

# Certificate of Analysis

**Chloride Standard, 1000 ppm Cl<sup>-</sup> (0.0282 Normal)**

**Lot Number:** 4402P75

**Product Number:** 1955

**Manufacture Date:** MAR 01, 2024

**Expiration Date:** FEB 2026

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Chloride	7647-14-5	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Silver Nitrate/Potassium Chromate)	999-1001 ppm Cl	1000 ppm Cl	999

Specification	Reference
Chloride Solution Stock (1.00 mL = 1.00 mg chloride)	ASTM (D 5542)
Chloride Solution, Stock (1000 mg/L)	ASTM (D 512 C)
Standard Chloride Solution, 1000 mg/L	APHA (4110 B)
Stock Chloride Solution	APHA (4500-Cl- E)
Sodium Chloride Calibration Standard (1 µg Cl <sup>-</sup> /µL)	EPA (SW-846) (9023)
Sodium Chloride Calibration Standard (1 µg Cl <sup>-</sup> /µL)	EPA (SW-846) (9021)
Chloride Stock Solution (1.00 mL = 1.00 mg Cl <sup>-</sup> )	EPA (SW-846) (9056)
Sodium Chloride, NaCl, stock standard solution	EPA (SW-846) (9057)
Chloride Calibration Stock Solution (1,000 mg/L Cl <sup>-</sup> )	EPA (SW-846) (9212)
Chloride solution (1000 ppm)	TAPPI (T 700 om-93)
Chloride solution (1000 ppm)	TAPPI (T 699 om-87)
Sodium Chloride Solution, 1 mL = 1 mg Cl <sup>-</sup>	ASTM (D 4458)
Chloride Stock Solution (1.00 mL = 1.00 mg Cl <sup>-</sup> )	ASTM (D 4327)
Chloride Solution, Stock (1.00 mL = 1.00 mg Cl)	ASTM (D 5996)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1955-1	4 L natural poly	24 months
1955-16	500 mL natural poly	24 months
1955-32	1 L natural poly	24 months
1955-4	120 mL natural poly	24 months
1955-8	250 mL natural poly	24 months

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)



Paul Brandon (03/01/2024)

Production Manager

This document is designed to comply with ISO Guide 31 "Reference Materials --  
Contents of Certificates and Labels."

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