



>>Entry Name: Nonadecanoic acid

CAS Registry Number: 646-30-0

$\text{H}_3\text{C}(\text{CH}_2)_{17}\text{COOH}$

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%

Biological Source: Isol. from wood of *Ulex europaeus* and *Shorea maranti* and other plant sources

Physical Description: Cryst. (EtOH)

Melting Point: Mp 68.7°

Boiling Point: Bp₁₀₀ 297-298°. Bp₁₀ 227-230°

Aldrich: 22283-6

Fluka: 74190

Sigma: N8263

>>Derivative: Me ester

CAS Registry Number: 1731-94-8

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 38.9°

Aldrich: 28683-4

Fluka: 74208

Rare Chemicals Library: S57425-2

Sigma: N5377

>>Derivative: Tetratriacontanyl ester

Synonym(s): Tetratriacontanyl nonadecanoate

CAS Registry Number: 94410-18-1

Molecular Formula: $\text{C}_{53}\text{H}_{106}\text{O}_2$

Molecular Weight: 775.419

Accurate Mass: 774.81928

Percentage Composition: C 82.10%; H 13.78%; O 4.13%

Physical Description: Cryst. (C_6H_6)

Melting Point: Mp 65°

>>Derivative: Nitrile

CAS Registry Number: 28623-46-3

Molecular Formula: $\text{C}_{19}\text{H}_{37}\text{N}$

Molecular Weight: 279.508

Accurate Mass: 279.292599

Percentage Composition: C 81.65%; H 13.34%; N 5.01%

Physical Description: Cryst. (Me_2CO)

Melting Point: Mp 42.5-43.5°

Rare Chemicals Library: S43995-9

References:

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Jones, R.N., *Can. J. Chem.*, 1962, **40**, 321, (ir)

Ames, D.E. *et al.*, *J.C.S.*, 1963, 775, (synth)

Cocker, W. *et al.*, *Perfum. Essent. Oil Res.*, 1963, **54**, 235; 1964, **55**, 442, (isol)

Matucha, M. *et al.*, *J. Chromatogr.*, 1972, **65**, 371, (glc)

Marosi, L.S. *et al.*, *Annalen*, 1973, 584, (cryst struct)

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Singh, M. *et al.*, *Z. Naturforsch., B*, 1984, **39**, 1425, (Tetratriacontanyl nonadecanoate)