

Certificate of Analysis

Sodium Hydroxide, 4% (w/v) (40 g/L)

Lot Number: 1307J91

Product Number: 7247

Manufacture Date: JUL 12, 2023

Expiration Date: JUN 2026

| Name | CAS# | Grade |
|------------------|-----------|-----------------|
| Water | 7732-18-5 | ACS/ASTM/USP/EP |
| Sodium Hydroxide | 1310-73-2 | ACS |

| Test | Specification | Result | NIST SRM# |
|---|-------------------|--------------|-----------|
| Appearance | Colorless liquid | Passed | |
| Assay (vs. Sulfuric Acid/Phenolphthalein) | 3.96-4.04 % (w/v) | 3.99 % (w/v) | 723 |

| Specification | Reference |
|---|-------------------|
| Sodium Hydroxide Solution (40 g/L) | ASTM (D 515 A) |
| Sodium Hydroxide Solution | APHA (4500-CN- G) |
| Sodium Hydroxide Solution | APHA (4500-CN- I) |
| Sodium Hydroxide Solution | APHA (4500-CN- C) |
| Sodium Hydroxide Solution (40 g/L) | ASTM (D 2036 A) |
| Sodium Hydroxide Solution (40 g/L) | ASTM (D 2036 B) |
| Sodium Hydroxide Solution (40 g/L) | ASTM (D 2036 C) |
| Sodium Hydroxide Solution (40 g/L) | ASTM (D 2036 D) |
| Sodium Hydroxide, Stock Solution, 40 g/L (1.0M) | ASTM (D 4374) |
| Sodium Hydroxide Solution (4 g/100 mL) | ASTM (D 4994 A) |
| Sodium Hydroxide Solution (40 g/L) | ASTM (D 4165) |
| Sodium Hydroxide Solution (40 g/l) | ASTM (D 2187 A) |
| Sodium Hydroxide Solution (40 g/L) | ASTM (E 200) |
| Sodium Hydroxide TS | 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) |
|-------------|---------------------|---------------------------------|
| 7247-16 | 500 mL natural poly | 36 months |
| 7247-32 | 1 L natural poly | 36 months |

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



Heidi J Green (07/12/2023)

Operations Manager

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

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