

## PRODUCT DATA SHEET

### Methyl pentadecanoate

**Catalog number:** 1013

**Common Name:** C15:0 Methyl ester

**Source:** synthetic

**Solubility:** chloroform, ethanol, ethyl ether

**CAS number:** 7132-64-1

**Molecular Formula:** C<sub>16</sub>H<sub>32</sub>O<sub>2</sub>

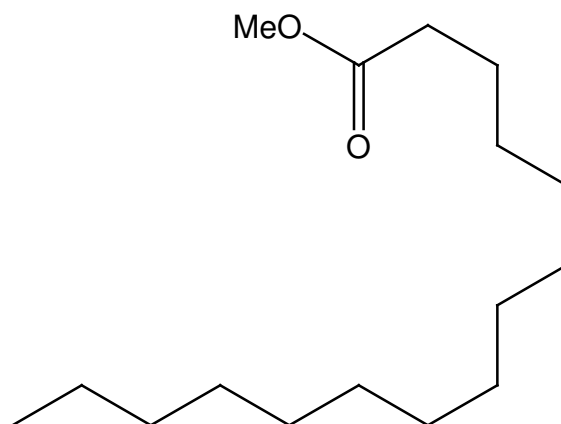
**Molecular Weight:** 256

**Storage:** room temperature

**Purity:** TLC: 99%, GC: 99%

**TLC System:** hexane/ethyl ether (90:10)

**Appearance:** liquid



### **Application Notes:**

This high purity, odd numbered, long-chain fatty acid methyl ester is uncommon in most biological systems and is therefore often useful as an internal standard or biomarker.<sup>1</sup> Pentadecanoic acid is present naturally in bovine milk where it is produced by bacteria in the rumen and it is useful as a biomarker for milk fat consumption.<sup>2</sup> It is also present in some bacteria and fungi and in trace amounts in some plant oils.

### **Selected References:**

1. C. Skeaff et al. "Dietary-Induced Changes in Fatty Acid Composition of Human Plasma, Platelet, and Erythrocyte Lipids Follow a Similar Time Course" *The Journal of Nutrition*, vol. 136 pp. 565-569, 2006
2. A. Smedman et al. "Pentadecanoic acid in serum as a marker for intake of milk fat: relations between intake of milk fat and metabolic risk factors" *American Journal of Clinical Nutrition*, vol. 69 pp. 22-29, 1999

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