

PRODUCT DATA SHEET

Heptadecanoic acid

Catalog number: 1018

Common names: Margaric acid; C17:0 Fatty acid

Source: synthetic

Solubility: chloroform, ethanol, ethyl ether

CAS number: 506-12-7

Molecular Formula: C₁₇H₃₄O₂

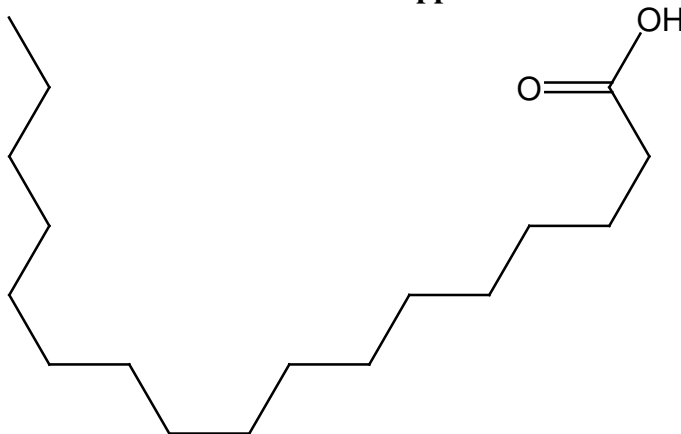
Molecular Weight: 270

Storage: room temperature

Purity: TLC: 99%, GC: 99%

TLC System: hexane/ethyl ether/acetic acid
(85:15:1)

Appearance: solid



Application Notes:

This odd numbered long-chain fatty acid is unusual in most biological systems and is therefore often useful as an internal standard.¹ Heptadecanoic acid is found in trace amounts in the milk of ruminants as it is produced by bacterial flora in the rumen of ruminants.² It can therefore be used as a biomarker of dairy fat intake. Heptadecanoic acid has been used as a comparison to palmitic acid in the study of pheromones because it cannot be converted to the pheromone.³

Selected References:

1. X. Persson et al. "Rapid measurement of plasma free fatty acid concentration and isotopic enrichment using LC/MS" *Journal of Lipid Research*, Vol. 51(9) pp. 2761-2765, 2010
2. B. Vlaeminck et al. "Rumen odd and branched chain fatty acids in relation to *in vitro* rumen volatile fatty acid productions and dietary characteristics of incubated substrates" *Journal of Animal Physiology and Animal Nutrition*, Vol. 88 pp. 401-411, 2004
3. H. Eltahlawy, J. Buckner, S. Foster "Evidence for two-step regulation of pheromone biosynthesis by the pheromone biosynthesis-activating neuropeptide in the moth *Heliothis virescens*" *Arch Insect Biochem Physiol*, Vol. 64(3) pp. 120-130, 2007

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