



Synonym(s): 2'-Hydroxy-4',6'-dimethoxyacetophenone. **Xanthoxylin.** Brevifolin. 6-Methoxypaeonol

CAS Registry Number: 90-24-4

Molecular Formula: C₁₀H₁₂O₄

Molecular Weight: 196.202

Accurate Mass: 196.07356

Percentage Composition: C 61.22%; H 6.16%; O 32.62%

Biological Source: Obt. from *Xanthoxylum piperitum*, *Xanthoxylum alatum* (Rutaceae), *Artemisia brevifolia* (Compositae), *Hippomane mancinella* and *Sapium sebiferum* (Euphorbiaceae)

Physical Description: Cryst. (EtOH)

Melting Point: Mp 85-88°

Rare Chemicals Library: S43850-2

Sigma: H3655

>> **Derivative:** 2',4'-Di-Me ether, Ac

CAS Registry Number: 59263-72-8

Molecular Formula: C₁₂H₁₄O₅

Molecular Weight: 238.24

Accurate Mass: 238.084125

Percentage Composition: C 60.50%; H 5.92%; O 33.58%

Physical Description: Prisms (EtOH)

Melting Point: Mp 107°

>> **Derivative:** 2',4'-Di-Me ether, oxime

Molecular Formula: C₁₀H₁₃NO₄

Molecular Weight: 211.217

Accurate Mass: 211.084459

Percentage Composition: C 56.87%; H 6.20%; N 6.63%; O 30.30%

Melting Point: Mp 108-110°

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

CAS Registry Number: 87432-28-8

Molecular Formula: C₂₁H₃₀O₁₃

Molecular Weight: 490.46

Accurate Mass: 490.168645

Percentage Composition: C 51.43%; H 6.17%; O 42.41%

Biological Source: Constit. of *Sapium sebiferum*

Physical Description: Needles (MeOH)

Melting Point: Mp 188-190°

Optical Rotation: $[\alpha]_D^{26} -41.7$ (Py)

UV: [neutral] $\lambda_{\max}$ 225 (ϵ 14520); 273 (ϵ 7570) (EtOH)

>> **Derivative:** 2',6'-Di-Me ether

Synonym(s): 4'-Hydroxy-2',6'-dimethoxyacetophenone

CAS Registry Number: 13246-14-5

Molecular Formula: C₁₀H₁₂O₄

Molecular Weight: 196.202

Accurate Mass: 196.07356

Percentage Composition: C 61.22%; H 6.16%; O 32.62%

Biological Source: Constit. of the bulbs of *Pancratium maritimum*

Physical Description: Pale yellow needles (Me₂CO)

Melting Point: Mp 76-78°