PRODUCT INFORMATION



1-Undecanoyl-rac-glycerol

Item No. 28763

CAS Registry No.: 64633-19-8 Formal Name: undecanoic acid,

2,3-dihydroxypropyl ester

Synonyms: MG(11:0/0:0/0:0), 1-Undecanoin

MF: $C_{14}H_{28}O_4$ FW: 260.4 ≥95% **Purity:** UV/Vis.: λ_{max} : 217 nm

Supplied as: A crystalline solid Storage: -20°C

Stability: ≥4 years

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

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Laboratory Procedures

1-Undecanoyl-rac-glycerol is supplied as a crystalline solid. A stock solution may be made by dissolving the 1-undecanoyl-rac-glycerol in the solvent of choice, which should be purged with an inert gas. 1-Undecanoyl-rac-glycerol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 1-undecanoyl-rac-glycerol in these solvents is approximately 30 mg/ml.

Description

1-Undecanoyl-rac-glycerol is a monoacylglycerol that contains undecanoic acid (Item No. 19721) at the sn-1 position. It completely inhibits the growth of the bacteria B. cereus, B. subtilis, M. luteus, E. faecalis, and S. aureus when used at concentrations ranging from 250 to 1,500 mg/L. 1-Undecanoyl-rac-glycerol (0.1 and 0.3 mg/ml) also has antifungal activity against K. marxianus, S. cerevisiae, and C. maltosa.²

References

- 1. Buňková, L., Buňka, F., Janiš, R., et al. Comparison of antibacterial effect of seven 1-monoglycerides on food-borne pathogens or spoilage bacteria. Acta Vet. Brno. 80(1), 29-39 (2011).
- 2. Bartošová, E., Špic ková, Z., Pospíšilová, O., et al. The influence of fatty acids and their derivatives on the growth of Kluyveromyces, Saccharomyces, and Candida species. CHIMIA 59(10), 732-734 (2005).

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

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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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM