



>>Entry Name: 9-Octadecenyl 9-octadecenoate, 9CI

Related CAS Registry Numbers(s): 27640-90-0 65454-74-2 125412-22-8 125412-23-9

$\text{H}_3\text{C}(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_7\text{COO}(\text{CH}_2)_8\text{CH}=\text{CH}(\text{CH}_2)_7\text{CH}_3$

Molecular Formula: $\text{C}_{36}\text{H}_{68}\text{O}_2$

Molecular Weight: 532.932

Accurate Mass: 532.52193

Percentage Composition: C 81.14%; H 12.86%; O 6.00%

>>Variant: (Z,Z)-form

Synonym(s): Oleyl oleate

CAS Registry Number: 3687-45-4

Molecular Formula: $\text{C}_{36}\text{H}_{68}\text{O}_2$

Molecular Weight: 532.932

Accurate Mass: 532.52193

Percentage Composition: C 81.14%; H 12.86%; O 6.00%

Biological Source: Constituent of sperm oil

Physical Description: Liq.

Melting Point: Mp 15-18° (-4.0 to -3.5°)

Boiling Point: Bp₂ 284-286°. Bp₁ 272°

Density: d_4^{30} 0.86

Refractive Index: n_D^{20} 1.4605

References:

Sauer, J. *et al.*, *J.A.C.S.*, 1937, **59**, 1-3, (*synth*)

Swern, D. *et al.*, *J.A.C.S.*, 1947, **69**, 2439-2442, (*synth*)

Perlstein, T. *et al.*, *J. Am. Oil Chem. Soc.*, 1974, **51**, 335-339, (*synth*)

Tsuji, J. *et al.*, *J. Organomet. Chem.*, 1981, **218**, 69-80, (*synth, pmr, ir*)

Seo, C.W. *et al.*, *Agric. Biol. Chem.*, 1982, **46**, 405-409, (*synth, ms, pmr*)