

1 Inorganic Standards

1.4 IC Standards

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IC Anion Standards 10 000 mg/L

Ammonia**NEW**

Ammonia	29.7 g NH ₄ Cl / l H ₂ O	100 ml 500 ml	CL01.0112.0100 CL01.0112.0500
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Fructose, D(-)**NEW**

Fructose, D(-)	10 g C ₆ H ₁₂ O ₆ / l H ₂ O	100 ml	CL01.0693.0100
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Galactose, D(+)**NEW**

Galactose, D(+)	10 g C ₆ H ₁₂ O ₆ / l H ₂ O	100 ml	CL01.0783.0100
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Glucose, D(+)**NEW**

Glucose, D(+)	10 g C ₆ H ₁₂ O ₆ / l H ₂ O	100 ml	CL01.0773.0100
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Lactose**NEW**

Lactose	10 g C ₁₂ H ₂₂ O ₁₁ / l H ₂ O	100 ml	CL01.1263.0100
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Saccharose, D(+)**NEW**

Saccharose, D(+)	10 g C ₁₂ H ₂₂ O ₁₁ / l H ₂ O	100 ml	CL01.4523.0100
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IC Cation Standards 10 000 mg/L

Calcium**NEW**

Calcium	36.68 g CaCl ₂ ·2H ₂ O / l H ₂ O	100 ml	CL01.0320.0100
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Magnesium**NEW**

Magnesium	83.63 g MgCl ₂ ·6H ₂ O / l H ₂ O	100 ml 500 ml	CL01.1343.0100 CL01.1343.0500
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Potassium

Potassium	19.07 g KCl / l H ₂ O	100 ml	CL01.1110.0100
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IC Anion Standards 1 000 mg/L

Acetate

Acetate	1.389 g CH ₃ COONa / l H ₂ O	100 ml	CL01.0151.0100
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Adipate

NEW

Adipate	1.319 g C ₆ H ₈ Na ₂ O ₄ / l H ₂ O	100 ml	CL01.0171.0100
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Benzoate

NEW

Benzoate	1.008 g C ₇ H ₆ O ₂ / l H ₂ O	100 ml	CL01.0271.0100
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Bromate

Bromate	1.306 g KBrO ₃ / l H ₂ O	100 ml 500 ml	CL01.0261.0100 CL01.0261.0500
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Bromide

Bromide	1.489 g KBr / l H ₂ O	100 ml 500 ml	CL01.0241.0100 CL01.0241.0500
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Butyrate

NEW

Butyrate	1.264 g C ₄ H ₇ NaO ₂ / l H ₂ O	100 ml	CL01.0281.0100
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Carbonate

Carbonate	1.766 g Na ₂ CO ₃ / l H ₂ O	100 ml 500 ml	CL01.0391.0100 CL01.0391.0500
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Chlorate

Chlorate	1.470 g KClO ₃ / l H ₂ O	100 ml 500 ml	CL01.0348.0100 CL01.0348.0500
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Chloride

Chloride	2.1 g KCl / l H ₂ O	100 ml 500 ml	CL01.0341.0100 CL01.0341.0500
Chloride	1.649 g NaCl / l H ₂ O	100 ml 500 ml	CL01.0342.0100 CL01.0342.0500

Chlorite

NEW

Chlorite	1.341 g NaClO ₂ / l 0.1 mol/l NaOH (Keep Cool !)	100 ml	CL01.0871.0100
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Chromate

Chromate	1.471 g K ₂ Cr ₂ O ₇ / l H ₂ O	100 ml 500 ml	CL01.0351.0100 CL01.0351.0500
Chromate	1.674 g K ₂ CrO ₄ / l H ₂ O	100 ml 500 ml	CL01.0354.0100 CL01.0354.0500

Citrate

NEW

Citrate	1.365 g C ₆ H ₅ Na ₃ O ₇ / l H ₂ O	100 ml	CL01.2921.0100
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Cyanide

Cyanide	2.503 g KCN / l H ₂ O (Keep Cool !)	100 ml 500 ml	CL01.0371.0100 CL01.0371.0500
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Detergents(-) Anionic

Detergents(-) Anionic	1 g TPBS / l H ₂ O	100 ml 500 ml	CL01.0411.0100 CL01.0411.0500
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IC Anion Standards 1 000 mg/L

Detergents(non) ionic

Detergents(non) ionic	1 g TRITON® X-100 / I H ₂ O	100 ml	CL01.0421.0100
		500 ml	CL01.0421.0500

Detergents(-) Anionic

Detergents(-) Anionic	1 g C ₁₂ H ₂₅ NaO ₄ S / I H ₂ O	100 ml	CL01.0413.0100
		500 ml	CL01.0413.0500

Detergents(+) Kationic

Detergents(+) Kationic	1 g CTAB / I H ₂ O	100 ml	CL01.0401.0100
		500 ml	CL01.0401.0500

Dichromate

Dichromate	1.362 g K ₂ Cr ₂ O ₇ / I H ₂ O	100 ml	CL01.0353.0100
		500 ml	CL01.0353.0500

Fluoride

Fluoride	2.21 g NaF / I H ₂ O	100 ml	CL01.0611.0100
		500 ml	CL01.0611.0500

Formaldehyde

Formaldehyde	1 g HCOH / I H ₂ O	100 ml	CL01.0651.0100
		500 ml	CL01.0651.0500

Formate

Formate	1.501 g HCOONa / I H ₂ O	100 ml	CL01.0671.0100
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Fructose, D(-)**NEW**

Fructose, D(-)	1 g C ₆ H ₁₂ O ₆ / I H ₂ O	100 ml	CL01.0691.0100
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Galactose, D(+)**NEW**

Galactose, D(+)	1 g C ₆ H ₁₂ O ₆ / I H ₂ O	100 ml	CL01.0781.0100
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Glucose, D(+)**NEW**

Glucose, D(+)	1 g C ₆ H ₁₂ O ₆ / I H ₂ O	100 ml	CL01.0771.0100
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Glutarate**NEW**

Glutarate	1.016 g C ₅ H ₈ O ₄ / I H ₂ O	100 ml	CL01.0761.0100
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Glycolate**NEW**

Glycolate	1.013 g C ₂ H ₄ O ₃ / I H ₂ O	100 ml	CL01.0751.0100
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Hydrazine

Hydrazine	4.061 g N ₂ H ₄ .H ₂ SO ₄ / I H ₂ O	100 ml	CL01.0831.0100
		500 ml	CL01.0831.0500

Hydrogen carbonate

Hydrogen carbonate	1.377 g NaHCO ₃ / I H ₂ O	100 ml	CL01.2311.0100
		500 ml	CL01.2311.0500

Iodide

Iodide	1.308 g KI / I H ₂ O	100 ml	CL01.1001.0100
		500 ml	CL01.1001.0500

L-Lactate

L-Lactate	1.244 g C ₃ H ₅ NaO ₃ / I H ₂ O	100 ml	CL01.1241.0100
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IC Anion Standards 1 000 mg/L

Lactose				NEW
Lactose	1 g C ₁₂ H ₂₂ O ₁₁ / I H ₂ O	100 ml	CL01.1261.0100	
Malate				NEW
Malate	1.016 g C ₄ H ₆ O ₅ / I H ₂ O	100 ml	CL01.1382.0100	
Maleate				NEW
Maleate	1.009 g C ₄ H ₄ O ₄ / I H ₂ O	100 ml	CL01.1383.0100	
Malonate				NEW
Malonate	1.021 g C ₃ H ₄ O ₄ / I H ₂ O	100 ml	CL01.1384.0100	
Molybdate				
Molybdate	1.5128 g Na ₂ MoO ₄ .2H ₂ O / I H ₂ O	100 ml	CL01.1361.0100	
Nitrate				
Nitrate	1.63 g KNO ₃ / I H ₂ O	100 ml	CL01.1441.0100	
		500 ml	CL01.1441.0500	
Nitrite				
Nitrite	1.50 g NaNO ₂ / I H ₂ O	100 ml	CL01.1451.0100	
		500 ml	CL01.1451.0500	
Nitrogen				
Nitrogen	7.218 g KNO ₃ / I H ₂ O	100 ml	CL01.1991.0100	
		500 ml	CL01.1991.0500	
Nitrogen	3.81 g NH ₄ Cl / I 0.001 mol HCl	100 ml	CL01.1952.0100	
		500 ml	CL01.1952.0500	
Nitrogen	9.65 g C ₈ H ₉ NO / I CH ₃ OH/H ₂ O (4/6)	100 ml	CL01.1954.0100	
		500 ml	CL01.1954.0500	
Nitrogen	4.717 g (NH ₄) ₂ SO ₄ / I H ₂ O	100 ml	CL01.1955.0100	
		500 ml	CL01.1955.0500	
Nitrogen	4.9262 g NaNO ₂ / I H ₂ O	100 ml	CL01.1981.0100	
		500 ml	CL01.1981.0500	
Nitrogen	3.81 g NH ₄ Cl / I H ₂ O	100 ml	CL01.1951.0100	
		500 ml	CL01.1951.0500	
Oxalate				
Oxalate	1.523 g Na ₂ C ₂ O ₄ / I H ₂ O	100 ml	CL01.1511.0100	
Perchlorate				
Perchlorate	1.393 g KClO ₄ / I H ₂ O	100 ml	CL01.0349.0100	
		500 ml	CL01.0349.0500	
Phenol				
Phenol	1 g C ₆ H ₅ OH / I 0.4% NaOH (Store cool and dark !)	100 ml	CL01.0601.0100	
		500 ml	CL01.0601.0500	
Phosphate				
Phosphate	2.2014 g NaNH ₄ HPO ₄ .4H ₂ O / I H ₂ O	100 ml	CL01.0622.0100	
		500 ml	CL01.0622.0500	
Phthalate				NEW
Phthalate	1.244 g C ₈ H ₅ KO ₄ / I H ₂ O	100 ml	CL01.0672.0100	

IC Anion Standards 1 000 mg/L

Propionate

Propionate	1.314 g C ₂ H ₅ CO ₂ Na / l H ₂ O	100 ml	CL01.1631.0100
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Saccharose, D(+)

NEW

Saccharose, D(+)	1 g C ₁₂ H ₂₂ O ₁₁ / l H ₂ O	100 ml	CL01.4521.0100
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Silicate

Silicate	1 g SiO ₂ / l 0.4% NaOH	100 ml	CL01.1941.0100
		500 ml	CL01.1941.0500

Succinate

NEW

Succinate	1.017 g C ₄ H ₆ O ₄ / l H ₂ O	100 ml	CL01.4511.0100
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Sulfate

Sulfate	1.021 g H ₂ SO ₄ / l H ₂ O	100 ml	CL01.1975.0100
		500 ml	CL01.1975.0500

Sulfate	1.8141 g K ₂ SO ₄ / l H ₂ O	100 ml	CL01.1972.0100
		500 ml	CL01.1972.0500

Sulfate	1.479 g Na ₂ SO ₄ / l H ₂ O	100 ml	CL01.1971.0100
		500 ml	CL01.1971.0500

Tartrate

NEW

Tartrate	1.014 g C ₄ H ₆ O ₆ / l H ₂ O	100 ml	CL01.2341.0100
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Thiocyanate

Thiocyanate	1.673 g KCNS / l H ₂ O	100 ml	CL01.2661.0100
		500 ml	CL01.2661.0500

Thiosulfate

NEW

Thiosulfate	1.41g Na ₂ S ₂ O ₃ / l H ₂ O	100 ml	CL01.2351.0100
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REGISTERED
ISO 9001
ANT97141.1 by LRQA



