



>>Entry Name: 17-Methyloctadecanoic acid, 9CI

ENTRY UNDER REVIEW

Synonym(s): 17-Methylstearic acid. Isononadecanoic acid

CAS Registry Number: 2724-59-6

$\text{H}_3\text{CCH}(\text{CH}_3)(\text{CH}_2)_{15}\text{COOH}$

Molecular Formula:  $\text{C}_{19}\text{H}_{38}\text{O}_2$

Molecular Weight: 298.508

Accurate Mass: 298.28718

Percentage Composition: C 76.45%; H 12.83%; O 10.72%

Sigma: M6031

>>Variant: (±)-form

Molecular Formula:  $\text{C}_{19}\text{H}_{38}\text{O}_2$

Molecular Weight: 298.508

Accurate Mass: 298.28718

Percentage Composition: C 76.45%; H 12.83%; O 10.72%

Melting Point: Mp 67.3-67.8°

Boiling Point: Bp<sub>0.3</sub> 180°

>>Derivative: Me ester

Molecular Formula:  $\text{C}_{20}\text{H}_{40}\text{O}_2$

Molecular Weight: 312.535

Accurate Mass: 312.30283

Percentage Composition: C 76.86%; H 12.90%; O 10.24%

Melting Point: Mp 26-27.5°

Boiling Point: Bp<sub>1.5</sub> 171-172° (lit. gives a pressure range)

>>Derivative: Amide

Molecular Formula:  $\text{C}_{19}\text{H}_{39}\text{NO}$

Molecular Weight: 297.523

Accurate Mass: 297.303164

Percentage Composition: C 76.70%; H 13.21%; N 4.71%; O 5.38%

Melting Point: Mp 100.2-101.3°

>>Variant: (ξ)-form

Molecular Formula:  $\text{C}_{19}\text{H}_{38}\text{O}_2$

Molecular Weight: 298.508

Accurate Mass: 298.28718

Percentage Composition: C 76.45%; H 12.83%; O 10.72%

#### References:

Cason, J., *J.A.C.S.*, 1942, **64**, 1106

Weitzel, G., *Hoppe Seyler's Z. Physiol. Chem.*, 1951, **287**, 310, (*synth*)

Golovnya, R.V. *et al.*, *Prikl. Biokhim. Mikrobiol.*, 1978, **14**, 609, (*ms*)