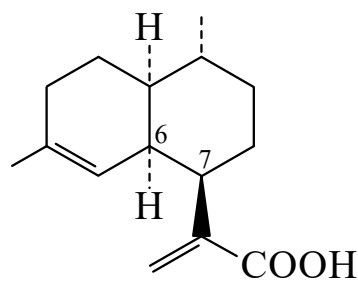




>> **Name: 4,11(13)-Amorphadien-12-oic acid**

Synonym(s): Artemisinic acid. Artemisic acid. Qing Hau acid. Arteannuic acid



CAS Registry Number: 80286-58-4

Molecular Formula: C₁₅H₂₂O₂

Molecular Weight: 234.338

Accurate Mass: 234.16198

Percentage Composition: C 76.88%; H 9.46%; O 13.66%

Biological Source: Isol. from *Artemisia annua*

Use/Importance: Shows antibacterial activity

Physical Description: Cubes (petrol)

Melting Point: Mp 131°

Optical Rotation: [α]_D +36 (c, 0.01 in CHCl₃)

>> **Derivative:** Me ester

Synonym(s): Methyl artemisinate

CAS Registry Number: 82869-24-7

Molecular Formula: C₁₆H₂₄O₂

Molecular Weight: 248.364

Accurate Mass: 248.17763

Percentage Composition: C 77.38%; H 9.74%; O 12.88%

Biological Source: Constit. of *Artemisia annua*

Physical Description: Oil

Optical Rotation: [α]_D +6.2 (c, 1.45 in CHCl₃)

>> **Derivative:** 6,7-Didehydro

Synonym(s): 4,6,11(13)-Cadinatrien-12-oic acid. **6,7-Dehydroartemisinic acid**

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 *Artemisia annua*

Physical Description: Cryst. (Et₂O/hexane)

Melting Point: Mp 129-130°

Optical Rotation: [α]_D +317 (c,0.05 in MeOH)

>> **Derivative:** 11*R*,13-Dihydro

Synonym(s): 4-Amorphen-12-oic acid. **Dihydroartemisinic acid**

CAS Registry Number: 85031-59-0

Molecular Formula: C₁₅H₂₄O₂

Molecular Weight: 236.353

Accurate Mass: 236.17763

Percentage Composition: C 76.23%; H 10.23%; O 13.54%

Biological Source: Constit. of *Artemisia annua*

Use/Importance: Poss. intermed. in biosynth. of Artemisinin [JTB75-A](#)

Physical Description: Powder

Melting Point: Mp 136-137°

Optical Rotation: [α]_D²³ -10.6 (c, 0.017 in CHCl₃)

UV: [neutral] λ_{max} 220 (log ε 2.58) (MeOH)

References: