

# *Certificate of Analysis*

## High Sulphur Residual Oil Standard

**Cat. No. B2332 - Certificate Number 862909**

**Weight Percent Sulphur = 9.86  
Standard Deviation = 0.62**

High Purity Materials/Standards used:  
T-Butyl Di-Sulphide

Methods used for Analysis:  
ASTM D 5453-93, ASTM D 2622, ASTM D 4294

This standard was produced gravimetrically using high purity materials, with balances calibrated and checked by precision NIST traceable weights and verified using the above ASTM methods. The precision value represents the 95% confidence limit ( $k=2$ ) derived from analysis and errors from weighing. Normal ASTM procedures should be employed when using this standard. This includes using the reproducibility and repeatability factors for the ASTM method you wish to employ.

### Notes:

Before use, the contents of the bottle should be mixed through vigorous shaking. The contents should not be exposed to air for a lengthy period of time.

This is a Certified Reference Material (CRM), and is traceable to the above-mentioned standard. For good laboratory practice it is recommended that all standards be verified prior to use. 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 CRM is valid for two years from the date of opening

October 14, 2009

Elemental Microanalysis Limited