



>>Entry Name: Nonacosanoic acid

CAS Registry Number: 4250-38-8

$\text{H}_3\text{C}(\text{CH}_2)_{27}\text{COOH}$

Molecular Formula: $\text{C}_{29}\text{H}_{58}\text{O}_2$

Molecular Weight: 438.776

Accurate Mass: 438.44368

Percentage Composition: C 79.38%; H 13.32%; O 7.29%

Biological Source: Constit. of various plant spp.

Physical Description: Cryst. (toluene)

Melting Point: Mp 90.3° (89-90°)

Sigma: N2637

>>Derivative: Me ester

CAS Registry Number: 4082-55-7

Molecular Formula: $\text{C}_{30}\text{H}_{60}\text{O}_2$

Molecular Weight: 452.803

Accurate Mass: 452.45933

Percentage Composition: C 79.58%; H 13.36%; O 7.07%

Physical Description: Cryst. (petrol)

Melting Point: Mp 68.8° (69-70°)

Other Data: Ir ν 1730 cm^{-1}

Fluka: 74157

Sigma: N2762

>>Derivative: Et ester

Molecular Formula: $\text{C}_{31}\text{H}_{62}\text{O}_2$

Molecular Weight: 466.83

Accurate Mass: 466.47498

Percentage Composition: C 79.76%; H 13.39%; O 6.85%

Melting Point: Mp 66.6°

References:

Francis, F. *et al.*, *J.A.C.S.*, 1939, **61**, 577, (*synth*)

Flores, S.E. *et al.*, *Acta Cient. Venez.*, 1971, **22**, 147, (*isol, ir*)

Rao, S.J., *Indian J. Chem., Sect. B*, 1987, **26**, 208, (*synth*)

Brown, H.C. *et al.*, *Tetrahedron*, 1992, **48**, 9187, (*synth*)

Kling, M.R. *et al.*, *J.C.S. Perkin I*, 1993, 1183, (*synth, ir, ms*)