



>>Entry Name: 14-Methylpentadecanoic acid, 9CI

Synonym(s): Isopalmitic acid

CAS Registry Number: 4669-02-7

$(\text{H}_3\text{C})_2\text{CH}(\text{CH}_2)_{12}\text{COOH}$

Molecular Formula: $\text{C}_{16}\text{H}_{32}\text{O}_2$

Molecular Weight: 256.428

Accurate Mass: 256.24023

Percentage Composition: C 74.94%; H 12.58%; O 12.48%

Biological Source: Occurs in many natural systems including tall oil, butterfat, adipose tissue, pine resins and bacteria such as *Mycobacterium phlei* and *Arthrobacter simplex*

Melting Point: Mp 61.8-62.4°

Sigma: M6781

>>Derivative: Amide

Molecular Formula: $\text{C}_{16}\text{H}_{33}\text{NO}$

Molecular Weight: 255.443

Accurate Mass: 255.256214

Percentage Composition: C 75.23%; H 13.02%; N 5.48%; O 6.26%

Melting Point: Mp 102°

References:

Fordyce, C.R. *et al.*, *J.A.C.S.*, 1933, **55**, 3370, (*synth*)

Fujii, K. *et al.*, *Eur. J. Biochem.*, 1970, **17**, 552, (*ms*)