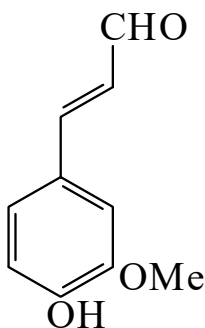




>>Entry Name: Coniferaldehyde

Synonym(s): 3-(4-Hydroxy-3-methoxyphenyl)-2-propenal, 9CI. 4-Hydroxy-3-methoxycinnamaldehyde. Ferulaldehyde. Hadromal. Coniferylaldehyde. Ferulaaldehyde



CAS Registry Number: 458-36-6

Molecular Formula: C₁₀H₁₀O₃

Molecular Weight: 178.187

Accurate Mass: 178.062995

Percentage Composition: C 67.41%; H 5.66%; O 26.94%

Aldrich: 38205-1

>>Variant: (*E*)-form

CAS Registry Number: 20649-42-7

Molecular Formula: C₁₀H₁₀O₃

Molecular Weight: 178.187

Accurate Mass: 178.062995

Percentage Composition: C 67.41%; H 5.66%; O 26.94%

Biological Source: Occurs in wood, free and as component of lignin. Found extensively in brandies etc. as leaching prod. from wood

Physical Description: Light-yellow needles (petrol)

Melting Point: Mp 84° (75-76°)

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 265-266°

>>Derivative: 4'-*O*-β-D-Glucopyranoside

Synonym(s): Kalopanaxin A. Coniferaldehyde 4'-*O*-β-D-glucopyranoside

CAS Registry Number: 136173-83-6

Molecular Formula: C₁₆H₂₀O₈

Molecular Weight: 340.329

Accurate Mass: 340.11582

Percentage Composition: C 56.47%; H 5.92%; O 37.61%

Biological Source: Constit. of the bark of *Kalopanax pictus*

Physical Description: Needles (H₂O)

Melting Point: Mp 209-211°

Optical Rotation: [α]_D -39.3 (c, 0.3 in Py)

>>Derivative: Ac

CAS Registry Number: 83071-67-4

Molecular Formula: C₁₂H₁₂O₄

Molecular Weight: 220.224

Accurate Mass: 220.07356

Percentage Composition: C 65.45%; H 5.49%; O 29.06%

Physical Description: Cryst.

Melting Point: Mp 101-103° (98-100°)