

If you've been searching for an atypical Ion Chromatography standard, look no further.

Over the years, we've developed the most complete line of IC standards on the market. Our technicians have stabilized more than a dozen rare anion and cation standards that you won't find anywhere else.



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- ✓ **Five-year shelf life**
- ✓ **Traceable to NIST SRMs**
- ✓ **Produced under ISO 9001**
- ✓ **Produced under ISO 17025**
- ✓ **Produced under ISO 17034**
- ✓ **Assayed by validated Wet Chemical procedures**
- ✓ **Assayed by validated IC procedures**

Custom anion standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Acetate, $C_2H_3O_2^-$	H ₂ O	Sodium acetate	125 mL 500 mL	ICOAC1-125ML ICOAC1-500ML
Adipate, $C_6H_8O_4^{-2}$	H ₂ O	Adipic acid	125 mL	ICADP1-125ML
Benzoate, $C_6H_5CO_2^-$	H ₂ O	Benzoic acid	125 mL	ICBEN1-125ML
Bromate, BrO_3^-	H ₂ O	KBrO ₃	125 mL 500 mL	ICBRO31-125ML ICBRO31-500ML
Bromide, Br ⁻	H ₂ O	KBr	125 mL 500 mL	ICBR1-125ML ICBR1-500ML
Butyrate, $C_4H_7O_2^-$	H ₂ O	Butyric acid	125 mL	ICBTR1-125ML
Carbonate, CO_3^{-2}	H ₂ O	Na ₂ CO ₃	125 mL 500 mL	ICC031-125ML ICC031-500ML
Chlorate, ClO_3^-	H ₂ O	KClO ₃	125 mL 500 mL	ICCL031-125ML ICCL031-500ML
Chloride, Cl ⁻	H ₂ O	KCl	125 mL 500 mL	ICCL1-125ML ICCL1-500ML
Chlorite, ClO_2^-	H ₂ O	NaClO ₂	125 mL 500 mL	ICCL021-125ML ICCL021-500ML
Chromate, CrO_4^{-2}	H ₂ O	(NH ₄) ₂ Cr ₂ O ₇	125 mL	ICCRO41-125ML
Citrate, $C_6H_5O_7^{-3}$	H ₂ O	Citric acid	125 mL 500 mL	ICCIT1-125ML ICCIT1-500ML
Cyanide, NaCN	H ₂ O	Sodium cyanide	20 mL	CN-1000-25-20ML
Fluoride, F ⁻	H ₂ O	NaF	125 mL 500 mL	ICF1-125ML ICF1-500ML
Formate, HCO_2^-	H ₂ O	Sodium formate	125 mL 500 mL	ICHCO1-125ML ICHCO1-500ML
Glutarate, $C_5H_6O_4^{-2}$	H ₂ O	Glutaric acid	125 mL	ICGTR1-125ML
Glycolate, $C_2H_3O_3^-$	H ₂ O	Glycolic acid	125 mL	ICGLY1-125ML
Iodide, I ⁻	H ₂ O / stabilizer	NH ₄ I	125 mL 500 mL	ICI1-125ML ICI1-500ML
Lactate, $C_3H_5O_3^-$	H ₂ O	Lactic acid	125 mL	ICLCT1-125ML
Malate, $C_4H_4O_5^{-2}$	H ₂ O	Malic acid	125 mL	ICMLA1-125ML
Maleate, $C_4H_2O_4^{-2}$	H ₂ O	Maleic acid	125 mL	ICMLE1-125ML
Malonate, $C_3H_2O_4^{-2}$	H ₂ O	Malonic acid	125 mL	ICMLO1-125ML
Methanesulfonate, $CH_3SO_3^-$	H ₂ O	Methanesulfonic acid	125 mL	ICMSA1-125ML
Nitrate, NO_3^-	H ₂ O	NaNO ₃	125 mL 500 mL	ICNO31-125ML ICNO31-500ML
Nitrate as Nitrogen	H ₂ O	NaNO ₃	125 mL 500 mL	ICNNO31-125ML ICNNO31-500ML
Nitrilotriacetate, $NC_6H_6O_6^{-3}$	H ₂ O	Nitrilotriacetic acid	125 mL	ICNTA1-125ML
Nitrite, NO_2^-	H ₂ O	NaNO ₂	125 mL 500 mL	ICNO21-125ML ICNO21-500ML
Nitrite as Nitrogen	H ₂ O	NaNO ₂	125 mL 500 mL	ICNNO21-125ML ICNNO21-500ML

1,000 µg/mL Anions

Custom anion standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Oxalate, C₂O₄⁻²	H ₂ O	Sodium oxalate	125 mL 500 mL	ICXA1-125ML ICXA1-500ML
Perchlorate, ClO₄⁻	H ₂ O	KClO ₄	125 mL 500 mL	ICCL041-125ML ICCL041-500ML
Phosphate, PO₄⁻³	H ₂ O	NH ₄ H ₂ PO ₄	125 mL 500 mL	ICP041-125ML ICP041-500ML
Phosphate as Phosphorus	H ₂ O	NH ₄ H ₂ PO ₄	125 mL 500 mL	ICPP041-125ML ICPP041-500ML
Phthalate, C₆H₄(CO₂)₂⁻²	H ₂ O	Potassium hydrogen phthalate	125 mL	ICKHP1-125ML
Propionate, C₂H₅CO₂⁻	H ₂ O	Sodium propionate	125 mL	ICOPR1-125ML
Succinate, C₄H₄O₄⁻²	H ₂ O	Succinic acid	125 mL	ICSCC1-125ML
Sulfate, SO₄⁻²	H ₂ O	K ₂ SO ₄	125 mL 500 mL	ICS041-125ML ICS041-500ML
Tartrate, C₄H₄O₆⁻²	H ₂ O	Tartaric acid	125 mL	ICTRTR1-125ML
Thiocyanate, SCN⁻	H ₂ O	KSCN	125 mL	ICSCN1-125ML
Thiosulfate, S₂O₃⁻²	H ₂ O	Sodium thiosulfate	125 mL 500 mL	ICS2031-125ML ICS2031-500ML

10,000 µg/mL

Custom anion standards are available upon request.

10,000 µg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Chloride, Cl⁻	H ₂ O	KCl	125 mL 500 mL	ICCL10-125ML ICCL10-500ML
Sulfate, SO₄⁻²	H ₂ O	K ₂ SO ₄	125 mL 500 mL	ICS0410-125ML ICS0410-500ML

100 ppm

Custom anion standards are available upon request.

100 ppm

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Nitrite, NO₂⁻	H ₂ O	100	125 mL	ICN02-100PPM-125ML

Custom cation standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
3-Methoxypropylamine $\text{CH}_3\text{O}(\text{CH}_2)_3\text{NH}_2$	HCl	3-Methoxypropylamine	125 mL	ICMPA1-125ML
Ammonium, NH_4^+	H_2O	NH_4Cl	125 mL 500 mL	ICNH41-125ML ICNH41-500ML
Ammonium as Nitrogen	H_2O	NH_4Cl	125 mL 500 mL	ICNNH41-125ML ICNNH41-500ML
Barium, Ba^{+2}	HNO_3	$\text{Ba}(\text{NO}_3)_2$	125 mL	ICBA1-125ML
Calcium, Ca^{+2}	HNO_3	CaO	125 mL 500 mL	ICCA1-125ML ICCA1-500ML
Cesium, Cs^+	HNO_3	CsNO_3	125 mL	ICCS1-125ML
Diethanolamine, $(\text{HOCH}_2\text{CH}_2)_2\text{NH}$	H_2O	Diethanolamine	125 mL	ICDEA1-125ML
Dimethylamine, $\text{NH}(\text{CH}_3)_2$	HCl	Dimethylamine	125 mL	ICDMA1-125ML
Lithium, Li^+	HNO_3	Li_2CO_3	125 mL	ICLI1-125ML
Magnesium, Mg^{+2}	HNO_3	Mg metal	125 mL 500 mL	ICMG1-125ML ICMG1-500ML
Monoethanolamine, $\text{HOCH}_2\text{CH}_2\text{NH}_2$	H_2O	Monoethanolamine	125 mL 500 mL	ICMEA1-125ML ICMEA1-500ML
Monomethylamine, NH_2CH_3	HCl	Monomethylamine	125 mL	ICMMA1-125ML
Potassium, K^+	HNO_3	KNO_3	125 mL 500 mL	ICK1-125ML ICK1-500ML
Rubidium, Rb^+	HNO_3	RbNO_3	125 mL	ICRB1-125ML
Sodium, Na^+	HNO_3	Na_2CO_3	125 mL 500 mL	ICNA1-125ML ICNA1-500ML
Strontium, Sr^{+2}	HNO_3	SrCO_3	125 mL	ICSR1-125ML
Tetramethylammonium, $\text{N}^+(\text{CH}_3)_4$	H_2O	Tetramethylammonium hydroxide	125 mL	ICTMAH1-125ML
Triethanolamine, $(\text{HOCH}_2\text{CH}_2)_3\text{N}$	H_2O	Triethanolamine	125 mL	ICTEA1-125ML
Triethylamine, $(\text{CH}_3\text{CH}_2)_3\text{N}$	HCl	Triethylamine	125 mL	ICTA1-125ML
Trimethylamine, $(\text{CH}_3)_3\text{N}$	HCl	Trimethylamine	125 mL	ICTMA1-125ML

Anion Calibration Standard			
IC-FAS-1A I		Matrix: H ₂ O	
IC-FAS-1A-125ML		Volume: 125 mL	
IC-FAS-1A-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Br⁻	100	NO₂⁻	100
Cl⁻	30	PO₄⁻³	150
F⁻	20	SO₄⁻²	150
NO₃⁻	100		

For anion analysis of water samples by ion chromatography (IC). Contains 7 "common anions" as defined by EPA and Standard Methods.

Cation Calibration Standard			
IC-SCS1 I		Matrix: HNO ₃	
IC-SCS1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ca⁺²	1,000	Mg⁺²	200
K⁺	200	Na⁺	200
Li⁺	50	NH₄⁺	400

Used for daily calibration.

For cation analysis of water samples by ion chromatography (IC).

Cation Calibration Standard			
IV-STOCK-7 I		Matrix: HNO ₃	
IV-STOCK-7-125ML		Volume: 125 mL	
IV-STOCK-7-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ba⁺²	100	Mn⁺²	100
Ca⁺²	100	Na⁺	100
K⁺	100	NH₄⁺	100
Li⁺	100	Sr⁺²	100
Mg⁺²	100		

Used for daily calibration.

For use as a certified reference standard in ion chromatography (IC) applications.

Anion Calibration Standard			
IV-STOCK-59 I		Matrix: H ₂ O	
IV-STOCK-59-125ML		Volume: 125 mL	
IV-STOCK-59-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Br⁻	1,000	NO₂⁻	1,000
Cl⁻	1,000	PO₄⁻³	1,000
F⁻	1,000	SO₄⁻²	1,000
NO₃⁻	1,000		

For use as a certified reference standard in ion chromatography (IC) applications.

Anion Mix A	
IV-STOCK-61	Matrix: H ₂ O
IV-STOCK-61-125ML	Volume: 125 mL
IV-STOCK-61-500ML	Volume: 500 mL
Analyte	Range
Br⁻	20
F⁻	10
NO₂⁻	20
SO₄⁻²	30
Cl⁻	20
NO₃⁻	20
PO₄⁻³	30

For use as a certified reference standard in ion chromatography (IC) applications.

Cation Mix B	
IV-STOCK-62	Matrix: H ₂ O
IV-STOCK-62-125ML	Volume: 125 mL
Analyte	Range
Ca	2.0
K	2.5
Li	0.2
Mg	2.0
Na	1.5
NH₄⁺	1.5

For use as a certified reference standard in ion chromatography (IC) applications.

I Common Multi-Ion Standards

Anion Mix 4	
IV-STOCK-63	Matrix: H ₂ O
IV-STOCK-63-125ML	Volume: 125 mL
Analyte	Range
Br⁻	40
F⁻	20
NO₂⁻	40
Cl⁻	40
NO₃⁻	40
SO₄⁻²	40

For use as a certified reference standard in ion chromatography (IC) applications.

Anion Mix 5	
IV-STOCK-64	Matrix: H ₂ O
IV-STOCK-64-125ML IV-STOCK-64-500ML	Volume: 125 mL Volume: 500 mL
Analyte	Range
Br⁻	50
Cl⁻	50
F	25
NO₃⁻	50
NO₂⁻	50
PO₄⁻³	50
SO₄⁻²	50

For use as a certified reference standard in ion chromatography (IC) applications.

Custom eluent concentrates are available upon request. All Eluents supplied with Product Information Sheet.

0.18 M Sodium Carbonate/0.17 M Sodium Bicarbonate		
ELUENT1817-100ML ELUENT1817-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ O Dilution: 1:100
For preparation of 1.8 mM CO ₃ ⁻² / 1.7 mM HCO ₃ ⁻ eluent.		

This solution is a reagent and is not intended to be used as a certified reference material. Concentrate (100x); To prepare 1.8 mM carbonate/1.7 mM bicarbonate eluent for IC applications; ISO 17034 Reference Material.

0.35 M Sodium Carbonate/0.10 M Sodium Bicarbonate		
ELUENT3510-100ML ELUENT3510-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ O Dilution: 1:100
For preparation of 3.5 mM CO ₃ ⁻² / 1.0 mM HCO ₃ ⁻ eluent.		

This solution is a reagent and is not intended to be used as a certified reference material. Concentrate (100x); To prepare 3.5 mM carbonate/1.0 mM bicarbonate eluent for IC applications; ISO 17034 Reference Material.

0.45 M Sodium Carbonate/0.14 M Sodium Bicarbonate		
ELUENT4514-500ML	Volume: 500 mL	Matrix: H ₂ O Dilution: 1:100
For preparation of 3.5 mM CO ₃ ⁻² / 1.0 mM HCO ₃ ⁻ eluent.		

This solution is a reagent and is not intended to be used as a certified reference material. Concentrate (100x); To prepare 3.5 mM carbonate/1.0 mM bicarbonate eluent for IC applications; ISO 17034 Reference Material.

0.5 M Sodium Bicarbonate		
BICARB-100ML BICARB-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ O Dilution: 1:100
For preparation of various CO ₃ ⁻² / HCO ₃ ⁻ eluents.		

This solution is a reagent and is not intended to be used as a certified reference material. Concentrate; To prepare carbonate/bicarbonate eluent for IC applications; ISO 17034 Reference Material.

0.5 M Sodium Carbonate

CARB-100ML CARB-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ O Dilution: 1:100
For preparation of various CO ₃ ⁻² / HCO ₃ ⁻ eluents.		

This solution is a reagent and is not intended to be used as a certified reference material. Concentrate; To prepare carbonate/bicarbonate eluent for IC applications; ISO 17034 Reference Material; Supplied with Product Information Sheet.

1.8 M Methanesulfonic Acid

MSAELUENT-100ML MSAELUENT-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ O Dilution: 1:100
For preparation of 18 mM CH ₃ SO ₃ H eluent for analyzing cations.		

This solution is a reagent and is not intended to be used as a certified reference material. Concentrate (100x); To prepare 18 mM methanesulfonic acid eluent for IC applications; ISO 17034 Reference Material; Supplied with Product Information Sheet.

300.0 Rev. 2.1 Part A / 300.1 Part A Custom EPA standards are available upon request.

0.18 M Sodium Carbonate/0.17 M Sodium Bicarbonate

ELUENT1817-100ML ELUENT1817-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ O Dilution 1:100
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For preparation of 1.8 mM CO₃⁻² / 1.7 mM HCO₃⁻ eluent.

