

Certificate of Analysis

Potassium Acid Phthalate Standard, 1000 ppm Chemical Oxygen Demand (COD)

Lot Number: 1401L00

Product Number: 5868

Manufacture Date: JAN 30, 2024

Expiration Date: JUL 2025

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is estimated based upon the volumetric method of preparation. It is certified that a COD of 500 mg/L should be obtained on a 25.0 mL aliquot of this standard solution diluted to 50 mL. The manufacturing specification for this product is Chemical Oxygen Demand (COD) = 1.000 ± 0.005 mg per mL at 20°C. This is the equivalent quantity of Oxygen that this standard solution will consume, based on the reduction of a Potassium Dichromate Standard Solution under the specified conditions in the ASTM D 1252-95 test methods.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Acid Phthalate	877-24-7	ACS Acidimetric

Test	Specification	Result
Appearance	Colorless liquid	Passed
Chemical Oxygen Demand (COD)	995-1005 ppm	1000 ppm

Specification	Reference
Potassium Acid Phthalate Solution, Standard (1 mL = 1 mg COD)	ASTM (D 1252 A)
Potassium Acid Phthalate Solution, Standard (1 mL = 1 mg/L)	ASTM (D 1252 B)
Stock Potassium Acid Phthalate	EPA (410.4)

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)
5868-16	500 mL natural poly	18 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)



Heidi J Green (01/30/2024)

Operations Manager

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

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