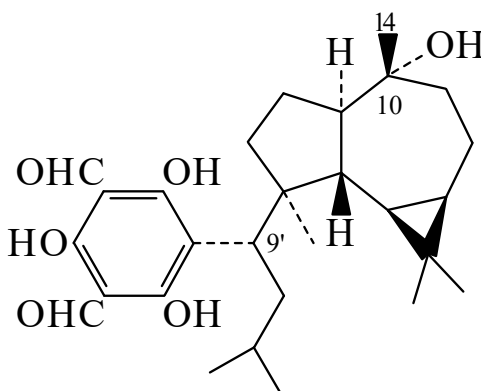




>>Entry Name: **Macrocarpal B**



CAS Registry Number: 142698-60-0

Molecular Formula: C₂₈H₄₀O₆

Molecular Weight: 472.62

Accurate Mass: 472.28249

Percentage Composition: C 71.16%; H 8.53%; O 20.31%

Biological Source: Constit. of *Eucalyptus globulus* and *Eucalyptus macrocarpa*

Physical Description: Cryst.

Melting Point: Mp 198-200°

Optical Rotation: [α]_D²⁴ -17.5 (c, 1.2 in EtOH)

>>**Derivative:** 10-Deoxy, 10,14-didehydro

Synonym(s): **Macrocarpal C**

CAS Registry Number: 142628-53-3

Molecular Formula: C₂₈H₃₈O₅

Molecular Weight: 454.605

Accurate Mass: 454.271925

Percentage Composition: C 73.98%; H 8.42%; O 17.60%

Biological Source: Isol. from *Eucalyptus globulus*

Physical Description: Amorph. solid

Optical Rotation: [α]_D²⁴ -3 (c, 0.92 in EtOH)

>>**Derivative:** 9'-Epimer

Synonym(s): **Macrocarpal A**

CAS Registry Number: 132951-90-7

Molecular Formula: C₂₈H₄₀O₆

Molecular Weight: 472.62

Accurate Mass: 472.28249

Percentage Composition: C 71.16%; H 8.53%; O 20.31%

Biological Source: Constit. of *Eucalyptus macrocarpa*

Physical Description: Plates

Melting Point: Mp 198-200°

Optical Rotation: [α]_D²⁰ -94.7 (c, 0.275 in EtOH)

UV: [acid] $\lambda_{\max}$ 288 (ϵ 10000) (EtOH/HCl) (Derep) [base] $\lambda_{\max}$ 302 (ϵ 16000); 369 (ϵ 2500) (EtOH/NaOH) (Derep) [neutral] $\lambda_{\max}$ 275 (ϵ 13000); 393 (ϵ 5600) (EtOH) (Derep)

References:

- Murata, M. *et al.*, *Agric. Biol. Chem.*, 1990, **54**, 3221, (*isol, pmr, cmr, cryst struct*)
Yamakoshi, Y. *et al.*, *Biosci., Biotechnol., Biochem.*, 1992, **56**, 1570, (*isol, pmr, cmr*)
Nishizawa, M. *et al.*, *Tet. Lett.*, 1992, **33**, 2983, (*isol, pmr, cmr, cryst struct*)
Tanaka, T. *et al.*, *Chem. Comm.*, 1997, 2401-2402, (*synth*)
Tanaka, T. *et al.*, *J.O.C.*, 1998, **63**, 9782-9793, (*synth*)