RICCA CHEMICAL COMPANY®

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Product Specification

Tightrant™ Sulfuric Acid, 0.0400 Normal (N/25), 0.0200 Molar (M/50) Tested in an ISO 17025 Accredited Facility

Lot Number: SAMPLE **Product Number:** 8215

Manufacture Date: N/A
Expiration Date: N/A

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
Sulfuric Acid	7664-93-9	ACS

Test	Specification	Result	
Appearance	Colorless liquid	Colorless liquid	*Not a certified value.
Assay (vs. Tris(hydroxymethyl)aminomethane/Methyl Red) (Method: SQCP007, SQCP033)	0.03998-0.04002 N at 20°C	0.03998-0.04002 N at 20°C	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
	Passed Test		

Specification	Reference
Sulfuric Acid, 0.04 N	APHA (4500-Norg C)
Sulfuric Acid, 0.04 N	APHA (4500-NH3 B)

Conductivity and pH measurements were performed in our Arlington, TX, Pocomoke City, MD, or Batesville, IN laboratory and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. 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)
8215-1	4 L natural poly	36 months
8215-16	500 mL natural poly	36 months
8215-32	1 L natural poly	36 months
8215-5	20 L Cubitainer®	36 months
8215-8	250 mL natural poly	36 months

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

This product was tested in an ISO 17025 Accredited Laboratory

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.