



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION

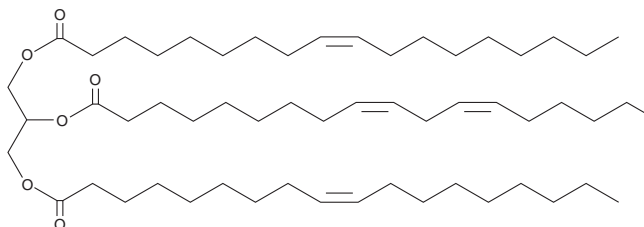


## 1,3-Dioleoyl-2-Linoleoyl Glycerol

Item No. 26972

**CAS Registry No.:** 2190-19-4  
**Formal Name:** 9Z,12Z-octadecadienoic acid, 2-[[[(9Z)-1-oxo-9-octadecen-1-yl]oxy]-1-[[[(9Z)-1-oxo-9-octadecen-1-yl]oxy]methyl]ethyl ester  
**Synonyms:** 1,3-Olein-2-Linolein, OLO, TG(18:1/18:2/18:1), 18:1/18:2/18:1-TG

**MF:** C<sub>57</sub>H<sub>102</sub>O<sub>6</sub>  
**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

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

1,3-Dioleoyl-2-linoleoyl glycerol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 1,3-dioleoyl-2-linoleoyl glycerol should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 1,3-Dioleoyl-2-linoleoyl 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

1,3-Dioleoyl-2-linoleoyl glycerol is a triacylglycerol that contains oleic acid (Item Nos. 90260 | 24659) at the *sn*-1 and *sn*-3 positions and linoleic acid (Item Nos. 90150 | 90150.1 | 21909) at the *sn*-2 position. It has been found as a major molecular species in butterfat.<sup>1</sup> It has also been found in *A. trifoliata* seed oil (ASO), as well as, to a lesser extent, in physical blends and interesterified products of ASO.<sup>2</sup>

### References

1. Kalo, P., Kemppinen, A., and Ollilainen, V. Determination of triacylglycerols in butterfat by normal-phase HPLC and electrospray-tandem mass spectrometry. *Lipids* **44**(2), 169-195 (2009).
2. Zhao, S.-Q., Hu, J.-N., Zhu, X.-M., et al. Characteristics and feasibility of trans-free plastic fats through lipozyme TL IM-catalyzed interesterification of palm stearin and *Akebia trifoliata* variety australis seed oil. *J. Agric. Food Chem.* **62**(14), 3293-3300 (2014).

#### 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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