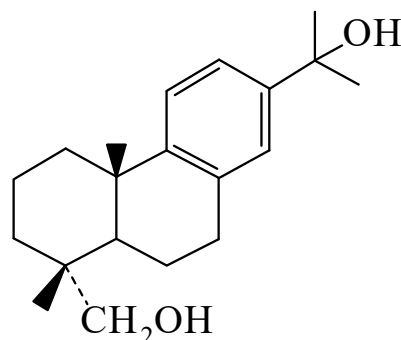




>>Entry Name: 8,11,13-Abietatriene-15,18-diol

Synonym(s): Daturabietatriene



CAS Registry Number: 65894-41-9

Molecular Formula: C₂₀H₃₀O₂

Molecular Weight: 302.456

Accurate Mass: 302.22458

Percentage Composition: C 79.42%; H 10.00%; O 10.58%

Biological Source: Constit. of *Pinus* spp. and *Datura metel*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 239-240°

Optical Rotation: $[\alpha]_D^{25} -250$ (c, 0.2 in MeOH)

UV: [neutral] $\lambda_{\max}$ 209 (log ϵ 8.2); 260 (log ϵ 1.2) (MeOH)

>>Derivative: 18-Carboxylic acid

Synonym(s): 15-Hydroxy-8,11,13-abietatrien-18-oic acid. **15-Hydroxydehydroabietic acid**

CAS Registry Number: 54113-95-0

Molecular Formula: C₂₀H₂₈O₃

Molecular Weight: 316.439

Accurate Mass: 316.203845

Percentage Composition: C 75.91%; H 8.92%; O 15.17%

Biological Source: Constit. of *Agathis* spp.

>>Derivative: 18-Carboxylic acid, Me ester

CAS Registry Number: 29461-23-2

Molecular Formula: C₂₁H₃₀O₃

Molecular Weight: 330.466

Accurate Mass: 330.219495

Percentage Composition: C 76.33%; H 9.15%; O 14.52%

Biological Source: Constit. of *Picea abies*

Physical Description: Cryst.

Melting Point: Mp 82-83° (75-77°)

Optical Rotation: $[\alpha]_D +45.6$ (c, 0.4 in CHCl₃)

References:

- Carman, R.M. *et al.*, *Aust. J. Chem.*, 1970, **23**, 1457, (15-Hydroxydehydroabietic acid)
Norin, T. *et al.*, *Acta Chem. Scand.*, 1972, **26**, 2289, (15-Hydroxydehydroabietic acid)
Conner, A.H. *et al.*, *Phytochemistry*, 1977, **16**, 1777, (isol)
Cheung, H.T.A. *et al.*, *Tetrahedron*, 1993, **49**, 7903, (pmr, cmr, 15-Hydroxydehydroabietic acid)
Ali, M. *et al.*, *Indian J. Pharm. Sci.*, 1996, **58**, 243-245; *CA*, **127**, 3001c, (Daturabietatriene)