

Certificate of Analysis

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

Lot Number: 1309G33

Product Number: 6400

Manufacture Date: SEP 12, 2023

Expiration Date: MAR 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 |

| Specification | Reference |
|--|---------------------|
| 0.1 N Potassium Permanganate Solution | APHA (3500-Mn B) |
| Potassium permanganate solution, standardized 0.1000 ± 0.0005 N | TAPPI (T 236 cm-85) |
| Potassium Permanganate, 0.1 N | EPA (218.3) |
| Potassium permanganate, 0.1 N | TAPPI (T 610 sp-97) |
| Potassium Permanganate, 0.1 N | EPA (245.2) |
| Potassium Permanganate, 0.1 N Volumetric Solution | ASTM (E 200) |
| Potassium Permanganate, 0.1 Normal Volumetric Solution | ACS (N/A) |
| 0.02 M Potassium permanganate Volumetric Solution | EP (3005300) |
| Potassium Permanganate TS | USP (N/A) |
| Potassium Permanganate, Tenth-Normal (0.1 N) 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) |
|-------------|------------------------------|---------------------------------|
| 6400-16 | 500 mL amber glass | 18 months |
| 6400-1SC | 4 L safety-coated glass | 18 months |
| 6400-200 | 200 mL amber glass | 18 months |
| 6400-32 | 1 L amber glass | 18 months |
| 6400-5 | 20 L Cubitainer [®] | 6 months |

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



Heidi J Green (09/12/2023)

Operations Manager

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

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