

Reference Material Certificate

ISSUED BY **STANHOPE-SETA Richardson Laboratory**

PRODUCTION DATE **2024-04-23** CERTIFICATE NUMBER **000115**

Certificate Issued By:



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Approved By:
Duncan Black

Signature:




Name of material: FAME (Fatty Acid Methyl Ester) Verification Material 7%

Product code: SETA-0112-0030 Batch number: 2404011001

Description of CRM: FAME in a liquid hydrocarbon mixture

Method of Certification: Produced in general accordance with the principles of ISO 17034 and ISO Guide 35. Components were weighed out using calibrated analytical balances, which have current ISO 17025 calibration certificates. The mass per unit mass concentration was calculated gravimetrically.

Instructions for handling of the CRM: This CRM must be stored in the original tightly closed bottle between 15-25 °C. Pour directly from bottle. Do not return removed aliquots to bottle.

Hazards: See SDS 'FAME (Fatty Acid Methyl Ester) Verification Material SDS'.

Certified Value: FAME Volume fraction (%): **7.00**
Uncertainty (\pm %), k=2 **0.04**

Intended use: Certified reference material to be used in accordance with ASTM D8274 - Determination of Biodiesel (Fatty Acid Methyl Esters) Content in Diesel Fuel Oil by Portable Rapid Mid-Infrared Analyzer

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95 %.

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Commutability:	Value is only commutable to the test methods stated in the intended use section.
Level of homogeneity:	Homogeneity samples are selected by a random sampling procedure. It has been demonstrated that this CRM batch is homogenous from inter-bottle testing. Stability is guaranteed during the whole shelf life provided the solution it kept under conditions presented below.
Expiry date:	2 years from date of production. The certification is nullified if the material is damaged, contaminated, otherwise modified, or used in a manner for which it was not intended.