



Percentage Composition: C 61.44%; H 4.85%; O 33.70%

Biological Source: Constit. of roots of *Frasera albicaulis*

Physical Description: Yellow prisms (CH₂Cl₂/hexane)

Melting Point: Mp 145-146° (123.5-124°)

>>**Derivative:** 2,3,4,7-Tetra-Me ether

Synonym(s): 1-Hydroxy-2,3,4,7-tetramethoxyxanthone

CAS Registry Number: 14103-09-4

Molecular Formula: C₁₇H₁₆O₇

Molecular Weight: 332.309

Accurate Mass: 332.089605

Percentage Composition: C 61.44%; H 4.85%; O 33.70%

Biological Source: Obt. from roots of *Frasera caroliniensis*

Physical Description: Dark yellow cryst. (CH₂Cl₂/hexane/MeOH)

Melting Point: Mp 117.8-118.8°

>>**Derivative:** 2,3,4,7-Tetra-Me ether, 1-*O*-[β-D-xylopyranosyl-(1→6)-β-D-glucopyranoside]

CAS Registry Number: 167962-38-1

Molecular Formula: C₂₈H₃₄O₁₆

Molecular Weight: 626.567

Accurate Mass: 626.18469

Percentage Composition: C 53.67%; H 5.47%; O 40.86%

Biological Source: Constit. of *Halenia corniculata* and *Veratrilla baillonii*

Physical Description: Pale yellow powder

Melting Point: Mp 142-145°

Optical Rotation: [α]_D²⁵ -42 (c, 1 in H₂O)

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

Synonym(s): 1,2,3,4,7-Pentamethoxyxanthone. **Polygalaxanthone B**

CAS Registry Number: 14254-96-7

Molecular Formula: C₁₈H₁₈O₇

Molecular Weight: 346.336

Accurate Mass: 346.105255

Percentage Composition: C 62.42%; H 5.24%; O 32.34%

Biological Source: Isol. from roots of *Polygala paenea*

Physical Description: Cryst. (CH₂Cl₂/hexane or MeOH)

Melting Point: Mp 122-123°

>>**Derivative:** 2,3,4-Tri-Me-ether, 1-*O*-[β-D-xylopranosyl-(1→6)-β-D-glucopyranoside]

Synonym(s): **Veratriloside B**

CAS Registry Number: 180965-41-7

Molecular Formula: C₂₇H₃₂O₁₆

Molecular Weight: 612.54

Accurate Mass: 612.16904

Percentage Composition: C 52.94%; H 5.27%; O 41.79%

Biological Source: Constit. of *Veratrilla baillonii*

Melting Point: Mp 160°

UV: [neutral] $\lambda_{\max}$ 202 (); 243 (); 263 (); 291 (); 378 () (MeOH)

>>**Derivative:** 2,3,4,7-Tetra-Me ether, 1-*O*-[β-D-xylopyranosyl-(1→6)-β-D-glucopyranoside]

Synonym(s): **Veratriloside A**

Molecular Formula: C₂₈H₃₄O₁₆

Molecular Weight: 626.567

Accurate Mass: 626.18469

Percentage Composition: C 53.67%; H 5.47%; O 40.86%

Biological Source: Constit. of *Veratrilla baillonii*

Melting Point: Mp 125°

References: