



>>Entry Name: 12-Methyltridecanoic acid, 9CI

ENTRY UNDER REVIEW

Synonym(s): Isomyristic acid. Aseonostatin P1. Aseanostatin P1

CAS Registry Number: 2724-57-4

$(\text{H}_3\text{C})_2\text{CH}(\text{CH}_2)_{10}\text{COOH}$

Molecular Formula: $\text{C}_{14}\text{H}_{28}\text{O}_2$

Molecular Weight: 228.374

Accurate Mass: 228.20893

Percentage Composition: C 73.63%; H 12.36%; O 14.01%

Biological Source: Occurs in several natural sources including wool wax, pine resin, Baltic salmon and sperm whale. Also prod. by various bacteria

Use/Importance: Has bactericidal activity

Melting Point: Mp 53°

Boiling Point: Bp₂ 158°

UV: [neutral] λ_{max} 0 (end) (ϵ) (MeOH) (Derep)

Sigma: M7281

>>Derivative: Et ester

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%

Boiling Point: Bp₅ 140-142°

>>Derivative: Amide

Molecular Formula: $\text{C}_{14}\text{H}_{29}\text{NO}$

Molecular Weight: 227.389

Accurate Mass: 227.224914

Percentage Composition: C 73.95%; H 12.85%; N 6.16%; O 7.04%

Melting Point: Mp 107°

References:

Fordyce, C.R. *et al.*, *J.A.C.S.*, 1933, **55**, 3371, (*synth*)

Tyrrell, D., *Lipids*, 1968, **3**, 368, (*ir, ms*)

Goodrich, B. *et al.*, *Aust. J. Chem.*, 1971, **24**, 153

Carballeira, N. *et al.*, *J.O.C.*, 1986, **51**, 2751, (*synth*)

Ishida-Okawara, A. *et al.*, *J. Antibiot.*, 1991, **44**, 524, (*Aseonostatin*)