



Molecular Formula: C₃₇H₅₀O₄
Molecular Weight: 558.8
Accurate Mass: 558.37091
Percentage Composition: C 79.53%; H 9.02%; O 11.45%
Biological Source: Constit. of *Ploiarium alternifolium*
Physical Description: Cryst. (MeOH)
Melting Point: Mp 175-180°
Optical Rotation: [α]_D²⁵ +62 (c, 1.4 in CHCl₃)

>> **Derivative:** 11 α ,12 α -Epoxide, 28→13-lactone

CAS Registry Number: 19897-41-7
Type of Compound Code(s): VS8300
Molecular Formula: C₃₀H₄₆O₄
Molecular Weight: 470.691
Accurate Mass: 470.33961
Percentage Composition: C 76.55%; H 9.85%; O 13.60%
Biological Source: Isol. from *Lepechinia glomerata*
Physical Description: Cryst. (MeOH)
Melting Point: Mp 269-271.5°
Optical Rotation: [α]_D²⁵ +52.5 (c, 0.16 in CHCl₃)

>> **Derivative:** 11 α ,12 α -Epoxide, 28→13-lactone, 3-Ac

CAS Registry Number: 35738-25-1
Type of Compound Code(s): VS8300
Molecular Formula: C₃₂H₄₈O₅
Molecular Weight: 512.728
Accurate Mass: 512.350175
Percentage Composition: C 74.96%; H 9.44%; O 15.60%
Biological Source: Constit. of *Rhodomyrtus tomentosa*
Physical Description: Cryst.
Melting Point: Mp 329-331° (295-296°)
Optical Rotation: [α]_D +45.3 (CHCl₃)

References:

- Kitagawa, J. *et al.*, *Tetrahedron*, 1972, **28**, 907, (*synth*)
Hui, W.H. *et al.*, *Phytochemistry*, 1976, **15**, 1741, (*isol, lactone epoxide*)
Yoshikawa, M. *et al.*, *Chem. Pharm. Bull.*, 1982, **30**, 3057, (*synth*)
Iwamoto, M. *et al.*, *Chem. Pharm. Bull.*, 1985, **33**, 1, (*synth*)
Delgado, G. *et al.*, *J. Chem. Res., Synop.*, 1986, 286, (*isol, lactone epoxide*)
Pereda-Miranda, R. *et al.*, *J. Nat. Prod.*, 1990, **53**, 182, (*isol, pmr, cmr, ms, lactone*)
Ikuta, A. *et al.*, *J. Nat. Prod.*, 1992, **55**, 1230, (*isol, pmr, cmr, lactone epoxide*)
Bennett, G.J. *et al.*, *Phytochemistry*, 1992, **31**, 1325, (*lactone benzoate*)
Ikuta, A. *et al.*, *Phytochemistry*, 1995, **38**, 1203, (*isol, pmr, cmr*)
Sun, Y.R. *et al.*, *Yaoxue Xuebao*, 1996, **31**, 437, (*Liquidambaric acid*)