LGC | DR EHRENSTORFER™

REFERENCE MATERIAL CERTIFICATE ISO 17034

Certified Reference Material

This certificate is designed in accordance with ISO 17034 and ISO Guide 31. This certified reference material (CRM) was designed, produced and verified in accordance with ISO/IEC 17025, ISO 17034 and a registered quality management system ISO 9001.

Product Name
Tricaprin 8000 µg/mL in Pyridine

Product Code
DRE-AY09010004PY

Lot Number
2-H529765PY

CAS No.
621-71-6

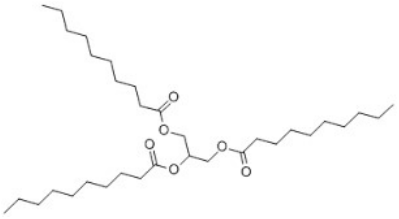
Format
Solution

Mol. Weight
554.853

Expiry
22 Jan 2028

Mol. Formula
C33H62O6

Storage
≤ -10 ºC



CERTIFIED	CERTIFIED
Concentration	Expanded Uncertainty (U)
7959 ug/mL	130 ug/mL

Uncertainty
The certified value(s) and uncertainty(ies) are determined in accordance with ISO 17034 with an 95% confidence level (k=2). Uncertainty is based on the Total Combined Uncertainty, including uncertainties of preparation, purity of neat materials, homogeneity, long-term stability testing, and transportation stability.

The producer certifies that this reference material meets the specification stated in this certificate until the expiry date, provided it is stored unopened at the recommended temperature herein. Product warranties for this reference material are set out in the terms and conditions of purchase.

CERTIFIED BY	CERTIFIED ON		
HuiChen Stavros, Ph.D.	4 Dec 2024		RM Release

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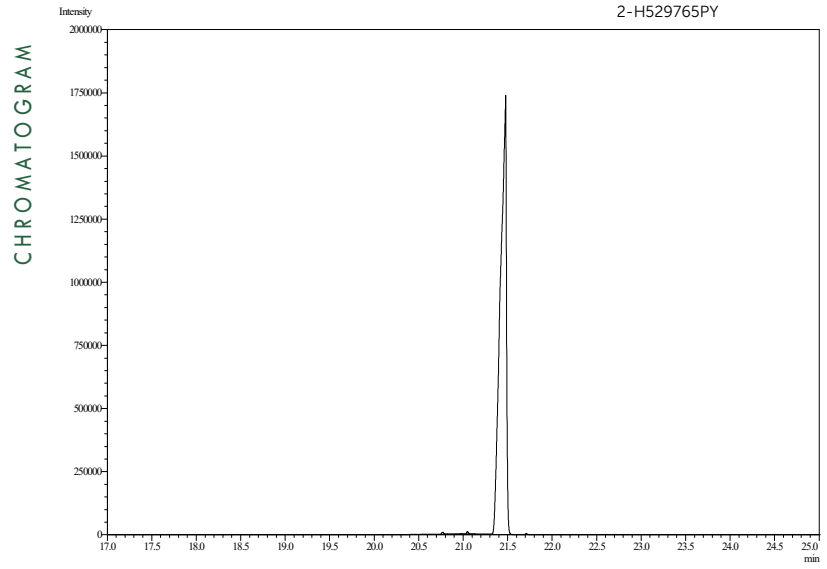

Instrument
GC/FID

Detection
FID

Column
Phenomenex ZB-1HT 30m x 0.25 mm, ID 0.25 um

Method Details
Rate Temp.(C) Hold time (min)
45.0 2.0
10.0 150.0 0.0
25.0 345.0 2.0

Inj.-Vol
1 µl

Flow
1 ml/min

Method of Preparation

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by the appropriate analytical techniques.

Batch Information

Solvent: Pyridine, Lot no. 339667, 20.8 mL

Gravimetric Data

Compound Name	Lot No.	Weight (mg)	Chemical Purity
Tricaprin	1794.7.2.1P	166.55	99.4

Intended Use
This CRM is intended for use in a laboratory as a calibration and quality control standard or in method development for analytical techniques.

Safety
Proper precautions should be observed while handling. See Safety Data Sheet.

Traceability
The balances used for gravimetric measurements are calibrated with weights traceable to the national standards (NIST). The calibration of the balances is verified daily internally and annually by an external accredited calibration service. Chromatographic methods are traceable to the International System of Units (SI).

Homogeneity
Random replicate samples of the final packaged CRM have been analysed to prove homogeneity compliant with ISO 17034.

Storage
The CRM should be stored in the original sealed container at the indicated temperature.

Instructions for use
The CRM should be used shortly after opening to avoid concentration changes due to evaporation. It is recommended to use 1 µL as the minimum sample size. If storage after opening is necessary, it should be transferred to an amber vial with minimum head space and a Teflon-lined silicon septum. If handled as recommended, use period after opening is a maximum of 1389 days for an estimated 5% drift in concentration as a result of analyte and/or solvent transpiration. Visit the support section of our website lgcstandards.com for a series of Dr. Ehrenstorfer Tech Tip videos and frequently asked questions.

LGC Group
7290-B Investment Drive
North Charleston, SC 29418
United States
T | +1 843 763 4884
F | +1 866 509 5146
E | dr.ehrenstorfer@lgcgroup.com

The producer of this reference material is registered to ISO 9001:2015 under 56 100 19560019 by TUV USA and accredited to ISO 17025:2017 and ISO 17034:2016 by A2LA with the accreditation numbers 3031.01 and 3031.02.

A2LA ACCREDITED

ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02