

PRODUCT DATA SHEET

Methyl heneicosanoate

Catalog number: 1242

Common names: C21:0 Methyl ester;

Heneicosylate

Source: synthetic

Solubility: chloroform, ethyl ether

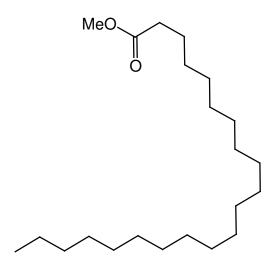
CAS number: 6064-90-0

Molecular Formula: C₂₂H₄₄O₂

Molecular Weight: 341 Storage: room temperature Purity: TLC: 99%, GC: 99%

TLC System: hexane/ethyl ether (85:15)

Appearance: solid



Application Notes:

This odd numbered long-chain fatty acid methyl ester is unusual in many biological systems and is therefore often useful as an internal standard or biomarker. Heneicosanoic acid is found in small amounts in mammalian milk and is present in the articular cartilage boundary lubricant¹ and red blood cell fatty acids². It is also present in small amounts in various microorganisms³ and can aid in their identification by the comparison of their lipid profiles. Heneicosanoic acid, along with other long chain fatty acids, shows significant inhibitory effects towards human p53 DNA binding domain.⁴

Selected References:

- 1. A. Sarma et al. "Phospholipid composition of articular cartilage boundary lubricant" J Orthop Res., vol. 19 pp. 671-676, 2001
- 2. A. Moser et al. "Plasma and red blood cell fatty acids in peroxisomal disorders" Neurochem Res., vol. 24 pp. 187-197, 1999
- 3. N. Carballeira et al. "Unusual Lipid Composition of a Bacillus sp. Isolated from Lake Pomorie in Bulgaria" Lipids, vol. 35 pp. 1371-1376, 2000
- 4. H. Iijima et al. "The Inhibitory Action of Long-Chain Fatty Acids on the DNA Binding Activity of p53" Lipids, vol. 41 pp. 521-527, 2006

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