

# Certificate of Analysis

## Buffer Solution, for Water Hardness, ASTM Formulation

Lot Number: 4401F20

Product Number: 1472

Manufacture Date: JAN 05, 2024

Expiration Date: JUL 2024

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Tetraborate Decahydrate	1303-96-4	ACS
Potassium Sodium Tartrate Tetrahydrate	6381-59-5	ACS
Sodium Sulfide Nonahydrate	1313-84-4	ACS
Sodium Hydroxide	1310-73-2	ACS
Magnesium Disodium EDTA	14402-88-1	Reagent

Test	Specification	Result
Appearance	Colorless to light yellow liquid	Passed
Suitability for Use	Magnesium to EDTA ratio 1:1	Passed

Specification	Reference
Buffer Solution	ASTM (D 1126)
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)
1472-32	1 L natural poly	6 months

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

Paul Brandon (01/05/2024)

Production Manager

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

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