

Product Specification

Fluoride Standard, 100 ppm F⁻

Lot Number: SAMPLE

Product Number: 3171

Manufacture Date: N/A

Expiration Date: N/A

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

The concentration is confirmed by Fluoride ISE and is certified traceable to NIST SRM 2203.

| Name | CAS# | Grade |
|-----------------|-----------|-----------------|
| Water | 7732-18-5 | ACS/ASTM/USP/EP |
| Sodium Fluoride | 7681-49-4 | High Purity |

| Test | Specification | Result |
|--------------|------------------|--------|
| Appearance | Colorless liquid | N/A |
| Fluoride (F) | 99.5-100.5 ppm | N/A |

| Specification | Reference |
|---|---------------------|
| Stock Fluoride Solution | APHA (4500-F- C) |
| Stock Fluoride Solution | EPA (340.1) |
| Fluoride Standard Solution (100 mg/L F ⁻) | EPA (SW-846) (9214) |
| Sodium Fluoride, Stock Solution, 1.0 mL = 0.1 mg F | EPA (340.2) |

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) |
|-------------|---------------------|---------------------------------|
| 3171-1 | 4 L natural poly | 12 months |
| 3171-16 | 500 mL natural poly | 12 months |
| 3171-32 | 1 L natural poly | 12 months |
| 3171-4 | 120 mL natural poly | 12 months |
| 3171-5 | 20 L Cubitainer® | 12 months |
| 3171-8 | 250 mL natural poly | 12 months |

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

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

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