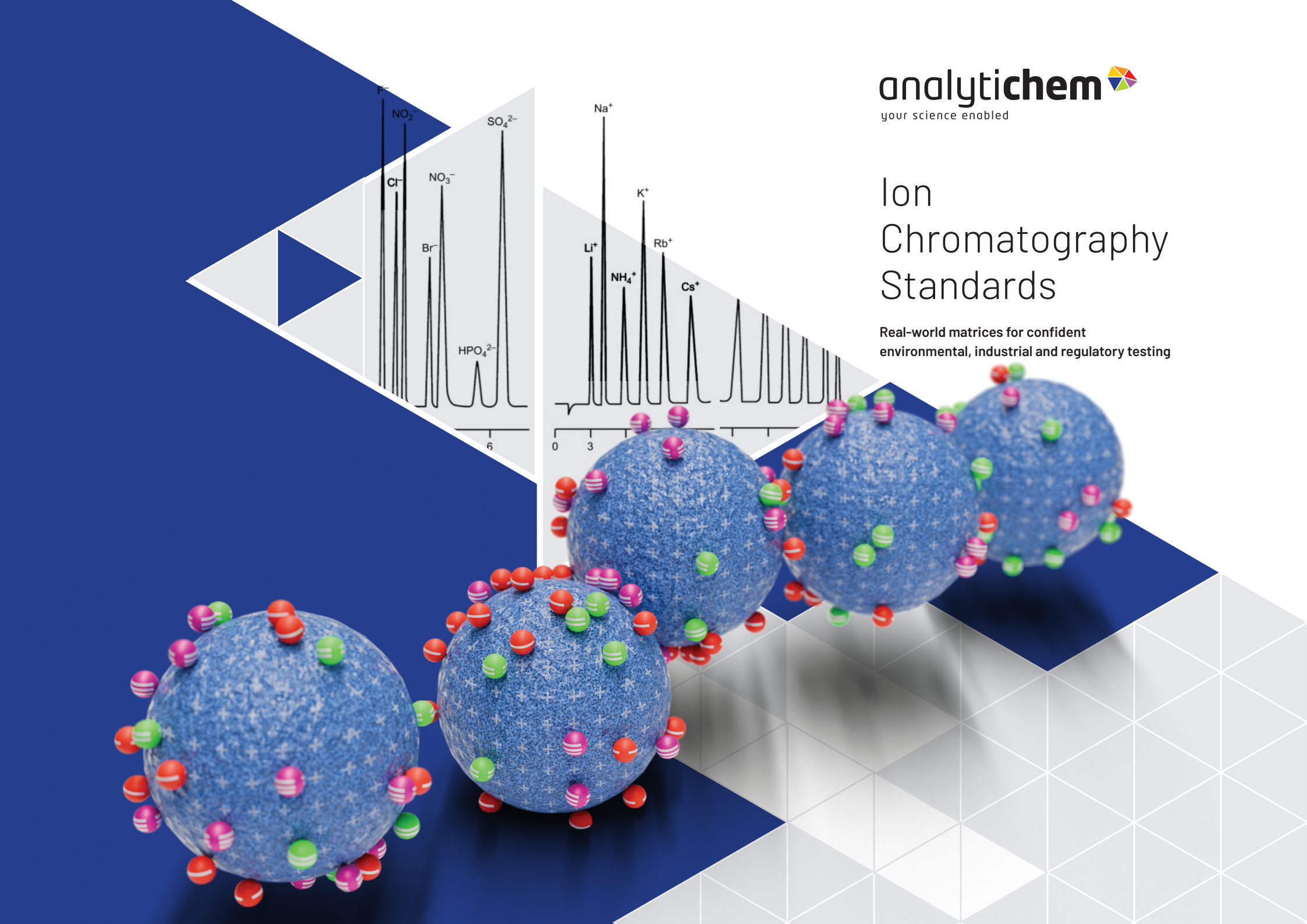
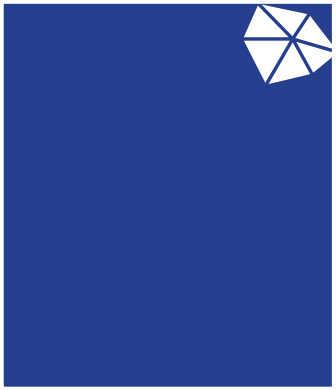
analytichem
your science enabled

# Ion Chromatography Standards

**Real-world matrices for confident environmental, industrial and regulatory testing**





# About Us

**AnalytiChem** manufactures an extensive portfolio of specialized reference materials, culture media, laboratory consumables, and sample preparation equipment and operates with a focus on providing the right solutions to ensure our customers obtain the best results with the highest competitive quality.

Formed in 2021 through the combination of industry leaders, we utilize the expertise of our group companies to provide an integrated value proposition for our customers who operate in the material science, environmental, petroleum, animal health and chemical industries.

Leveraging our global operational hubs in North America, Europe, and Australia and our ISO 17034, ISO/IEC 17025, and ISO 9001 certifications, we **Enable The Science** that our customers do to improve operational efficiency, safeguard the environment, and support the global infrastructure.

Products are intended for laboratory use only. Specifications, concentrations, and availability may change without notice. Refer to the SDS and CoA for safety, handling, and certification details. ISO accreditations apply only where stated. Hazardous materials are shipped according to applicable transportation regulations. Product descriptions provided in this catalog are intended solely for commercial and informational purposes. Actual product specifications, concentrations, and labeling details may vary. In all cases, the information displayed on the product label and certificate of analysis (CoA) shall be considered the authoritative and most current version.

Product offering may vary by region. Please contact your local representative for more information.

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# Introduction

Ion chromatography is a critical toolfor the separation and quantification of inorganic anions, cations, oxyhalides, organic acids, and method-specific ion mixtures in water, environmental, industrial, food, pharmaceutical, and process-control laboratories. The right calibration standard is central to reliable IC performance: it supports accurate retention-time confirmation, robust calibration curves, routine quality control, and defensible results in regulated workflows.

This catalogue brings our IC standards portfolio into a simple three-section structure: Single Anions, Single Cations, and Multi Ions. The range includes ready-to-use and stock solutions across practical concentration levels, matrices, pack sizes, and accreditation levels, including ISO - certified reference materials, ISO/IEC 17025 reference materials, and ,s where applicable. The structure is designed to help laboratories quickly identify the right product for routine calibration, regulatory monitoring, instrument checks, method development, and custom preparation.

Behind the portfolio is **AnalytiChem**'s broader reference-material manufacturing capability: global production expertise, strong quality systems, and the flexibility to support both catalogue and custom IC requirements. Whether the application requires a common anion mix, a low-level disinfection by-product standard, a high-concentration stock, a cation blend, or a customer-specific formulation, our portfolio is built to support consistency, traceability, and supply continuity.

# Best Practice for Use, Handling and Storage

Before opening, gently mix the bottle to ensure homogeneity. Always dispense only the volume required for analysis and never return unused solution to the original container, as this may compromise the concentration, cleanliness, and traceability of the standard. Use clean labware, suitable pipettes, and contamination-controlled handling practices, particularly for low-level anion and oxyhalide determinations.

Store products tightly closed in their original containers under the conditions stated on the certificate and label. For CRMs, the certified value applies only when the material is handled according to the specified storage and use instructions. For sensitive ions or low-level disinfection by-products, follow the product-specific shelf-life, light-protection, and preservation guidance provided with the material.

A practical selection guide for choosing the right control material by sample type, analytical target and regulatory workflow.

# Regulatory and Method Relevance

Ion chromatography is widely used in water and environmental monitoring methods. EPA Method 300.0 covers the determination of inorganic anions by ion chromatography, including bromide, chloride, fluoride, nitrate, nitrite, orthophosphate-P, sulfate, bromate, chlorate, and chlorite in relevant water and environmental matrices. EPA Method 300.1 focuses on inorganic anions in drinking water by ion chromatography and is especially relevant for common anions and inorganic disinfection by-products such as bromate, chlorite, and chlorate.

In Europe, EN ISO 10304 is a key method family for dissolved anions by ion chromatography. EN ISO 10304-1 is relevant for bromide, chloride, fluoride, nitrate, nitrite, phosphate, and sulfate in water; EN ISO 10304-3 covers ions such as chromate, iodide, sulfite, thiocyanate, and thiosulfate; and EN ISO 10304-4 is relevant for chlorate, chloride, and chlorite in low-contamination waters. These methods connect directly to routine drinking water, groundwater, surface water, wastewater, leachate, and marine-water analysis.

The EU Drinking Water Directive also reinforces the importance of accurate IC calibration for regulated and indicator parameters such as nitrate, nitrite, fluoride, chloride, sulfate, bromate, chlorate, and chlorite. For laboratories supporting compliance monitoring, our IC standards provide a practical foundation for calibration, verification, quality control, and method-aligned workflows.

# Abbreviations And Symbols Used In This Catalog

## Legend

Icons are used to enhance visual clarity, reduce clutter, and allow for quick, intuitive recognition of categories.

### Table's Header pictograms

| | |
|---|---|
| | Description |
| | Matrix |
| | Compliance status with relevant ISO standards |
| | Volume or quantity supplied |
| | Legacy item number |
| | Current product identification code |
| | Number of analytes |
| | Limited shelf life |
| | Starting material |
| | Concentration |
| | Analyte |

### Table's Body pictograms

| | |
|---|---|
| ▲ | Analytical Standard |
| ✦ | ISO 17025 |
| ★ | ISO 17034 |

# Single Anions

Single anion standards are the foundation of IC calibration and method setup. They are ideal for building calibration curves, confirming retention times, preparing quality-control samples, validating recovery, and supporting method development where one analyte must be controlled independently. The range includes common inorganic anions, oxyhalides, nutrients, organic acids, and application-specific ions at multiple concentration levels and pack sizes.

**Why choose Single Anions?**

- Precise control of individual calibration points for method development, troubleshooting, and routine calibration.
- Strong coverage of water-quality and environmental anions, including ions relevant to EPA 300.0, EPA 300.1, and EN ISO 10304 workflows.
- Available options across low, routine, and high stock concentrations to reduce preparation time and dilution uncertainty.

ISO 17034
ISO 17025
Analytical Standard
Description
Matrix
Compliance status with relevant ISO standards
Volume or quantity supplied
Legacy Item Number
Current product identification code
Number of analytes
Limited shelf life
Starting material
Concentration
Analyte

| | (µg/mL) | [ ] | | | | (mL) | | |
|---|---|---|---|---|---|---|---|---|
| Acetate, $CH_3COO^-$ | 1000 | $H_2O$ | ▲ | $CH_3COONa$ | – | 100 | AC18.02879.0100 | 21511.0000 |
| Acetate, $CH_3COO^-$ | 1000 | $H_2O$ | ▲ | $CH_3COONa$ | – | 250 | AC18.02879.0250 | 21511.1000 |
| Acetate, $CH_3COO^-$ | 1000 | $H_2O$ | ★ | $CH_3COONa$ | – | 125 | AC18.06458.0125 | 250-220-100 |
| Acetate, $CH_3COO^-$ | 1000 | $H_2O$ | ★ | $CH_3COONa$ | – | 500 | AC18.06458.0500 | 250-220-101 |
| Acetate, $CH_3COO^-$ | 1000 | $H_2O$ | ✦ | $CH_3COONa$ | – | 100 | AC18.02993.0100 | CL01.0151.0100 |
| Acetate, $CH_3COO^-$ | 10000 | $H_2O$ | ★ | $CH_3COONa$ | – | 125 | AC18.11183.0125 | 250-221-100 |
| Acetate, $CH_3COO^-$ | 10000 | $H_2O$ | ★ | $CH_3COONa$ | – | 500 | AC18.11183.0500 | 250-221-101 |
| Ammonia-Nitrogen, $NH_3/N$ | 1000 | $H_2O$ | ★ | $NH_4Cl$ | – | 125 | AC18.06459.0125 | 250-220-115 |
| Ammonia-Nitrogen, $NH_3/N$ | 1000 | $H_2O$ | ★ | $NH_4Cl$ | – | 500 | AC18.06459.0500 | 250-220-116 |
| Ammonia-Nitrogen, $NH_3/N$ | 10000 | $H_2O$ | ★ | $NH_4Cl$ | – | 125 | AC18.06495.0125 | 250-221-115 |
| Ammonia-Nitrogen, $NH_3/N$ | 10000 | $H_2O$ | ★ | $NH_4Cl$ | – | 500 | AC18.06495.0500 | 250-221-116 |
| Benzoate, $C_6H_5CO_2^-$ | 1000 | $H_2O$ | ▲ | $C_7H_6O_2$ | – | 100 | AC18.19680.0100 | CL01.0271.0100 |
| Bromate, $BrO_3^-$ | 1000 | $H_2O$ | ▲ | $KBrO_3$ | – | 100 | AC18.02865.0100 | 12836.0000 |
| Bromate, $BrO_3^-$ | 1000 | $H_2O$ | ▲ | $KBrO_3$ | – | 250 | AC18.02865.0250 | 12836.1000 |
| Bromate, $BrO_3^-$ | 1000 | $H_2O$ | ▲ | $KBrO_3$ | – | 500 | AC18.02914.0500 | 21579.2000 |
| Bromate, $BrO_3^-$ | 1000 | $H_2O$ | ★ | $KBrO_3$ | – | 125 | AC18.06463.0125 | 250-220-220 |
| Bromate, $BrO_3^-$ | 1000 | $H_2O$ | ✦ | $KBrO_3$ | – | 100 | AC18.03000.0100 | CL01.0261.0100 |
| Bromate, $BrO_3^-$ | 1000 | $H_2O$ | ✦ | $KBrO_3$ | – | 500 | AC18.03000.0500 | CL01.0261.0500 |
| Bromide, $Br^-$ | 1000 | $H_2O$ | ▲ | KBr | – | 100 | AC18.02846.0100 | 04303.0000 |
| Bromide, $Br^-$ | 1000 | $H_2O$ | ▲ | KBr | – | 250 | AC18.02846.0250 | 04303.1000 |
| Bromide, $Br^-$ | 1000 | $H_2O$ | ▲ | NaBr | – | 100 | AC18.02855.0100 | 04770.0000 |
| Bromide, $Br^-$ | 1000 | $H_2O$ | ▲ | NaBr | – | 250 | AC18.02855.0250 | 04770.1000 |
| Bromide, $Br^-$ | 1000 | $H_2O$ | ★ | NaBr | – | 125 | AC18.06464.0125 | 250-220-235 |
| Bromide, $Br^-$ | 1000 | $H_2O$ | ★ | NaBr | – | 500 | AC18.06464.0500 | 250-220-236 |
| Bromide, $Br^-$ | 1000 | $H_2O$ | ★ | KBr | – | 100 | AC18.02997.0100 | CL01.0241.0100 |
| Bromide, $Br^-$ | 1000 | $H_2O$ | ★ | KBr | – | 500 | AC18.02997.0500 | CL01.0241.0500 |
| Bromide, $Br^-$ | 1000 | $H_2O$ | ✦ | KBr | – | 100 | AC18.02999.0100 | CL01.0246.0100 |
| Bromide, $Br^-$ | 1000 | $H_2O$ | ✦ | KBr | – | 500 | AC18.02999.0500 | CL01.0246.0500 |

