory to International Laboratory Accreditation Cooperation (ILAC) which is the international body for promoting cooperation between the various inspection body accreditation schemes that operate throughout the world. Other signatories include, but are not limited to, A2LA (USA), COFRAC (France), Dakks (Germany) and JAB (Japan). ISO/IEC 17025 / ISO 17034 accreditation denotes competence for customers to make an informed and confident choice in the procurement process.

The UKAS mark ensures buyers have peace of mind. ILAC also bridges international barriers, making trade easier, especially in new growth markets. Our Combined UKAS and ILAC-MRA Mark demonstrates that the accreditation we hold is recognised under the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement, our certificates are accepted around the world.

Quality Commitment

ARO Scientific Ltd recognises that our customers should be always provided with products and services they can rely upon, trust and have confidence to use on a daily basis. Our commitment to quality and our accreditations demonstrates that we have rigorous quality systems in place that allow us to provide customers with the highest quality products possible, which are accepted globally.



DENSITY STANDARDS

ANALYTICAL AND ULTRA PURE WATER

ISO/IEC 17025 and ISO 17034 Analytica Water and Ultra Pure Water Density Standards intended to be used for calibration and/or verification of measuring equipment, method validation, method verification, or other quality control processes applicable for density measurement systems. These Density Standards can be used with any brand or type of density measuring equipment.



ARO's Density Standards have been characterised in accordance with ASTM D1480, the primary method for liquid density standards calibration. Manufacture and characterisation has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.

Analytical Water and Ultra Pure Water Standards

Part No.	15 °C	20 °C	25 °C	Water Matrix	Certification	Pack Size
DEN-WAT01	0.99916	0.99823	0.99709	Analytical Grade	ISO 17025 / ISO 17034	60 mL
DEN-WAT03	0.99916	0.99823	0.99709	Analytical Grade	ISO 17025 / ISO 17034	3 x 60 mL
DEN-UPW010	0.99911	0.99823	0.99707	Ultra Pure	ISO 17025 / ISO 17034	5 x 10 mL

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DENSITY STANDARDS

15 °C (PRIMARY METHOD)

ISO/IEC 17025 and ISO 17034 Density Standards 15 °C (Primary Method) intended to be used for calibration and/or verification of measuring equipment, method validation, method verification, or other quality control processes applicable for density measurement systems. These Density Standards can be used with any brand or type of density measuring equipment.



ARO's Density Standards have been characterised in accordance with ASTM D1480, the primary method for liquid density standards calibration. Manufacture and characterisation has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.

- ▶ Manufactured and Characterised in strict accordance to ISO/IEC 17025 and ISO 17034
- ▶ Highest level of accreditation guarantee, providing the most credible certified data available worldwide
- ▶ Fully traceable to international standards
- ▶ Supplied in tamper-evident glass packaging, providing assurance of sample integrity
- ▶ Available in different pack sizes
- ▶ Manufactured in the United Kingdom by ARO Scientific Ltd
- ▶ In stock and available for immediate dispatch

Density Nominal Values

Part No. 60 mL	Part No. 500 mL	Nominal Value 15 °C	Certification
DEN15-01	DEN15-01-500ML	0.65000 g/mL to 0.68000 g/mL	ISO 17025 / ISO 17034
DEN15-03	DEN15-03-500ML	0.77000 g/mL to 0.80000 g/mL	ISO 17025 / ISO 17034
DEN15-04	DEN15-04-500ML	0.80000 g/mL to 0.82000 g/mL	ISO 17025 / ISO 17034
DEN15-05	DEN15-05-500ML	0.82000 g/mL to 0.85000 g/mL	ISO 17025 / ISO 17034
DEN15-06	DEN15-06-500ML	0.85000 g/mL to 0.87000 g/mL	ISO 17025 / ISO 17034
DEN15-07	DEN15-07-500ML	0.87000 g/mL to 0.90000 g/mL	ISO 17025 / ISO 17034
DEN15-08	DEN15-08-500ML	0.92000 g/mL to 0.97000 g/mL	ISO 17025 / ISO 17034
DEN15-09	DEN15-09-500ML	0.97000 g/mL to 1.00000 g/mL	ISO 17025 / ISO 17034
DEN15-10	DEN15-10-500ML	1.02500 g/mL to 1.05000 g/mL	ISO 17025 / ISO 17034
DEN15-11	DEN15-11-500ML	1.05000 g/mL to 1.10000 g/mL	ISO 17025 / ISO 17034
DEN15-12	DEN15-12-500ML	1.10000 g/mL to 1.18000 g/mL	ISO 17025 / ISO 17034
DEN15-13	DEN15-13-500ML	1.18000 g/mL to 1.22000 g/mL	ISO 17025 / ISO 17034
DEN15-14	DEN15-14-500ML	1.25000 g/mL to 1.30000 g/mL	ISO 17025 / ISO 17034
DEN15-15	DEN15-15-500ML	1.60000 g/mL to 1.16500 g/mL	ISO 17025 / ISO 17034

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DENSITY STANDARDS

20 °C (PRIMARY METHOD)

ISO/IEC 17025 and ISO 17034 Density Standards 20 °C (Primary Method) intended to be used for calibration and/or verification of measuring equipment, method validation, method verification, or other quality control processes applicable for density measurement systems. These Density Standards can be used with any brand or type of density measuring equipment.



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Density Nominal Values

Part No. 60 mL	Part No. 500 mL	Nominal Value 20 °C	Certification
DEN20-01	DEN20-01-500ML	0.65000 g/mL to 0.68000 g/mL	ISO 17025 / ISO 17034
DEN20-03	DEN20-03-500ML	0.76000 g/mL to 0.80000 g/mL	ISO 17025 / ISO 17034
DEN20-04	DEN20-04-500ML	0.80000 g/mL to 0.83000 g/mL	ISO 17025 / ISO 17034
DEN20-05	DEN20-05-500ML	0.83000 g/mL to 0.85000 g/mL	ISO 17025 / ISO 17034
DEN20-06	DEN20-06-500ML	0.85000 g/mL to 0.88000 g/mL	ISO 17025 / ISO 17034
DEN20-07	DEN20-07-500ML	0.92000 g/mL to 0.97000 g/mL	ISO 17025 / ISO 17034
DEN20-08	DEN20-08-500ML	0.97000 g/mL to 1.00000 g/mL	ISO 17025 / ISO 17034
DEN20-09	DEN20-09-500ML	1.02000 g/mL to 1.05000 g/mL	ISO 17025 / ISO 17034
DEN20-10	DEN20-10-500ML	1.05000 g/mL to 1.10000 g/mL	ISO 17025 / ISO 17034
DEN20-11	DEN20-11-500ML	1.10000 g/mL to 1.18000 g/mL	ISO 17025 / ISO 17034
DEN20-12	DEN20-12-500ML	1.18000 g/mL to 1.22000 g/mL	ISO 17025 / ISO 17034
DEN20-13	DEN20-13-500ML	1.25000 g/mL to 1.30000 g/mL	ISO 17025 / ISO 17034
DEN20-14	DEN20-14-500ML	1.60000 g/mL to 1.16500 g/mL	ISO 17025 / ISO 17034

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DENSITY STANDARDS

25 °C (PRIMARY METHOD)

ISO/IEC 17025 and ISO 17034 Density Standards 25 °C (Primary Method) intended to be used for calibration and/or verification of measuring equipment, method validation, method verification, or other quality control processes applicable for density measurement systems. These Density Standards can be used with any brand or type of density measuring equipment.



ARO's Density Standards have been characterised in accordance with ASTM D1480, the primary method for liquid density standards calibration. Manufacture and characterisation has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.

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- ▶ Fully traceable to international standards
- ▶ Supplied in tamper-evident glass packaging, providing assurance of sample integrity
- ▶ Available in different pack sizes
- ▶ Manufactured in the United Kingdom by ARO Scientific Ltd
- ▶ In stock and available for immediate dispatch

Density Nominal Values

Part No. 60 mL	Part No. 500 mL	Nominal Value 25 °C	Certification
DEN25-01	DEN25-01-500ML	0.65000 g/mL to 0.68000 g/mL	ISO 17025 / ISO 17034
DEN25-03	DEN25-03-500ML	0.76000 g/mL to 0.80000 g/mL	ISO 17025 / ISO 17034
DEN25-04	DEN25-04-500ML	0.80000 g/mL to 0.84000 g/mL	ISO 17025 / ISO 17034
DEN25-05	DEN25-05-500ML	0.84000 g/mL to 0.88000 g/mL	ISO 17025 / ISO 17034
DEN25-06	DEN25-06-500ML	0.92000 g/mL to 0.97000 g/mL	ISO 17025 / ISO 17034
DEN25-07	DEN25-07-500ML	0.97000 g/mL to 1.00000 g/mL	ISO 17025 / ISO 17034
DEN25-08	DEN25-08-500ML	1.02000 g/mL to 1.05000 g/mL	ISO 17025 / ISO 17034
DEN25-09	DEN25-09-500ML	1.05000 g/mL to 1.10000 g/mL	ISO 17025 / ISO 17034
DEN25-10	DEN25-10-500ML	1.10000 g/mL to 1.18000 g/mL	ISO 17025 / ISO 17034
DEN25-11	DEN25-11-500ML	1.18000 g/mL to 1.22000 g/mL	ISO 17025 / ISO 17034
DEN25-12	DEN25-12-500ML	1.25000 g/mL to 1.30000 g/mL	ISO 17025 / ISO 17034
DEN25-13	DEN25-13-500ML	1.60000 g/mL to 1.16500 g/mL	ISO 17025 / ISO 17034

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DENSITY STANDARDS

40 °C & 50 °C (PRIMARY METHOD)

ISO/IEC 17025 and ISO 17034 Density Standards 40 °C & 50 °C (Primary Method) intended to be used for calibration and/or verification of measuring equipment, method validation, method verification, or other quality control processes applicable for density measurement systems. These Density Standards can be used with any brand or type of density measuring equipment.



ARO's Density Standards have been characterised in accordance with ASTM D1480, the primary method for liquid density standards calibration. Manufacture and characterisation has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.

- ▶ Manufactured and Characterised in strict accordance to ISO/IEC 17025 and ISO 17034
- ▶ Highest level of accreditation guarantee, providing the most credible certified data available worldwide
- ▶ Fully traceable to international standards
- ▶ Supplied in tamper-evident glass packaging, providing assurance of sample integrity
- ▶ Available in different pack sizes
- ▶ Manufactured in the United Kingdom by ARO Scientific Ltd
- ▶ In stock and available for immediate dispatch

Density Nominal Values 40 °C

Part No. 60 mL	Part No. 500 mL	Nominal Value 40 °C	Certification
DEN40-01	DEN40-01-500ML	0.60000 g/mL to 0.68000 g/mL	ISO 17025 / ISO 17034
DEN40-03	DEN40-03-500ML	0.77000 g/mL to 0.79500 g/mL	ISO 17025 / ISO 17034
DEN40-04	DEN40-04-500ML	0.79500 g/mL to 0.84500 g/mL	ISO 17025 / ISO 17034
DEN40-05	DEN40-05-500ML	0.85000 g/mL to 0.90000 g/mL	ISO 17025 / ISO 17034

Density Nominal Values 50 °C

Part No. 60 mL	Part No. 500 mL	Nominal Value 50 °C	Certification
DEN50-01	DEN50-01-500ML	0.75000 g/mL to 0.80000 g/mL	ISO 17025 / ISO 17034
DEN50-02	DEN50-02-500ML	0.80000 g/mL to 0.85000 g/mL	ISO 17025 / ISO 17034
DEN50-03	DEN50-03-500ML	0.85000 g/mL to 0.90000 g/mL	ISO 17025 / ISO 17034

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DENSITY STANDARDS

60 °C, 80 °C & 100 °C (PRIMARY METHOD)

ISO/IEC 17025 and ISO 17034 Density Standards 60 °C, 80 °C & 100 °C (Primary Method) intended to be used for calibration and/or verification of measuring equipment, method validation, method verification, or other quality control processes applicable for density measurement systems. These Density Standards can be used with any brand or type of density measuring equipment.



ARO's Density Standards have been characterised in accordance with ASTM D1480, the primary method for liquid density standards calibration. Manufacture and characterisation has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.

