

# Certificate of Analysis

## Perchloric Acid, 0.100 Normal (N/10) in Glacial Acetic Acid

**Lot Number:** 1306H26

**Product Number:** 5515

**Manufacture Date:** JUN 23, 2023

**Expiration Date:** NOV 2024

Name	CAS#	Grade
Acetic Acid	64-19-7	ACS
Acetic Anhydride	108-24-7	ACS
Perchloric Acid	7601-90-3	ACS
Water	7732-18-5	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless to light yellow liquid	Passed	
Assay (vs. Potassium Hydrogen Phthalate/Crystal Violet)	0.0999-0.1001 N at 20°C	0.1000 N at 20°C	84
Water (H <sub>2</sub> O)	0.020-0.050 % (w/w)	0.037 % (w/w)	

Specification	Reference
Perchloric Acid, Standard Solution in Acetic Acid (0.1 N)	ASTM (D 2896)
Acetous Perchloric Acid, 0.1 N	ASTM (E 200)
Perchloric Acid in Glacial Acetic Acid, 0.1 Normal Volumetric Solution	ACS (N/A)
Perchloric Acid, Tenth-Normal (0.1 N) Volumetric Solution (in Glacial Acetic Acid) Volumetric Solution	USP (N/A)

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)
5515-1	4 L amber glass	18 months
5515-16	500 mL amber glass	18 months
5515-32	1 L amber glass	18 months
5515-4	120 mL amber glass	18 months
5515-5PT	2.5 L safety-coated glass	18 months

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



Heidi J Green (06/23/2023)

Operations Manager

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

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