

# Certificate of Analysis

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

**Lot Number:** 4402H96

**Product Number:** 7247

**Manufacture Date:** FEB 14, 2024

**Expiration Date:** JAN 2027

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)	4.01 % (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)



Paul Brandon (02/14/2024)

Production Manager

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

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