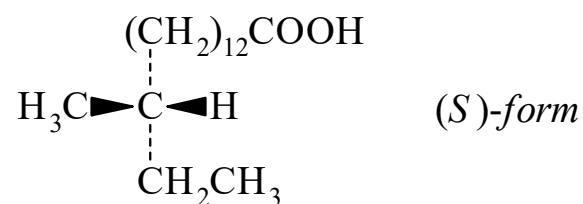




>>Entry Name: 14-Methylhexadecanoic acid, 9CI

ENTRY UNDER REVIEW

Synonym(s): 14-Methylpalmitic acid



CAS Registry Number: 5918-29-6

Related CAS Registry Numbers(s): 73641-07-3

Molecular Formula:  $\text{C}_{17}\text{H}_{34}\text{O}_2$

Molecular Weight: 270.454

Accurate Mass: 270.25588

Percentage Composition: C 75.50%; H 12.67%; O 11.83%

Sigma: M3164

>>Variant: (S)-form

CAS Registry Number: 5746-59-8

Molecular Formula:  $\text{C}_{17}\text{H}_{34}\text{O}_2$

Molecular Weight: 270.454

Accurate Mass: 270.25588

Percentage Composition: C 75.50%; H 12.67%; O 11.83%

Biological Source: Occurs in several animal fats, bacteria and softwoods

Melting Point: Mp 39.5-40°

Optical Rotation:  $[\alpha]_{\text{D}}^{29} +5.2$  (c, 14 in  $\text{Me}_2\text{CO}$ )

>>Derivative: Me ester

Molecular Formula:  $\text{C}_{18}\text{H}_{36}\text{O}_2$

Molecular Weight: 284.481

Accurate Mass: 284.27153

Percentage Composition: C 76.00%; H 12.75%; O 11.25%

Physical Description: Liq.

Boiling Point: Bp<sub>2</sub> 156.5°

Optical Rotation:  $[\alpha]_{\text{D}}^{27} +4.49$

>>Derivative: Anilide

Molecular Formula:  $\text{C}_{23}\text{H}_{39}\text{NO}$

Molecular Weight: 345.567

Accurate Mass: 345.303164

Percentage Composition: C 79.94%; H 11.37%; N 4.05%; O 4.63%

Physical Description: Cryst.

Melting Point: Mp 61.3-61.6°

>>Variant: (±)-form

CAS Registry Number: 73641-04-0

Molecular Formula:  $\text{C}_{17}\text{H}_{34}\text{O}_2$

Molecular Weight: 270.454

Accurate Mass: 270.25588

Percentage Composition: C 75.50%; H 12.67%; O 11.83%

Physical Description: Cryst. ( $\text{Me}_2\text{CO}$ )

Melting Point: Mp 39-40°

>>Derivative: Me ester