ACCREDITED
ISO 17025
531-CAL by BELAC



ACCREDITED
ISO GUIDE 34
531-RM by BELAC

IC Cation Standards 1 000 mg/L

Ammonia				NEW
Ammonia	2.97 g NH ₄ Cl / l H ₂ O	100 ml 500 ml	CL01.0111.0100 CL01.0111.0500	
Barium				NEW
Barium	1.779 g BaCl ₂ .2H ₂ O / l H ₂ O	100 ml 500 ml	CL01.0208.0100 CL01.0208.0500	
Calcium				NEW
Calcium	3.668 g CaCl ₂ .2H ₂ O / l H ₂ O	100 ml 500 ml	CL01.0338.0100 CL01.0338.0500	
Cesium				NEW
Cesium	1.267 g CsCl / l H ₂ O	100 ml 500 ml	CL01.0336.0100 CL01.0336.0500	
Diethanolamine				NEW
Diethanolamine	1.000 g C ₄ H ₁₁ NO ₂ / l H ₂ O	100 ml	CL01.0451.0100	
Dimethylamine				NEW
Dimethylamine	1.000 g C ₂ H ₇ N / l H ₂ O	100 ml	CL01.0461.0100	
Ethanolamine				NEW
Ethanolamine	1.000 g C ₂ H ₇ NO / l H ₂ O	100 ml	CL01.0521.0100	
Lithium				NEW
Lithium	6.108 g LiCl / l H ₂ O	100 ml 500 ml	CL01.1218.0100 CL01.1218.0500	
Magnesium				NEW
Magnesium	8.363 g MgCl ₂ .6H ₂ O / l H ₂ O	100 ml 500 ml	CL01.1342.0100 CL01.1342.0500	
Methoxypropylamine-(3)				NEW
Methoxypropylamine-(3)	1.000 g C ₄ H ₁₁ NO / l H ₂ O	100 ml	CL01.1381.0100	
Monoethanolamine				NEW
Monoethanolamine	1 g C ₂ H ₇ NO / l H ₂ O	500 ml	CL01.1371.0500	
Morpholine				NEW
Morpholine	1.000 g C ₄ H ₉ NO / l H ₂ O	100 ml	CL01.1351.0100	
Potassium				NEW
Potassium	1.907 g KCl / l H ₂ O	100 ml 500 ml	CL01.1111.0100 CL01.1111.0500	
Rubidium				NEW
Rubidium	1.415 g RbCl / l H ₂ O	100 ml 500 ml	CL01.1828.0100 CL01.1828.0500	
Sodium				NEW
Sodium	2.542 g NaCl / l H ₂ O	100 ml 500 ml	CL01.1418.0100 CL01.1418.0500	

IC Cation Standards 1 000 mg/L

Strontium

NEW

Strontium	3.043 g SrCl ₂ .6H ₂ O / I H ₂ O	100 ml	CL01.1968.0100
		500 ml	CL01.1968.0500

Urea

NEW

Urea	1 g CH ₄ N ₂ O / I H ₂ O	1 l	CL01.2111.1000
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Certificate of Analysis IONEX Reference Standard

Catalogue No.: CL01.0111

Lot Nr.: 25.1650910

Ammonia IC standard solution (Ion HIQU)

2.97 g NH₄Cl / I H₂O

Measured value: 1 000 mg/L

Density: 0,999 g/mL - 20°C

Uncertainty: The uncertainty in the certified value is $\pm 0,2\%$ and is calculated in accordance to GUM and EA-4/02 as $U = k \cdot uc$ where $k=2$ is the coverage factor for a 95% coverage probability and uc is obtained from the standard uncertainty. U is the expanded uncertainty which includes the contribution of the primary reference material, temperature, and other contributions of the measuring system.

Traceability: Reference standards acc. NIST SRM 919b

Preparation: This single element standard was prepared to a nominal concentration of 1,000.00 $\mu\text{g/ml}$ by gravimetric methods from high purity metal or salt, 0,22 μm filtered ultra pure acids and 18 M high purity water. All balances are regularly calibrated according to NIST standards.

Impurity Information (*)

* All balances are regularly calibrated according to NIST standards.

Quality Management System:

Our Ionex(R) Reference Standards have been prepared and certified under our ISO9001 Quality System in accordance to the following guides:

Guide to the Expression of Uncertainty in Measurement
Reference Materials - Contents of certificates and labels
General requirements for the competence of calibration laboratories
Guideline for the requirements for the competence of reference materials manufacturers

GUM: 1995
ISO Guide 31: 2000
ISO / IEC 17025: 2000
LAC G12: 2000

Chemist: Luis Bianchi

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F06B

IC Anion Standards Economy

Bromide

Bromide	1.489 g KBr / l H ₂ O	100 ml	CL01.0246.0100
		500 ml	CL01.0246.0500

Carbonate

Carbonate	1.766 g Na ₂ CO ₃ / l H ₂ O	500 ml	CL01.0396.0500
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Chloride

Chloride	2.1 g KCl / l H ₂ O	500 ml	CL01.0346.0500
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Chromate

Chromate	1.471 g K ₂ Cr ₂ O ₇ / l H ₂ O	500 ml	CL01.0355.0500
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Cyanide

Cyanide	2.1092 g K ₃ (Fe(CN) ₆) / l H ₂ O	500 ml	CL01.0378.0500
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Cyanide	2.503 g KCN / l H ₂ O (Keep Cool !)	500 ml	CL01.0376.0500
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Fluoride

Fluoride	2.21 g NaF / l H ₂ O	500 ml	CL01.0616.0500
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Hydrazine

Hydrazine	4.1 g N ₂ H ₄ .H ₂ SO ₄ / l H ₂ O	500 ml	CL01.0836.0500
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Hydrogen carbonate

Hydrogen carbonate	1.377 g NaHCO ₃ / l H ₂ O	500 ml	CL01.2316.0500
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Iodide

Iodide	1.308 g KI / l H ₂ O	500 ml	CL01.1006.0500
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Nitrate

Nitrate	1.63 g KNO ₃ / l H ₂ O	500 ml	CL01.1446.0500
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Nitrite

Nitrite	1.50 g NaNO ₂ / l H ₂ O	500 ml	CL01.1456.0500
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Nitrogen

Nitrogen	7.218 g KNO ₃ / l H ₂ O	500 ml	CL01.1996.0500
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Nitrogen	4.9262 g NaNO ₂ / l H ₂ O	500 ml	CL01.1986.0500
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Nitrogen	3.81 g NH ₄ Cl / l H ₂ O	500 ml	CL01.1956.0500
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Phosphate

NEW

Phosphate	1.447 g KH ₂ PO ₄ / l H ₂ O	500 ml	CL01.0617.0500
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Phosphate	2.2 g NaNH ₄ HPO ₄ .4H ₂ O / l H ₂ O	500 ml	CL01.0627.0500
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Phosphate	1.032 g H ₃ PO ₄ / l H ₂ O	500 ml	CL01.0625.0500
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Silicate

Silicate	1 g SiO ₂ / l 0.4% NaOH	500 ml	CL01.1946.0500
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Sulfate

Sulfate	1.479 g Na ₂ SO ₄ / l H ₂ O	500 ml	CL01.1976.0500
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IC Cation Standards Economy

Ammonia

Ammonia	2.97 g NH ₄ Cl / l H ₂ O	500 ml	CL01.0116.0500
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Barium

Barium	1.779 g BaCl ₂ ·2H ₂ O / l H ₂ O	500 ml	CL01.0205.0500
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Calcium

Calcium	3.668 g CaCl ₂ ·2H ₂ O / l H ₂ O	500 ml	CL01.0315.0500
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Cesium

Cesium	1.267 g CsCl / l H ₂ O	500 ml	CL01.0335.0500
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Lithium

Lithium	6.108 g LiCl / l H ₂ O	500 ml	CL01.1215.0500
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Magnesium

Magnesium	8.363 g MgCl ₂ ·6H ₂ O / l H ₂ O	500 ml	CL01.1305.0500
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Potassium

Potassium	1.907 g KCl / l H ₂ O	500 ml	CL01.1105.0500
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Rubidium

Rubidium	1.415 g RbCl / l H ₂ O	500 ml	CL01.1825.0500
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Sodium

Sodium	2.542 g NaCl / l H ₂ O	500 ml	CL01.1405.0500
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Strontium

Strontium	2.416 g Sr(NO ₃) ₂ / l H ₂ O	500 ml	CL01.1965.0500
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A Certificate of Analysis is provided with each ICP standard stating:

- Actual certified concentration of the final solution
- Traceability to NIST
- Expiration date
- Trace impurities detected

Multi Element IC Standard sol. (9E)

NEW CL01.39071

 High quality standard sol. for IC Contains 9 elements in 0.001 mol/l HNO₃ (pH ± 3)

Density 1.01 g/ml HS Nr 38220000	Ammonium	: 100 mg/l	Manganese (Mn)	: 100 mg/l	
	Barium (Ba)	: 100 mg/l	Sodium (Na)	: 100 mg/l	
	Calcium (Ca)	: 100 mg/l	Strontium (Sr)	: 100 mg/l	
	Potassium (K)	: 100 mg/l			
	Lithium (Li)	: 100 mg/l			
	Magnesium (Mg)	: 100 mg/l			
			Art. Nr.	Pack	Pack Type
			CL01.39071.0100	100 ml	PE

Multi Element Standard for Soil Analysis (8E)

NEW CL01.13002

 High quality standard sol. for SF, AAS, ICP, FE, IC 3Na/3K/10NO₃/3NH₄/3P/10Mg/50Ca/0.1Fe(g/l)

Mol.Weight 1 Density 1.20 g/ml HS Nr 38220000	Sodium (Na)	: 3000 mg/l	Calcium (Ca)	: 50000 mg/l	
	Potassium (K)	: 3000 mg/l	Iron (Fe)	: 100 mg/l	
	Nitrate	: 10000 mg/l			
	Ammonium	: 3000 mg/l			
	Phosphorus (P)	: 3000 mg/l			
	Magnesium (Mg)	: 10000 mg/l			
			Art. Nr.	Pack	Pack Type
			CL01.13002.0100	100 ml	PE
			CL01.13002.0500	500 ml	PE/H

Multi Element IC Standard sol. (7E)

NEW CL01.13457

 High quality standard sol. for IC Contains 7 elements in H₂O (pH ± 9)

Density 1.01 g/ml HS Nr 38220000	Bromide	: 100 mg/l	Phosphate	: 100 mg/l	
	Chloride	: 100 mg/l	Sulfate	: 100 mg/l	
	Fluoride	: 100 mg/l			
	Nitrite	: 100 mg/l			
	Nitrate	: 100 mg/l			
			Art. Nr.	Pack	Pack Type
			CL01.13457.0100	100 ml	PE

Multi Element IC Standard sol. (7E)

NEW CL01.13290

 High quality standard sol. for IC Dionex Contains 7 elements in H₂O (pH ± 9)

Density 1.01 g/ml HS Nr 38220000	Bromide	100 mg/L	Phosphate	150 mg/L	
	Chloride	30 mg/L	Sulfate	150 mg/L	
	Fluoride	20 mg/L			
	Nitrite	100 mg/L			
	Nitrate	100 mg/L			
			Art. Nr.	Pack	Pack Type
			CL01.13290.0250	250 ml	PE

Multi Element IC Standard sol. (7E) - (ISB-ICAL-10)

NEW CL01.13436

 High quality standard sol. for IC Dionex Contains 7 elements in H₂O (pH ± 9)

Density 1.01 g/ml HS Nr 38220000	Bromide	: 100 mg/l	Phosphate	: 200 mg/l	
	Chloride	: 100 mg/l	Sulfate	: 100 mg/l	
	Fluoride	: 20 mg/l			
	Nitrite	: 100 mg/l			
	Nitrate	: 100 mg/l			
			Art. Nr.	Pack	Pack Type
			CL01.13436.0100	100 ml	PE

Multi Element IC Standard sol. IC-MAN-18 (6E)

CL01.13837

 *ICP-EPA Methods - Safe Drinking Water Act (SDWA) for Inorg. Anal. - Primary & Secondary Anions for Ion Chromatography Analysis
 element in H₂O (IC-MAN-18)

Contains 6

Density 1.02 g/ml HS Nr 38220000	Fluoride	: 100 mg/l	Sulfate	: 100 mg/l	
	Chloride	: 100 mg/l			
	Nitrite	: 100 mg/l			
	Nitrate	: 100 mg/l			
	Phosphate	: 100 mg/l			
			Art. Nr.	Pack	Pack Type
			CL01.13837.0100	100 ml	PE
			CL01.13837.0500	500 ml	PE/H

IC Multi Element Standards

Multi Element Standard sol. (6E)

