

**Certificate of Analysis  
Part No. B2376  
Residual Oil Standard**

Certificate Number 899516  
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**Weight Percent Sulphur = 4.50  
Expanded Uncertainty = 0.19  
(k=2, 95% confidence limit)**

Method used for analysis: ASTM D 4294-16, D 1552-15, ARI-078

NMI Standard(s) used: N.I.S.T 1622d, 1619a

This standard was produced gravimetrically using high purity materials, with balances calibrated and checked by precision NIST traceable weights. The above ASTM test method and NMI references listed were used for testing. The uncertainty value represents the 95% confidence limit (k=2) derived from analysis (n=30), and possible errors in weighing. Normal test procedures should be employed when using this standard. This includes using the reproducibility and repeatability uncertainty for the test method you wish to employ. The material used in production of this standard was identified in accordance with ARI 041. The samples used for round robin testing were selected in accordance with ARI 031. The above values relate only to the material used to produce this standard.

#### Notes

Before use, the contents of the bottle should be mixed through vigorous shaking. Any exposure to air and light should be kept to a minimum. Keep sealed and store upright under normal laboratory conditions. This bottle contains 100ml to be used as per the test method. Unopened and stored properly this product has an indefinite shelf life. Once opened this standard is only valid for two years.

Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Elemental Microanalysis Ltd be liable for incidental or consequential damages.

This is a Certified Reference Material (Working standard), and is traceable to the above-mentioned standards. For good laboratory practice it is recommended that all standards be verified prior to use.

This CRM is valid for two years from the date of opening

Certified May 23, 2016

Elemental Microanalysis Limited