

PRODUCT DATA SHEET

Methyl 14-methylhexadecanoate

Catalog number: 1614

Synonyms: anteiso-Heptadecanoic methyl ester; anteiso C17:0 methyl ester

Source: synthetic

Solubility: chloroform, ethyl ether, ethanol

CAS number: 2490-49-5

Molecular Formula: C₁₈H₃₆O₂

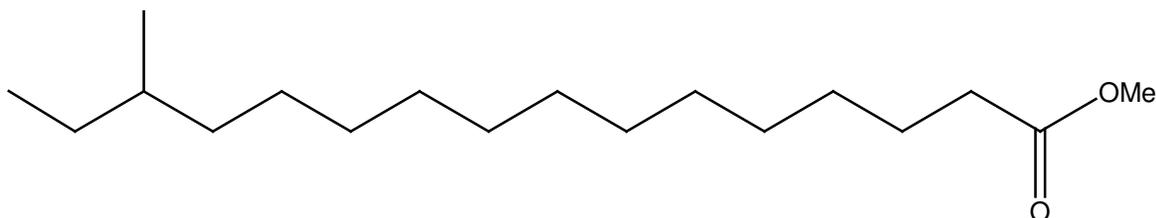
Molecular Weight: 284

Storage: -20°C

Purity: TLC > 98%, GC > 98%

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

Appearance: liquid



Application Notes:

This anteiso-heptadecanoic methyl ester is ideal for use as a standard in the verification of samples.¹ Many types of bacteria and marine organisms produce anteiso fatty acids which can be used to characterize the various organisms.² anteiso-Fatty acids, especially anteiso-heptadecanoic acid, are also found in ruminant animals (from the rumen microorganisms) and in ruminant milk. Branched chain fatty acids have been found in the gut of newborn animals where they have a role in the microorganism gut colonization.³ anteiso-Heptadecanoic acid is found in a very few plant species such as in the pine seed oil of *Pinaceae*.

Selected References:

1. N. Jensen and M. Gross "Fast Atom Bombardment and Tandem Mass Spectrometry for Determining Iso- and Anteiso- Fatty Acids" *Lipids*, Vol. 21(5) pp. 362-365, 1986
3. E. Kim et al. "Fatty Acid Profiles Associated with Microbial Colonization of Freshly Ingested Grass and Rumen Biohydrogenation" *Journal of Dairy Science*, Vol. 88 pp. 3220-3230, 2005
2. R. Ran-Ressler et al. "Branched Chain Fatty Acids Are Constituents of the Normal Healthy Newborn Gastrointestinal Tract" *Pediatric Research*, Vol. 64(6) pp. 605-609, 2008

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