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# Certificate of Analysis

**Potassium Permanganate, 0.100 Normal (N/10), 0.0200 Molar (M/50)**

**Lot Number:** 4210K44

**Product Number:** CP-1991

**Manufacture Date:** 10/20/2023

**Expiration Date:** 04/11/2025

The shorter shelf life of some sizes of this product is due to chemical incompatibility with the plastic packaging material. For these sizes, please consult the package label for expiration date. Product packaged in plastic containers or cubitainers should be restandardized before each use if extreme accuracy is required.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Permanganate	7722-64-7	ACS

Test	Specification	Result	NIST SRM#
Appearance	Purple liquid	Passed	
Assay (vs. Sodium Oxalate)	0.0999-0.1001 N at 20°C	0.1000 N at 20°C	8040

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)
CP-C1991P	4 L amber glass	18 months

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

Paul Brandon

Production Manager

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