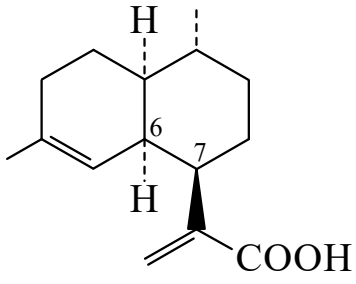
>>**Entry Name: 4,11(13)-Amorphadien-12-oic acid**
Synonym(s): Artemisinic acid. Artemisic acid. Qing Hau acid. Arteannuic acid



CAS Registry Number: 80286-58-4

Molecular Formula: $C_{15}H_{22}O_2$
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: $[\alpha]_D$ +36 (c, 0.01 in $CHCl_3$)

>>**Derivative:** Me ester
Synonym(s): Methyl artemisinate

CAS Registry Number: 82869-24-7

Molecular Formula: $C_{16}H_{24}O_2$
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: $[\alpha]_D$ +6.2 (c, 1.45 in $CHCl_3$)

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

Molecular Formula: $C_{15}H_{20}O_2$
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. (Et_2O/hexane)
Melting Point: Mp 129-130°
Optical Rotation: $[\alpha]_D$ +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: $C_{15}H_{24}O_2$
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: $[\alpha]_D^{23}$ –10.6 (c, 0.017 in $CHCl_3$)
UV: [neutral] λ_{max} 220 (log ε 2.58) (MeOH)

References: