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CERTIFICATE OF ANALYSIS

Product: Chlorides (Cl⁻) 1000 mg/l in H₂O for IC Batch 25705801
CL0229 Quality Release Date 01.04.2025
Expiry Date: 03.2028

Analysis	Batch Value (mg/l)	Specifications (mg/l)
concentration (Cl ⁻)	998.4 ± 2.2 (y)	1000

Density: 0.999 g/cm³ at 20 °C

Preparation

This certified reference material is produced in a clean room, using a highest purity starting material, acid from sub-boiling and 0.055 µS/cm deionized water. The HDPE bottle was decontaminated by leaching with 0.055 µS/cm deionized water and triple rinse.

The instructions of ISO 17034 were considered for the preparation of this solution.

Contains: NaCl 99.999%

Traceability

This standard is traceable to NIST SRM No 3182 Lot 190830; NIST SRM No 999c The certified value was obtained by a weighted mean of the results of two independent testing methods among: Classical Volumetric, Primary Gravimetric, Instrumental (ICP, ICP/MS or IC) according to calibration procedure (y) WQP 5.15.1.24

The calibration curve is drawn using a series of standard solutions prepared from a certified reference material traceable to NIST (SRM) and accredited by laboratories/producers in compliance with ISO/IEC 17025 and/or ISO 17034.

Uncertainty

The reported expanded uncertainty of measurement 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 EA 4/02

Measurement

Batch value certified at the time of measurement.

The certified value is calculated by means of both gravimetric preparation and Ion Chromatographs analysis.

Hazardous

The normal laboratory safety precautions should be observed when working with this standard.

Please refer to Safety Data Sheet (SDS) to further details.

Homogeneity

This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

To ensure sufficient homogeneity of the sample prior to use, mix thoroughly by shaking.

Storage and use

For Ion Chromatograph calibration.

If stored unopened in the original packaging, this solution is stable until its expiry date. Shelf life is also limited

by the effect of transpiration of solvent through the unopened bottle walls at an average of <0.1% per year. Once the bottle is opened, keep tightly closed at room temperature in the original packaging. Do not pipette directly from the bottle. Do not pour the used solution back in the bottle. This standard can be used directly or can be diluted in an appropriate high-purity matrix. Obtained concentration (in mg/l) after dilution is a result from the multiplication of certified value of standard concentration and the volume used for dilution and divided into the final volume used for dilution.

We recommend that the material used be leached with acids.
We suggest rejecting the solution six months after opening.

This document is designed and the certified value(s) and uncertainty(ies) are determined in accordance with ISO Guide 31, ISO Guide 35 and Eurachem/CITAC Guides.

Signature:  (M. Canet)

This certificate does not release the user from their control upon receipt of the goods. You can get a copy of any of our COA from our website: www.scharlab.com

Trace impurities in the actual solution reported in ppm:

(all values below are nominal and not certified)

Trace impurities in the actual solution reported in ppm:	
F ⁻	<0.004
NO ₃ ⁻	0.006
Cl ⁻	*
NO ₂ ⁻	<0.003
Br ⁻	<0.002
PO ₄ ³⁻	<0.005
SO ₄ ²⁻	<0.006

Operating Conditions Ion Chromatography:	
Column:	IonPack AS14 4 mm
Anion Self regenerating	DIONEX AERS 500 4 mm
Suppressor:	
Eluent Flow Rate:	0.6 ml/min
Eluent:	3.5 mM Na ₂ CO ₃ / 1 mM NaHCO ₃
Sample Concentration:	10 mg/l
Sample Volume:	25 µl loop