| | (µg/mL) | [ ] | | | | (mL) | # | |
|---|---|---|---|---|---|---|---|---|
| Bromide, $Br^-$ | 10000 | $H_2O$ | ★ | NaBr | — | 125 | AC18.06497.0125 | 250-221-235 |
| Bromide, $Br^-$ | 10000 | $H_2O$ | ★ | NaBr | — | 500 | AC18.06497.0500 | 250-221-236 |
| Bromide, $Br^-$ | 10000 | $H_2O$ | ★ | KBr | — | 100 | AC18.02998.0100 | CL01.0243.0100 |
| Butyrate, $C_4H_7O_2^-$ | 1000 | $H_2O$ | ▲ | $C_4H_8O_2$ | — | 100 | AC18.02932.0100 | 24838.0000 |
| Butyrate, $C_4H_7O_2^-$ | 1000 | $H_2O$ | ▲ | $C_4H_7NaO_2$ | — | 100 | AC18.03001.0100 | CL01.0281.0100 |
| Butyrate, $C_4H_7O_2^-$ | 10000 | $H_2O$ | ★ | $C_3H_7COOH$ | — | 125 | AC18.11195.0125 | 250-221-790 |
| Butyrate, $CH_3CH_2CH_2COO^-$ | 1000 | $H_2O$ | ★ | $C_4H_8O_2$ | — | 125 | AC18.06489.0125 | 250-220-790 |
| Butyrate, $CH_3CH_2CH_2COO^-$ | 1000 | $H_2O$ | ★ | $C_4H_8O_2$ | — | 500 | AC18.06489.0500 | 250-220-791 |
| Calcium carbonate Alkalinity, $CaCO_3$ | 1000 | $H_2O$ | ▲ | $Na_2CO_3$ | — | 100 | AC18.02995.0100 | CL01.0183.0100 |
| Caproate, $CH_3(CH_2)_4COO^-$ | 1000 | $H_2O$ | ★ | $C_8H_5KO_4$ | — | 125 | AC18.06493.0125 | 250-220-830 |
| Caproate, $CH_3(CH_2)_4COO^-$ | 1000 | $H_2O$ | ★ | $C_8H_5KO_4$ | — | 500 | AC18.06493.0500 | 250-220-831 |
| Carbonate, $CO_3^{2-}$ | 1000 | $H_2O$ | ▲ | $Na_2CO_3$ | — | 100 | AC18.03030.0100 | CL01.0391.0100 |
| Carbonate, $CO_3^{2-}$ | 1000 | $H_2O$ | ▲ | $Na_2CO_3$ | — | 500 | AC18.03030.0500 | CL01.0391.0500 |
| Carbonate, $CO_3^{2-}$ | 1000 | $H_2O$ | ▲ | $Na_2CO_3$ | — | 500 | AC18.03032.0500 | CL01.0396.0500 |
| Carbonate, $CO_3^{2-}$ | 10000 | $H_2O$ | ▲ | $Na_2CO_3$ | — | 100 | AC18.03031.0100 | CL01.0393.0100 |
| Carbonate, $CO_3^{2-}$ | 10000 | $H_2O$ | ▲ | $Na_2CO_3$ | — | 500 | AC18.03031.0500 | CL01.0393.0500 |
| Chlorate, $ClO_3^-$ | 1000 | $H_2O$ | ▲ | $KClO_3$ | — | 100 | AC18.02919.0100 | 22188.0000 |
| Chlorate, $ClO_3^-$ | 1000 | $H_2O$ | ▲ | $KClO_3$ | — | 250 | AC18.02919.0250 | 22188.1000 |
| Chlorate, $ClO_3^-$ | 1000 | $H_2O$ | ★ | $NaClO_3$ | — | 125 | AC18.06466.0125 | 250-220-355 |
| Chlorate, $ClO_3^-$ | 1000 | $H_2O$ | ★ | $NaClO_3$ | — | 500 | AC18.06466.0500 | 250-220-356 |
| Chlorate, $ClO_3^-$ | 1000 | $H_2O$ | ▲ | $KClO_3$ | — | 100 | AC18.03014.0100 | CL01.0348.0100 |
| Chlorate, $ClO_3^-$ | 1000 | $H_2O$ | ▲ | $KClO_3$ | — | 500 | AC18.03014.0500 | CL01.0348.0500 |
| Chloride, $Cl^-$ | 1000 | $H_2O$ | ▲ | HCl | — | 100 | AC18.02843.0100 | 03394.0000 |
| Chloride, $Cl^-$ | 1000 | $H_2O$ | ▲ | HCl | — | 250 | AC18.02843.0250 | 03394.1000 |
| Chloride, $Cl^-$ | 1000 | $H_2O$ | ▲ | KCl | — | 100 | AC18.02847.0100 | 04307.0000 |
| Chloride, $Cl^-$ | 1000 | $H_2O$ | ▲ | KCl | — | 250 | AC18.02847.0250 | 04307.1000 |
| Chloride, $Cl^-$ | 1000 | $H_2O$ | ★ | NaCl | — | 125 | AC18.03238.0125 | 250-220-370 |
| Chloride, $Cl^-$ | 1000 | $H_2O$ | ★ | NaCl | — | 250 | AC18.03238.0500 | 250-220-371 |

★ ISO 17034

✦ ISO 17025

▲ Analytical Standard

Description

[ ] Matrix

Compliance status with relevant ISO standards

Volume or quantity supplied

Legacy Item Number

Current product identification code

Number of analytes

Limited shelf life

Starting material

Concentration

Analyte

ISO 17034

ISO 17025

Analytical Standard

Description

Matrix

Compliance status with relevant ISO standards

Volume or quantity supplied

Legacy Item Number

Current product identification code

Number of analytes

Limited shelf life

Starting material

Concentration

Analyte

| | (µg/mL) | [ ] | | | | (mL) | | |
|---|---|---|---|---|---|---|---|---|
| Chloride, $Cl^-$ | 1000 | $H_2O$ | ★ | KCl | — | 100 | AC18.03008.0100 | CL01.0341.0100 |
| Chloride, $Cl^-$ | 1000 | $H_2O$ | ★ | KCl | — | 500 | AC18.03008.0500 | CL01.0341.0500 |
| Chloride, $Cl^-$ | 1000 | $H_2O$ | ★ | NaCl | — | 100 | AC18.03011.0100 | CL01.0342.0100 |
| Chloride, $Cl^-$ | 1000 | $H_2O$ | ★ | NaCl | — | 500 | AC18.03011.0500 | CL01.0342.0500 |
| Chloride, $Cl^-$ | 1000 | $H_2O$ | ✦ | KCl | — | 500 | AC18.03013.0500 | CL01.0346.0500 |
| Chloride, $Cl^-$ | 10000 | $H_2O$ | ★ | KCl | — | 125 | AC18.06456.0125 | 250-180-231 |
| Chloride, $Cl^-$ | 10000 | $H_2O$ | ★ | KCl | — | 500 | AC18.06456.0500 | 250-180-235 |
| Chloride, $Cl^-$ | 10000 | $H_2O$ | ★ | NaCl | — | 125 | AC18.10175.0125 | 250-221-370 |
| Chloride, $Cl^-$ | 10000 | $H_2O$ | ★ | NaCl | — | 500 | AC18.10176.0500 | 250-221-371 |
| Chloride, $Cl^-$ | 10000 | $H_2O$ | ▲ | HCl | — | 500 | AC18.03007.0500 | CL01.0339.0500 |
| Chloride, $Cl^-$ | 10000 | $H_2O$ | ★ | KCl | — | 100 | AC18.03012.0100 | CL01.0343.0100 |
| Chloride, $Cl^-$ | 10000 | $H_2O$ | ★ | KCl | — | 500 | AC18.03012.0500 | CL01.0343.0500 |
| Chloride, $Cl^-$ | 20000 | $H_2O$ | ★ | KCl | — | 125 | AC18.06457.0125 | 250-180-241 |
| Chloride, $Cl^-$ | 50000 | $H_2O$ | ★ | NaCl | — | 250 | AC18.11209.0250 | 250-222-372 |
| Chlorite, $ClO_2^-$ | 1000 | 0.1 M NaOH | ▲ | $NaClO_2$ | — | 100 | AC18.03076.0100 | CL01.0871.0100 |
| Chromate, $CrO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $K_2CrO_4$ | — | 100 | AC18.02880.0100 | 21512.0000 |
| Chromate, $CrO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $K_2CrO_4$ | — | 250 | AC18.02880.0250 | 21512.1000 |
| Chromate, $CrO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $K_2CrO_4$ | — | 500 | AC18.02915.0500 | 21581.2000 |
| Chromate, $CrO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $K_2CrO_4$ | — | 1000 | AC18.02915.1000 | 21581.3000 |
| Chromate, $CrO_4^{2-}$ | 1000 | $H_2O$ | ★ | $(NH_4)_2CrO_4$ | — | 125 | AC18.06483.0125 | 250-220-720 |
| Chromate, $CrO_4^{2-}$ | 1000 | $H_2O$ | ★ | $(NH_4)_2CrO_4$ | — | 500 | AC18.06483.0500 | 250-220-721 |
| Chromate, $CrO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $K_2Cr_2O_7$ | — | 100 | AC18.03016.0100 | CL01.0351.0100 |
| Chromate, $CrO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $K_2CrO_4$ | — | 100 | AC18.03020.0100 | CL01.0354.0100 |
| Chromate, $CrO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $K_2Cr_2O_7$ | — | 500 | AC18.03022.0500 | CL01.0355.0500 |
| Chromate, $CrO_4^{2-}$ | 10000 | $H_2O$ | ★ | $(NH_4)_2CrO_4$ | — | 500 | AC18.07021.0125 | 250-221-721 |
| Citrate, $C_6H_5O_7^{3-}$ | 1000 | $H_2O$ | ▲ | $C_6H_8O_7$ | — | 100 | AC18.02881.0100 | 21513.0000 |
| Citrate, $C_6H_5O_7^{3-}$ | 1000 | $H_2O$ | ▲ | $C_6H_8O_7$ | — | 250 | AC18.02881.0250 | 21513.1000 |
| Citrate, $C_6H_5O_7^{3-}$ | 1000 | $H_2O$ | ▲ | $C_6H_5Na_3O_7$ | — | 100 | AC18.03174.0100 | CL01.2921.0100 |

| | (µg/mL) | [ ] | | | | (mL) | # | # |
|---|---|---|---|---|---|---|---|---|
| Cyanide, NaCN | 1000 | $H_2O$ | ▲ | $K_2[Zn(CN)_4]$ | – | 100 | AC18.02882.0100 | 21514.0000 |
| Cyanide, NaCN | 1000 | $H_2O$ | ▲ | $K_2[Zn(CN)_4]$ | – | 250 | AC18.02882.0250 | 21514.1000 |
| Cyanide, NaCN | 1000 | $H_2O$ | ▲ | KCN | – | 100 | AC18.03023.0100 | CL01.0371.0100 |
| Cyanide, NaCN | 1000 | $H_2O$ | ▲ | KCN | – | 500 | AC18.03023.0500 | CL01.0371.0500 |
| Cyanide, NaCN | 1000 | $H_2O$ | ▲ | KCN | – | 500 | AC18.03027.0500 | CL01.0376.0500 |
| Cyanide, NaCN | 1000 | $H_2O$ | ▲ | $K_3(Fe(CN)_6)$ | – | 500 | AC18.03028.0500 | CL01.0378.0500 |
| Cyanide, NaCN | 1000 | $H_2O$ | ▲ | $K_2Zn(CN)_4$ | – | 100 | AC18.03029.0100 | CL01.0379.0100 |
| Cyanide, NaCN | 1000 | $H_2O$ | ▲ | $K_2Zn(CN)_4$ | – | 500 | AC18.03029.0500 | CL01.0379.0500 |
| Detergents non ionic | 1000 | $H_2O$ | ▲ | TRITON® X-100 | – | 100 | AC18.03036.0100 | CL01.0421.0100 |
| Detergents non ionic | 1000 | $H_2O$ | ▲ | TRITON® X-100 | – | 500 | AC18.03036.0500 | CL01.0421.0500 |
| Detergents(-) | 1000 | $H_2O$ | ▲ | TPBS | – | 100 | AC18.03034.0100 | CL01.0411.0100 |
| Detergents(-) | 1000 | $H_2O$ | ▲ | TPBS | – | 500 | AC18.03034.0500 | CL01.0411.0500 |
| Detergents(-) | 1000 | $H_2O$ | ▲ | $C_{12}H_{25}NaO_4S$ | – | 100 | AC18.03035.0100 | CL01.0413.0100 |
| Detergents(-) | 1000 | $H_2O$ | ▲ | $C_{12}H_{25}NaO_4S$ | – | 500 | AC18.03035.0500 | CL01.0413.0500 |
| Dichromate, $Cr_2O_7^{2-}$ | 1000 | $H_2O$ | ▲ | $K_2Cr_2O_7$ | – | 100 | AC18.03019.0100 | CL01.0353.0100 |
| Fluoride, $F^-$ | 1000 | $H_2O$ | ▲ | NaF | – | 100 | AC18.02848.0100 | 04309.0000 |
| Fluoride, $F^-$ | 1000 | $H_2O$ | ▲ | NaF | – | 250 | AC18.02848.0250 | 04309.1000 |
| Fluoride, $F^-$ | 1000 | $H_2O$ | ★ | NaF | – | 125 | AC18.03240.0125 | 250-220-400 |
| Fluoride, $F^-$ | 1000 | $H_2O$ | ★ | NaF | – | 500 | AC18.03240.0500 | 250-220-401 |
| Fluoride, $F^-$ | 1000 | $H_2O$ | ★ | NaF | – | 500 | AC18.03040.0500 | CL01.0611.0500 |
| Fluoride, $F^-$ | 1000 | $H_2O$ | ✦ | NaF | – | 500 | AC18.03045.0500 | CL01.0616.0500 |
| Fluoride, $F^-$ | 10000 | $H_2O$ | ★ | NaF | – | 125 | AC18.06499.0125 | 250-221-400 |
| Fluoride, $F^-$ | 10000 | $H_2O$ | ★ | NaF | – | 500 | AC18.06499.0500 | 250-221-401 |
| Fluoride, $F^-$ | 10000 | $H_2O$ | ★ | NaF | – | 100 | AC18.03044.0100 | CL01.0613.0100 |
| Fluoride, $F^-$ | 10000 | $H_2O$ | ★ | NaF | – | 500 | AC18.03044.0500 | CL01.0613.0500 |
| Formaldehyde | 1000 | $H_2O$ | ▲ | HCOH | – | 100 | AC18.03062.0100 | CL01.0651.0100 |
| Formaldehyde | 1000 | $H_2O$ | ▲ | HCOH | – | 500 | AC18.03062.0500 | CL01.0651.0500 |
| Formaldehyde | 1600 | $H_2O$ | ▲ | HCOH | – | 500 | AC18.03064.0500 | CL01.0653.0500 |

ISO 17034

ISO 17025

Analytical Standard

Description

Matrix

Compliance status with relevant ISO standards

Volume or quantity supplied

Legacy Item Number

Current product identification code

Number of analytes

Limited shelf life

Starting material

Concentration

Analyte

| | (µg/mL) | [ ] | | | | (mL) | | |
|---|---|---|---|---|---|---|---|---|
| Formate, $HCOO^-$ | 1000 | $H_2O$ | ▲ | HCOONa | 6M | 100 | AC18.02883.0100 | 21515.0000 |
| Formate, $HCOO^-$ | 1000 | $H_2O$ | ▲ | HCOONa | 6M | 250 | AC18.02883.0250 | 21515.1000 |
| Formate, $HCOO^-$ | 1000 | $H_2O$ | ★ | $CHNaO_2$ | — | 125 | AC18.06467.0125 | 250-220-415 |
| Formate, $HCOO^-$ | 1000 | $H_2O$ | ★ | $CHNaO_2$ | — | 500 | AC18.06467.0500 | 250-220-416 |
| Formate, $HCOO^-$ | 1000 | $H_2O$ | ✦ | HCOONa | — | 100 | AC18.03065.0100 | CL01.0671.0100 |
| Formate, $HCOO^-$ | 10000 | $H_2O$ | ★ | $CHNaO_2$ | — | 125 | AC18.11214.0125 | 250-221-415 |
| Formate, $HCOO^-$ | 10000 | $H_2O$ | ★ | $CHNaO_2$ | — | 500 | AC18.11214.0500 | 250-221-416 |
| Fructose D(-) | 1000 | $H_2O$ | ▲ | $C_6H_{12}O_6$ | — | 100 | AC18.19765.0100 | CL01.0691.0100 |
| Fructose D(-) | 10000 | $H_2O$ | ▲ | $C_6H_{12}O_6$ | — | 100 | AC18.14484.0100 | CL01.0693.0100 |
| Fumarate, $C_4H_2O_4^{2-}$ | 1000 | $H_2O$ | ▲ | $C_4H_4O_4$ | 6M | 100 | AC18.02939.0100 | 26096.0000 |
| Fumarate, $C_4H_2O_4^{2-}$ | 1000 | $H_2O$ | ▲ | $C_4H_4O_4$ | 6M | 250 | AC18.02939.0250 | 26096.1000 |
| Glutarate, $C_5H_6O_4^{2-}$ | 1000 | $H_2O$ | ▲ | $C_5H_8O_4$ | — | 100 | AC18.19772.0100 | CL01.0761.0100 |
| Glycolate, $C_2H_3O_3^-$ | 1000 | $H_2O$ | ★ | $C_2H_4O_3$ | — | 500 | AC18.11217.0500 | 265-000-068 |
| Glycolate, $C_2H_3O_3^-$ | 1000 | $H_2O$ | ▲ | $C_2H_4O_3$ | — | 100 | AC18.03067.0100 | CL01.0751.0100 |
| Glycolate, $C_2H_3O_3^-$ | 10000 | $H_2O$ | ★ | $C_2H_4O_3$ | — | 500 | AC18.11216.0500 | 260-000-005 |
| Hydrogen carbonate, $HCO_3^-$ | 1000 | $H_2O$ | ▲ | $NaHCO_3$ | — | 100 | AC18.03170.0100 | CL01.2311.0100 |
| Hydrogen carbonate, $HCO_3^-$ | 1000 | $H_2O$ | ▲ | $NaHCO_3$ | — | 500 | AC18.03170.0500 | CL01.2311.0500 |
| Hydrogen carbonate, $HCO_3^-$ | 1000 | $H_2O$ | ▲ | $NaHCO_3$ | — | 500 | AC18.03171.0500 | CL01.2316.0500 |
| Iodide, $I^-$ | 1000 | $H_2O$ | ▲ | KI | — | 100 | AC18.02845.0100 | 04301.0000 |
| Iodide, $I^-$ | 1000 | $H_2O$ | ▲ | KI | — | 250 | AC18.02845.0250 | 04301.1000 |
| Iodide, $I^-$ | 1000 | $H_2O$ | ★ | KI | — | 125 | AC18.03247.0125 | 250-220-730 |
| Iodide, $I^-$ | 1000 | $H_2O$ | ★ | KI | — | 500 | AC18.03247.0500 | 250-220-731 |
| Iodide, $I^-$ | 1000 | $H_2O$ | ▲ | KI | — | 500 | AC18.03077.0500 | CL01.1001.0500 |
| Iodide, $I^-$ | 1000 | $H_2O$ | ▲ | KI | — | 500 | AC18.03078.0500 | CL01.1006.0500 |
| Iodide, $I^-$ | 10000 | $H_2O$ | ★ | KI | — | 125 | AC18.06510.0125 | 250-221-730 |
| Iodide, $I^-$ | 10000 | $H_2O$ | ★ | KI | — | 500 | AC18.06510.0500 | 250-221-731 |
| Isobutyrate, $C_4H_7O_2^-$ | 1000 | $H_2O$ | ★ | $C_8H_5KO_4$ | — | 125 | AC18.06490.0125 | 250-220-800 |
| Isobutyrate, $C_4H_7O_2^-$ | 1000 | $H_2O$ | ★ | $C_8H_5KO_4$ | — | 500 | AC18.06490.0500 | 250-220-801 |

| | (µg/mL) | [ ] | | | | (mL) | # | # |
|---|---|---|---|---|---|---|---|---|
| Isocaproate, $C_6H_{11}O_2^-$ | 1000 | $H_2O$ | ★ | $C_3H_8O$ | – | 125 | AC18.06494.0125 | 250-220-840 |
| Isovalerate, $C_5H_9O_2^-$ | 1000 | $H_2O$ | ★ | $C_8H_5KO_4$ | – | 125 | AC18.06492.0125 | 250-220-820 |
| Isovalerate, $C_5H_9O_2^-$ | 1000 | $H_2O$ | ★ | $C_8H_5KO_4$ | – | 500 | AC18.06492.0500 | 250-220-821 |
| Lactose | 1000 | $H_2O$ | ▲ | $C_{12}H_{22}O_{11}$ | – | 100 | AC18.03085.0100 | CL01.1261.0100 |
| Lactose | 10000 | $H_2O$ | ▲ | $C_{12}H_{22}O_{11}$ | – | 100 | AC18.13267.0100 | CL01.1263.0100 |
| L-Lactate, $C_3H_5O_3^-$ | 1000 | $H_2O$ | ▲ | $C_3H_5NaO_3$ | – | 100 | AC18.03084.0100 | CL01.1241.0100 |
| Malate, $C_4H_4O_5^{2-}$ | 1000 | $H_2O$ | ▲ | $C_4H_6O_5$ | – | 100 | AC18.02884.0100 | 21516.0000 |
| Malate, $C_4H_4O_5^{2-}$ | 1000 | $H_2O$ | ▲ | $C_4H_6O_5$ | – | 100 | AC18.03112.0100 | CL01.1382.0100 |
| Maleate, $C_4H_2O_4^{2-}$ | 1000 | $H_2O$ | ▲ | $C_4H_2O_4$ | – | 100 | AC18.07259.0100 | 26098.0000 |
| Maleate, $C_4H_2O_4^{2-}$ | 1000 | $H_2O$ | ▲ | $C_4H_2O_4$ | – | 250 | AC18.07259.0250 | 26098.1000 |
| Malonate, $C_3H_2O_4^{2-}$ | 1000 | $H_2O$ | ▲ | $C_3H_4O_4$ | – | 100 | AC18.02885.0100 | 21517.0000 |
| Malonate, $C_3H_2O_4^{2-}$ | 1000 | $H_2O$ | ▲ | $C_3H_4O_4$ | – | 250 | AC18.02885.0250 | 21517.1000 |
| Malonate, $C_3H_2O_4^{2-}$ | 1000 | $H_2O$ | ★ | $C_8H_5KO_4$ | – | 125 | AC18.06446.0125 | 250-220-940 |
| Malonate, $C_3H_2O_4^{2-}$ | 1000 | $H_2O$ | ▲ | $C_3H_4O_4$ | – | 100 | AC18.03114.0100 | CL01.1384.0100 |
| Methoxypropylamine -(3) | 1000 | $H_2O$ | ▲ | $C_4H_{11}NO$ | – | 100 | AC18.20349.0100 | CL01.1381.0100 |
| Molybdate, $MoO_4^{2-}$ | 1000 | $H_2O$ | ★ | $Na_2MoO_4$ | – | 125 | AC18.06488.0125 | 250-220-780 |
| Molybdate, $MoO_4^{2-}$ | 1000 | $H_2O$ | ★ | $Na_2MoO_4$ | – | 500 | AC18.06488.0500 | 250-220-781 |
| Molybdate, $MoO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $Na_2MoO_4 \cdot 2H_2O$ | – | 100 | AC18.03111.0100 | CL01.1361.0100 |
| Molybdate, $MoO_4^{2-}$ | 10000 | $H_2O$ | ★ | $Na_2MoO_4$ | – | 125 | AC18.06512.0125 | 250-221-780 |
| Nitrate as Nitrogen, $NO_3^-$/N | 1000 | $H_2O$ | ★ | $NaNO_3$ | – | 125 | AC18.06470.0125 | 250-220-520 |
| Nitrate as Nitrogen, $NO_3^-$/N | 1000 | $H_2O$ | ★ | $NaNO_3$ | – | 500 | AC18.06470.0500 | 250-220-521 |
| Nitrate as Nitrogen, $NO_3^-$/N | 10000 | $H_2O$ | ★ | $NaNO_3$ | – | 125 | AC18.06502.0125 | 250-221-520 |
| Nitrate as Nitrogen, $NO_3^-$/N | 10000 | $H_2O$ | ★ | $NaNO_3$ | – | 500 | AC18.06502.0500 | 250-221-521 |
| Nitrate, $NO_3^-$ | 1000 | $H_2O$ | ▲ | $KNO_3$ | – | 100 | AC18.02849.0100 | 04313.0000 |
| Nitrate, $NO_3^-$ | 1000 | $H_2O$ | ▲ | $KNO_3$ | – | 250 | AC18.02849.0250 | 04313.1000 |
| Nitrate, $NO_3^-$ | 1000 | $H_2O$ | ★ | $NaNO_3$ | – | 125 | AC18.03241.0125 | 250-220-505 |
| Nitrate, $NO_3^-$ | 1000 | $H_2O$ | ★ | $NaNO_3$ | – | 500 | AC18.03241.0500 | 250-220-506 |
| Nitrate, $NO_3^-$ | 1000 | $H_2O$ | ★ | $KNO_3$ | – | 100 | AC18.03117.0100 | CL01.1441.0100 |

