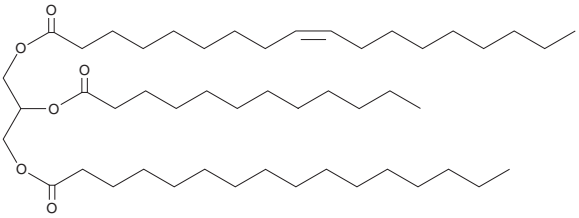
# PRODUCT INFORMATION

## 1-Oleoyl-2-Lauroyl-3-Palmitoyl-*rac*-glycerol

*Item No. 36859*

**CAS Registry No.:** 1183882-29-2
**Formal Name:** (9Z)-octadecenoic acid, 2-[(1-oxododecyl)oxy]-3-[(1-oxohexadecyl)oxy]propyl ester
**Synonyms:** 1-Olein-2-Laurin-3-Palmitin, TG(18:1/12:0/16:0)
**MF:** $C_{49}H_{92}O_6$
**FW:** 777.3
**Purity:** ≥98%
**Supplied as:** A solid
**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-Oleoyl-2-lauroyl-3-palmitoyl-*rac*-glycerol is supplied as a solid. A stock solution may be made by dissolving the 1-oleoyl-2-lauroyl-3-palmitoyl-*rac*-glycerol in the solvent of choice, which should be purged with an inert gas. 1-Oleoyl-2-lauroyl-3-palmitoyl-*rac*-glycerol is soluble in the organic solvent chloroform at a concentration of approximately 10 mg/ml.

1-Oleoyl-2-lauroyl-3-palmitoyl-*rac*-glycerol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 1-oleoyl-2-lauroyl-3-palmitoyl-*rac*-glycerol should first be dissolved in chloroform and then diluted with the aqueous buffer of choice. 1-Oleoyl-2-lauroyl-3-palmitoyl-*rac*-glycerol has a solubility of approximately 0.25 mg/ml in a 1:1 solution of chloroform:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

1-Oleoyl-2-lauroyl-3-palmitoyl-*rac*-glycerol is a triacylglycerol that contains oleic acid (Item Nos. 90260 | 24659), lauric acid (Item No. 10006626), and palmitic acid (Item No. 10006627) at the *sn*-1, *sn*-2, and *sn*-3 positions, respectively. It has been found in a variety of plant oils, including walnut, almond, poppy seed, and fig seed oils.[1]

### Reference


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).



**WARNING**
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

**SAFETY DATA**
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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