



# SZABO SCANDIC

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## Produktinformation



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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## 13(Z)-Docosenoic Acid methyl ester

Item No. 20568

**CAS Registry No.:** 1120-34-9  
**Formal Name:** 13Z-docosenoic acid, methyl ester  
**Synonyms:** (Z)-Erucic Acid methyl ester,  
Methyl cis-13-Docosenoate,  
Methyl Erucate

**MF:** C<sub>23</sub>H<sub>44</sub>O<sub>2</sub>

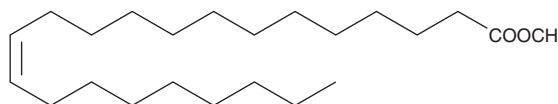
**FW:** 352.6

**Purity:** ≥95%

**Supplied as:** A solution in ethanol

**Storage:** -20°C

**Stability:** ≥1 year



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

### Laboratory Procedures

13(Z)-Docosenoic acid methyl ester is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of 13(Z)-docosenoic acid methyl ester in these solvents is approximately 100 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of 13(Z)-docosenoic acid methyl ester is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 13(Z)-docosenoic acid methyl ester in PBS, pH 7.2, is approximately 0.15 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

13(Z)-Docosenoic acid methyl ester is a fatty acid methyl ester that is a flavor-active, volatile, and aromatic compound found in cooked commercial shrimp waste.<sup>1</sup> It is a component of biodiesel formed from *C. megalocarpus* and *C. pentandra* oils that contain trierucin.<sup>2</sup> 13(Z)-Docosenoic acid methyl ester has also been used as a standard for the quantification of 13(Z)-docosenoic acid (Item No. 90175) by GC-MS.<sup>3</sup>

### References

1. Mandevill, S., Yaylayan, V., and Simpson, B. GC/MS analysis of flavor-active compounds in cooked commercial shrimp waste. *J. Agric. Food Chem.* **40(7)**, 1275-1279 (1992).
2. Ruhul, A.M., Kalam, M.A., Masjuki, H.H., et al. Production, characterization, engine performance and emission characteristics of *Croton megalocarpus* and *Ceiba pentandra* complementary blends in a single-cylinder diesel engine. *RSC Adv.* **6(29)**, 24584-24595 (2016).
3. Jung, J.-M., Kim, K.-H., Kwon, E.E., et al. Analysis of the lipid profiles in a section of bovine brain via non-catalytic rapid methylation. *Analyst* **140(18)**, 6210-6216 (2015).

#### 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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