



CAS Registry Number: 133442-96-3

Molecular Formula: $C_{27}H_{32}O_{14}$

Molecular Weight: 580.541

Accurate Mass: 580.17921

Percentage Composition: C 55.86%; H 5.56%; O 38.58%

Biological Source: Constit. of *Hedyotis diffusa*

Physical Description: Cryst.

Melting Point: Mp 122-124°

Optical Rotation: $[\alpha]_D^{20} -164$ (MeOH)

>>Derivative: 6-Epimer

Synonym(s): Deacetylasperulosidic acid

CAS Registry Number: 14259-55-3

Molecular Formula: $C_{16}H_{22}O_{11}$

Molecular Weight: 390.343

Accurate Mass: 390.116215

Percentage Composition: C 49.23%; H 5.68%; O 45.09%

Biological Source: Isol. from *Rubia peregrina* and *Rubia tinctorum*

Physical Description: Amorph.

Optical Rotation: $[\alpha]_D^{20} +26$ (c, 1.7 in MeOH)

>>Derivative: 6-Epimer, Me ester

CAS Registry Number: 52613-28-2

Molecular Formula: $C_{17}H_{24}O_{11}$

Molecular Weight: 404.37

Accurate Mass: 404.131865

Percentage Composition: C 50.50%; H 5.98%; O 43.52%

Biological Source: Isol. from numerous plant spp. incl. *Gardenia jasminoides* and *Mussaenda pubescens*. Component of Zhi Zi

Physical Description: Powder

Optical Rotation: $[\alpha]_D^{23} +22.6$ (c, 1.33 in MeOH)

>>Derivative: 6-Epimer, Et ester

CAS Registry Number: 210109-13-0

Molecular Formula: $C_{18}H_{26}O_{11}$

Molecular Weight: 418.397

Accurate Mass: 418.147515

Percentage Composition: C 51.67%; H 6.26%; O 42.06%

Biological Source: Constit. of *Hedyotis hedyotideae*

Physical Description: Powder

UV: [neutral] λ_{max} 233 () (MeOH)

>>Derivative: 6-Epimer, 10-Ac

Synonym(s): Asperulosidic acid

CAS Registry Number: 25368-11-0

Molecular Formula: $C_{18}H_{24}O_{12}$

Molecular Weight: 432.38

Accurate Mass: 432.12678

Percentage Composition: C 50.00%; H 5.59%; O 44.40%

Biological Source: Constit. of *Rubia peregrina* and *Rubia tinctorum*

Physical Description: Amorph.

Optical Rotation: $[\alpha]_D^{20} +13.3$ (c, 1.2 in MeOH)