NEW **CL01.13488**

High quality standard sol. for IC Dionex

Contains 6 elements in H2O

Density 1.00 g/ml HS Nr 38220000	Lithium (Li)	: 50 mg/l	Calcium (Ca)	: 500 mg/l	
	Sodium (Na)	: 200 mg/l			
	Ammonium	: 250 mg/l	Art. Nr.	Pack	Pack Type
	Potassium (K)	: 500 mg/l	CL01.13488.0100	100 ml	PE
	Magnesium (Mg)	: 250 mg/l	CL01.13488.0500	500 ml	PE/H

Multi Element IC Standard sol. (5E)

NEW **CL01.13355**

High quality standard sol. for IC Dionex

Contains 5 elements in H2O (pH 8-9)

Density 1.00 g/ml HS Nr 38220000	Fluoride	: 20 mg/l	Sulfate	: 150 mg/l	
	Chloride	: 30 mg/l			
	Nitrate	: 100 mg/l	Art. Nr.	Pack	Pack Type
	Phosphate	: 150 mg/l	CL01.13355.0100	100 ml	PE

Multi Element IC Standard sol. (5E)

NEW **CL01.39074**

High quality standard sol. for IC

Contains 5 elements in H2O (pH ± 6)

Density 1.01 g/ml HS Nr 38220000	Fluoride	: 100 mg/l	Phosphate	: 1000 mg/l	
	Chloride	: 250 mg/l			
	Nitrate	: 500 mg/l	Art. Nr.	Pack	Pack Type
	Sulfate	: 500 mg/l	CL01.39074.0500	500 ml	PE/H

Multi Element ICP SP Standard sol. SP-01R (4E)

CL01.13751

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Spiking Standard for Drinking Water # 1R (200.7-SP-01R)

Contains 4 elements in H2O + traces HF (M-

Density 1.02 g/ml HS Nr 38220000	Boron (B)	: 400 mg/l			
	Molybdenum (Mo)	: 200 mg/l	Art. Nr.	Pack	Pack Type
	Silicon (Si)	: 2000 mg/l	CL01.13751.0100	100 ml	PE
	Phosphorus (P)	: 400 mg/l	CL01.13751.0500	500 ml	PE/H

Multi Element IC Standard sol. IC-MAN-15R (4E)

CL01.13838

*ICP-EPA Methods - Safe Drinking Water Act (SDWA) for Inorg. Anal. - Primary Anions for Ion Chromatography Analysis (IC-MAN-15R)

Contains 4 element in H2O

Density 1.02 g/ml HS Nr 38220000	Fluoride	: 100 mg/l			
	Nitrite	: 100 mg/l	Art. Nr.	Pack	Pack Type
	Nitrate	: 100 mg/l	CL01.13838.0100	100 ml	PE
	Phosphate	: 100 mg/l	CL01.13838.0500	500 ml	PE/H

Multi Element IC Standard sol. (3E)

NEW **CL01.39075**

High quality standard sol. for IC

Contains 3 elements in H2O (pH ± 6)

Density 1.01 g/ml HS Nr 38220000	Nitrate	: 500 mg/l			
	Ammonium	: 500 mg/l	Art. Nr.	Pack	Pack Type
	Phosphate	: 500 mg/l	CL01.39075.0500	500 ml	PE/H

Multi Element IC Standard sol. (3E)

NEW **CL01.39072**

High quality standard sol. for IC

Contains 3 elements in H2O (pH ± 6)

Density 1.01 g/ml HS Nr 38220000	Fluoride	1000 mg/l			
	Phosphate	1000 mg/l	Art. Nr.	Pack	Pack Type
	Bromide	1000 mg/l	CL01.39072.0500	500 ml	PE/H

IC Multi Element Standards

Multi Element IC Standard sol. (3E)

NEW CL01.39073

High quality standard sol. for IC Contains 3 elements in H2O (pH ± 6)

Density 1.01 g/ml	Chloride	1000 mg/L	Art. Nr.	Pack	Pack Type
HS Nr 38220000	Nitrate	1000 mg/L	CL01.39073.0500	500 ml	PE/H
	Sulfate	1000 mg/L			

Multi Element IC Standard sol. (2E)

NEW CL01.39315

High quality standard sol. for IC, Biodiesel/Diesel analysis acc. ASTM D7328 Contains 2 elements in H2O (Store cool !)

Density 1.00 g/ml	Chloride	: 1 mg/l	Art. Nr.	Pack	Pack Type
HS Nr 38220000	Sulfate	: 1 mg/l	CL01.39315.0100	100 ml	PE

Multi Element IC Standard sol. (2E)

NEW CL01.39316

Standard for Biodiesel/Diesel analysis acc. ASTM D-7328 Contains 2 elements in H2O (Store cool !)

Density 1.00 g/ml	Chloride	: 3 mg/l	Art. Nr.	Pack	Pack Type
HS Nr 38220000	Sulfate	: 3 mg/l	CL01.39316.0100	100 ml	PE

Multi Element IC Standard sol. (2E)

NEW CL01.39317

Standard for Biodiesel/Diesel analysis acc. ASTM D-7328 Contains 2 elements in H2O (Store cool !)

Density 1.00 g/ml	Chloride	: 5 mg/l	Art. Nr.	Pack	Pack Type
HS Nr 38220000	Sulfate	: 5 mg/l	CL01.39317.0100	100 ml	PE

Multi Element IC Standard sol. (2E)

NEW CL01.39318

Standard for Biodiesel/Diesel analysis acc. ASTM D-7328 Contains 2 elements in H2O (Store cool !)


Density 1.00 g/ml	Chloride	: 10 mg/l	Art. Nr.	Pack	Pack Type
HS Nr 38220000	Sulfate	: 10 mg/l	CL01.39318.0100	100 ml	PE

Multi Element ICP Blank sol. (CLP-BLW)

CL01.13993

*ICP-EPA-CLP Methods - Calibration & Matrix Blanks - ASTM Type II Water ASTM Type II Water

Density 1.00 g/ml	Art. Nr.	Pack	Pack Type
HS Nr 38220000	CL01.13993.1000	1 l	PE/H
	CL01.13993.2500	2,5 l	PE/H



Certificate of Analysis IONEX Reference Standard

Art. Nr. : CL01.39073 Lot Nr. : 25.4962908

Multi Element IC Standard sol. (3E)
Contains 3 elements in H2O (pH ± 6)

Certification and Traceability: This standard solution was prepared to the certified concentrations shown below by method BM001 using certified single element solutions that are directly traceable to SI via the NIST SRMs listed on the second page. These certified values are valid for a temperature of 20°C and traceable to the International System of Units (SI). Secondary verification of the certified concentrations was performed by IC or ICP-OES.

