SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

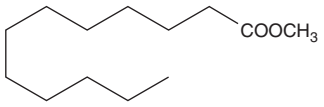
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Lauric Acid methyl ester

Item No. 20608

CAS Registry No.: 111-82-0
Formal Name: dodecanoic acid, methyl ester
Synonyms: Methyl dodecanoate, Methyl laurate, NSC 5027
MF: $C_{13}H_{26}O_2$
FW: 214.3
Purity: ≥98%
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Lauric acid methyl ester is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of lauric acid methyl ester in these solvents is approximately 20 and 30 mg/ml, respectively.

Description

Lauric acid methyl ester is an esterified version of lauric acid (Item No. 10006626), which is a common 12-carbon saturated fatty acid. Lauric acid methyl ester was a major component (35.5%) of biodiesel made from crude fat extracted from black soldier flies, with oleinic acid methyl ester (23.6%) and palmitic acid methyl ester (14.8%; Item No. 10007358) as lesser components.[1] It has also been used in the transesterification of starches and as an internal standard for GC- and LC-MS.[2,3]

References

1. Li, Q., Zheng, L., Cai, H., *et al.* From organic waste to biodiesel: Black soldier fly, *Hermetia illucens*, makes it feasible. *Fuel* **90(4)**, 1545-1548 (2011).
2. Aburto, J., Alric, I., and Borredon, E. Organic solvent-free transesterification of various starches with lauric acid methyl ester and triacyl glycerides. *Starch* **57**, 145-152 (2005).
3. Wang, Y., Ou, S., Liu, P., *et al.* Comparison of two different processes to synthesize biodiesel by waste cooking oil. *J. Mol. Catal. A Chem.* **252(1-2)**, 107-112 (2006).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM