

Product No.: 041756  
Sulfur in Residual Oil Standard

**Concentration:** 30,000 ± 300 µg/g**Element:** Sulfur**Lot No.:** 1558373**Matrix:** Residual Oil**Date of Expiration:**

Earlier of 12 December 2026 or 12 Months from Date opened

This solution is intended for use in the determination of total sulfur in residual oil. The certified concentration is based upon gravimetric procedures, i.e., weight per weight composition of high purity n-dibutyl sulfide in residual oil. The uncertainty associated with the certified concentration is approximated by summing the estimated errors due to the purity of the raw material, the gravimetric preparation of the solution, and transpiration of the solution through the container wall.

**NIST Traceability:** All balances are calibrated regularly in accordance with NIST recommended procedures. The sulfur concentration in both the residual oil and the di-n-butyl sulfide was certified by ASTM Method D2622 using NIST SRM 2717a.

**Shelf Life:** Thermo Fisher Scientific guarantees the accuracy of this Specpure® solution until the expiry date shown above, provided it is kept tightly capped and stored under normal laboratory conditions. We recommend preparing fresh working solutions daily by diluting with the same matrix and using certified class A volumetrics.

19 December 2024  
**Certification Date**

\_\_\_\_\_  
**Date Opened**