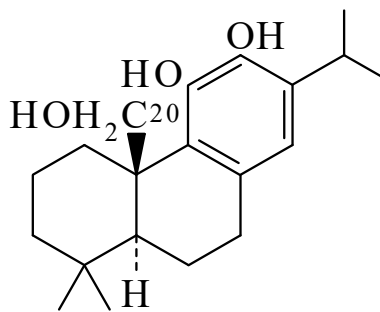




>>Entry Name: 8,11,13-Abietatriene-11,12,20-triol
ENTRY UNDER REVIEW



Molecular Formula: C₂₀H₃₀O₃

Molecular Weight: 318.455

Accurate Mass: 318.219495

Percentage Composition: C 75.43%; H 9.49%; O 15.07%

Biological Source: Isol. from *Salvia mellifera*

Physical Description: Amorph. solid

>>Derivative: 20-Carboxylic acid

Synonym(s): 11,12-Dihydroxy-8,11,13-abietatrien-20-oic acid. **Carnosic acid.** Deoxypicrosalvinic acid. **Salvinic acid.**

CAS Registry Number: 3650-09-7

Molecular Formula: C₂₀H₂₈O₄

Molecular Weight: 332.439

Accurate Mass: 332.19876

Percentage Composition: C 72.26%; H 8.49%; O 19.25%

Biological Source: Isol. from *Salvia officinalis*, *Salvia canariensis*, *Salvia apiana* and *Rosmarinus officinalis*

Physical Description: Cryst. (hexane)

Melting Point: Mp 185-190 dec.°

Optical Rotation: [α]_D²³+191 (c, 1.07 in MeOH)

Solubility: BERDY SOL: Sol. Et₂O, MeOH, bases, CHCl₃; poorly sol. H₂O

UV: [neutral] $\lambda_{\max}$ 212 (ϵ 21500); 233 (ϵ 9650); 284 (ϵ 1690) (EtOH) (Berdy)

>>Derivative: 20-Carboxylic acid, di-Ac

Physical Description: Needles (hexane)

Melting Point: Mp 212-217° (196-215° dec.)

Optical Rotation: [α]_D²²+139 (c, 1.15 in CHCl₃)

>>Derivative: 20→11 Lactone, 12-Me ether

Synonym(s): 12-Methoxy-8,11,13-abietatrien-20,11-olide

Molecular Formula: C₂₁H₂₈O₃

Molecular Weight: 328.45

Accurate Mass: 328.203845

Percentage Composition: C 76.79%; H 8.59%; O 14.61%

Biological Source: Constit. of *Salvia officinalis*

Physical Description: Cryst. (petrol)

Melting Point: Mp 112-114°

References:

- Linde, H. *et al.*, *Helv. Chim. Acta*, 1964, **47**, 1234, (*isol, uv, ir, pmr*)
Wenkert, E. *et al.*, *J.O.C.*, 1965, **30**, 2931, (*isol, ir, pmr, config*)
Narayanan, C.R. *et al.*, *Tet. Lett.*, 1965, 3647, (*struct*)
Meyer, W.L. *et al.*, *Tet. Lett.*, 1966, 4261, (*synth*)
Dentali, S.J. *et al.*, *Phytochemistry*, 1990, **29**, 993, (*isol*)
González, A.G. *et al.*, *Phytochemistry*, 1991, **30**, 4067, (*isol, pmr, cmr*)
Djarmati, Z. *et al.*, *Phytochemistry*, 1992, **31**, 1307, (*isol, pmr, cmr, cryst struct*)