

# Certificate of Analysis

**Calcium Chloride Standard, 1000 ppm CaCO<sub>3</sub> (400 ppm Ca), 0.0100 M Ca<sup>2+</sup>, 0.0200 N Ca<sup>2+</sup>**

**Lot Number:** 1403H11

**Product Number:** 1780

**Manufacture Date:** MAR 14, 2024

**Expiration Date:** SEP 2025

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Calcium Carbonate	471-34-1	ACS Chelometric
Hydrochloric Acid	7647-01-0	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. EDTA/Eriochrome Black T)	0.00999-0.01001 Molar	0.01000 Molar	915

Specification	Reference
Calcium Solution, Standard (1.00 mL = 0.400 mg calcium)	ASTM (D 511 A)
Standard calcium solution	APHA (2340 C)
Standard calcium solution, 0.01 M	TAPPI (T 247 cm-83)
Standard Calcium Solution, 0.02 N	EPA (215.2)
Stock Solution, 1.0 mL = 1.0 mg CaCO <sub>3</sub>	EPA (130.1)
Standard Calcium Solution, 0.02 N	EPA (130.2)

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)
1780-1	4 L natural poly	18 months
1780-16	500 mL natural poly	18 months
1780-32	1 L natural poly	18 months
1780-4	120 mL natural poly	18 months

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



Heidi J Green (03/14/2024)

Operations Manager

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

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