Uncertainty: The maximum reported relative expanded uncertainty for each component is ± 1% and is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with GUM and EA-4/02.

Certified values:
Cl: 1000 mg/l
NO3: 1000 mg/l
SO4: 1000 mg/l

Quality Management System:
Our IONEX® Reference Standards have been prepared and certified under our ISO9001 Quality System in accordance to the principles of the following guides:
Guide to the Expression of Uncertainty in Measurement GUM: 1995
Reference Materials - Contents of certificates and labels ISO Guide 31: 2000
General requirements for the competence of calibration laboratories ISO / IEC 17025: 2005

Chemist: Luis Blanche Date of release: 29 August 2017
Expires: Aug 2019

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Chem-Lab multi-element standards are compared against the following NIST SRMs:

Element	Aq. SRM	Oil SRM	Element	Aq. SRM	Oil SRM
Ag	3151	1077a	Nb	3137	-
Al	3101a	1075a	Nd	3135a	-
As	3103a	3103a	Ni	3185	1065b
Ba	3102	-	NO3-	3185	-
B	3107	3107	NO2-	3185a	-
Be	3104a	10751a	P	3109a	1071b
Bi	3105a	3105a	Pb	3108	1069c
Br	3106	3106	PCB-3	3138	-
Ca	3104	3104	PCB-5	3138c	-
Cd	3107a	3109	Pr	3142a	-
Co	3108	10752a	Rb	3140	-
Cr	3110	-	Sb	3145a	-
Cu	3110a	-	Se	3143	-
Cy	3113	3113	Si	3144	-
D	3112a	1078b	Sr	3145	3154
Fe	3111a	1078b	Sr	3102a	3102a
Flu	3114	1080b	SC	3146a	3146b
Ga	3115a	-	Se	3149	3149
Ge	3116a	-	Si	3150	1066a
Hf	3117a	-	Sm	3147a	-
Hg	3118	-	Sn	3161a	1077b
I	3119a	1079b	SO4-2	3161	-
In	3119b	-	Sr	3153a	1070a
Ir	3119c	-	Ta	3155	-
Li	3120a	-	Tb	3157a	-
Mg	3121	-	Tc	3156	-
Mn	3122	-	Ti	3159	-
Mo	3123	-	Tl	3162b	3162b
N	3124	-	Tl	3163	3163
Na	3125	-	U	3160a	-
Ni	3126	-	V	3164	-
NO3-	3127a	-	W	3165	1052b
NO2-	3127b	-	Xe	3166a	-
NO2-	3127c	-	Y	3167a	3167a
NO2-	3127d	-	Zn	3168a	-
NO2-	3127e	-	Zn	3168b	1073b
NO2-	3127f	-	Zr	3169	3169

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Eluent Solutions for IC

Sodium carbonate 0.5 mol/l

NEW **CL05.1488**

Eluent solution for IC (0.45 µm filtered) 53 g Na₂CO₃ / l H₂O ± 1 N (± 1%)

Mol.Weight 105.99 g/mol

Density 1.03 g/ml

CasNr 497-19-8

EINECS 207-838-8

HS Nr 28362000

Art. Nr.	Pack	Pack Type
CL05.1488.0500	500 ml	PE

Sodium carbonate 0.1 mol/l

NEW **CL05.1461**

Eluent solution for IC (0.45 µm filtered) 10.6 g Na₂CO₃ / l H₂O ± 0.2 N (± 1%)

Mol.Weight 105.99 g/mol

Density 1.01 g/ml

CasNr 497-19-8

EINECS 207-838-8

HS Nr 28362000

Art. Nr.	Pack	Pack Type
CL05.1461.0500	500 ml	PE
CL05.1461.1000	1 l	PE

Sodium carbonate 0.35 mol/l-I-Sodium bicarbonate 0.17 mol/l

NEW **CL05.4030**

Eluent solution for IC (0.45 µm filtered) 37.096 g Na₂CO₃ + 14.282 g NaHCO₃ / l H₂O (± 1%)

Density 1.00 g/ml

HS Nr 38220000

Art. Nr.	Pack	Pack Type
CL05.4030.0500	500 ml	PE

Sodium carbonate 0.18 mol/l-I-Sodium bicarbonate 0.17 mol/l

NEW **CL05.4024**

Eluent solution for IC (0.45 µm filtered) 19.078 g Na₂CO₃ + 14.282 g NaHCO₃ / l H₂O (± 1%)

Density 1.00 g/ml

HS Nr 38220000

Art. Nr.	Pack	Pack Type
CL05.4024.0500	500 ml	PE

Sodium hydrogen carbonate 0.5 mol/l

NEW **CL05.4005**

Eluent solution for IC (0.45 µm filtered) 42.005 g NaHCO₃ / l H₂O ± 0.5 N (± 1%)

Mol.Weight 84.01 g/mol

Density 1.02 g/ml

CasNr 144-55-8

EINECS 205-633-8

HS Nr 28363000

Art. Nr.	Pack	Pack Type
CL05.4005.0500	500 ml	PE

Sodium hydroxide 0.4 g/l solution

CL02.1449

Eluent solution for IC (0.45 µm filtered) 0.4 g NaOH / l H₂O

Mol.Weight 40.00 g/mol **UN** 1824

Density 1.15 g/ml **ADR** 8,III

CasNr 1310-73-2 **IATA** 8,III

EINECS 215-185-5 **IMDG** 8,III

HS Nr 28151200

Art. Nr.	Pack	Pack Type
CL02.1449.1000	1 l	PE

Water for Inorganic Analysis Methods

Water, High Purity ICP-MS grade (Pico-Pure Plus)

NEW CL02.2107

For laboratory use, ICP-MS trace analysis

H₂O - LF < 1 µS - 0.2 µm filtrated (ppt range HM traces)


