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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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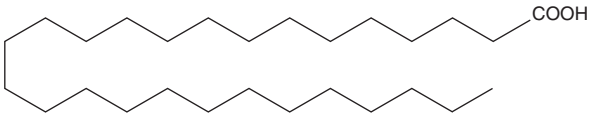
PRODUCT INFORMATION

Heptacosanoic Acid

Item No. 36163

CAS Registry No.: 7138-40-1
Synonyms: C27:0, Carboceric Acid
MF: $C_{27}H_{54}O_2$
FW: 410.7
Purity: ≥95%
Supplied as: A 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

Heptacosanoic acid is supplied as a solid. A stock solution may be made by dissolving the heptacosanoic acid in the solvent of choice, which should be purged with an inert gas. Heptacosanoic acid is slightly soluble in chloroform, DMSO, hexane, and dimethyl formamide.

Aqueous solutions of heptacosanoic acid can be prepared by directly dissolving the solid in aqueous buffers. Heptacosanoic acid is slightly soluble in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day. It is also slightly soluble in water.

Description

Heptacosanoic acid is an odd-chain saturated fatty acid. It has been used as an internal standard for the quantification of very long-chain fatty acids (VLCFAs) in human serum.[1] Heptacosanoic acid has been found in wood smoke, as well as in urban and rural emissions of fine particulate matter less than 2.5 µm in aerodynamic diameter (PM2.5).[2,3]

References

1. Paik, M.J., Lee, K.O., and Shin, H.S. Determination of very-long-chain fatty acids in serum by gas chromatography-nitrogen-phosphorus detection following cyanomethylation. *J. Chromatogr. B Biomed. Sci. Appl.* **721(1)**, 3-11 (1999).
2. Rogge, W.F., Hildemann, L.M., Mazurek, M.A., *et al.* Sources of fine organic aerosol. 9. Pine, oak, and synthetic log combustion in residential fireplaces. *Environ. Sci. Technol.* **32(1)**, 13-22 (1998).
3. Zheng, M., Cass, G.R., Schauer, J.J., *et al.* Source apportionment of PM2.5 in the southeastern United States using solvent-extractable organic compounds as tracers. *Environ. Sci. Technol.* **36(11)**, 2361-2371 (2002).

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