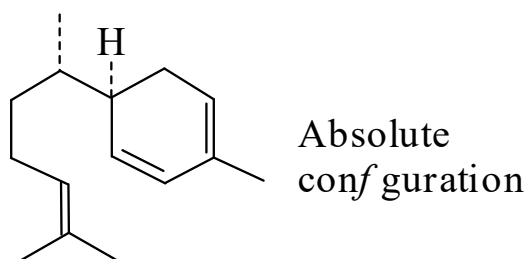




>>Entry Name: 1,3,10-Bisabolatriene

ENTRY UNDER REVIEW

Synonym(s): Zingiberene



CAS Registry Number: 495-60-3

Molecular Formula: C₁₅H₂₄

Molecular Weight: 204.355

Accurate Mass: 204.1878

Percentage Composition: C 88.16%; H 11.84%

Biological Source: Constit. of ginger oil. Also from wild thyme (*Thymus serpyllum*), long pepper (*Piper longum*) and kua (*Curcuma zedoaria*)

Physical Description: Oil

Boiling Point: Bp₁₁ 128-130°

Optical Rotation: [α]_D²⁷ -61.7 (CHCl₃)

>>Derivative: Nitrosochloride

Physical Description: Cryst.

Melting Point: Mp 93-94°

>>Derivative: 7-Epimer

Synonym(s): 7-Epizingiberene

Molecular Formula: C₁₅H₂₄

Molecular Weight: 204.355

Accurate Mass: 204.1878

Percentage Composition: C 88.16%; H 11.84%

Biological Source: Constit. of *Lycopersicon hirsutum*

Physical Description: Oil

Optical Rotation: [α]_D²⁶ -76.1 (CHCl₃)

References:

- Eschenmoser, A. *et al.*, *Helv. Chim. Acta*, 1950, **33**, 171, (*isol, struct*)
Arigoni, D. *et al.*, *Helv. Chim. Acta*, 1954, **37**, 881, (*abs config*)
Joshi, G.D. *et al.*, *Indian J. Chem.*, 1965, **3**, 91, (*synth*)
Soffer, M.D. *et al.*, *Tet. Lett.*, 1985, **26**, 3543, (*cryst struct*)
Bhonsle, J.B. *et al.*, *Indian J. Chem., Sect. B*, 1994, **33**, 313, (*synth, bibl*)
Breedon, D.C. *et al.*, *Tetrahedron*, 1994, **50**, 11123, (*isol, cmr, pmr*)
Millar, J.G. *et al.*, *J. Nat. Prod.*, 1998, **61**, 1025-1026, (*isol*)