



Boiling Point: Bp₁₃ 210°
Optical Rotation: [α]_D²²+15.25

>>**Derivative:** Ac, Me ester

CAS Registry Number: 140-03-4
Molecular Formula: C₂₁H₃₈O₄
Molecular Weight: 354.529
Accurate Mass: 354.27701
Percentage Composition: C 71.15%; H 10.80%; O 18.05%
Boiling Point: Bp₁ 195°

>>**Derivative:** Lactone

CAS Registry Number: 127062-54-8
Boiling Point: Bp₁₂ 120°
Optical Rotation: [α]_D +32.2 (c, 1 in CHCl₃)

>>**Derivative:** Lactone dimer

CAS Registry Number: 71372-09-3
Boiling Point: Bp_{0.3} 160°

>>**Variant:** (S,E)-form

CAS Registry Number: 84799-84-8
Molecular Formula: C₁₈H₃₄O₃
Molecular Weight: 298.465
Accurate Mass: 298.250795
Percentage Composition: C 72.44%; H 11.48%; O 16.08%
Optical Rotation: [α]_D -5.02 (c, 1.120 in MeOH)

>>**Derivative:** Me ester

Optical Rotation: [α]_D -5.2 (c, 1.120 in MeOH)

>>**Variant:** (S,Z)-form

CAS Registry Number: 84799-81-5
Molecular Formula: C₁₈H₃₄O₃
Molecular Weight: 298.465
Accurate Mass: 298.250795
Percentage Composition: C 72.44%; H 11.48%; O 16.08%
Optical Rotation: [α]_D -4.98 (c, 1.0 in MeOH)

>>**Derivative:** Me ester

CAS Registry Number: 84799-82-6
Optical Rotation: [α]_D -5.11 (c, 1.027 in MeOH)

References:

- James, A.T. *et al.*, *Biochem. J.*, 1965, **95**, 448, (*biosynth*)
Applewhite, T.H. *et al.*, *J.O.C.*, 1967, **32**, 1173, (*abs config*)
Ger. Pat., 1968, 1 271 701; *CA*, **69**, 95976j, (*Ricinoleyl ricinoleate*)
Suzuki, O. *et al.*, *Yakugaku Zasshi*, 1970, **19**, 140, (*pmr*)
Chakrabarti, P. *et al.*, *Biochemistry*, 1975, **14**, 5021, (*synth*)
Ariga, T. *et al.*, *Chem. Phys. Lipids*, 1977, **19**, 14, (*ms*)
Inanaga, J. *et al.*, *Bull. Chem. Soc. Jpn.*, 1979, **52**, 1989-1993, (*R,Z-form, lactone, lactone dimer, synth, ir, pmr*)
Rakoff, H. *et al.*, *Lipids*, 1979, **14**, 81, (*cmr*)
McGhie, J.F. *et al.*, *Chem. Ind. (London)*, 1982, 719-720, (*synth*)
Steliou, K. *et al.*, *J.A.C.S.*, 1983, **105**, 7130, (*synth, pmr, cmr, ms*)
Org. Synth., 1985, **63**, 192-197, (*Ricinelaiddic acid, lactone*)
Yamada, H. *et al.*, *Chem. Lett.*, 1989, 1775-1776, (*R,E-form, R,Z-form, lactones, synth*)
Matsuyama, H. *et al.*, *J.O.C.*, 1989, **54**, 5218-5223, (*Ricinelaiddic acid, Me ester, lactone, synth, ir, pmr*)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 1409
Fuerstner, A. *et al.*, *J.A.C.S.*, 1997, **119**, 9130-9136, (*synth*)
Nagarajan, M., *Synth. Commun.*, 1999, **29**, 2467-2475, (*synth*)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, RJP000