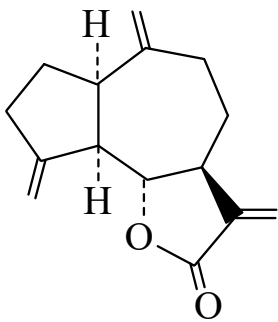




>>Entry Name: 4(15),10(14),11(13)-Guaiatrien-12,6-olide



Molecular Formula: C₁₅H₁₈O₂

Molecular Weight: 230.306

Accurate Mass: 230.13068

Percentage Composition: C 78.23%; H 7.88%; O 13.89%

>>Variant: (1 α ,5 α ,6 α)-form

Synonym(s): Dehydrocostus lactone. Epiligulyl oxide

CAS Registry Number: 477-43-0

Molecular Formula: C₁₅H₁₈O₂

Molecular Weight: 230.306

Accurate Mass: 230.13068

Percentage Composition: C 78.23%; H 7.88%; O 13.89%

Biological Source: Constit. of *Saussurea lappa*, *Veronica hirsuta* and *Zaluzania tribolia*

Physical Description: Cryst.

Melting Point: Mp 60.5°

Optical Rotation: [α]_D –20 (CHCl₃)

>>Derivative: 11 α ,13-Epoxyde

Synonym(s): 11,13-Epoxy-4(15),10(14)-guaiadien-12,6-olide. **11,13-Epoxydehydrocostus lactone**

Molecular Formula: C₁₅H₁₈O₃

Molecular Weight: 246.305

Accurate Mass: 246.125595

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Biological Source: Constit. of *Saussurea lappa*

Physical Description: Cryst.

Melting Point: Mp 78°

>>Derivative: 11 β ,13-Dihydro

Synonym(s): 4(15),10(14)-Guaiadien-12,6-olide. **Mokkolactone**. Dehydrodihydrocostus lactone

CAS Registry Number: 4955-03-7

Molecular Formula: C₁₅H₂₀O₂

Molecular Weight: 232.322

Accurate Mass: 232.14633

Percentage Composition: C 77.55%; H 8.68%; O 13.77%

Biological Source: Constit. of *Saussurea lappa* and the Chinese drug Sen-mokko

Physical Description: Cryst.

Melting Point: Mp 35-37°

Optical Rotation: [α]_D +18.2 (CHCl₃)

References:

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Mathur, S.B. *et al.*, *Tetrahedron*, 1965, **21**, 3575, (*struct*)

Bankar, N.S. *et al.*, *Indian J. Chem.*, 1972, **10**, 952, (*isol*)

Ando, M. *et al.*, *Chem. Lett.*, 1984, 493, (*synth*)

Chhabra, B.R. *et al.*, *Phytochemistry*, 1998, **49**, 801-804, (*epoxide*)

Yuuya, S. *et al.*, *J. Nat. Prod.*, 1999, **62**, 22-30, (*synth*)