RICCA CHEMICAL COMPANY®

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# Product Specification

## Tightrant™ Sulfuric Acid, 0.0500 Normal (N/20)
## Tested in an ISO 17025 Accredited Facility

**Lot Number:** SAMPLE **Product Number:** 8219

**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) | 0.04995-0.05005 N at 20°C | 0.04995-0.05005 N at 20°C | *Not a certified value. |

| Test | Certified Value | Uncertainty | NIST SRM# |
|---|---|---|---|
| | Passed Test | | |

| Specification | Reference |
|---|---|
| Sulfuric acid, 0.05 N | TAPPI (T 610 sp-97) |

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) |
|---|---|---|
| 8219-1 | 4 L natural poly | 36 months |
| 8219-16 | 500 mL natural poly | 36 months |
| 8219-1CT | 4 L Cubitainer® | 36 months |
| 8219-32 | 1 L natural poly | 36 months |
| 8219-4 | 120 mL natural poly | 36 months |
| 8219-5 | 20 L Cubitainer® | 36 months |

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

## This product was tested in an ISO 17025 Accredited Laboratory

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