Mol.Weight 18.016 g/mol	Gadolinium (Gd)	<1ppt	Scandium (Sc)	<10ppt	
Density 1.00 g/ml	Gallium (Ga)	<10ppt	Selenium (Se)	<50ppt	
CasNr 7732-18-5	Germanium (Ge)	<10ppt	Silver (Ag)	<10ppt	
EINECS 231-791-2	Gold (Au)	<10ppt	Sodium (Na)	<10ppt	
HS Nr 28530010	Hafnium (Hf)	<1ppt	Strontium (Sr)	<10ppt	
	Holmium (Ho)	<1ppt	Tantalum (Ta)	<10ppt	
	Indium (In)	<1ppt	Tellurium (Te)	<1ppt	
Colour <10APHA	Iron (Fe)	<10ppt	Terbium (Tb)	<10ppt	
Chloride <1ppt	Lanthanum (La)	<1ppt	Thallium (Tl)	<10ppt	
Phosphate <1ppt	Lead (Pb)	<10ppt	Thorium (Th)	<1ppt	
Sulfite <1ppt	Lithium (Li)	<10ppt	Thulium (Tm)	<10ppt	
Aluminium (Al) <20ppt	Lutetium (Lu)	<1ppt	Tin (Sn)	<10ppt	
Antimony (Sb) <10ppt	Magnesium (Mg)	<10ppt	Titanium (Ti)	<10ppt	
Arsenic (As) <10ppt	Manganese (Mn)	<10ppt	Tungsten (W)	<10ppt	
Barium (Ba) <10ppt	Mercury (Hg)	<20ppt	Uranium (U)	<1ppt	
Beryllium (Be) <10ppt	Molybdenum (Mo)	<10ppt	Vanadium (V)	<10ppt	
Bismuth (Bi) <10ppt	Neodymium (Nd)	<1ppt	Ytterbium (Yb)	<10ppt	
Boron (B) <20ppt	Nickel (Ni)	<10ppt	Yttrium (Y)	<1ppt	
Cadmium (Cd) <10ppt	Niobium (Nb)	<10ppt	Zinc (Zn)	<10ppt	
Calcium (Ca) <10ppt	Palladium (Pd)	<10ppt	Zirconium (Zr)	<10ppt	
Cerium (Ce) <10ppt	Platinum (Pt)	<10ppt			
Caesium (Cs) <10ppt	Potassium (K)	<10ppt			
Chromium (Cr) <10ppt	Praseodymium (Pr)	<10ppt			
Cobalt (Co) <10ppt	Rhenium (Re)	<10ppt			
Copper (Cu) <10ppt	Rhodium (Rh)	<10ppt			
Dysprosium (Dy) <1ppt	Rubidium (Rb)	<10ppt			
Erbium (Er) <1ppt	Ruthenium (Ru)	<10ppt	Art. Nr.	Pack	Pack Type
Europium (Eu) <1ppt	Samarium (Sm)	<10ppt	CL02.2107.1000	1 l	LDPE

D.: 1.41 g/ml
M.W.: 63.01 g/mol

CAS Nr. 7697-37-2
Index Nr. 007-004-00-1
EINECS Nr. 231-714-2

UN 2031

FEP 500



CL00.1964.0500
500 ml
Batch Nr.: 26.4632501
Exp. Date: 01-2023
Storage: RT

Nitric acid 67-69% (Pico-Pure Plus)
Salpeterzuur 67-69% (Pico-Pure Plus)
Acide nitrique 67-69% (Pico-Pure Plus)
Salpetersäure 67-69% (Pico-Pure Plus)
Acido nítrico 67-69% (Pico-Pure Plus)
Acido nítrico 67-69% (Pico-Pure Plus)
67-69% HNO₃

For laboratory use, ICP-MS trace analysis

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Danger: May intensify fire, oxidiser. Causes severe skin burns and eye damage. May be corrosive to metals. Do not breathe dust, fume, gas, mist, vapours, spray. Wear protective gloves, protective clothing, eye protection, face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



Gevaar: Kan brand bevorderen; oxidiserend. Veroorzaakt ernstige brandwonden en oogletsel. Kan bijland zijn voor metalen. Stof, rook, gas, nevel, damp, spuitnevel niet inademen. Beschermdende handschoenen, beschermende kleding, oogbescherming, gelaatsbescherming dragen. NA INSLUKKEN: de mond spoelen. GEEN braken opwekken. NA blootstelling of bij onwel voelen: Onmiddellijk een ANTIGIFCENTRUM of een arts raadplegen. BIJ CONTACT MET DE OGEN: voorzichtig afspoelen met water gedurende een aantal minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen.

Danger: Peut aggraver un incendie; comburant. Provoque des brûlures de la peau et des lésions oculaires graves. Peut être corrosif pour les métaux. Ne pas respirer les poussières, fumées, gaz, brouillards, vapeurs, aérosols. Porter des gants de protection, des vêtements de protection, un équipement de protection des yeux, du visage. EN CAS D'INGESTION: rincer la bouche. NE PAS faire vomir. EN CAS d'exposition ou de malaise: Appeler immédiatement un CENTRE ANTIPOISON ou un médecin. EN CAS DE CONTACT AVEC LES YEUX: rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.

Gefahr: Kann Brand verstärken; Oxidationsmittel. Verursacht schwere Verätzungen der Haut und schwere Augenschäden. Kann gegenüber Metallen korrosiv sein. Staub, Rauch, Gas, Nebel, Dampf, Aerosol nicht einatmen. Schutzhandschuhe, Schutzkleidung, Augenschutz, Gesichtsschutz tragen. BEI VERSCHLUCKEN: Mund ausspülen. KEIN Erbrechen herbeiführen. BEI Exposition oder Unwohlsein: Sofort GIFTINFORMATIONSZENTRUM oder Arzt anrufen. BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.

Peligro: Puede agravar un incendio; comburente. Provoca quemaduras graves en la piel y lesiones oculares graves. Puede ser corrosivo para los metales. No respirar el polvo, el humo, el gas, la neblina, las vapores, el aerosol. Llevar guantes, prendas, gafas, máscara de protección. EN CASO DE INGESTION: Enjuagarse la boca. NO provocar el vómito. EN CASO DE exposicion o si se encuentra mal: Llamar inmediatamente a un CENTRO DE INFORMACION TOXICOLOGICA o a un médico. EN CASO DE CONTACTO CON LOS OJOS: Aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando.

