

# Certificate of Analysis

## Inorganic Carbon Standard, 1000 ppm C

**Lot Number:** 1306M53

**Product Number:** 1845

**Manufacture Date:** JUN 28, 2023

**Expiration Date:** JUN 2024

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Carbonate	497-19-8	ACS Alkalimetric
Sodium Bicarbonate	144-55-8	ACS

Test	Specification	Result
Appearance	Colorless liquid	Passed
Carbon (C)	995-1005 ppm	1000 ppm

Specification	Reference
Inorganic Carbon Stock Solution	APHA (5310 B)
Carbonate-Bicarbonate, Stock Solution	EPA (SW-846) (9060)
Carbonate-Bicarbonate, Stock Solution, 1000 mg Carbon/liter	EPA (415.1)
Carbonate Carbon Solution, Standard (1 mL = 1 mg C)	ASTM (D 2579)

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)
1845-16	500 mL amber glass	12 months
1845-4	120 mL amber glass	12 months

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



Heidi J Green (06/28/2023)

Operations Manager

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

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