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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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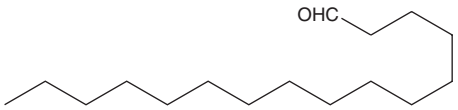
PRODUCT INFORMATION

Hexadecanal

Item No. 9001996

CAS Registry No.:	629-80-1
Formal Name:	hexadecanal
Synonyms:	1-Hexadecanal, Palmitaldehyde
MF:	$C_{16}H_{32}O$
FW:	240.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 207, 293 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.

Laboratory Procedures

Hexadecanal is supplied as a crystalline solid. A stock solution may be made by dissolving the hexadecanal in the solvent of choice, which should be purged with an inert gas. Hexadecanal is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of hexadecanal in ethanol and DMF is approximately 30 mg/ml and approximately 10 mg/ml in DMSO.

Hexadecanal is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, hexadecanal should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Hexadecanal has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Hexadecanal is the 16-carbon free fatty aldehyde analog of palmitic acid that, in conjunction with NAD^+, acts as a substrate for hexadecanal:NAD^+ oxidoreductase (fatty aldehyde dehydrogenase).[1]

Reference

1. Rizzo, W.B. and Craft, D.A. Sjögren-Larsson syndrome. Deficient activity of the fatty aldehyde dehydrogenase component of fatty alcohol:NAD^+ oxidoreductase in cultured fibroblasts. *J. Clin. Invest.* **88(5)**, 1643-1648 (1991).

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