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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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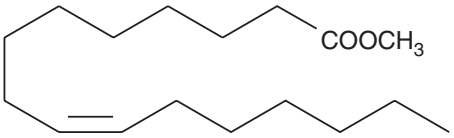
PRODUCT INFORMATION

Palmitoleic Acid methyl ester

Item No. 20605

CAS Registry No.: 1120-25-8
Formal Name: (9Z)-hexadecenoic acid, methyl ester
Synonyms: Methyl *cis*-9-Hexadecenoate, Methyl Palmitoleate
MF: $C_{17}H_{32}O_2$
FW: 268.4
Purity: ≥98%
Supplied as: A solution in ethanol
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Palmitoleic 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 ethanol, DMSO, and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of palmitoleic acid methyl ester in ethanol is approximately 50 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Description

Palmitoleic acid methyl ester is an ester version of palmitoleic acid (Item No. 10009871), an ω-7 monounsaturated fatty acid that is a common constituent of the triglycerides of human adipose tissue. Palmitoleic acid-based diets raise low-density lipoprotein (LDL) cholesterol and lower high-density lipoprotein (HDL) cholesterol, even when dietary intake of cholesterol is maintained at a low level.[1] Methyl esters of fatty acids are commonly used for the formulation of fatty acid-containing diets and dietary supplements.

Reference

1. Nestel, P., Clifton, P., and Noakes, M. Effects of increasing dietary palmitoleic acid compared with palmitic and oleic acids on plasma lipids of hypercholesterolemic men. *J. Lipid Res.* **35**, 656-662 (1994).

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