This solution is a reagent and is not intended to be used as a certified reference material. Concentrate (100x); To prepare 1.8 mM carbonate/1.7 mM bicarbonate eluent for IC applications; ISO 17034 Reference Material; Supplied with Product Information Sheet.

Calibration Standard

300-CAL-A-125ML 300-CAL-A-500ML		Volume: 125 mL Volume: 500 mL	Matrix: H ₂ O Dilution 1:10 to 1:100
Analyte	µg/mL	Analyte	µg/mL
Br-	100	Nitrite as Nitrogen	30
Cl-	30	Nitrate as Nitrogen	25
F-	20	Phosphate as Phosphorus	50
SO₄⁻²	150		

For use as ion chromatography calibration standard in EPA Method 300.0. Also suitable for use as common anions standard in EPA Method 300.1.

Dichloroacetate Standard

ICDCA-S-125ML ICDCA-S-500ML	Volume: 125 mL Volume: 500 mL	Matrix: H ₂ O
Analyte	µg/mL	
Cl₂HC₂O₂⁻	500	

For use as a surrogate analyte.

For use as a surrogate analyte in ion chromatography (IC) analysis.

300.0 Rev. 2.1 Part A / 300.1 Part A Custom EPA standards are available upon request.

Laboratory Fortification Stock Standard			
300-LFS-A-125ML		Volume: 125 mL	Matrix: H ₂ O Dilution 1:100 to 1:1,000
Analyte	µg/mL	Analyte	µg/mL
Br-	1,000	Nitrite as Nitrogen	300
Cl-	300	Nitrate as Nitrogen	300
F-	200	Phosphate as Phosphorus	500
SO ₄ ⁻²	1,500		

This standard is used to prepare the Laboratory Fortified Blank and the Laboratory Fortified Sample Matrix

For use as ion chromatography laboratory fortified blank or fortified sample matrix solution in EPA Method 300.0.
Also suitable for use as common anions fortified blank or fortified sample matrix solution in EPA Method 300.1.

QC Standard/Instrument Performance Check [†]			
QCP-QCS-5-125ML		Volume: 125 mL	Matrix: H ₂ O Dilution 1:10 to 1:100
Analyte	µg/mL	Analyte	µg/mL
Br-	50	Nitrite as Nitrogen	15
Cl-	15	Nitrate as Nitrogen	10
F-	10	Phosphate as Phosphorus	25
SO ₄ ⁻²	75	†Manufactured from in-house Second Source concentrates.	

Can be used to prepare the QC Sample or the IPC Solution.

For use as a general ion chromatogrpahy quality control standard

300.1 Part B Custom EPA standards are available upon request.

Bromate	
ICBR031	Matrix: H ₂ O
ICBR031-125ML ICBR031-500ML	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
BrO ₃ ⁻	1,000

Chlorate	
ICCL031	Matrix: H ₂ O
ICCL031-125ML ICCL031-500ML	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
ClO ₃ ⁻	1,000

Bromide	
ICBR1	Matrix: H ₂ O
ICBR1-125ML ICBR1-500ML	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
Br ⁻	1,000

Dichloroacetate Standard	
ICDCA-S	Matrix: H ₂ O
ICDCA-S-125ML ICDCA-S-500ML	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
Cl ₂ HC ₂ O ₂ ⁻	500

For use as a surrogate analyte.

Chlorite	
ICCL021	Matrix: H ₂ O
ICCL021-125ML ICCL021-500ML	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
ClO ₂ ⁻	1,000

NOTE: Contains less than 10ppm ClO₃⁻.

Custom EPA standards are available upon request.

1,400 µmhos/cm Conductivity at 25°C	
CON1400-25	Matrix: H ₂ O
CON1400-25-125ML CON1400-25-500ML CON1400-25-1L	Volume: 125 mL Volume: 500 mL Volume: 1 L

For the calibration of analytical instruments and validation of analytical methods as appropriate. Preserved with antimicrobial agent.

Perchlorate	
ICCL041	Matrix: H ₂ O
ICCL041-125ML ICCL041-500ML	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
ClO ₄ ⁻	1,000