

Analytical Results

Heat of Combustion (Calorific Value)

J/g (BTU/lb) = 26456 (11374)
Expanded uncertainty = 58 (25)
Method = Bomb Calorimetry
n = 50
k ≈ 2 (95% confidence)

Primary Reference Standard Used:

NIST SRM 39j

Method Employed:

ASTM D240-19 – Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter

**The analytical results above are provided by an accredited reference material manufacturer with a current certification in ISO 17025 and 17034.*

The intended use of this Reference Material (RM) is for the verification and calibration of calorimetric and other appropriate analysis methods for the determination of heat of combustion.

The minimum sample size to perform this intended use is dependent upon the test method and instrumentation used. A 1 g specimen was used for certification of property values.

The Period of Validity for this RM is 10 years after opening, if handling and storage instructions are followed, and should be reviewed 10 years after the date below.

This bottle contains ten 1g tablets to be used per the test method you follow. Keep sealed tightly and store under normal laboratory conditions.

Refer to your test methods and or manufacturer manual for expanded uncertainties, repeatability/reproducibility factors.

For good laboratory practice, we recommend that all reference materials be verified as fit for purpose 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.

Certified on 21st of January 2025

Elemental Microanalysis Ltd