



Synonym(s): 1,2,8-Trihydroxy-6-methoxyxanthone. **Swertianine.** Gentiakochianin. Gentiachochianin

CAS Registry Number: 20882-75-1

Molecular Formula: C₁₄H₁₀O₆

Molecular Weight: 274.229

Accurate Mass: 274.04774

Percentage Composition: C 61.32%; H 3.68%; O 35.01%

Biological Source: Isol. from *Gentiana bavarica*, *Gentiana kochiana* and *Swertia japonica*

Melting Point: Mp 226-227° (221°)

>>Derivative: 6-Me ether, 2-*O*-β-D-xylopyranoside

CAS Registry Number: 136832-01-4

Molecular Formula: C₁₉H₁₈O₁₀

Molecular Weight: 406.345

Accurate Mass: 406.09

Percentage Composition: C 56.16%; H 4.46%; O 39.37%

Biological Source: Constit. of *Swertia mussotii*

>>Derivative: 6-Me ether, 1-*O*-β-D-glucopyranoside

CAS Registry Number: 53497-31-7

Molecular Formula: C₂₀H₂₀O₁₁

Molecular Weight: 436.371

Accurate Mass: 436.100565

Percentage Composition: C 55.05%; H 4.62%; O 40.33%

Biological Source: Constit. of *Gentiana ciliata*, *Gentiana verna* and *Swertia petiolata*

>>Derivative: 6-Me ether, 8-*O*-β-D-glucopyranoside

CAS Registry Number: 66157-62-8

Molecular Formula: C₂₀H₂₀O₁₁

Molecular Weight: 436.371

Accurate Mass: 436.100565

Percentage Composition: C 55.05%; H 4.62%; O 40.33%

Biological Source: Constit. of *Gentiana ciliata*, *Swertia angustifolia* and *Swertia paniculata*

Melting Point: Mp 200 dec.°

>>Derivative: 6-Me ether, 1-*O*-[β-D-xylopyranosyl-(1→2)-β-D-glucopyranoside]

CAS Registry Number: 169135-35-7

Molecular Formula: C₂₅H₂₈O₁₅

Molecular Weight: 568.487

Accurate Mass: 568.142825

Percentage Composition: C 52.82%; H 4.96%; O 42.22%

Biological Source: Constit. of *Gentiana karelinii* (Gentianaceae)

>>Derivative: 6-Me ether, 1-*O*-[β-D-xylopyranosyl-(1→6)-β-D-glucopyranoside]

Synonym(s): Gentiakochianoside

CAS Registry Number: 26097-43-8

Molecular Formula: C₂₅H₂₈O₁₅

Molecular Weight: 568.487

Accurate Mass: 568.142825

Percentage Composition: C 52.82%; H 4.96%; O 42.22%

Biological Source: Constit. of *Gentiana ciliata*, *Gentiana kochiana* and *Swertia* spp.

Physical Description: Yellow needles + ½H₂O (H₂O)

Melting Point: Mp 206-207°