- ▶ Manufactured and Characterised in strict accordance to ISO/IEC 17025 and ISO 17034
- ▶ Highest level of accreditation guarantee, providing the most credible certified data available worldwide
- ▶ Fully traceable to international standards
- ▶ Supplied in tamper-evident glass packaging, providing assurance of sample integrity
- ▶ Available in different pack sizes
- ▶ Manufactured in the United Kingdom by ARO Scientific Ltd
- ▶ In stock and available for immediate dispatch

Density Nominal Values 60 °C

Part No. 60 mL	Part No. 500 mL	Nominal Value 60 °C	Certification
DEN60-01	DEN60-01-500ML	0.75000 g/mL to 0.80000 g/mL	ISO 17025 / ISO 17034
DEN60-02	DEN60-02-500ML	0.80000 g/mL to 0.85000 g/mL	ISO 17025 / ISO 17034
DEN60-03	DEN60-03-500ML	0.85000 g/mL to 0.90000 g/mL	ISO 17025 / ISO 17034

Density Nominal Values 80 °C

Part No. 60 mL	Part No. 500 mL	Nominal Value 80 °C	Certification
DEN80-01	DEN80-01-500ML	0.75000 g/mL to 0.80000 g/mL	ISO 17025 / ISO 17034
DEN80-02	DEN80-02-500ML	0.80000 g/mL to 0.85000 g/mL	ISO 17025 / ISO 17034
DEN80-03	DEN80-03-500ML	0.85000 g/mL to 0.90000 g/mL	ISO 17025 / ISO 17034

Density Nominal Values 100 °C

Part No. 60 mL	Part No. 500 mL	Nominal Value 100 °C	Certification
DEN100-01	DEN100-01-500ML	0.75000 g/mL to 0.80000 g/mL	ISO 17025 / ISO 17034
DEN100-02	DEN100-02-500ML	0.80000 g/mL to 0.85000 g/mL	ISO 17025 / ISO 17034
DEN100-03	DEN100-03-500ML	0.85000 g/mL to 0.90000 g/mL	ISO 17025 / ISO 17034

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DENSITY STANDARDS

RELATIVE DENSITY 15 °C (PRIMARY METHOD)

ISO/IEC 17025 and ISO 17034 Relative Density Standards 15 °C (Primary Method) intended to be used for calibration and/or verification of measuring equipment, method validation, method verification, or other quality control processes applicable for density measurement systems. These Density Standards can be used with any brand or type of density measuring equipment.



ARO's Relative Density Standards have been characterised in accordance with ASTM D1480, the primary method for liquid density standards calibration. Manufacture and characterisation has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.

- ▶ Manufactured and Characterised in strict accordance to ISO/IEC 17025 and ISO 17034
- ▶ Highest level of accreditation guarantee, providing the most credible certified data available worldwide
- ▶ Fully traceable to international standards
- ▶ Supplied in tamper-evident glass packaging, providing assurance of sample integrity
- ▶ Manufactured in the United Kingdom by ARO Scientific Ltd
- ▶ In stock and available for immediate dispatch
- ▶ Supplied with certified values at 15/4 °C and 15/15 °C

Density Nominal Values

Part No.	Pck Size	Nominal Value 15 °C	Certification
RDEN15-01	500 mL	0.65000 g/mL to 0.68000 g/mL	ISO 17025 / ISO 17034
RDEN15-03	500 mL	0.77000 g/mL to 0.80000 g/mL	ISO 17025 / ISO 17034
RDEN15-04	500 mL	0.80000 g/mL to 0.82000 g/mL	ISO 17025 / ISO 17034
RDEN15-05	500 mL	0.82000 g/mL to 0.85000 g/mL	ISO 17025 / ISO 17034
RDEN15-06	500 mL	0.85000 g/mL to 0.87000 g/mL	ISO 17025 / ISO 17034
RDEN15-07	500 mL	0.87000 g/mL to 0.90000 g/mL	ISO 17025 / ISO 17034

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DENSITY STANDARDS

RELATIVE DENSITY 20 °C (PRIMARY METHOD)

ISO/IEC 17025 and ISO 17034 Relative Density Standards 20 °C (Primary Method) intended to be used for calibration and/or verification of measuring equipment, method validation, method verification, or other quality control processes applicable for density measurement systems. These Density Standards can be used with any brand or type of density measuring equipment.



ARO's Relative Density Standards have been characterised in accordance with ASTM D1480, the primary method for liquid density standards calibration. Manufacture and characterisation has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.

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- ▶ Highest level of accreditation guarantee, providing the most credible certified data available worldwide
- ▶ Fully traceable to international standards
- ▶ Supplied in tamper-evident glass packaging, providing assurance of sample integrity
- ▶ Manufactured in the United Kingdom by ARO Scientific Ltd
- ▶ In stock and available for immediate dispatch
- ▶ Supplied with certified values at 20/4 °C and 20/15 °C

Density Nominal Values

Part No.	Pack Size	Nominal Value 20 °C	Certification
RDEN20-01	500 mL	0.65000 g/mL to 0.68000 g/mL	ISO 17025 / ISO 17034
RDEN20-03	500 mL	0.76000 g/mL to 0.80000 g/mL	ISO 17025 / ISO 17034
RDEN20-04	500 mL	0.80000 g/mL to 0.83000 g/mL	ISO 17025 / ISO 17034
RDEN20-05	500 mL	0.83000 g/mL to 0.85000 g/mL	ISO 17025 / ISO 17034
RDEN20-06	500 mL	0.85000 g/mL to 0.88000 g/mL	ISO 17025 / ISO 17034

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DENSITY STANDARDS

RELATIVE DENSITY 25 °C (PRIMARY METHOD)

ISO/IEC 17025 and ISO 17034 Relative Density Standards 25 °C (Primary Method) intended to be used for calibration and/or verification of measuring equipment, method validation, method verification, or other quality control processes applicable for density measurement systems. These Density Standards can be used with any brand or type of density measuring equipment.



ARO's Relative Density Standards have been characterised in accordance with ASTM D1480, the primary method for liquid density standards calibration. Manufacture and characterisation has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.

- ▶ Manufactured and Characterised in strict accordance to ISO/IEC 17025 and ISO 17034
- ▶ Highest level of accreditation guarantee, providing the most credible certified data available worldwide
- ▶ Fully traceable to international standards
- ▶ Supplied in tamper-evident glass packaging, providing assurance of sample integrity
- ▶ Manufactured in the United Kingdom by ARO Scientific Ltd
- ▶ In stock and available for immediate dispatch
- ▶ Supplied with certified values at 25/4 °C and 25/15 °C

Density Nominal Values

Part No.	Pack Size	Nominal Value 25 °C	Certification
RDEN25-01	500 mL	0.65000 g/mL to 0.68000 g/mL	ISO 17025 / ISO 17034
RDEN25-03	500 mL	0.76000 g/mL to 0.80000 g/mL	ISO 17025 / ISO 17034
RDEN25-04	500 mL	0.80000 g/mL to 0.84000 g/mL	ISO 17025 / ISO 17034
RDEN25-05	500 mL	0.84000 g/mL to 0.88000 g/mL	ISO 17025 / ISO 17034

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DENSITY STANDARDS

DIGITAL DENSITY METER 15 °C

ISO/IEC 17025 and ISO 17034 Density Certified Reference Material (CRM) intended to be used for calibration or verification of measuring equipment, method validation, method verification, or other quality control processes applicable for the test method ASTM D4052, or test methods IP 365, ISO 12185, or other applicable methods.



ARO's Density Certified Reference Material has been characterised at 15 °C in accordance with ASTM D4052, or equivalent methodology. Manufacture and characterisation has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.

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- ▶ In stock and available for immediate dispatch
- ▶ Supplied in tamper-evident UN compliant packaging, providing assurance of sample integrity

Density Nominal Values

Part No.	Certification	Matrix	Nominal Value	Pack Size
CRM-DEGA01	ISO 17025 / ISO 17034	Gasoline	0.7496 g/mL	250 mL
CRM-DELU01	ISO 17025 / ISO 17034	Lubricant	0.8650 g/mL	250 mL
CRM-DEKR01	ISO 17025 / ISO 17034	Jet Fuel	0.8014 g/mL	250 mL
CRM-DEGO01	ISO 17025 / ISO 17034	Diesel	0.8288 g/mL	250 mL

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