



ChemPure Brand Chemicals
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Certificate of Analysis

Sodium Hydroxide, 1.00 Normal

Lot Number: 4211J32

Product Number: CP-2438

Manufacture Date: 11/22/2022

Expiration Date: 11/08/2024

The certified value for this product is confirmed in independent testing by a second qualified chemist.

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

| Test | Specification | Result | NIST SRM# |
|--|-----------------------|-----------------|-----------|
| Appearance | Colorless liquid | Passed | |
| Assay (vs. Potassium Hydrogen Phthalate/Phenolphthalein) | 0.999-1.001 N at 20°C | 1.000 N at 20°C | 84 |

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-C2438P | 4 L natural poly | 24 months |

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

Paul Brandon

Production Manager

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