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Produktinformation



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Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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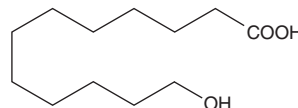
PRODUCT INFORMATION



12-hydroxy Lauric Acid

Item No. 28494

CAS Registry No.: 505-95-3
Formal Name: 12-hydroxy-dodecanoic acid
Synonyms: ω -hydroxy Lauric Acid, NSC 159293, NSC 664211
MF: $C_{12}H_{24}O_3$
FW: 216.3
Purity: $\geq 95\%$ (NMR)
Supplied as: A solid
Storage: -20°C
Stability: ≥ 2 years



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

Laboratory Procedures

12-hydroxy Lauric acid is supplied as a solid. A stock solution may be made by dissolving the 12-hydroxy Lauric acid in the solvent of choice, which should be purged with an inert gas. 12-hydroxy Lauric acid is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 12-hydroxy Lauric acid in these solvents is approximately 15, 10, and 3 mg/ml, respectively.

12-hydroxy Lauric acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 12-hydroxy Lauric acid should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 12-hydroxy Lauric acid has a solubility of approximately 0.16 mg/ml in a 1:5 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

12-hydroxy Lauric acid is a hydroxylated fatty acid that has been found in honey bee royal jelly.¹ It is active against *S. aureus*, *B. subtilis*, *B. cereus*, *E. coli*, and *P. aeruginosa* bacteria (MICs = 6.25-125 $\mu\text{g/ml}$) and the fungus *C. albicans* (MIC = 15.63 $\mu\text{g/ml}$).

Reference

1. Isidorov, W., Witkowski, S., Zambrzycka, M., *et al.* Royal jelly aliphatic acids contribute to antimicrobial activity of honey. *J. Apic. Sci.* **62(1)**, 111-123 (2018).

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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