



>>Derivative: Tri-Me ether

Synonym(s): 3-(3,4,5-Trimethoxyphenyl)-2-propenoic acid, 9CI. 3,4,5-Trimethoxycinnamic acid

CAS Registry Number: 20329-98-0

Extra CAS Registry Numbers(s): 90-50-6

Molecular Formula: C₁₂H₁₄O₅

Molecular Weight: 238.24

Accurate Mass: 238.084125

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

Biological Source: Constit. of *Piper tuberculatum*, *Tecoma radicans* and others

Physical Description: Needles (H₂O)

Melting Point: Mp 126.5-127°

>>Derivative: Tri-Me ether, Me ester

Synonym(s): Methyl 3,4,5-trimethoxycinnamate

CAS Registry Number: 20329-96-8

Extra CAS Registry Numbers(s): 7560-49-8

Molecular Formula: C₁₃H₁₆O₅

Molecular Weight: 252.266

Accurate Mass: 252.099775

Percentage Composition: C 61.90%; H 6.39%; O 31.71%

Biological Source: Isol. from *Aragoa lucidula*, *Hedysarum polybotrys*, *Piper longum* and other plant spp.

Physical Description: Needles (MeOH)

Melting Point: Mp 99-100°

>>Derivative: Tri-Me ether, [α-L-arabinofuranosyl-(1→3)-[β-D-glucopyranosyl-(1→6)]-β-D-glucopyranosyl] ester

Molecular Formula: C₂₉H₄₂O₁₉

Molecular Weight: 694.639

Accurate Mass: 694.232035

Percentage Composition: C 50.14%; H 6.09%; O 43.76%

Biological Source: Constit. of soybean molasses (*Glycine* sp.)

Physical Description: Amorph. powder

Optical Rotation: [α]_D²⁵ -19.7 (c, 0.87 in MeOH)

UV: [neutral] λ_{max} 235 (log ε 4.18); 283 (log ε 4.36) (MeOH)

>>Derivative: Tri-Me ether, amide

Synonym(s): 3-(3,4,5-Trimethoxyphenyl)-2-propenamide, 9CI. Cintriamide, USAN. Cintramide, INN. CI 36746

CAS Registry Number: 5588-21-6

Molecular Formula: C₁₂H₁₅NO₄

Molecular Weight: 237.255

Accurate Mass: 237.100109

Percentage Composition: C 60.75%; H 6.37%; N 5.90%; O 26.97%

Biological Source: Isol. from *Alstonia lenormandii*

Use/Importance: Tranquilliser

Melting Point: Mp 155-157°

Calculated Log P Data: Log P 0.32 (calc)

Hazard & Toxicity: LD₅₀ (mus, ipr) 1000 mg/kg

>>Derivative: Tri-Me ether, 2-methylpropylamide

Synonym(s): 3,4,5-Trimethoxycinnamic acid isobutylamide. N-Isobutyl-3,4,5-trimethoxycinnamide

CAS Registry Number: 10511-98-5

Molecular Formula: C₁₆H₂₃NO₄

Molecular Weight: 293.362

Accurate Mass: 293.162709

Percentage Composition: C 65.51%; H 7.90%; N 4.77%; O 21.82%

Biological Source: Alkaloid from *Piper amalago*