

Certificate of Analysis

Nitric Acid, 50% (v/v)

Lot Number: 4404F08

Product Number: 5350

Manufacture Date: APR 11, 2024

Expiration Date: MAR 2026

Name	CAS#	Grade
Nitric Acid	7697-37-2	ACS
Water	7732-18-5	ACS/ASTM/USP/EP

Test	Specification	Result	NIST SRM#
Appearance	Colorless to light yellow liquid	Passed	
Assay (vs. Sodium Hydroxide/Phenolphthalein)	49.7-50.3 % (v/v)	50.0 % (v/v)	84

Specification	Reference
Nitric Acid (1+1)	ASTM (D 2907 A)
Nitric Acid (1+1)	ASTM (D 2972 A)
Nitric Acid (1+1)	ASTM (D 3859 B)
Nitric Acid (1+1)	ASTM (D 2972 B)
Nitric Acid (1+1)	ASTM (D 1091)
Nitric acid, 1 + 1	APHA (3030 F)
Nitric acid, 1 + 1	APHA (3113 B)
Nitric Acid (1+1)	ASTM (D 4453)
Nitric Acid (1+1)	ASTM (D 3559 D)
Nitric Acid (1:1)	EPA (SW-846) (6010B)
Nitric Acid (1+1)	ASTM (D 808)
Nitric Acid (1+1)	EPA (200.7)
Nitric Acid (1:1)	EPA (METALS)
Nitric Acid (1+1)	ASTM (D 4190)
Nitric Acid Solution (1+1)	ASTM (D 3865)
Nitric Acid (1+1)	ASTM (D 5811)
Nitric Acid (1+1)	ASTM (D 4309)
Nitric Acid (1+1)	ASTM (D 1498)
Nitric Acid (1+1)	ASTM (D 3697)

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)
5350-32	1 L safety-coated glass	24 months
5350-5PT	2.5 L safety-coated glass	24 months

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



Paul Brandon (04/11/2024)

Production Manager

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

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