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Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic)

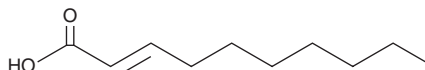
Product Information



trans-2-Decenoic Acid

Item No. 17888

CAS Registry No.: 334-49-6
Formal Name: 2E-decenoic acid
Synonym: *trans*-2-Decylenic Acid
MF: C₁₀H₁₈O₂
FW: 170.3
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A neat oil
UV/Vis.: λ_{max}: 209 nm



Laboratory Procedures

For long term storage, we suggest that *trans*-2-decenoic acid be stored as supplied at -20°C. It should be stable for at least one year.

trans-2-Decenoic acid is supplied as a neat oil. To change the solvent, simply evaporate the *trans*-2-decenoic acid under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of *trans*-2-decenoic acid in ethanol is approximately 20 mg/ml and approximately 30 mg/ml in DMSO and DMF.

trans-2-Decenoic acid is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

trans-2-Decenoic acid is an unsaturated fatty acid found in royal jelly produced from the hypopharyngeal and mandibular gland secretions of honeybees. It is isolated in conjunction with 10-HDA (Item No. 10976) and both demonstrate weak estrogenic activity, inhibiting binding of 17β-estradiol (Item No. ISO60155) to estrogen receptor β.¹

Reference

1. Suzuki, K.-M., Isohama, Y., Maruyama, H., *et al.* Estrogenic activities of fatty acids and sterol isolated from royal jelly. *Evid. Based Complement. Alternat. Med.* **5**(3), 295-302 (2008).

Cayman Chemical

Mailing address
1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone
(800) 364-9897
(734) 971-3335

Fax
(734) 971-3640

E-Mail
custserv@caymanchem.com

Web
www.caymanchem.com

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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