

**Product No.: 043804**  
**Cyanide Standard**

**Concentration:**  $1000 \pm 5 \text{ mg/L}$

**Lot No.:** 1524157

**Matrix:** 0.1% NaOH

**Starting Material:** KCN

**Date of Expiration:**

Earlier of 27 May 2026 or 12 Months from Date opened

This solution is intended for use as a calibration standard for cyanide (CN). The certified concentration is based upon gravimetric procedures, ie., weight per volume composition of high purity starting material dissolved in high purity sodium hydroxide (NaOH) and diluted in ASTM Type I water. The uncertainty associated with the certified concentration is approximated by summing the estimated errors due to the purity of the starting material, the gravimetric preparation of the solution, and transpiration of the solution through the container wall.

**NIST Traceability:** All balances and class A volumetrics are calibrated regularly in accordance with NIST recommended procedures. In order to verify the concentration, the final solution was checked by titration against a NIST certified AgNO<sub>3</sub> solution.

**Shelf Life:** Thermo Fisher Scientific guarantees the accuracy of this Specpure® solution until the expiry date shown above. The solution shall be kept tightly capped and must be stored refrigerated between 2°C to 8°C. Exposure to elevated temperatures will severely impact the stability of the reference material. We recommend preparing fresh working solutions daily by diluting with the same matrix and using certified class A volumetrics.

13 November 2024  
**Certification Date**

**Date Opened**