Pericolo: Può aggravare un incendio; comburente. Provoca gravi ustioni cutanee e gravi lesioni oculari. Può essere corrosivo per i metalli. Non respirare la polvere, i fumi, i gas, la nebbia, i vapori, gli aerosol. Indossare guanti, indumenti protettivi. Proteggere gli occhi, il viso. IN CASO DI INGESTIONE: sciacquare la bocca. NON provocare il vomito. IN CASO di esposizione o di malessere: Contattare immediatamente un CENTRO ANTIVELENI o un medico. IN CASO DI CONTATTO CON GLI OCCHI: scioaquare accuratamente per parecchi minuti. Togliere le eventuali lenti a contatto se è agevole farlo. Continuare a scioaquare.

Water for Inorganic Analysis Methods

Water (ultra pure)

CL02.2101

For laboratory use, AAS and ICP, ASTM D-94, D-129

H₂O - LF < 1 µS - 0.4 µm, UV filtrated

Mol.Weight 18.016 g/mol	Non Volatiles	< 1 ppm	Sodium (Na)	<0.01 ppm
Density 1.00 g/ml	Chloride	< 0.05 ppm	Nickel (Ni)	<0.0004 ppm
CasNr 7732-18-5	Fluoride	< 0.05 ppm	Lead (Pb)	<0.001 ppm
EINECS 231-791-2	Nitrate	< 0.01 ppm	Palladium (Pd)	<0.008 ppm
HS Nr 28530010	Phosphate	< 0.01 ppm	Platinum (Pt)	<0.001 ppm
	Silicate	<0.01 ppm	Antimony (Sb)	<0.001 ppm
	Sulfate	<0.1 ppm	Selenium (Se)	<0.0001 ppm
	Silver (Ag)	<0.0004 ppm	Tin (Sn)	<0.001 ppm
	Aluminium (Al)	<0.002 ppm	Strontium (Sr)	<0.0004 ppm
	Arsenic (As)	<0.002 ppm	Titanium (Ti)	<0.001 ppm
	Gold (Au)	<0.001 ppm	Thallium (Tl)	<0.00005 ppm
	Boron (B)	<0.005 ppm	Vanadium (V)	<0.001 ppm
	Barium (Ba)	<0.001 ppm	Zinc (Zn)	<0.004 ppm
	Beryllium (Be)	<0.002 ppm	Zirconium (Zr)	<0.001 ppm
	Bismuth (Bi)	<0.001 ppm		
	Calcium (Ca)	<0.005 ppm		
	Cadmium (Cd)	<0.001 ppm		
	Cobalt (Co)	<0.001 ppm		
	Chromium (Cr)	<0.0004 ppm		
	Copper (Cu)	<0.0004 ppm		
	Iron (Fe)	<0.001 ppm		
	Potassium (K)	<0.005 ppm		
	Lithium (Li)	<0.002 ppm		
	Magnesium (Mg)	<0.005 ppm		
	Manganese (Mn)	<0.0004 ppm		
	Molybdenum (Mo)	<0.002 ppm		
			Art. Nr.	Pack
			CL02.2101.5000	5 l
			CL02.2101.9010	10 l
			CL02.2101.9025	25 l
			CL02.2101.9520	20 l
				Pack Type
				PE
				PE
				PE
				EP

Water, IC grade

NEW CL02.2115

For laboratory use & Ion Chromatography

H₂O - LF < 2 µS - 0.2 µm filtrated

Mol.Weight 18.016 g/mol	Non Volatiles	<5ppm	Chromium (Cr)	<0.005µg/l
Density 1.00 g/ml	Conductivity	<2µS	Copper (Cu)	<0.005µg/l
CasNr 7732-18-5	Acetate	<10 µg/l	Iron (Fe)	<0.005µg/l
EINECS 231-791-2	Formate	<10 µg/l	Potassium (K)	<0.01µg/l
HS Nr 28530010	Glycolate	<10 µg/l	Lithium (Li)	<0.005µg/l
	Oxalate	<10 µg/l	Magnesium (Mg)	<0.005µg/l
	Bromate	<1 µg/l	Manganese (Mn)	<0.005µg/l
	Bromide	<1 µg/l	Molybdenum (Mo)	<0.005µg/l
	Chlorate	<1 µg/l	Ammonia	<0.01µg/l
	Chloride	<1 µg/l	Sodium (Na)	<0.01µg/l
	Fluoride	<1 µg/l	Nickel (Ni)	<0.005µg/l
	Iodide (I)	<1 µg/l	Lead (Pb)	<0.005µg/l
	Nitrate	<1 µg/l	Strontium (Sr)	<0.005µg/l
	Nitrite	<1 µg/l		
	Phosphate	<1 µg/l		
	Sulfate	<1 µg/l		
	Aluminium (Al)	<0.005µg/l		
	Barium (Ba)	<0.005µg/l		
	Bismuth (Bi)	<0.005µg/l		
	Calcium (Ca)	<0.01µg/l		
	Cadmium (Cd)	<0.005µg/l		
	Cobalt (Co)	<0.005µg/l		
			Art. Nr.	Pack
			CL02.2115.5000	5 l
				Pack Type
				FL/HDPE

Water (double distilled pyrogen free)

CL02.0208

For laboratory use H₂O - LF < 5 µS

Mol.Weight 18.016 g/mol

Density 1.00 g/ml

CasNr 7732-18-5

EINECS 231-791-2

HS Nr 28530010

Art. Nr.	Pack	Pack Type
CL02.0208.5000	5 l	PE
CL02.0208.9010	10 l	PE

Water Demineralised

CL02.2102

For laboratory use H₂O - LF < 5 µS

Mol.Weight 18.016 g/mol

Density 1.00 g/ml

CasNr 7732-18-5

EINECS 231-791-2

HS Nr 28530010

Non Volatiles < 5 ppm

Art. Nr.	Pack	Pack Type
CL02.2102.9010	10 l	PE
CL02.2102.9025	25 l	PE

