



Calculated Log P Data: Log P 10.4 (uncertain value) (calc)

>>**Variant:** 3 β -form

Synonym(s): Betulinic acid. Melaleucin. Mairin. Gratiolone. Platanol. Platanolic acid. Betulic acid

CAS Registry Number: 472-15-1

Molecular Formula: C₃₀H₄₈O₃

Molecular Weight: 456.707

Accurate Mass: 456.360345

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

Biological Source: From *Betula* spp., *Cornus florida*, *Zizyphus vulgaris*, *Arbutus menziesii* and many other plant spp.

Biological Use/Importance: Shows antibacterial activity. Induces apoptosis. Shows antineoplastic activity against malignant melanoma

Physical Description: Cryst. (MeOH or by subl.)

Melting Point: Mp 275-278°

Optical Rotation: $[\alpha]_{\text{D}}^{23} +7.9$ (c. 0.57 in Py)

Solubility: BERDY SOL: Sol. Me₂CO, CHCl₃; poorly sol. hexane

Calculated Log P Data: Log P 8.44 (uncertain value) (calc)

Aldrich: 85505-7

Sigma: B3769

>>**Derivative:** Me ester

CAS Registry Number: 2259-06-5

Molecular Formula: C₃₁H₅₀O₃

Molecular Weight: 470.734

Accurate Mass: 470.375995

Percentage Composition: C 79.10%; H 10.71%; O 10.20%

Biological Source: Isol. from various plant spp.

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 221-224°

>>**Derivative:** 3-*O*-[α -D-Glucopyranosyl-(1 $\rightarrow$ 4)- β -D-glucopyranoside]

Synonym(s): Betulinic acid *O*- β -D-maltoside

CAS Registry Number: 103482-16-2

Molecular Formula: C₄₂H₆₈O₁₃

Molecular Weight: 780.991

Accurate Mass: 780.465995

Percentage Composition: C 64.59%; H 8.78%; O 26.63%

Biological Source: Isol. from the roots of *Acacia leucophloea*

>>**Derivative:** 3-*O*- α -L-Rhamnopyranoside

CAS Registry Number: 75365-42-3

Molecular Formula: C₃₆H₅₈O₇

Molecular Weight: 602.85

Accurate Mass: 602.418255

Percentage Composition: C 71.73%; H 9.70%; O 18.58%

Biological Source: Constit. of *Dillenia pentagyna*

Melting Point: Mp 290° (dec.)

Optical Rotation: $[\alpha]_{\text{D}}^{25} +28$ (Py)

>>**Derivative:** 3-*O*- β -D-Glucopyranoside, 28-*O*-[β -D-glucopyranosyl-(1 $\rightarrow$ 6)- β -D-glucopyranosyl] ester

Synonym(s): Cirensenoside P. Cirensenoside P

CAS Registry Number: 194474-46-9

Molecular Formula: C₄₈H₇₈O₁₈

Molecular Weight: 943.133

Accurate Mass: 942.51882

Percentage Composition: C 61.13%; H 8.34%; O 30.54%

Biological Source: Constit. of *Oplopanax elatus*

Physical Description: Cryst.

Melting Point: Mp 204-206°

Optical Rotation: $[\alpha]$