

Reference Material Certificate

ISSUED BY

STANHOPE-SETA Richardson Laboratory

PRODUCTION DATE

2024-09-27

CERTIFICATE NUMBER 000231

Certificate Issued By:



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Approved By: Duncan Black Signature:

Name of material:

FAME (Fatty Acid Methyl Ester) Verification Material 30 %

Product code:

SETA-0112-0033

Batch number:

2409014001

Description of CRM:

FAME in a liquid hydrocarbon mixture

Method of Certification:

Produced in general accordance with the principles of ISO 17034:2016 and ISO 33405:2024 (previously ISO Guide 35). Components were weighed out using calibrated analytical balances, which have current ISO 17025:2017 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:

Refer to SDS 'FAME (Fatty Acid Methyl Ester) Verification Material SDS'

prior to handling.

Certified Value:

FAME Volume fraction (%):

30.00

Uncertainty (± v/v%) *

0.03

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=2.195, providing a level of confidence of approximately 95 %. The uncertainty evaluation has been carried out in accordance with UKAS requirements.



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Commutability:

Value is only commutable to the test methods stated in the indended 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 interbottle 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.