| | (µg/mL) | [ ] | | | | (mL) | | |
|---|---|---|---|---|---|---|---|---|
| Nitrate, $NO_3^-$ | 1000 | $H_2O$ | ★ | $KNO_3$ | – | 500 | AC18.03117.0500 | CL01.1441.0500 |
| Nitrate, $NO_3^-$ | 1000 | $H_2O$ | ✦ | $KNO_3$ | – | 500 | AC18.03121.0500 | CL01.1446.0500 |
| Nitrate, $NO_3^-$ | 10000 | $H_2O$ | ★ | $NaNO_3$ | – | 125 | AC18.06501.0125 | 250-221-505 |
| Nitrate, $NO_3^-$ | 10000 | $H_2O$ | ★ | $NaNO_3$ | – | 500 | AC18.06501.0500 | 250-221-506 |
| Nitrate, $NO_3^-$ | 10000 | $H_2O$ | ★ | $KNO_3$ | – | 100 | AC18.03120.0100 | CL01.1442.0100 |
| Nitrate, $NO_3^-$ | 10000 | $H_2O$ | ★ | $KNO_3$ | – | 500 | AC18.03120.0500 | CL01.1442.0500 |
| Nitrite as Nitrogen, $NO_2^-$/N | 1000 | $H_2O$ | ★ | $NaNO_2$ | – | 125 | AC18.06472.0125 | 250-220-550 |
| Nitrite as Nitrogen, $NO_2^-$/N | 1000 | $H_2O$ | ★ | $NaNO_2$ | – | 500 | AC18.06472.0500 | 250-220-551 |
| Nitrite as Nitrogen, $NO_2^-$/N | 10000 | $H_2O$ | ★ | $NaNO_2$ | – | 125 | AC18.06504.0125 | 250-221-550 |
| Nitrite as Nitrogen, $NO_2^-$/N | 10000 | $H_2O$ | ★ | $NaNO_2$ | – | 500 | AC18.06504.0500 | 250-221-551 |
| Nitrite, $NO_2^-$ | 10 | $H_2O$ | ★ | $NaNO_2$ | – | 125 | AC18.06455.0125 | 141-315-021 |
| Nitrite, $NO_2^-$ | 1000 | $H_2O$ | ▲ | $NaNO_2$ | – | 100 | AC18.02866.0100 | 12837.0000 |
| Nitrite, $NO_2^-$ | 1000 | $H_2O$ | ▲ | $NaNO_2$ | – | 250 | AC18.02866.0250 | 12837.1000 |
| Nitrite, $NO_2^-$ | 1000 | $H_2O$ | ★ | $NaNO_2$ | – | 125 | AC18.03242.0125 | 250-220-535 |
| Nitrite, $NO_2^-$ | 1000 | $H_2O$ | ★ | $NaNO_2$ | – | 500 | AC18.03242.0500 | 250-220-536 |
| Nitrite, $NO_2^-$ | 1000 | $H_2O$ | ★ | $NaNO_2$ | – | | AC18.03242.0002 | 250-220-537 |
| Nitrite, $NO_2^-$ | 1000 | $H_2O$ | ★ | $NaNO_2$ | – | 100 | AC18.03122.0100 | CL01.1451.0100 |
| Nitrite, $NO_2^-$ | 1000 | $H_2O$ | ★ | $NaNO_2$ | – | 500 | AC18.03122.0500 | CL01.1451.0500 |
| Nitrite, $NO_2^-$ | 1000 | $H_2O$ | ✦ | $NaNO_2$ | – | 500 | AC18.03126.0500 | CL01.1456.0500 |
| Nitrite, $NO_2^-$ | 10000 | $H_2O$ | ★ | $NaNO_2$ | – | 125 | AC18.06503.0125 | 250-221-535 |
| Nitrite, $NO_2^-$ | 10000 | $H_2O$ | ★ | $NaNO_2$ | – | 500 | AC18.06503.0500 | 250-221-536 |
| Nitrite, $NO_2^-$ | 10000 | $H_2O$ | ★ | $NaNO_2$ | – | 100 | AC18.03125.0100 | CL01.1452.0100 |
| Nitrite, $NO_2^-$ | 10000 | $H_2O$ | ★ | $NaNO_2$ | – | 500 | AC18.03125.0500 | CL01.1452.0500 |
| Oxalate, $C_2O_4^{2-}$ | 1000 | $H_2O$ | ▲ | $H_2C_2O_4 \cdot 2H_2O$ | – | 100 | AC18.02886.0100 | 21518.0000 |
| Oxalate, $C_2O_4^{2-}$ | 1000 | $H_2O$ | ▲ | $H_2C_2O_4 \cdot 2H_2O$ | – | 250 | AC18.02886.0250 | 21518.1000 |
| Oxalate, $C_2O_4^{2-}$ | 1000 | $H_2O$ | ★ | $Na_2C_2O_4$ | – | 125 | AC18.06473.0125 | 250-220-565 |
| Oxalate, $C_2O_4^{2-}$ | 1000 | $H_2O$ | ★ | $Na_2C_2O_4$ | – | 500 | AC18.06473.0500 | 250-220-566 |
| Oxalate, $C_2O_4^{2-}$ | 1000 | $H_2O$ | ▲ | $Na_2C_2O_4$ | – | 100 | AC18.03127.0100 | CL01.1511.0100 |

| | (µg/mL) | [ ] | | | | (mL) | | |
|---|---|---|---|---|---|---|---|---|
| Perchlorate, $ClO_4^-$ | 1000 | $H_2O$ | ★ | $KClO_4$ | — | 125 | AC18.06474.0125 | 250-220-580 |
| Perchlorate, $ClO_4^-$ | 1000 | $H_2O$ | ★ | $KClO_4$ | — | 500 | AC18.06474.0500 | 250-220-581 |
| Perchlorate, $ClO_4^-$ | 1000 | $H_2O$ | ▲ | $KClO_4$ | — | 100 | AC18.03015.0100 | CL01.0349.0100 |
| Perchlorate, $ClO_4^-$ | 1000 | $H_2O$ | ▲ | $KClO_4$ | — | 500 | AC18.03015.0500 | CL01.0349.0500 |
| Phenol, $C_6H_5O^-$ | 1000 | 0.4% NaOH | ▲ | $C_6H_5OH$ | — | 100 | AC18.03039.0100 | CL01.0601.0100 |
| Phenol, $C_6H_5O^-$ | 1000 | 0.4% NaOH | ▲ | $C_6H_5OH$ | — | 500 | AC18.03039.0500 | CL01.0601.0500 |
| Phosphate as Phosphorus, $PO_4^{3-}$/P | 1000 | $H_2O$ | ★ | $KH_2PO_4$ | — | 125 | AC18.03244.0125 | 250-220-610 |
| Phosphate as Phosphorus, $PO_4^{3-}$/P | 1000 | $H_2O$ | ★ | $KH_2PO_4$ | — | 500 | AC18.03244.0500 | 250-220-611 |
| Phosphate as Phosphorus, $PO_4^{3-}$/P | 10000 | $H_2O$ | ★ | $KH_2PO_4$ | — | 125 | AC18.06506.0125 | 250-221-610 |
| Phosphate as Phosphorus, $PO_4^{3-}$/P | 10000 | $H_2O$ | ★ | $KH_2PO_4$ | — | 500 | AC18.06506.0500 | 250-221-611 |
| Phosphate, $PO_4^{3-}$ | 1000 | $H_2O$ | ▲ | $KH_2PO_4$ | — | 100 | AC18.02850.0100 | 04314.0000 |
| Phosphate, $PO_4^{3-}$ | 1000 | $H_2O$ | ▲ | $KH_2PO_4$ | — | 250 | AC18.02850.0250 | 04314.1000 |
| Phosphate, $PO_4^{3-}$ | 1000 | $H_2O$ | ★ | $KH_2PO_4$ | — | 125 | AC18.03243.0125 | 250-220-595 |
| Phosphate, $PO_4^{3-}$ | 1000 | $H_2O$ | ★ | $KH_2PO_4$ | — | 500 | AC18.03243.0500 | 250-220-596 |
| Phosphate, $PO_4^{3-}$ | 1000 | $H_2O$ | ✦ | $KH_2PO_4$ | — | 500 | AC18.03046.0500 | CL01.0617.0500 |
| Phosphate, $PO_4^{3-}$ | 1000 | $H_2O$ | ★ | $NaNH_4HPO_4{\cdot}4H_2O$ | — | 100 | AC18.03048.0100 | CL01.0622.0100 |
| Phosphate, $PO_4^{3-}$ | 1000 | $H_2O$ | ★ | $NaNH_4HPO_4{\cdot}4H_2O$ | — | 500 | AC18.03048.0500 | CL01.0622.0500 |
| Phosphate, $PO_4^{3-}$ | 1000 | $H_2O$ | ✦ | $NaNH_4HPO_4{\cdot}4H_2O$ | — | 500 | AC18.03053.0500 | CL01.0627.0500 |
| Phosphate, $PO_4^{3-}$ | 10000 | $H_2O$ | ★ | $KH_2PO_4$ | — | 125 | AC18.06505.0125 | 250-221-595 |
| Phosphate, $PO_4^{3-}$ | 10000 | $H_2O$ | ★ | $KH_2PO_4$ | — | 500 | AC18.07071.0500 | 250-221-596 |
| Phosphate, $PO_4^{3-}$ | 10000 | $H_2O$ | ★ | $NaNH_4HPO_4{\cdot}4H_2O$ | — | 100 | AC18.03049.0100 | CL01.0623.0100 |
| Phosphate, $PO_4^{3-}$ | 10000 | $H_2O$ | ★ | $KH_2PO_4$ | — | 100 | AC18.03050.0100 | CL01.0624.0100 |
| Phosphate, $PO_4^{3-}$ | 10000 | $H_2O$ | ★ | $KH_2PO_4$ | — | 500 | AC18.03050.0500 | CL01.0624.0500 |
| Phosphate, $PO_4^{3-}$ | 10000 | $H_2O$ | ▲ | $H_3PO_4$ | — | 500 | AC18.03051.0500 | CL01.0625.0500 |
| Phosphorus pentoxide, $P_2O_5$ | 1000 | $H_2O$ | ★ | $H_3PO_4$ | — | 100 | AC18.03047.0100 | CL01.0621.0100 |
| Phosphorus pentoxide, $P_2O_5$ | 1000 | $H_2O$ | ★ | $H_3PO_4$ | — | 500 | AC18.03047.0500 | CL01.0621.0500 |
| Phosphorus pentoxide, $P_2O_5$ | 1000 | $H_2O$ | ✦ | $H_3PO_4$ | — | 500 | AC18.03052.0500 | CL01.0626.0500 |
| Phosphorus, $PO_4^{3-}$ | 1000 | $H_2O$ | ▲ | $KH_2PO_4$ | — | 100 | AC18.02887.0100 | 21519.0000 |

★ ISO 17034
✦ ISO 17025
▲ Analytical Standard

Description
[ ] Matrix
Compliance status with relevant ISO standards
Volume or quantity supplied
Legacy Item Number
Current product identification code
Number of analytes
Limited shelf life
Starting material
Concentration
Analyte

ISO 17034

ISO 17025

Analytical Standard

Description

Matrix

Compliance status with relevant ISO standards

Volume or quantity supplied

Legacy Item Number

Current product identification code

Number of analytes

Limited shelf life

Starting material

Concentration

Analyte

| | (µg/mL) | [ ] | | | | (mL) | | |
|---|---|---|---|---|---|---|---|---|
| Phosphorus, $PO_4^{3-}$ | 1000 | $H_2O$ | ▲ | $KH_2PO_4$ | – | 250 | AC18.02887.0250 | 21519.1000 |
| Phosphorus, $PO_4^{3-}$ | 1000 | $H_2O$ | ★ | $(NH_4)_2HPO_4$ | – | 100 | AC18.03054.0100 | CL01.0631.0100 |
| Phosphorus, $PO_4^{3-}$ | 1000 | $H_2O$ | ★ | $(NH_4)_2HPO_4$ | – | 500 | AC18.03054.0500 | CL01.0631.0500 |
| Phosphorus, $PO_4^{3-}$ | 1000 | 2 to 5% $HNO_3$ | ★ | $H_3PO_4$ | – | 100 | AC18.03057.0100 | CL01.0641.0100 |
| Phosphorus, $PO_4^{3-}$ | 1000 | 2 to 5% $HNO_3$ | ★ | $H_3PO_4$ | – | 500 | AC18.03057.0500 | CL01.0641.0500 |
| Phosphorus, $PO_4^{3-}$ | 1000 | $H_2O$ | ✦ | $KH_2PO_4$ | 6M | 100 | AC18.03061.0100 | CL01.0646.0100 |
| Phosphorus, $PO_4^{3-}$ | 1000 | $H_2O$ | ✦ | $KH_2PO_4$ | 6M | 500 | AC18.03061.0500 | CL01.0646.0500 |
| Phosphorus, $PO_4^{3-}$ | 10000 | $H_2O$ | ★ | $(NH_4)_2HPO_4$ | – | 100 | AC18.03055.0100 | CL01.0633.0100 |
| Phosphorus, $PO_4^{3-}$ | 10000 | $H_2O$ | ★ | $(NH_4)_2HPO_4$ | – | 500 | AC18.03055.0500 | CL01.0633.0500 |
| Phosphorus, $PO_4^{3-}$ | 10000 | $H_2O$ | ★ | $H_3PO_4$ | – | 100 | AC18.03056.0100 | CL01.0634.0100 |
| Phosphorus, $PO_4^{3-}$ | 10000 | 2 to 5% $HNO_3$ | ★ | $H_3PO_4$ | – | 100 | AC18.03060.0100 | CL01.0643.0100 |
| Phosphorus, $PO_4^{3-}$ | 10000 | 2 to 5% $HNO_3$ | ★ | $H_3PO_4$ | – | 500 | AC18.03060.0500 | CL01.0643.0500 |
| Phthalate, $C_6H_4(CO_2)_2^{2-}$ | 1000 | $H_2O$ | ▲ | $C_8H_6O_4$ | – | 100 | AC18.02888.0100 | 21520.0000 |
| Phthalate, $C_6H_4(CO_2)_2^{2-}$ | 1000 | $H_2O$ | ▲ | $C_8H_6O_4$ | – | 250 | AC18.02888.0250 | 21520.1000 |
| Phthalate, $C_6H_4(CO_2)_2^{2-}$ | 1000 | $H_2O$ | ✦ | $C_8H_5KO_4$ | – | 100 | AC18.03066.0100 | CL01.0672.0100 |
| Propionate, $CH_3CH_2COO^-$ | 1000 | $H_2O$ | ▲ | $C_3H_6O_2$ | – | 100 | AC18.02889.0100 | 21521.0000 |
| Propionate, $CH_3CH_2COO^-$ | 1000 | $H_2O$ | ★ | $C_8H_5KO_4$ | – | 125 | AC18.06485.0125 | 250-220-740 |
| Propionate, $CH_3CH_2COO^-$ | 1000 | $H_2O$ | ★ | $C_8H_5KO_4$ | – | 500 | AC18.06485.0500 | 250-220-741 |
| Propionate, $CH_3CH_2COO^-$ | 1000 | $H_2O$ | ▲ | $C_2H_5CO_2Na$ | – | 100 | AC18.03128.0100 | CL01.1631.0100 |
| Propionate, $CH_3CH_2COO^-$ | 10000 | $H_2O$ | ★ | $C_3H_6O_2$ | – | 125 | AC18.11235.0125 | 250-221-740 |
| Propionate, $CH_3CH_2COO^-$ | 10000 | $H_2O$ | ★ | $C_3H_6O_2$ | – | 500 | AC18.11235.0500 | 250-221-741 |
| Silicate, $SiO_4^{4-}$ | 1000 | 0.4% NaOH | ▲ | $SiO_2$ | – | 100 | AC18.03131.0100 | CL01.1941.0100 |
| Silicate, $SiO_4^{4-}$ | 1000 | 0.4% NaOH | ▲ | $SiO_2$ | – | 500 | AC18.03131.0500 | CL01.1941.0500 |
| Silicate, $SiO_4^{4-}$ | 1000 | 0.4% NaOH | ▲ | $SiO_2$ | – | 500 | AC18.03132.0500 | CL01.1946.0500 |
| Succinate, $C_4H_4O_4^{2-}$ | 1000 | $H_2O$ | ▲ | $C_4H_6O_4$ | – | 100 | AC18.03234.0100 | CL01.4511.0100 |
| Sulfate as Sulfur, $SO_4^{2-}$ as S | 1000 | $H_2O$ | ★ | $K_2SO_4$ | – | 125 | AC18.06482.0125 | 250-220-715 |

| | (µg/mL) | [ ] | | | | (mL) | # | # |
|---|---|---|---|---|---|---|---|---|
| Sulfate as Sulfur, $SO_4^{2-}$ as S | 1000 | $H_2O$ | ★ | $K_2SO_4$ | — | 500 | AC18.06482.0500 | 250-220-716 |
| Sulfate as Sulfur, $SO_4^{2-}$ as S | 10000 | $H_2O$ | ★ | $K_2SO_4$ | — | 500 | AC18.07076.0125 | 250-221-716 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $Na_2SO_4$ | — | 100 | AC18.02872.0100 | 15682.0000 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $Na_2SO_4$ | — | 250 | AC18.02872.0250 | 15682.1000 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $Na_2SO_4$ | — | 500 | AC18.02872.0500 | 15682.2000 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $K_2SO_4$ | — | 100 | AC18.02851.0100 | 04315.0000 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $K_2SO_4$ | — | 250 | AC18.02851.0250 | 04315.1000 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ★ | $K_2SO_4$ | — | 125 | AC18.03245.0125 | 250-220-700 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ★ | $K_2SO_4$ | — | 500 | AC18.03245.0500 | 250-220-701 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ★ | $Na_2SO_4$ | — | 100 | AC18.03150.0100 | CL01.1971.0100 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ★ | $Na_2SO_4$ | — | 500 | AC18.03150.0500 | CL01.1971.0500 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ★ | $K_2SO_4$ | — | 100 | AC18.03154.0100 | CL01.1972.0100 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ★ | $K_2SO_4$ | — | 500 | AC18.03154.0500 | CL01.1972.0500 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $H_2SO_4$ | — | 100 | AC18.03157.0100 | CL01.1975.0100 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $H_2SO_4$ | — | 500 | AC18.03157.0500 | CL01.1975.0500 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ✦ | $Na_2SO_4$ | — | 500 | AC18.03158.0500 | CL01.1976.0500 |
| Sulfate, $SO_4^{2-}$ | 1000 | $H_2O$ | ▲ | $H_2SO_4$ | — | 500 | AC18.03159.0500 | CL01.1978.0500 |
| Sulfate, $SO_4^{2-}$ | 10000 | $H_2O$ | ★ | $K_2SO_4$ | — | 125 | AC18.06509.0125 | 250-221-700 |
| Sulfate, $SO_4^{2-}$ | 10000 | $H_2O$ | ★ | $K_2SO_4$ | — | 500 | AC18.06509.0500 | 250-221-701 |
| Sulfate, $SO_4^{2-}$ | 10000 | $H_2O$ | ★ | $Na_2SO_4$ | — | 100 | AC18.03155.0100 | CL01.1973.0100 |
| Sulfate, $SO_4^{2-}$ | 10000 | $H_2O$ | ★ | $Na_2SO_4$ | — | 500 | AC18.03155.0500 | CL01.1973.0500 |
| Sulfate, $SO_4^{2-}$ | 10000 | $H_2O$ | ★ | $K_2SO_4$ | — | 100 | AC18.03156.0100 | CL01.1974.0100 |
| Tartrate, $C_4H_4O_6^{2-}$ | 1000 | $H_2O$ | ▲ | $C_4H_6O_6$ | — | 100 | AC18.02892.0100 | 21525.0000 |
| Tartrate, $C_4H_4O_6^{2-}$ | 1000 | $H_2O$ | ▲ | $C_4H_6O_6$ | — | 100 | AC18.20527.0100 | CL01.2341.0100 |
| Thiocyanate, $SCN^-$ | 1000 | $H_2O$ | ▲ | KSCN | — | 100 | AC18.02893.0100 | 21526.0000 |
| Thiocyanate, $SCN^-$ | 1000 | $H_2O$ | ▲ | KSCN | — | 250 | AC18.02893.0250 | 21526.1000 |
| Thiocyanate, $SCN^-$ | 1000 | $H_2O$ | ▲ | KCNS | — | 100 | AC18.03173.0100 | CL01.2661.0100 |
| Thiocyanate, $SCN^-$ | 1000 | $H_2O$ | ▲ | KCNS | — | 500 | AC18.03173.0500 | CL01.2661.0500 |

| | (µg/mL) | [ ] | | | | (mL) | | |
|---|---|---|---|---|---|---|---|---|
| Thiosulfate, $S_2O_3^{2-}$ | 1000 | $H_2O$ | ▲ | $Na_2S_2O_3 \cdot 5H_2O$ | 6M | 100 | AC18.02869.0100 | 13564.0000 |
| Thiosulfate, $S_2O_3^{2-}$ | 1000 | $H_2O$ | ▲ | $Na_2S_2O_3 \cdot 5H_2O$ | 6M | 250 | AC18.02869.0250 | 13564.1000 |
| Thiosulfate, $S_2O_3^{2-}$ | 1000 | $H_2O$ | ▲ | $Na_2S_2O_3$ | — | 100 | AC18.03172.0100 | CL01.2351.0100 |
| Valerate, $C_4H_9COO^-$ | 1000 | $H_2O$ | ★ | $C_5H_{10}O_2$ | — | 125 | AC18.06491.0125 | 250-220-810 |
| Valerate, $C_4H_9COO^-$ | 1000 | $H_2O$ | ★ | $C_5H_{10}O_2$ | — | 500 | AC18.06491.0500 | 250-220-811 |

# Single Cations

Single cation standards support IC methods used for alkali metals, alkaline earth metals, ammonium, transition-metal cations, hardness-related determinations, and process-control applications. They are useful where laboratories need targeted calibration for individual cations, retention-time confirmation, independent quality-control checks, or preparation of custom cation mixtures.

**Why choose Single Cations?**

- Flexible calibration for routine cation analysis, including ammonium, sodium, potassium, calcium, magnesium, lithium, barium, strontium, and selected transition metals.
- Suitable for environmental water, wastewater, boiler and process water, food and beverage, chemical manufacturing, and industrial monitoring workflows.
- Useful as building blocks for custom multi-cation standards, matrix-matched controls, and method-specific calibration sets.

ISO 17034
ISO 17025
Analytical Standard
Description
Matrix
Compliance status with relevant ISO standards
Volume or quantity supplied
Legacy Item Number
Current product identification code
Number of analytes
Limited shelf life
Starting material
Concentration
Analyte

| | (µg/mL) | [▦] | | | | (mL) | | |
|---|---|---|---|---|---|---|---|---|
| Ammonium as N, $NH_4^+$ | 1000 | $H_2O$ | ★ | $NH_4Cl$ | – | 125 | AC18.06460.0125 | 250-220-120 |
| Ammonium as N, $NH_4^+$ | 1000 | $H_2O$ | ★ | $NH_4Cl$ | – | 500 | AC18.06460.0500 | 250-220-121 |
| Ammonium, $NH_4^+$ | 1000 | $H_2O$ | ▲ | $NH_4Cl$ | 6M | 500 | AC18.02859.0500 | 10337.2000 |
| Ammonium, $NH_4^+$ | 1000 | $H_2O$ | ▲ | $NH_4Cl$ | 6M | 1000 | AC18.02859.1000 | 10337.3000 |
| Ammonium, $NH_4^+$ | 1000 | $H_2O$ | ▲ | $NH_4Cl$ | – | 100 | AC18.02894.0100 | 21527.0000 |
| Ammonium, $NH_4^+$ | 1000 | $H_2O$ | ▲ | $NH_4Cl$ | – | 250 | AC18.02894.0250 | 21527.1000 |
| Ammonium, $NH_4^+$ | 1000 | $H_2O$ | ★ | $NH_4Cl$ | – | 125 | AC18.05829.0025 | 250-220-130 |
| Ammonium, $NH_4^+$ | 1000 | $H_2O$ | ★ | $NH_4Cl$ | – | 250 | AC18.06461.0125 | 250-220-131 |
| Ammonium, $NH_4^+$ | 1000 | $H_2O$ | ★ | $NH_4Cl$ | – | 500 | AC18.06461.0500 | 250-220-132 |
| Ammonium, $NH_4^+$ | 1000 | $H_2O$ | ▲ | $NH_4Cl$ | – | 100 | AC18.02987.0100 | CL01.0111.0100 |
| Ammonium, $NH_4^+$ | 1000 | $H_2O$ | ▲ | $NH_4Cl$ | – | 500 | AC18.02987.0500 | CL01.0111.0500 |
| Ammonium, $NH_4^+$ | 1000 | $H_2O$ | ▲ | $(NH_4)_2SO_4$ | – | 500 | AC18.02990.0500 | CL01.0114.0500 |
| Ammonium, $NH_4^+$ | 1000 | $H_2O$ | ▲ | $NH_4Cl$ | – | 500 | AC18.02992.0500 | CL01.0116.0500 |
| Ammonium, $NH_4^+$ | 10000 | $H_2O$ | ▲ | $NH_4Cl$ | – | 1000 | AC18.02860.1000 | 10646.3000 |
| Ammonium, $NH_4^+$ | 10000 | $H_2O$ | ★ | $NH_4Cl$ | – | 125 | AC18.06496.0125 | 250-221-130 |
| Ammonium, $NH_4^+$ | 10000 | $H_2O$ | ★ | $NH_4Cl$ | – | 500 | AC18.06496.0500 | 250-221-131 |
| Barium, $Ba^{2+}$ | 1000 | $H_2O$ | ★ | $BaCl_2 \cdot 2H_2O$ | – | 125 | AC18.06462.0125 | 250-220-175 |
| Barium, $Ba^{2+}$ | 1000 | $H_2O$ | ▲ | $BaCl_2 \cdot 2H_2O$ | – | 100 | AC18.02996.0100 | CL01.0208.0100 |
| Barium, $Ba^{2+}$ | 1000 | $H_2O$ | ▲ | $BaCl_2 \cdot 2H_2O$ | – | 500 | AC18.02996.0500 | CL01.0208.0500 |
| Cadmium, $Cd^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | Cd | – | 100 | AC18.02897.0100 | 21530.0000 |
| Cadmium, $Cd^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | Cd | – | 250 | AC18.02897.0250 | 21530.1000 |
| Calcium, $Ca^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | $CaCO_3$ | – | 100 | AC18.02898.0100 | 21531.0000 |
| Calcium, $Ca^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | $CaCO_3$ | – | 250 | AC18.02898.0250 | 21531.1000 |
| Calcium, $Ca^{2+}$ | 1000 | $H_2O$ | ★ | $CaCl_2$ | – | 125 | AC18.06465.0125 | 250-220-250 |
| Calcium, $Ca^{2+}$ | 1000 | $H_2O$ | ★ | $CaCl_2$ | – | 500 | AC18.06465.0500 | 250-220-251 |
| Calcium, $Ca^{2+}$ | 1000 | $H_2O$ | ✦ | $CaCl_2 \cdot 2H_2O$ | – | 500 | AC18.03002.0500 | CL01.0315.0500 |
| Calcium, $Ca^{2+}$ | 1000 | $H_2O$ | ★ | $CaCl_2 \cdot 2H_2O$ | – | 100 | AC18.03003.0100 | CL01.0320.0100 |
| Calcium, $Ca^{2+}$ | 1000 | $H_2O$ | ★ | $CaCl_2 \cdot 2H_2O$ | – | 100 | AC18.03006.0100 | CL01.0338.0100 |

