



Optical Rotation: $[\alpha]_D^{30} +23.5$ (c, 0.85 in CHCl_3)

>>Derivative: 3-Ketone

Synonym(s): 29-Hydroxy-3-friedelanone

CAS Registry Number: 39903-21-4

Molecular Formula: $\text{C}_{30}\text{H}_{50}\text{O}_2$

Molecular Weight: 442.724

Accurate Mass: 442.38108

Percentage Composition: C 81.39%; H 11.38%; O 7.23%

Biological Source: Isol. from *Catha cassinoides*

Physical Description: Cryst. ($\text{MeOH}/\text{CHCl}_3$)

Melting Point: Mp 270-272°

Optical Rotation: $[\alpha]_D -24$ (c, 0.09 in CHCl_3)

>>Derivative: 3-Ketone, 29-aldehyde

Synonym(s): 3-Oxo-29-friedelanal

CAS Registry Number: 39903-23-6

Molecular Formula: $\text{C}_{30}\text{H}_{48}\text{O}_2$

Molecular Weight: 440.708

Accurate Mass: 440.36543

Percentage Composition: C 81.76%; H 10.98%; O 7.26%

Biological Source: Isol. from *Mortonia diffusa*

Physical Description: Cryst.

Melting Point: Mp 273-275°

>>Derivative: 3-Ketone, 29-carboxylic acid

Synonym(s): 3-Oxo-29-friedelanoic acid. Polpunonic acid. Maytenonic acid. Maytenoic acid

CAS Registry Number: 33600-93-0

Molecular Formula: $\text{C}_{30}\text{H}_{48}\text{O}_3$

Molecular Weight: 456.707

Accurate Mass: 456.360345

Percentage Composition: C 78.90%; H 10.59%; O 10.51%

Biological Source: Isol. from *Plenckia polpunea* and *Maytenus senegalensis*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 275°

Optical Rotation: $[\alpha]_D^{26} -32$ (c, 0.5 in MeOH)

UV: [neutral] λ_{max} 0 (end) (ϵ) (MeOH) (Derep)

>>Derivative: 3-Ketone, 29-carboxylic acid, Me ester

CAS Registry Number: 39903-11-2

Physical Description: Cryst. (MeOH)

Melting Point: Mp 226-227°

Optical Rotation: $[\alpha]_D^{20} -35$ (c, 1 in CHCl_3)

References:

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Prakash, O. *et al.*, *Magn. Reson. Chem.*, 1987, **25**, 39, (*cmr*)
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Martinez, V.M. *et al.*, *J. Nat. Prod.*, 1988, **51**, 793, (*struct*)
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Alves, J.S. *et al.*, *Magn. Reson. Chem.*, 2000, **38**, 201-206, (*pmr*, *cmr*)