

Certificate of Analysis

Iodine (Iodine-Iodide), 0.0250 Normal (N/40), 1 mL = 0.4008 mg S²⁻

Lot Number: 1308K54

Product Number: 3975

Manufacture Date: AUG 16, 2023

Expiration Date: AUG 2024

| Name | CAS# | Grade |
|------------------|-----------|-----------------|
| Water | 7732-18-5 | ACS/ASTM/USP/EP |
| Potassium Iodide | 7681-11-0 | ACS |
| Iodine | 7553-56-2 | ACS |

| Test | Specification | Result | NIST SRM# |
|---------------------------------------|---------------------------|-------------------|-----------|
| Appearance | Dark brown liquid | Passed | |
| Assay (vs. Sodium Thiosulfate/Starch) | 0.02498-0.02502 N at 20°C | 0.02501 N at 20°C | 136 |

| Specification | Reference |
|---|---------------------|
| Standard Iodine Solution, 0.0250 N | APHA (4500-S2- F) |
| Iodine Solution (approximately 0.025 N) | EPA (SW-846) (9031) |
| Standard Iodine Solution, 0.0250 N | EPA (376.1) |
| Iodine Solution (approximately 0.025 N) | EPA (SW-846) (9034) |

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) |
|-------------|---------------------|---------------------------------|
| 3975-1 | 4 L amber glass | 12 months |
| 3975-16 | 500 mL amber glass | 12 months |
| 3975-32 | 1 L amber glass | 12 months |

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



Heidi J Green (08/16/2023)

Operations Manager

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

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