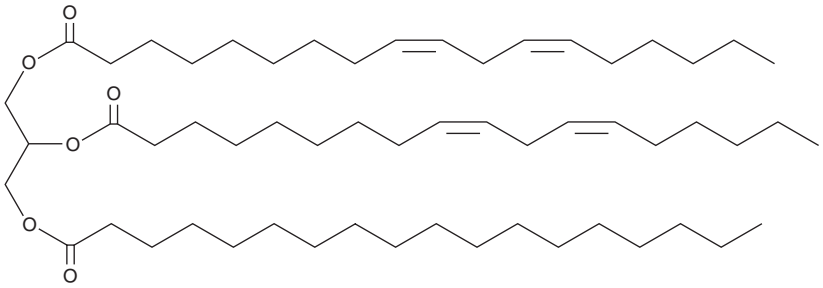
PRODUCT INFORMATION

1,2-Dilinoleoyl-3-Stearoyl-*rac*-glycerol

Item No. 27063

CAS Registry No.: 2190-17-2
Formal Name: 9Z,12Z-octadecadienoic acid, 1,1'-[1-[[(1-oxooctadecyl)oxy] methyl]-1,2-ethanediyl] ester
Synonyms: 1,2-Linolein-3-Stearin, TG(18:2/18:2/18:0)
MF: $C_{57}H_{102}O_6$
FW: 883.4
Purity: ≥98%
Supplied as: A liquid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

1,2-Dilinoleoyl-3-stearoyl-*rac*-glycerol is supplied as a liquid. A stock solution may be made by dissolving the 1,2-dilinoleoyl-3-stearoyl-*rac*-glycerol in the solvent of choice. 1,2-Dilinoleoyl-3-stearoyl-*rac*-glycerol is soluble in organic solvents such as ethanol and dimethyl formamide, which should be purged with an inert gas. The solubility of 1,2-dilinoleoyl-3-stearoyl-*rac*-glycerol in these solvents is approximately 10 mg/ml. 1,2-Dilinoleoyl-3-stearoyl-*rac*-glycerol is also slightly soluble in chloroform.

1,2-Dilinoleoyl-3-stearoyl-*rac*-glycerol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 1,2-dilinoleoyl-3-stearoyl-*rac*-glycerol should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 1,2-Dilinoleoyl-3-stearoyl-*rac*-glycerol has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

1,2-Dilinoleoyl-3-stearoyl-*rac*-glycerol is a triacylglycerol that contains linoleic acid (Item Nos. 90150 | 90150.1 | 21909) at the *sn*-1 and *sn*-2 positions and stearic acid (Item No. 10011298) at the *sn*-3 position. It has been found in various plant oils, including soybean, poppy seed, maize, evening primrose, and blackcurrant oils.[1]

Reference

1. Mottram, H.R., Woodbury, S.E., and Evershed, R.P. Identification of triacylglycerol positional isomers present in vegetable oils by high performance liquid chromatography/atmospheric pressure chemical ionization mass spectrometry. *Rapid Commun. Mass Spectrom.* **11(12)**, 1240-1252 (1997).

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