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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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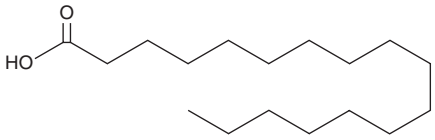
PRODUCT INFORMATION

Heptadecanoic Acid

Item No. 19722

CAS Registry No.: 506-12-7
Synonyms: C17:0, n-Heptadecoic Acid, Heptadecylic Acid, Margaric Acid, NSC 3743
MF: $C_{17}H_{34}O_2$
FW: 270.5
Purity: ≥95%
Supplied as: A crystalline 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

Heptadecanoic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the heptadecanoic acid in the solvent of choice. Heptadecanoic acid is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of heptadecanoic acid in ethanol and DMF is approximately 25 mg/ml and approximately 10 mg/ml in DMSO.

Heptadecanoic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, heptadecanoic acid should first be dissolved in DMF and then diluted with the aqueous buffer of choice. heptadecanoic acid has a solubility of approximately 0.25 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Heptadecanoic acid is an odd-chain saturated fatty acid that contains seventeen carbons and has been found in milk fat.[1] Heptadecanoic acid has been used as an internal standard for the quantification of fatty acids in human plasma by LC- and GC-MS and as a biomarker for dairy fat intake.[1,2]

References

1. Jenkins, B., West, J.A., and Koulman, A. A review of odd-chain fatty acid metabolism and the role of pentadecanoic acid (c15:0) and heptadecanoic acid (c17:0) in health and disease. *Molecules* **20(2)**, 2425-2444 (2015).
2. Yakoob, M.Y., Shi, P., Hu, F.B., *et al.* Circulating biomarkers of dairy fat and risk of incident stroke in U.S. men and women in 2 large prospective cohorts. *Am. J. Clin. Nutr.* **100(6)**, 1437-1447 (2014).

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