| | (µg/mL) | | | | | (mL) | | |
|---|---|---|---|---|---|---|---|---|
| Calcium, $Ca^{2+}$ | 1000 | $H_2O$ | ★ | $CaCl_2{\cdot}2H_2O$ | – | 500 | AC18.03006.0500 | CL01.0338.0500 |
| Calcium, $Ca^{2+}$ | 10000 | $H_2O$ | ★ | $CaCl_2{\cdot}2H_2O$ | – | 125 | AC18.06498.0125 | 250-221-250 |
| Calcium, $Ca^{2+}$ | 10000 | $H_2O$ | ★ | $CaCl_2{\cdot}2H_2O$ | – | 500 | AC18.06498.0500 | 250-221-251 |
| Cesium, $Cs^{+}$ | 1000 | $H_2O$ | ✦ | CsCl | – | 500 | AC18.03004.0500 | CL01.0335.0500 |
| Cobalt, $Co^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | Co | – | 250 | AC18.02899.0250 | 21532.1000 |
| Copper, $Cu^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | Cu | – | 100 | AC18.02901.0100 | 21534.0000 |
| Detergents(+) | 1000 | $H_2O$ | ▲ | CTAB | – | 100 | AC18.03033.0100 | CL01.0401.0100 |
| Dimethylamine, $(CH_3)_2NH$ | 1000 | $H_2O$ | ▲ | $C_2H_7N$ | – | 100 | AC18.03037.0100 | CL01.0461.0100 |
| Galactose D(+) | 10000 | $H_2O$ | ▲ | $C_6H_{12}O_6$ | – | 100 | AC18.13260.0100 | CL01.0781.0100 |
| Glucose, D(+) | 1000 | $H_2O$ | ▲ | $C_6H_{12}O_6$ | – | 100 | AC18.03068.0100 | CL01.0771.0100 |
| Glucose, D(+) | 10000 | $H_2O$ | ▲ | $C_6H_{12}O_6$ | – | 100 | AC18.03069.0100 | CL01.0773.0100 |
| Hardness $CaCO_3$ | 1000 | 0.4% HCl | ▲ | $CaCO_3$ | 6M | 500 | AC18.03071.0500 | CL01.0812.0500 |
| Hardness $CaCO_3$ | 1000 | 0.4% HCl | ▲ | $CaCO_3$ | – | 500 | AC18.03073.0500 | CL01.0817.0500 |
| Hardness $CaCO_3$ | 1786 | 0.4% HCl | ▲ | $CaCO_3$ | – | 100 | AC18.03070.0100 | CL01.0811.0100 |
| Hardness $CaCO_3$ | 1786 | 0.4% HCl | ▲ | $CaCO_3$ | – | 500 | AC18.03070.0500 | CL01.0811.0500 |
| Hardness $CaCO_3$ | 1786 | 0.4% HCl | ▲ | $CaCO_3$ | – | 500 | AC18.03072.0500 | CL01.0816.0500 |
| Hydrazine | 1000 | $H_2O$ | ▲ | $N_2H_4{\cdot}H_2SO_4$ | – | 100 | AC18.03074.0100 | CL01.0831.0100 |
| Hydrazine | 1000 | $H_2O$ | ▲ | $N_2H_4{\cdot}H_2SO_4$ | – | 500 | AC18.03074.0500 | CL01.0831.0500 |
| Hydrazine | 1000 | $H_2O$ | ▲ | $N_2H_4{\cdot}H_2SO_4$ | – | 500 | AC18.03075.0500 | CL01.0836.0500 |
| Lead, $Pb^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | $Pb(NO_3)_2$ | – | 100 | AC18.02896.0100 | 21529.0000 |
| Lithium, $Li^{+}$ | 1000 | 0.1% $HNO_3$ | ▲ | $Li_2CO_3$ | – | 100 | AC18.02902.0100 | 21535.0000 |
| Lithium, $Li^{+}$ | 1000 | 0.1% $HNO_3$ | ▲ | $Li_2CO_3$ | – | 250 | AC18.02902.0250 | 21535.1000 |
| Lithium, $Li^{+}$ | 1000 | $H_2O$ | ★ | LiCl | – | 125 | AC18.06468.0125 | 250-220-445 |
| Lithium, $Li^{+}$ | 1000 | $H_2O$ | ★ | LiCl | – | 500 | AC18.06468.0500 | 250-220-446 |
| Lithium, $Li^{+}$ | 1000 | $H_2O$ | ✦ | LiCl | – | 500 | AC18.03082.0500 | CL01.1215.0500 |
| Lithium, $Li^{+}$ | 1000 | $H_2O$ | ★ | LiCl | – | 100 | AC18.03083.0100 | CL01.1218.0100 |
| Lithium, $Li^{+}$ | 1000 | $H_2O$ | ★ | LiCl | – | 500 | AC18.03083.0500 | CL01.1218.0500 |
| Magnesium, $Mg^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | $Mg(NO_3)_2$ | – | 100 | AC18.02903.0100 | 21536.0000 |

★ ISO 17034
✦ ISO 17025
▲ Analytical Standard

Description
Matrix
Compliance status with relevant ISO standards
Volume or quantity supplied
Legacy Item Number
Current product identification code
Number of analytes
Limited shelf life
Starting material
Concentration
Analyte

ISO 17034

ISO 17025

Analytical Standard

Description

Matrix

Compliance status with relevant ISO standards

Volume or quantity supplied

Legacy Item Number

Current product identification code

Number of analytes

Limited shelf life

Starting material

Concentration

Analyte

| | (µg/mL) | [ ] | | | | (mL) | | |
|---|---|---|---|---|---|---|---|---|
| Magnesium, $Mg^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | $Mg(NO_3)_2$ | – | 250 | AC18.02903.0250 | 21536.1000 |
| Magnesium, $Mg^{2+}$ | 1000 | $H_2O$ | ★ | $MgCl_2$ | – | 125 | AC18.06469.0125 | 250-220-460 |
| Magnesium, $Mg^{2+}$ | 1000 | $H_2O$ | ★ | $MgCl_2$ | – | 500 | AC18.06469.0500 | 250-220-461 |
| Magnesium, $Mg^{2+}$ | 1000 | $H_2O$ | ✦ | $MgCl_2 \cdot 6H_2O$ | – | 500 | AC18.03086.0500 | CL01.1305.0500 |
| Magnesium, $Mg^{2+}$ | 1000 | $H_2O$ | ★ | $MgCl_2 \cdot 6H_2O$ | – | 100 | AC18.03104.0100 | CL01.1342.0100 |
| Magnesium, $Mg^{2+}$ | 1000 | $H_2O$ | ★ | $MgCl_2 \cdot 6H_2O$ | – | 500 | AC18.03104.0500 | CL01.1342.0500 |
| Magnesium, $Mg^{2+}$ | 1000 | $H_2O$ | ★ | $MgCl_2 \cdot 6H_2O$ | – | 100 | AC18.03106.0100 | CL01.1343.0100 |
| Magnesium, $Mg^{2+}$ | 10000 | $H_2O$ | ★ | $MgCl_2$ | – | 125 | AC18.06500.0125 | 250-221-460 |
| Magnesium, $Mg^{2+}$ | 10000 | $H_2O$ | ★ | $MgCl_2$ | – | 500 | AC18.06500.0500 | 250-221-461 |
| Manganese, $Mn^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | Mn | – | 100 | AC18.02904.0100 | 21537.0000 |
| Manganese, $Mn^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | Mn | – | 250 | AC18.02904.0250 | 21537.1000 |
| Manganese, $Mn^{2+}$ | 1000 | $H_2O$ | ★ | $MnCl_2 \cdot 4H_2O$ | – | 125 | AC18.06487.0125 | 250-220-760 |
| Morpholine, $C_4H_9NO$ | 1000 | $H_2O$ | ▲ | $C_4H_9NO$ | – | 100 | AC18.03110.0100 | CL01.1351.0100 |
| Nickel, $Ni^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | Ni | – | 100 | AC18.02906.0100 | 21539.0000 |
| Nickel, $Ni^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | Ni | – | 250 | AC18.02906.0250 | 21539.1000 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $KNO_3$ | – | 100 | AC18.02890.0100 | 21523.0000 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $KNO_3$ | – | 250 | AC18.02890.0250 | 21523.1000 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $NaNO_2$ | – | 100 | AC18.02891.0100 | 21524.0000 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $NaNO_2$ | – | 250 | AC18.02891.0250 | 21524.1000 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $NH_4Cl$ | – | 100 | AC18.02907.0100 | 21540.0000 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $NH_4Cl$ | – | 250 | AC18.02907.0250 | 21540.1000 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $NH_4Cl$ | – | 100 | AC18.03133.0100 | CL01.1951.0100 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $NH_4Cl$ | – | 500 | AC18.03133.0500 | CL01.1951.0500 |
| Nitrogen | 1000 | 0.001 mol HCl | ▲ | $NH_4Cl$ | – | 500 | AC18.03140.0500 | CL01.1952.0500 |
| Nitrogen | 1000 | $CH_3OH/H_2O$ | ▲ | $C_8H_9NO$ | – | 100 | AC18.03142.0100 | CL01.1954.0100 |
| Nitrogen | 1000 | $CH_3OH/H_2O$ | ▲ | $C_8H_9NO$ | – | 500 | AC18.03142.0500 | CL01.1954.0500 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $(NH_4)_2SO_4$ | – | 100 | AC18.03143.0100 | CL01.1955.0100 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $(NH_4)_2SO_4$ | – | 500 | AC18.03143.0500 | CL01.1955.0500 |

| | (µg/mL) | | | | | (mL) | | |
|---|---|---|---|---|---|---|---|---|
| Nitrogen | 1000 | $H_2O$ | ▲ | $NH_4Cl$ | – | 500 | AC18.03144.0500 | CL01.1956.0500 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $C_6H_6N_2O$ | – | 500 | AC18.03146.0500 | CL01.1958.0500 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $NaNO_2$ | – | 100 | AC18.03160.0100 | CL01.1981.0100 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $NaNO_2$ | – | 500 | AC18.03160.0500 | CL01.1981.0500 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $NaNO_2$ | – | 500 | AC18.03162.0500 | CL01.1986.0500 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $KNO_3$ | – | 100 | AC18.03165.0100 | CL01.1991.0100 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $KNO_3$ | – | 500 | AC18.03165.0500 | CL01.1991.0500 |
| Nitrogen | 1000 | $H_2O$ | ▲ | $KNO_3$ | – | 500 | AC18.03169.0500 | CL01.1996.0500 |
| Nitrogen | 10000 | $H_2O$ | ▲ | $(NH_4)_2SO_4$ | – | 500 | AC18.03141.0500 | CL01.1953.0500 |
| Potassium, $K^+$ | 1000 | $H_2O$ | ▲ | $KNO_3$ | – | 100 | AC18.02900.0100 | 21533.0000 |
| Potassium, $K^+$ | 1000 | $H_2O$ | ▲ | $KNO_3$ | – | 250 | AC18.02900.0250 | 21533.1000 |
| Potassium, $K^+$ | 1000 | $H_2O$ | ★ | KCl | – | 125 | AC18.06477.0125 | 250-220-625 |
| Potassium, $K^+$ | 1000 | $H_2O$ | ★ | KCl | – | 500 | AC18.06477.0500 | 250-220-626 |
| Potassium, $K^+$ | 1000 | $H_2O$ | ✦ | KCl | – | 500 | AC18.03079.0500 | CL01.1105.0500 |
| Potassium, $K^+$ | 1000 | $H_2O$ | ★ | KCl | – | 100 | AC18.03081.0100 | CL01.1111.0100 |
| Potassium, $K^+$ | 1000 | $H_2O$ | ★ | KCl | – | 500 | AC18.03081.0500 | CL01.1111.0500 |
| Potassium, $K^+$ | 10000 | $H_2O$ | ★ | KCl | – | 125 | AC18.06507.0125 | 250-221-625 |
| Potassium, $K^+$ | 10000 | $H_2O$ | ★ | KCl | – | 500 | AC18.06507.0500 | 250-221-626 |
| Potassium, $K^+$ | 10000 | $H_2O$ | ★ | KCl | – | 100 | AC18.03080.0100 | CL01.1110.0100 |
| Rubidium, $Rb^+$ | 1000 | $H_2O$ | ✦ | RbCl | – | 500 | AC18.03129.0500 | CL01.1825.0500 |
| Rubidium, $Rb^+$ | 1000 | $H_2O$ | ★ | RbCl | – | 100 | AC18.03130.0100 | CL01.1828.0100 |
| Saccharose D(+) | 1000 | $H_2O$ | ▲ | $C_{12}H_{22}O_{11}$ | – | 100 | AC18.13329.0100 | CL01.4521.0100 |
| Saccharose D(+) | 10000 | $H_2O$ | ▲ | $C_{12}H_{22}O_{11}$ | – | 100 | AC18.20859.0100 | CL01.4523.0100 |
| Sodium, $Na^+$ | 1000 | $H_2O$ | ▲ | $NaNO_3$ | – | 100 | AC18.02905.0100 | 21538.0000 |
| Sodium, $Na^+$ | 1000 | $H_2O$ | ▲ | $NaNO_3$ | – | 250 | AC18.02905.0250 | 21538.1000 |
| Sodium, $Na^+$ | 1000 | $H_2O$ | ★ | NaCl | – | 125 | AC18.06478.0125 | 250-220-640 |
| Sodium, $Na^+$ | 1000 | $H_2O$ | ★ | NaCl | – | 500 | AC18.06478.0500 | 250-220-641 |
| Sodium, $Na^+$ | 1000 | $H_2O$ | ✦ | NaCl | – | 500 | AC18.03115.0500 | CL01.1405.0500 |

| | (µg/mL) | [▦] | | | | (mL) | | |
|---|---|---|---|---|---|---|---|---|
| Sodium, $Na^+$ | 1000 | $H_2O$ | ★ | NaCl | – | 100 | AC18.03116.0100 | CL01.1418.0100 |
| Sodium, $Na^+$ | 1000 | $H_2O$ | ★ | NaCl | – | 500 | AC18.03116.0500 | CL01.1418.0500 |
| Sodium, $Na^+$ | 10000 | $H_2O$ | ★ | NaCl | – | 125 | AC18.06508.0125 | 250-221-640 |
| Sodium, $Na^+$ | 10000 | $H_2O$ | ★ | NaCl | – | 500 | AC18.06508.0500 | 250-221-641 |
| Strontium, $Sr^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | $Sr(NO_3)_2$ | – | 100 | AC18.02908.0100 | 21541.0000 |
| Strontium, $Sr^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | $Sr(NO_3)_2$ | – | 250 | AC18.02908.0250 | 21541.1000 |
| Strontium, $Sr^{2+}$ | 1000 | $H_2O$ | ★ | $SrCl_2$ | – | 125 | AC18.06481.0125 | 250-220-685 |
| Strontium, $Sr^{2+}$ | 1000 | $H_2O$ | ✦ | $Sr(NO_3)_2$ | – | 500 | AC18.03147.0500 | CL01.1965.0500 |
| Strontium, $Sr^{2+}$ | 1000 | $H_2O$ | ★ | $SrCl_2 \cdot 6H_2O$ | – | 100 | AC18.03148.0100 | CL01.1968.0100 |
| Zinc, $Zn^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | Zn | – | 100 | AC18.02909.0100 | 21542.0000 |
| Zinc, $Zn^{2+}$ | 1000 | 0.1% $HNO_3$ | ▲ | Zn | – | 250 | AC18.02909.0250 | 21542.1000 |
| Zinc, $Zn^{2+}$ | 1000 | $H_2O$ | ★ | $ZnCl_2$ | – | 125 | AC18.06445.0125 | 250-220-770 |

# Multi Ions

Multi-ion standards simplify IC calibration by combining the analytes most often measured together in routine methods. They reduce preparation time, minimize weighing and dilution steps, support consistent calibration across analysts and sites, and provide ready-made solutions for common anion, cation, nutrient, disinfection by-product, and method-aligned workflows.

