

# Certificate of Analysis

## Potassium Permanganate, 5% (w/v), Low Mercury

**Lot Number:** 4302J99

**Product Number:** 6360

**Manufacture Date:** FEB 23, 2023

**Expiration Date:** FEB 2025

 Manufactured from special, Low in Mercury (0.05 ppm Hg maximum allowable), ACS Reagent Grade Potassium Permanganate (KMnO<sub>4</sub>), CAS No. 7722-64-7.

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

Test	Specification	Result
Appearance	Purple liquid	Passed
Assay (by Specific Gravity)	4.92-5.08 % (w/v)	4.92 % (w/v)

Specification	Reference
Potassium Permanganate Solution	APHA (3500-Hg C)
Potassium permanganate solution	APHA (3112 B)
Potassium Permanganate, 5% (w/v)	EPA (SW-846) (60)
Potassium Permanganate, 5% (w/v)	EPA (SW-846) (3665A)
Potassium Permanganate, Mercury-Free, 5% Solution (w/v)	EPA (SW-846) (7471A)
Potassium Permanganate, Mercury-Free, 5% solution (w/v)	EPA (SW-846) (7470A)
Potassium Permanganate, 5% solution, w/v	EPA (245.5)
Potassium Permanganate Solution (50 g/L)	ASTM (D 3223)

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)
6360-1	4 L amber glass	24 months
6360-16	500 mL amber glass	24 months
6360-2.5	10 L Cubitainer®	24 months
6360-32	1 L amber glass	24 months

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



Paul Brandon (02/23/2023)

Production Manager

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

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