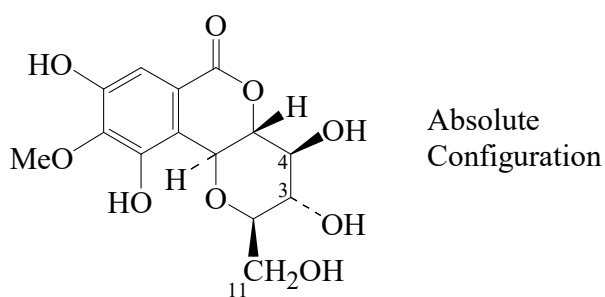




>>Entry Name: **Bergenin**

ENTRY UNDER REVIEW

Synonym(s): 3,4,4a,10b-Tetrahydro-3,4,8,10-tetrahydroxy-2-(hydroxymethyl)-9-methoxyprano[3,2-c][2]benzopyran-6(2*H*)-one, 9Cl. Corylopsin. Vakerin. Peltophorin. Bergenitol. Ardisinic acid. Cuscutin



CAS Registry Number: 477-90-7

Molecular Formula: C₁₄H₁₆O₉

Molecular Weight: 328.275

Accurate Mass: 328.079435

Percentage Composition: C 51.22%; H 4.91%; O 43.86%

Biological Source: Constit. of *Astilbe*, *Rodgersia*, *Peltoboykinia* and *Bergenia* spp. Also *Corylopsis*, *Mallotus*, *Caesalpinia*, *Shorea*, *Ardisia*, *Cuscuta*, *Connarus* and others

Use/Importance: Antitussive agent

Physical Description: Prisms + 1H₂O (H₂O)

Melting Point: Mp 138-139°. Mp 230° (double Mp)

Optical Rotation: [α]_D -47.3 (H₂O). [α]_D -37.3 (EtOH)

Calculated Log P Data: Log P -2.03 (calc)

UV: [neutral] λ_{max} 220 (ε 26300); 275 (ε 8320) (MeOH) (Berdy)

Sigma: B6776

>>Derivative: Penta-Ac

Melting Point: Mp 199-203° (192.5-193.5°)

>>Derivative: 11-*O*-(4-Hydroxybenzoyl)

Synonym(s): 11-*O*-(4-Hydroxybenzoyl)bergenin

CAS Registry Number: 189691-23-4

Molecular Formula: C₂₁H₂₀O₁₁

Molecular Weight: 448.382

Accurate Mass: 448.100565

Percentage Composition: C 56.25%; H 4.50%; O 39.25%

Biological Source: Constit. of *Bergenia ciliata*

>>Derivative: 11-*O*-(3,4-Dihydroxybenzoyl)

Synonym(s): 11-*O*-(3,4-Dihydroxybenzoyl)bergenin

CAS Registry Number: 189691-24-5

Molecular Formula: C₂₁H₂₀O₁₂

Molecular Weight: 464.382

Accurate Mass: 464.09548

Percentage Composition: C 54.32%; H 4.34%; O 41.34%

Biological Source: Constit. of *Bergenia ciliata*

>>Derivative: 11-*O*-(4-Hydroxy-3-methoxybenzoyl)

Synonym(s): 11-*O*-Vanilloylbergenin

CAS Registry Number: 167962-93-8

Molecular Formula: C₂₂H₂₂O₁₂

Molecular Weight: 478.409

Accurate Mass: 478.11113

Percentage Composition: C 55.23%; H 4.63%; O 40.13%

Biological Source: Constit. of the root of *Ardisia crenata*