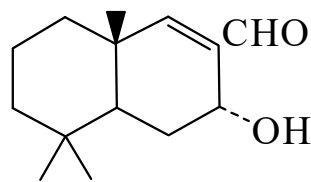




>>Entry Name: Polygonal

Synonym(s): 7 α -Hydroxy-11-nor-8-drimen-12-al



CAS Registry Number: 72537-20-3

Molecular Formula: C₁₄H₂₂O₂

Molecular Weight: 222.327

Accurate Mass: 222.16198

Percentage Composition: C 75.63%; H 9.97%; O 14.39%

Biological Source: Constit. of *Polygonum hydropiper*

Physical Description: Cryst.

Melting Point: Mp 116-117°

Optical Rotation: [α]_D -7.3 (c, 7.4 in CHCl₃)

>>Derivative: 7-Epimer

Synonym(s): Isopolygonal

CAS Registry Number: 98204-83-2

Molecular Formula: C₁₄H₂₂O₂

Molecular Weight: 222.327

Accurate Mass: 222.16198

Percentage Composition: C 75.63%; H 9.97%; O 14.39%

Biological Source: Constit. of *Polygonum hydropiper*

Physical Description: Oil

Optical Rotation: [α]_D²⁴ +73 (c, 1.88 in CHCl₃)

>>Derivative: 7-Ketone

Synonym(s): 7-Oxo-11-nor-8-drimen-12-al. Polygonone

CAS Registry Number: 72581-67-0

Molecular Formula: C₁₄H₂₀O₂

Molecular Weight: 220.311

Accurate Mass: 220.14633

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

Biological Source: From *Polygonum hydropiper*

Physical Description: Oil

>>Derivative: 7-Ketone, Me ester

CAS Registry Number: 112358-43-7

Molecular Formula: C₁₅H₂₂O₃

Molecular Weight: 250.337

Accurate Mass: 250.156895

Percentage Composition: C 71.97%; H 8.86%; O 19.17%

Biological Source: Constit. of fungus *Lepista glaucocana*

Physical Description: Oil

Optical Rotation: [α]_D²⁰ +28.2 (c, 0.90 in CHCl₃)

References:

- Asakawa, Y. *et al.*, *Experientia*, 1979, **35**, 1420, (*Polygonal*)
Fukuyama, Y. *et al.*, *Phytochemistry*, 1985, **24**, 1521, (*Isopolygonal, Polygonone*)
Errington, S.G. *et al.*, *J. Chem. Res., Synop.*, 1987, 47, (*isol, deriv*)
Janaki, S. *et al.*, *Indian J. Chem., Sect. B*, 1988, **27**, 505, (*synth, deriv*)
Cortés, M. *et al.*, *Nat. Prod. Lett.*, 1993, **2**, 37, (*synth*)