



Synonym(s): Santamarine. Balchanin. Santamarin

CAS Registry Number: 4290-13-5

Molecular Formula: C₁₅H₂₀O₃

Molecular Weight: 248.321

Accurate Mass: 248.141245

Percentage Composition: C 72.55%; H 8.12%; O 19.33%

Biological Source: Constit. of *Artemisia balchanorum*, *Chrysanthemum parthenium* and *Achillea pratensis*

Physical Description: Cryst. (diisopropyl ether/Me₂CO)

Melting Point: Mp 142° (134-136°)

Optical Rotation: [α]_D²⁰ +96.6 (CHCl₃)

>>Derivative: 11 β ,13-Dihydro

Synonym(s): 1 β -Hydroxy-3-eudesmen-12,6 α -olide. **11 β ,13-Dihydrosantamarine.** 1 β -Hydroxy-3-santen-12,6-olide (obsol.)

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 *Achillea canariensis* and *Achillea tridentata* ssp. *wyomingensis*

Physical Description: Cryst.

Melting Point: Mp 132-133°

Optical Rotation: [α]_D +71 (c, 1.0 in CHCl₃)

>>Derivative: 11 α ,13-Dihydro

Synonym(s): **11 α ,13-Dihydrosantamarine**

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 *Achillea herba-alba*

Physical Description: Cryst. (Et₂O/hexane)

Melting Point: Mp 92-95°

Optical Rotation: [α]_D²³ +93 (c, 0.9 in CHCl₃)

>>Derivative: 11 β ,13-Dihydro, Ac

Molecular Formula: C₁₇H₂₄O₄

Molecular Weight: 292.374

Accurate Mass: 292.16746

Percentage Composition: C 69.84%; H 8.27%; O 21.89%

Biological Source: Constit. of *Achillea rutifolia*

Physical Description: Gum

>>Variant: (*ent*-1 β ,6 α)-form

Synonym(s): 1 α -Hydroxy-3,11(13)-steiractinadien-12,6 β -olide

Molecular Formula: C₁₅H₂₀O₃

Molecular Weight: 248.321

Accurate Mass: 248.141245

Percentage Composition: C 72.55%; H 8.12%; O 19.33%

Biological Source: Isol. from *Geigeria rigida*

Physical Description: Gum

>>Variant: (1 β ,5 β ,6 β ,10 α)-form

Molecular Formula: C₁₅H₂₀O₃

Molecular Weight: 248.321

Accurate Mass: 248.141245

Percentage Composition: C 72.55%; H 8.12%; O 19.33%