

PRODUCT DATA SHEET

Methyl docosapentaenoate (all *cis*-7,10,13,16,19)

Catalog No: 1244

Common Name: C22:5 (all *cis*-7,10,13,16,19)
Methyl ester

Source: semisynthetic, fish oil

Solubility: hexane, ethyl ether, ethanol

CAS No: 108698-02-8

Molecular Formula: C₂₃H₃₆O₂

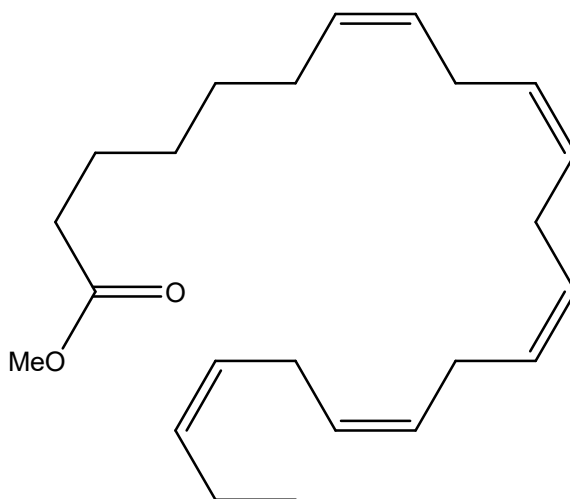
Molecular Weight: 345

Storage: -20°C

Purity: TLC 99%, GC 99%

TLC System: hexane/ethyl ether
(85:15 by vol.)

Appearance: liquid



Application Notes:

This high purity methyl ester of docosapentaenoic acid (DPAn-3) is ideal as a gas chromatography standard. This very long-chain polyunsaturated *omega*-3 fatty acid (along with other *omega*-3 fatty acids) is thought to influence memory and cognition, protect neurons, and reduce inflammation. DPAn-3 is an intermediate in the *in-vivo* synthesis of DHA, a polyunsaturated fatty acid that has been demonstrated as critical for many biological functions. In animals it is usually found acylated to phospholipids. *Omega*-3 fatty acids such as DPAn-3 and DHA have been shown to reduce the risk of acute coronary events in humans.¹ Seal oil has been suggested as more efficient than fish oil at promoting healthy plasma lipid profiles and lowering thrombotic risk, possibly due to its high DPAn-3 and EPA content.²

Selected References:

1. T. Rissanen, MSc, RD et al. "Fish Oil-Derived Fatty Acids, Docosahexaenoic Acid and Docosapentaenoic Acid, and the Risk of Acute Coronary Events" *Journal of the American Heart Association*, pp. 2677-2679, November 2000
2. N. Mann et al. "Effects of Seal Oil and Tuna-Fish Oil on Platelet Parameters and Plasma Lipid Levels in Healthy Subjects" *Lipids*, Vol. 45(8) pp. 669-681, 2010

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