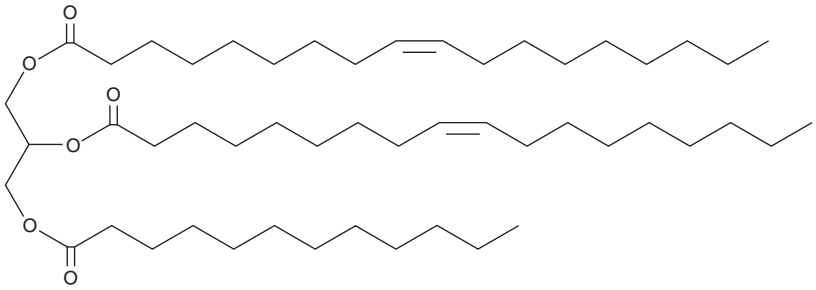
PRODUCT INFORMATION

1,2-Dioleoyl-3-Lauroyl-*rac*-glycerol

Item No. 28548

CAS Registry No.:	4016-52-8
Formal Name:	9Z-octadecenoic acid 1,1′-[1-[[(1-oxododecyl)oxy] methyl]-1,2-ethanediyl] ester
Synonyms:	1,2-Olein-3-Laurin, TG(18:1/18:1/12:0)
MF:	$C_{51}H_{94}O_6$
FW:	803.3
Purity:	≥98%
Supplied as:	An oil
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

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

1,2-Dioleoyl-3-lauroyl-*rac*-glycerol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 1,2-dioleoyl-3-lauroyl-*rac*-glycerol should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 1,2-Dioleoyl-3-lauroyl-*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-Dioleoyl-3-lauroyl-*rac*-glycerol is a triacylglycerol that contains oleic acid (Item Nos. 90260 | 24659) at the *sn*-1 and *sn*-2 positions and lauric acid (Item No. 10006626) at the *sn*-3 position. It has been found in date seed oil and the fat body of male *B. lapidarius* bumblebees.[1,2]

References

1. Holcapek, M., Lísa, M., Jandera, P., *et al.* Quantitation of triacylglycerols in plant oils using HPLC with APCI-MS, evaporative light-scattering, and UV detection. *J. Sep. Sci.* **28(12)**, 1315-1333 (2005).
2. Cvačka, J., Hovorka, O., Jiroš, P., *et al.* Analysis of triacylglycerols in fat body of bumblebees by chromatographic methods. *J. Chromatogr. A.* **1101(1-2)**, 226-237 (2006).

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