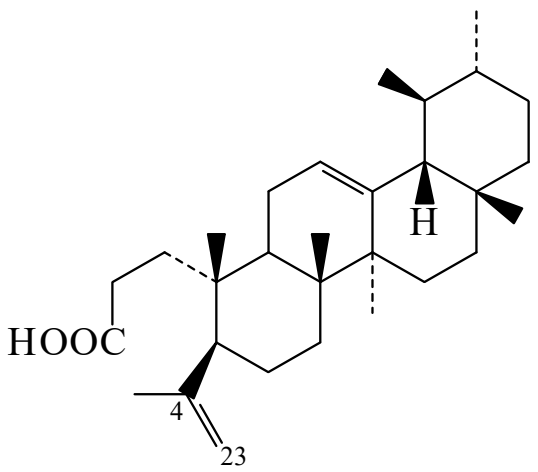
>>**Entry Name: Roburic acid**
Synonym(s): 3,4-Seco-4(23),12-ursadien-3-oic acid



CAS Registry Number: 6812-81-3

Molecular Formula: $C_{30}H_{48}O_2$
Molecular Weight: 440.708
Accurate Mass: 440.36543
Percentage Composition: C 81.76%; H 10.98%; O 7.26%
Biological Source: Constit. of oak galls produced by *Cynips mayri* and *Gentiana macrophylla*
Physical Description: Cryst. (EtOH)
Melting Point: Mp 181-182°
Optical Rotation: $[\alpha]_D$ +78 ($CHCl_3$)

>>**Derivative:** 4,23-Dihydro
Synonym(s): 3,4-Seco-12-ursen-3-oic acid. **4,23-Dihydroroburic acid**

Molecular Formula: $C_{30}H_{50}O_2$
Molecular Weight: 442.724
Accurate Mass: 442.38108
Percentage Composition: C 81.39%; H 11.38%; O 7.23%
Biological Source: Constit. of *Boswellia carteri* and *Hoya naumanii*. Present in Borneo mud sediments.

>>**Derivative:** 4,23-Dihydro, Me ester
Synonym(s): Methyl dihydroroburate

CAS Registry Number: 89913-61-1

Molecular Formula: $C_{31}H_{52}O_2$
Molecular Weight: 456.751
Accurate Mass: 456.39673
Percentage Composition: C 81.52%; H 11.47%; O 7.01%
Biological Source: Isol. from *Hoya naumanii*
Physical Description: Cryst. (EtOH)
Melting Point: Mp 121-123°
Optical Rotation: $[\alpha]_D$ +66 (c, 1.2 in $CHCl_3$)

References:

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Anjaneyulu, A.S.R. *et al.*, *Indian J. Chem.*, 1972, **10**, 908, *(synth)*
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Fattorusso, E. *et al.*, *Phytochemistry*, 1983, **22**, 2868, *(isol)*
Baas, W.J. *et al.*, *Phytochemistry*, 1991, **30**, 1625, *(Methyl dihydroroburate)*
Jong, T.-T. *et al.*, *Acta Cryst. C*, 1994, **50**, 1326, *(cryst struct)*