



Optical Rotation: $[\alpha]_{\text{D}}^{23} -12.5$ (c, 0.5 in MeOH)

>> **Derivative:** 3,4,11-Tris-*O*-(3,4,5-trihydroxybenzoyl)

Synonym(s): 3,4,11-Tri-*O*-galloylbergenin

CAS Registry Number: 128308-98-5

Molecular Formula: C₃₅H₂₈O₂₁

Molecular Weight: 784.594

Accurate Mass: 784.112315

Percentage Composition: C 53.58%; H 3.60%; O 42.82%

Biological Source: Isol. from the bark and leaf of *Mallotus japonicus*

Physical Description: Amorph. powder + 1H₂O

Optical Rotation: $[\alpha]_{\text{D}}^{23} -10.2$ (c, 0.5 in MeOH)

>> **Derivative:** 11-*O*-(*E*-4-Hydroxycinnamoyl)

Synonym(s): 11-*O*-(*E-p*-Coumaroyl)bergenin

CAS Registry Number: 145204-85-9

Molecular Formula: C₂₃H₂₂O₁₁

Molecular Weight: 474.42

Accurate Mass: 474.116215

Percentage Composition: C 58.23%; H 4.67%; O 37.10%

Biological Source: Isol. from the bark of *Peltophorum africanum*

Physical Description: Amorph. powder

Melting Point: Mp 206-208°

>> **Derivative:** 8,10-Di-Me ether

Synonym(s): Di-*O*-methylbergenin

CAS Registry Number: 33815-57-5

Molecular Formula: C₁₆H₂₀O₉

Molecular Weight: 356.329

Accurate Mass: 356.110735

Percentage Composition: C 53.93%; H 5.66%; O 40.41%

Biological Source: Constit. of *Ardisia japonica* and *Macaranga peltata*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 196°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -62.7$ (c, 1 in MeOH)

>> **Derivative:** Penta-Me ether

Physical Description: Needles (H₂O)

Melting Point: Mp 106°

>> **Derivative:** *O*-De-Me

Synonym(s): Norbergenin. Desmethylbergenin. Demethylbergenin

CAS Registry Number: 79595-97-4

Molecular Formula: C₁₃H₁₄O₉

Molecular Weight: 314.248

Accurate Mass: 314.063785

Percentage Composition: C 49.69%; H 4.49%; O 45.82%

Biological Source: Constit. of *Woodfordia fruticosa*, *Saxifraga stolonifera* and *Mallotus japonicus*

Physical Description: Prisms or needles (H₂O) (dimorph.)

Melting Point: Mp 277-278° (275-277° dec.) (prisms). Mp 178-180° (needles)

Optical Rotation: $[\alpha]_{\text{D}}^{17} -22.9$ (c, 0.393 in H₂O)

Other Data: Incorrect (enantiomeric) abs. config. shown in the paper descr. this compd.