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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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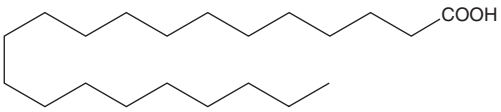
PRODUCT INFORMATION

Heneicosanoic Acid

Item No. 22593

CAS Registry No.: 2363-71-5
Synonyms: C21:0, FA 21:0, Heneicosylic Acid
MF: $C_{21}H_{42}O_2$
FW: 326.6
Purity: ≥98%
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.

Laboratory Procedures

Heneicosanoic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the heneicosanoic acid in the solvent of choice. Heneicosanoic acid is soluble in the organic solvent ethanol, which should be purged with an inert gas, at a concentration of approximately 20 mg/ml.

Heneicosanoic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, heneicosanoic acid should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Heneicosanoic acid 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

Heneicosanoic acid is a very long-chain saturated fatty acid found in plants and animals, including human milk fat.[1-3] It is also found in *R. typhi* and *R. prowazaekii* lipopolysaccharides.[4]

References

1. Kumari, R., Mallavarapu, G.R., Jain, V.K., *et al.* Chemical composition of the fatty oils of the seeds of *Cleome viscosa* accessions. *Nat. Prod. Commun.* **7(10)**, 1363-1364 (2012).
2. Horvat, R.J. Identification of some new minor acids from chicken skin lipids. *Poult. Sci.* **57(3)**, 827-828 (1978).
3. Torres, A.G., Ney, J.G., Meneses, F., *et al.* Polyunsaturated fatty acids and conjugated linoleic acid isomers in breast milk are associated with plasma non-esterified and erythrocyte membrane fatty acid composition in lactating women. *Br. J. Nutr.* **95(3)**, 517-524 (2006).
4. Amano, K.I., Williams, J.C., and Dasch, G.A. Structural properties of lipopolysaccharides from *Rickettsia typhi* and *Rickettsia prowazekii* and their chemical similarity to the lipopolysaccharide from *Proteus vulgaris* OX19 used in the Weil-Felix test. *Infect. Immun.* **66(3)**, 923-926 (1998).

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