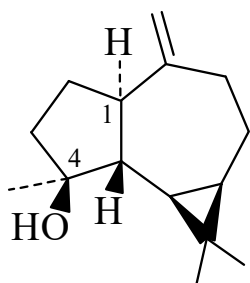




>>Entry Name: 10(14)-Aromadendren-4-ol



(1a,4b,5b,6a,7a)-form

CAS Registry Number: 72203-24-8

Molecular Formula: C₁₅H₂₄O

Molecular Weight: 220.354

Accurate Mass: 220.182715

Percentage Composition: C 81.76%; H 10.98%; O 7.26%

>>Variant: (1 α ,4 β ,5 β ,6 α ,7 α)-form

Synonym(s): Spathulenol‡

CAS Registry Number: 6750-60-3

Molecular Formula: C₁₅H₂₄O

Molecular Weight: 220.354

Accurate Mass: 220.182715

Percentage Composition: C 81.76%; H 10.98%; O 7.26%

Biological Source: Constit. of the essential oil of *Eucalyptus spathulata* var. *grandiflora* and *Salvia sclarea*

Physical Description: Oil

Optical Rotation: [α]_D +56

Solubility: BERDY SOL: Sol. MeOH, C₆H₆; poorly sol. H₂O, hexane

>>Derivative: 3,5-Dinitrobenzoyl

Physical Description: Cryst.

Melting Point: Mp 148°

>>Variant: (1 β ,4 α ,5 β ,6 β ,7 β)-form

Synonym(s): Epispathulenol

Molecular Formula: C₁₅H₂₄O

Molecular Weight: 220.354

Accurate Mass: 220.182715

Percentage Composition: C 81.76%; H 10.98%; O 7.26%

Biological Source: Constit. of *Taonia lacheana*

Physical Description: Cryst.

Melting Point: Mp 102-103°

Optical Rotation: [α]_D +2 (c, 0.7 in Me₂CO)

>>Variant: (1 β ,4 α ,5 α ,6 β ,7 β)-form

Synonym(s): *ent*-Spathulenol

CAS Registry Number: 77171-55-2

Molecular Formula: C₁₅H₂₄O

Molecular Weight: 220.354

Accurate Mass: 220.182715

Percentage Composition: C 81.76%; H 10.98%; O 7.26%

Biological Source: Constit. of many liverworts. Possibly an artifact as it is readily produced by autoxidation of bicyclogermacrene (see Bicyclogermacrene [KXJ14-I](#))

Optical Rotation: [α]_D -20 (c, 1 in CHCl₃)

References:

- Bowyer, R.C. *et al.*, *Chem. Ind. (London)*, 1963, 1245, (*isol, struct*)
Juell, S. *et al.*, *Arch. Pharm. (Weinheim, Ger.)*, 1976, **309**, 458, (*pmr*)
Asakawa, Y. *et al.*, *Phytochemistry*, 1980, **19**, 2141, (*ent-Spathulenol*)
Surburg, H. *et al.*, *Chem. Ber.*, 1981, **114**, 118, (*synth*)
Ulubelen, A. *et al.*, *Phytochemistry*, 1994, **36**, 971, (*isol, pmr, cmr*)
Tringali, C. *et al.*, *Phytochemistry*, 1995, **40**, 827, (*Epispathulenol*)
Toyota, M. *et al.*, *Phytochemistry*, 1996, **41**, 1347, (*ent-Spathulenol*)