



Accurate Mass: 512.38656
Percentage Composition: C 77.30%; H 10.22%; O 12.48%
Biological Source: Isol. from *Callicarpa arborea*, *Loranthus falcatus* and other plants
Melting Point: Mp 218-220°
Optical Rotation: $[\alpha]_D +69$ (CHCl₃)

>>Derivative: 3-Hexadecanoyl

CAS Registry Number: 19833-14-8

Molecular Formula: C₄₆H₇₈O₄
Molecular Weight: 695.12
Accurate Mass: 694.59001
Percentage Composition: C 79.48%; H 11.31%; O 9.21%
Biological Source: Isol. from *Madhuca longifolia*
Melting Point: Mp 145°

>>Derivative: 3-O-(3-Carboxypropanoyl)
Synonym(s): Succinoyloleanolic acid

CAS Registry Number: 4847-30-7

Molecular Formula: C₃₄H₅₂O₆
Molecular Weight: 556.781
Accurate Mass: 556.37639
Percentage Composition: C 73.35%; H 9.41%; O 17.24%
Use/Importance: Solubilised deriv. of oleanolic acid showing increased bioavailability. Has been used as antiinflammatory and antihepatitis drug in East Asia
Melting Point: Mp 260-265°

>>Derivative: 3-O-(4-Hydroxycinnamoyl)(*E*-)
Synonym(s): *E*-Coumaroyloleanolic acid

CAS Registry Number: 151334-06-4

Molecular Formula: C₃₉H₅₄O₅
Molecular Weight: 602.853
Accurate Mass: 602.397125
Percentage Composition: C 77.70%; H 9.03%; O 13.27%
Biological Source: Constit. of *Securinega tinctoria* and *Casuarina equisetifolia*
Physical Description: Cryst. (CHCl₃)
Melting Point: Mp 141-141°. Mp 292-296 dec.°
Optical Rotation: $[\alpha]_D +104$ (c, 0.2 in dioxan)
UV: [neutral] $\lambda_{\max}$ 225 (ϵ 23700); 310 (ϵ 22400) (dioxan)

>>Derivative: 3-O-(4-Hydroxycinnamoyl)(*Z*-)
Synonym(s): *Z*-Coumaroyloleanolic acid

CAS Registry Number: 243667-92-7

Molecular Formula: C₃₉H₅₄O₅
Molecular Weight: 602.853
Accurate Mass: 602.397125
Percentage Composition: C 77.70%; H 9.03%; O 13.27%
Biological Source: Constit. of *Casuarina equisetifolia*
Physical Description: Cryst.
Melting Point: Mp 245-247°
Optical Rotation: $[\alpha]_D^{20} +89.5$ (c, 0.2 in Me₂CO)
UV: [neutral] $\lambda_{\max}$ 225 (ϵ 12900); 308 (ϵ 18100) (dioxan)