**Why choose Multi Ions?**

- Efficient calibration for common IC methods, including routine water anion panels and cation panels.
- Method-relevant mixes for EPA 300.0, EPA 300.1, EN ISO 10304, drinking-water monitoring, wastewater testing, and process-control applications.
- Reduced preparation risk through ready-to-use blends, balanced analyte combinations, and convenient concentration levels for calibration, verification, and quality-control checks.

ISO 17034
ISO 17025
Analytical Standard
Description
Matrix
Compliance status with relevant ISO standards
Volume or quantity supplied
Legacy Item Number
Current product identification code
Number of analytes
Limited shelf life
Starting material
Concentration
Analyte

ISO 17034

ISO 17025

Analytical Standard

Description

Matrix

Compliance status with relevant ISO standards

Volume or quantity supplied

Legacy Item Number

Current product identification code

Number of analytes

Limited shelf life

Starting material

Concentration

Analyte

| | (µg/mL) | | | (mL) | | | | |
|---|---|---|---|---|---|---|---|---|
| Formate, $HCOO^-$ | 1000 | NaOH 0.005 mol/L | ▲ | 500 | AC18.02856.0500 | 04807.2000 | 2 | Multi-Ion IC Standard (2 Anions) |
| Acetate, $CH_3COO^-$ | 1000 | | | | | | | |
| $Cl^-$ | 1 | $H_2O$ | ▲ | 100 | AC18.20778.0100 | CL01.39315.0100 | 2 | Multi-Ion IC Standard (2 Anions) |
| $SO_4^{2-}$ | 1 | | | | | | | |
| $SO_4^{2-}$ | 3 | $H_2O$ | ▲ | 100 | AC18.20779.0100 | CL01.39316.0100 | 2 | Multi-Ion IC Standard (2 Anions) |
| $Cl^-$ | 3 | | | | | | | |
| $Cl^-$ | 5 | $H_2O$ | ▲ | 100 | AC18.20780.0100 | CL01.39317.0100 | 2 | Multi-Ion IC Standard (2 Anions) |
| $SO_4^{2-}$ | 5 | | | | | | | |
| $SO_4^{2-}$ | 10 | $H_2O$ | ▲ | 100 | AC18.20781.0100 | CL01.39318.0100 | 2 | Multi-Ion IC Standard (2 Anions) |
| $Cl^-$ | 10 | | | | | | | |
| $F^-$ | 1000 | $H_2O$ | ✦ | 500 | AC18.03179.0500 | CL01.39072.0500 | 3 | Multi-Ion IC RM (3 Anions) |
| $PO_4^{3-}$ | 1000 | | | | | | | |
| $Br^-$ | 1000 | | | | | | | |
| $Cl^-$ | 1000 | $H_2O$ | ✦ | 500 | AC18.03180.0500 | CL01.39073.0500 | 3 | Multi-Ion IC RM (3 Anions) |
| $NO_3^-$ | 1000 | | | | | | | |
| $SO_4^{2-}$ | 1000 | | | | | | | |
| $NO_3^-$ | 500 | $H_2O$ | ▲ | 500 | AC18.20617.0500 | CL01.39075.0500 | 3 | Multi-Ion IC Standard (3 Anions/Cations) |
| $NH_4^+$ | 500 | | | | | | | |
| $PO_4^{3-}$ | 500 | | | | | | | |
| $SO_4^{2-}$ | 1000 | $C_8H_6O_4$ 2 mmol/l pH 5 | ▲ | 500 | AC18.02854.0500 | 04684.2000 | 3 | Multi-Ion IC Standard (3 Anions) |
| $NO_3^-$ | 1000 | | | | | | | |
| $Cl^-$ | 1000 | | | | | | | |
| $SO_4^{2-}$ | 60 | $C_8H_6O_4$ 2 mmol/l pH 5 | ▲ | 500 | AC18.02867.0500 | 12873.2000 | 3 | Multi-Ion IC Standard (3 Anions) |
| $NO_3^-$ | 40 | | | | | | | |
| $Cl^-$ | 20 | | | | | | | |

| | (µg/mL) | [ ] | | (mL) | | | | |
|---|---|---|---|---|---|---|---|---|
| $NH_4^+$-N | 500 | $H_2O$ | ▲ | 500 | AC18.02913.0500 | 21559.2000 | 3 | Multi-Ion IC Standard (3 Anions/Cations) |
| $NO_3^-$-N | 500 | | | | | | | |
| $PO_4^{3-}$-P | 500 | | | | | | | |
| $F^-$ | 100 | $H_2O$ | ▲ | 100 | AC18.20361.0100 | CL01.13838.0100 | 4 | Multi-Ion IC Standard (4 Anions) |
| $NO_2^-$ | 100 | | | | | | | |
| $NO_3^-$ | 100 | | | | | | | |
| $PO_4^{3-}$ | 100 | | | | | | | |
| $F^-$ | 100 | $H_2O$ | ▲ | 500 | AC18.20361.0500 | CL01.13838.0500 | 4 | Multi-Ion IC Standard (4 Anions) |
| $NO_2^-$ | 100 | | | | | | | |
| $NO_3^-$ | 100 | | | | | | | |
| $PO_4^{3-}$ | 100 | | | | | | | |
| $Ca^{2+}$ | 1000 | $H_2O$ | ▲ | 500 | AC18.02841.0500 | 02669.2000 | 4 | Multi-Ion IC Standard (4 Cations) |
| $K^+$ | 1000 | | | | | | | |
| $Mg^{2+}$ | 1000 | | | | | | | |
| $Na^+$ | 1000 | | | | | | | |
| $NH_4^+$ | 100 | $HNO_3$ pH 2.5 - 3.5 | ▲ | 500 | AC18.02874.0500 | 18419.2000 | 4 | Multi-Ion IC Standard (4 Cations) |
| $Ca^{2+}$ | 100 | | | | | | | |
| $Mg^{2+}$ | 100 | | | | | | | |
| $Na^+$ | 100 | | | | | | | |
| $SO_4^{2-}$ | 6000 | $H_2O$ | ▲ | 500 | AC18.02864.0500 | 12553.2000 | 5 | Multi-Ion IC Standard (5 Anions) |
| $Cl^-$ | 2000 | | | | | | | |
| $NO_3^-$ | 2000 | | | | | | | |
| $F^-$ | 100 | | | | | | | |
| $PO_4^{3-}$ | 100 | | | | | | | |

| | (µg/mL) | | | (mL) | | | | |
|---|---|---|---|---|---|---|---|---|
| $Cl^-$ | 1000 | $H_2O$ | ▲ | 500 | AC18.02944.0500 | 27637.2000 | 5 | Multi-Ion IC Standard (5 Anions) |
| $NO_3^-$ | 1000 | | | | | | | |
| $SO_4^{2-}$ | 1000 | | | | | | | |
| $Br^-$ | 1000 | | | | | | | |
| $F^-$ | 1000 | | | | | | | |
| $Cl^-$ | 30 | $H_2O$ | ★ | 125 | AC18.06451.0125 | 140-315-001 | 5 | Multi-Ion IC CRM (5 Anions) |
| $F^-$ | 20 | | | | | | | |
| $NO_3^-$ | 100 | | | | | | | |
| $PO_4^{3-}$ | 150 | | | | | | | |
| $SO_4^{2-}$ | 150 | | | | | | | |
| $Cl^-$ | 10 | $H_2O$ | ★ | 125 | AC18.06454.0125 | 141-315-011 | 5 | Multi-Ion IC CRM (5 Anions) |
| $F^-$ | 10 | | | | | | | |
| $NO_3^-$ | 10 | | | | | | | |
| $PO_4^{3-}$ | 10 | | | | | | | |
| $SO_4^{2-}$ | 10 | | | | | | | |
| $F^-$ | 100 | $H_2O$ | ✦ | 500 | AC18.03181.0500 | CL01.39074.0500 | 5 | Multi-Ion IC RM (5 Anions) |
| $Cl^-$ | 250 | | | | | | | |
| $NO_3^-$ | 500 | | | | | | | |
| $SO_4^{2-}$ | 500 | | | | | | | |
| $PO_4^{3-}$ | 1000 | | | | | | | |
| $F^-$ | 20 | $H_2O$ | ✦ | 100 | AC18.03097.0100 | CL01.13355.0100 | 5 | Multi-Ion IC RM (5 Anions) |
| $Cl^-$ | 30 | | | | | | | |
| $NO_3^-$ | 100 | | | | | | | |
| $PO_4^{3-}$ | 150 | | | | | | | |
| $SO_4^{2-}$ | 150 | | | | | | | |

| | (µg/mL) | [ ] | | (mL) | | | | |
|---|---|---|---|---|---|---|---|---|
| $Ca^{2+}$ | 10 | $HNO_3$ 0.1 % | ▲ | 500 | AC18.06963.0500 | 21543.2000 | | Multi-Ion IC Standard (5 Cations) |
| $K^+$ | 10 | | | | | | | |
| $Li^+$ | 10 | | | | | | | |
| $Mg^{2+}$ | 10 | | | | | | | |
| $Na^+$ | 10 | | | | | | | |
| $F^-$ | 100 | $H_2O$ | ✦ | 100 | AC18.03113.0100 | CL01.13837.0100 | 6 | Multi-Ion IC RM (6 Anions) |
| $Cl^-$ | 100 | | | | | | | |
| $NO_2^-$ | 100 | | | | | | | |
| $NO_3^-$ | 100 | | | | | | | |
| $PO_4^{3-}$ | 100 | | | | | | | |
| $SO_4^{2-}$ | 100 | | | | | | | |
| $F^-$ | 100 | $H_2O$ | ✦ | 500 | AC18.03113.0500 | CL01.13837.0500 | 6 | Multi-Ion IC RM (6 Anions) |
| $Cl^-$ | 100 | | | | | | | |
| $NO_2^-$ | 100 | | | | | | | |
| $NO_3^-$ | 100 | | | | | | | |
| $PO_4^{3-}$ | 100 | | | | | | | |
| $SO_4^{2-}$ | 100 | | | | | | | |
| $Cl^-$ | 10 | $H_2O$ | ★ | 125 | AC18.06452.0125 | 140-315-011 | 6 | Multi-Ion IC CRM (6 Anions) |
| $F^-$ | 10 | | | | | | | |
| $NO_3^-$ | 10 | | | | | | | |
| $NO_2^-$ | 10 | | | | | | | |
| $PO_4^{3-}$ | 10 | | | | | | | |
| $SO_4^{2-}$ | 10 | | | | | | | |
| $Br^-$ | 100 | $H_2O$ | ★ | 125 | AC18.06517.0125 | 251-225-011 | 6 | Multi-Ion IC CRM (6 Anions) |
| $Cl^-$ | 100 | | | | | | | |
| $F^-$ | 100 | | | | | | | |
| $NO_3^-$ | 100 | | | | | | | |
| $PO_4^{3-}$ | 100 | | | | | | | |
| $SO_4^{2-}$ | 100 | | | | | | | |

ISO 17034
ISO 17025
Analytical Standard
Description
Matrix
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Concentration
Analyte

ISO 17034

ISO 17025

Analytical Standard

Description

Matrix

Compliance status with relevant ISO standards

Volume or quantity supplied

Legacy Item Number

Current product identification code

Number of analytes

Limited shelf life

Starting material

Concentration

Analyte

| | (µg/mL) | | | (mL) | | | | |
|---|---|---|---|---|---|---|---|---|
| $F^-$ | 1000 | $H_2O$ | ★ | 125 | AC18.06519.0125 | 251-225-101 | 6 | Multi-Ion IC CRM (6 Anions) |
| $Cl^-$ | 1000 | | | | | | | |
| $NO_3^-$ | 1000 | | | | | | | |
| $Br^-$ | 1000 | | | | | | | |
| $PO_4^{3-}$ | 1000 | | | | | | | |
| $SO_4^{2-}$ | 1000 | | | | | | | |
| $Br^-$ | 1000 | $H_2O$ pH 7 | ▲ | 500 | AC18.02840.0500 | 02179.2000 | 6 | Multi-Ion IC Standard (6 Anions) |
| $Cl^-$ | 1000 | | | | | | | |
| $F^-$ | 1000 | | | | | | | |
| $NO_3^-$ | 1000 | | | | | | | |
| $PO_4^{3-}$ | 1000 | | | | | | | |
| $SO_4^{2-}$ | 1000 | | | | | | | |
| $Br^-$ | 100 | $H_2O$ | ▲ | 500 | AC18.02852.0500 | 04372.2000 | 6 | Multi-Ion IC Standard (6 Anions) |
| $SO_4^{2-}$ | 100 | | | | | | | |
| $NO_3^-$ | 80 | | | | | | | |
| $NO_2^-$ | 50 | | | | | | | |
| $Cl^-$ | 40 | | | | | | | |
| $F^-$ | 10 | | | | | | | |
| $Cl^-$ | 75 | $H_2O$ | ▲ | 500 | AC18.02876.0500 | 19507.2000 | 6 | Multi-Ion IC Standard (6 Anions) |
| $SO_4^{2-}$ | 75 | | | | | | | |
| $Br^-$ | 8 | | | | | | | |
| $PO_4^{3-}$-P | 3 | | | | | | | |
| $NO_3^-$N | 2 | | | | | | | |
| $F^-$ | 2 | | | | | | | |

| | (µg/mL) | [ ] | | (mL) | | | | |
|---|---|---|---|---|---|---|---|---|
| $NH_4^+$ | 40 | $HNO_3$ 0.1 % | ▲ | 500 | AC18.02910.0500 | 21544.2000 | 6 | Multi-Ion IC Standard (6 Cations) |
| $Ca^{2+}$ | 40 | | | | | | | |
| $K^+$ | 20 | | | | | | | |
| $Mg^{2+}$ | 20 | | | | | | | |
| $Na^+$ | 20 | | | | | | | |
| $Li^+$ | 10 | | | | | | | |
| $NH_4^+$ | 400 | $HNO_3$ 0.1 % | ▲ | 500 | AC18.02911.0500 | 21545.2000 | 6 | Multi-Ion IC Standard (6 Cations) |
| $Ca^{2+}$ | 400 | | | | | | | |
| $K^+$ | 200 | | | | | | | |
| $Mg^{2+}$ | 200 | | | | | | | |
| $Na^+$ | 200 | | | | | | | |
| $Li^+$ | 100 | | | | | | | |
| $Cl^-$ | 1000 | $H_2O$ | ▲ | 100 | AC18.02839.0100 | 01002.0000 | 7 | EN ISO 10304-1:2009, DEV D20 Multi-Ion IC Standard (7 Anions) |
| $NO_3^-$ | 1000 | | | | | | | |
| $SO_4^{2-}$ | 1000 | | | | | | | |
| $Br^-$ | 100 | | | | | | | |
| $F^-$ | 100 | | | | | | | |
| $NO_2^-$ | 100 | | | | | | | |
| $PO_4^{3-}$ | 100 | | | | | | | |
| Acetate, $CH_3COO^-$ | 100 | $H_2O$ | ▲ | 500 | AC18.02875.0500 | 18621.2000 | 7 | Multi-Ion IC Standard (7 Anions) |
| $Cl^-$ | 100 | | | | | | | |
| malate, $C_4H_4O_5^{2-}$ | 100 | | | | | | | |
| $NO_3^-$ | 100 | | | | | | | |
| $PO_4^{3-}$ | 100 | | | | | | | |
| $SO_4^{2-}$ | 100 | | | | | | | |
| tartrate, $C_4H_4O_6^{2-}$ | 100 | | | | | | | |

| | (µg/mL) | | | (mL) | | | | |
|---|---|---|---|---|---|---|---|---|
| $Br^-$ | 1000 | $H_2O$ | ▲ | 100 | AC18.02956.0100 | 31236.0000 | 7 | EN ISO 10304-1:2009, DEV D20 Multi-Ion IC Standard (7 Anions) |
| $Cl^-$ | 1000 | | | | | | | |
| $F^-$ | 1000 | | | | | | | |
| $NO_3^-$ | 1000 | | | | | | | |
| $NO_2^-$ | 1000 | | | | | | | |
| $PO_4^{3-}$ | 1000 | | | | | | | |
| $SO_4^{2-}$ | 1000 | | | | | | | |
| $Br^-$ | 100 | $H_2O$ | ✦ | 100 | AC18.03107.0100 | CL01.13436.0100 | 7 | ISB-ICAL-10 Multi-Ion IC RM (7 Anions) |
| $Cl^-$ | 100 | | | | | | | |
| $NO_2^-$ | 100 | | | | | | | |
| $NO_3^-$ | 100 | | | | | | | |
| $SO_4^{2-}$ | 100 | | | | | | | |
| $F^-$ | 20 | | | | | | | |
| $PO_4^{3-}$-P | 200 | | | | | | | |
| $Br^-$ | 100 | $H_2O$ | ✦ | 100 | AC18.03108.0100 | CL01.13457.0100 | 7 | Multi-Ion IC RM (7 Anions) |
| $Cl^-$ | 100 | | | | | | | |
| $F^-$ | 100 | | | | | | | |
| $NO_2^-$ | 100 | | | | | | | |
| $NO_3^-$ | 100 | | | | | | | |
| $PO_4^{3-}$ | 100 | | | | | | | |
| $SO_4^{2-}$ | 100 | | | | | | | |
| $Br^-$ | 100 | $H_2O$ | ✦ | 250 | AC18.03091.0250 | CL01.13290.0250 | 7 | EPA 300.1 Multi-Ion IC RM (7 Anions) |
| $NO_2^-$ | 100 | | | | | | | |
| $NO_3^-$ | 100 | | | | | | | |
| $Cl^-$ | 30 | | | | | | | |
| $F^-$ | 20 | | | | | | | |
| $PO_4^{3-}$ | 150 | | | | | | | |
| $SO_4^{2-}$ | 150 | | | | | | | |

| | (µg/mL) | [▦] | | (mL) | | | | |
|---|---|---|---|---|---|---|---|---|
| $Br^-$ | 100 | $H_2O$ | ★ | 125 | AC18.06513.0125 | 250-225-001 | 7 | EPA 300.1 Multi-Ion IC CRM (7 Anions) |
| $Cl^-$ | 100 | | | | | | | |
| $F^-$ | 100 | | | | | | | |
| $NO_3^-$ | 100 | | | | | | | |
| $NO_2^-$ | 100 | | | | | | | |
| $PO_4^{3-}$ | 100 | | | | | | | |
| $SO_4^{2-}$ | 100 | | | | | | | |
| $Br^-$ | 100 | $H_2O$ | ★ | 500 | AC18.06513.0500 | 250-225-005 | 7 | Multi-Ion IC CRM (7 Anions) |
| $Cl^-$ | 100 | | | | | | | |
| $F^-$ | 100 | | | | | | | |
| $NO_3^-$ | 100 | | | | | | | |
| $NO_2^-$ | 100 | | | | | | | |
| $PO_4^{3-}$ | 100 | | | | | | | |
| $SO_4^{2-}$ | 100 | | | | | | | |
| $Br^-$ | 1000 | $H_2O$ | ★ | 125 | AC18.06515.0125 | 250-225-101 | 7 | Multi-Ion IC CRM (7 Anions) |
| $Cl^-$ | 1000 | | | | | | | |
| $F^-$ | 1000 | | | | | | | |
| $NO_3^-$ | 1000 | | | | | | | |
| $NO_2^-$ | 1000 | | | | | | | |
| $PO_4^{3-}$ | 1000 | | | | | | | |
| $SO_4^{2-}$ | 1000 | | | | | | | |
| $Br^-$ | 160 | $H_2O$ | ▲ | 500 | AC18.02871.0500 | 15051.2000 | 8 | Multi-Ion IC Standard (8 Anions) |
| $Cl^-$ | 160 | | | | | | | |
| $F^-$ | 160 | | | | | | | |
| $I^-$ | 160 | | | | | | | |
| $NO_3^-$ | 160 | | | | | | | |
| $NO_2^-$ | 160 | | | | | | | |
| $PO_4^{3-}$ | 160 | | | | | | | |
| $SO_4^{2-}$ | 160 | | | | | | | |

★ ISO 17034
✦ ISO 17025
▲ Analytical Standard

Description
[▦] Matrix
Compliance status with relevant ISO standards
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Number of analytes
Limited shelf life
Starting material
Concentration
Analyte

ISO 17034

ISO 17025

Analytical Standard

Description

Matrix

Compliance status with relevant ISO standards

Volume or quantity supplied

Legacy Item Number

Current product identification code

Number of analytes

Limited shelf life

Starting material

Concentration

Analyte

| | (µg/mL) | | | (mL) | | | | |
|---|---|---|---|---|---|---|---|---|
| $Ba^{2+}$ | 100 | $HNO_3$ 0.001 mol/l | ▲ | 500 | AC18.02842.0500 | 02679.2000 | 9 | Water and waste water Multi-Ion IC Standard (9 Cations) |
| $Sr^{2+}$ | 50 | | | | | | | |
| $Ca^{2+}$ | 20 | | | | | | | |
| $K^+$ | 20 | | | | | | | |
| $Mg^{2+}$ | 20 | | | | | | | |
| $Mn^{2+}$ | 20 | | | | | | | |
| $NH_4^+$ | 10 | | | | | | | |
| $Na^+$ | 10 | | | | | | | |
| $Li^+$ | 5 | | | | | | | |
| $NH_4^+$ | 100 | $HNO_3$ 0.1 % | ▲ | 500 | AC18.02912.0500 | 21546.2000 | 9 | Multi-Ion IC Standard (9 Cations) |
| $Ba^{2+}$ | 100 | | | | | | | |
| $Ca^{2+}$ | 100 | | | | | | | |
| $K^+$ | 100 | | | | | | | |
| $Li^+$ | 100 | | | | | | | |
| $Mg^{2+}$ | 100 | | | | | | | |
| $Mn^{2+}$ | 100 | | | | | | | |
| $Na^+$ | 100 | | | | | | | |
| $Sr^{2+}$ | 100 | | | | | | | |
| $NH_4^+$ | 100 | $H_2O$ | ▲ | 100 | AC18.03178.0100 | CL01.39071.0100 | 9 | Multi-Ion IC Standard (9 Cations) |
| $Ba^{2+}$ | 100 | | | | | | | |
| $Ca^{2+}$ | 100 | | | | | | | |
| $K^+$ | 100 | | | | | | | |
| $Li^+$ | 100 | | | | | | | |
| $Mg^{2+}$ | 100 | | | | | | | |
| $Mn^{2+}$ | 100 | | | | | | | |
| $Na^+$ | 100 | | | | | | | |
| $Sr^{2+}$ | 100 | | | | | | | |

# Custom IC Standards

Can't find the exact IC standard you need? **AnalytiChem** can support custom ion chromatography formulations for specific analyte combinations, concentrations, matrices, pack sizes, and method requirements. Custom IC standards are especially useful for laboratories running proprietary methods, unusual sample matrices, site-specific monitoring programs, method validation studies, or regulatory workflows where a catalogue mix does not fully match the required ion panel.

Examples include low-level oxyhalide mixes for drinking-water disinfection by-products, tailored nutrient standards combining nitrogen and phosphorus species, organic-acid panels for fermentation and food applications, cation mixes for process water, or site-specific blends for wastewater and industrial discharge monitoring. Our custom capability helps reduce in-house preparation effort while maintaining the quality, documentation, and consistency expected from a professional reference-material supplier.

**Our Reagents and Consumables for Ion Chromatography**

| Workflow step | Featured product | Item number |
|---|---|---|
| High-purity water | Water for ion chromatography | AC17.00128 (CL07.2103); AC17.00116 (14269.x) |
| Isocratic anion eluent | Sodium carbonate, anhydrous | AC14.00986 (CL00.1406); AC14.00214 (06195) |
| Isocratic anion eluent | Sodium hydrogen carbonate | AC14.00994 (CL00.1432); AC14.00296.0500 (15295) |
| Gradient anion eluent | Potassium hydroxide, 0.1 mol/L | AC15.00462 (CL05.1105); AC15.00339 (25026) |
| Gradient anion eluent | Potassium hydroxide, 1 mol/L | AC15.00465 (CL05.1108); AC15.00338 (25025) |
| Cation eluent preparation | Methanesulfonic acid, HPLC grade | AC16.00178.0100 (CL00.3927.0100); AC11.00643 (28643) |
| Cation chromatography | Methanesulfonic acid, 0.4 mol/L | AC16.00196 (CL05.1309); AC16.00119.1000 (21626) |
| Cation chromatography | Sulfuric acid, 0.01 mol/L | AC15.02835 (CL05.2610); AC15.00172 (03058) |
| Cation chromatography | Sulfuric acid, 0.005 mol/L | AC15.02834 (CL05.2609); AC16.00102 (05859) |
| Sample preparation | DigiFILTER | AC37.00117 (010-500-088) |
| Sample preparation | DigiFILTER Manifold | AC37.00101 (010-500-230) |
| Sample preparation | DigiTUBEs | AC31.00102 (010-500-263) |
| Sample preparation | Disposable Luer-lock syringes | LLG 6.286 617 / 6.286 618 |
| Sample preparation | Syringe filters SPHEROS, PES | LLG 6.272.811 |
| Volumetric preparation | PMP measuring cylinders, Class A | LLG 4688055 / 4688870 / -71 / 9274796 / -97 |
| Volumetric preparation | PMP volumetric flasks, Class A | LLG 9276949–9276954 |
| Volumetric preparation | PFA volumetric flasks, Class A | LLG 4000069 / -70 / -71 / -72 / -73 / 7621728 |
| Accurate preparation | PR analytical balance | LLG 4668267 |

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