



# 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

### SZABO-SCANDIC HandelsgmbH

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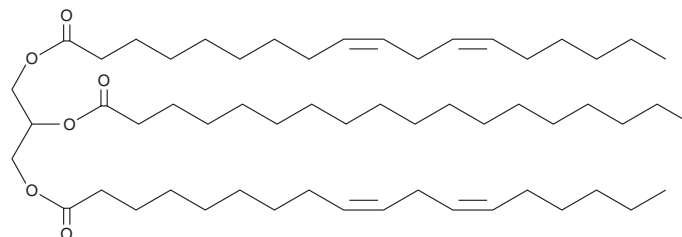
# PRODUCT INFORMATION



## 1,3-Dilinoleoyl-2-Stearoyl Glycerol

Item No. 26971

**CAS Registry No.:** 2190-18-3  
**Formal Name:** 9,12-octadecadienoic acid, 1,1'-[2-[(1-oxooctadecyl)oxy]-1,3-propanediyl] ester  
**Synonyms:** 1,3-Linolein-2-Stearin, 18:2/18:0/18:2-TG, TG(18:2/18:0/18:2)  
**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-Dilinoleoyl-2-stearoyl glycerol is supplied as a liquid. A stock solution may be made by dissolving the 1,3-dilinoleoyl-2-stearoyl glycerol in the solvent of choice. 1,3-Dilinoleoyl-2-stearoyl glycerol is soluble in organic solvents such as ethanol and dimethyl formamide, which should be purged with an inert gas. The solubility of 1,3-dilinoleoyl-2-stearoyl glycerol in these solvents is approximately 10 mg/ml. 1,3-Dilinoleoyl-2-stearoyl glycerol is also slightly soluble in chloroform.

1,3-Dilinoleoyl-2-stearoyl glycerol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 1,3-dilinoleoyl-2-stearoyl glycerol should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 1,3-Dilinoleoyl-2-stearoyl 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-Dilinoleoyl-2-stearoyl glycerol is a triacylglycerol that contains linoleic acid (Item Nos. 90150 | 90150.1 | 21909) at the *sn*-1 and *sn*-3 positions and stearic acid (Item No. 10011298) at the *sn*-2 position. It has been found in soybean oil as well as transitional and mature human milk.<sup>1,2</sup>

### References

1. Gao, B., Luo, Y., Lu, W., *et al.* Triacylglycerol compositions of sunflower, corn and soybean oils examined with supercritical CO<sub>2</sub> ultra-performance convergence chromatography combined with quadrupole time-of-flight mass spectrometry. *Food Chem.* **218**, 569-574 (2017).
2. Tu, A., Ma, Q., Bai, H., *et al.* A comparative study of triacylglycerol composition in Chinese human milk within different lactation stages and imported infant formula by SFC coupled with Q-TOF-MS. *Food Chem.* **221**, 555-567 (2017).

#### 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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