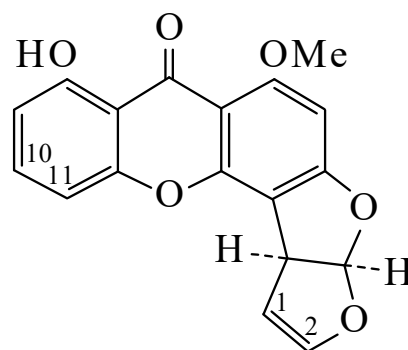




>>Entry Name: Sterigmatocystin

Synonym(s): 3*a*,12*c*-Dihydro-8-hydroxy-6-methoxy-7*H*-furo[3',2':4,5]furo[2,3-*c*]xanthen-7-one, 9CI



Absolute
conf guration

CAS Registry Number: 10048-13-2

Molecular Formula: C₁₈H₁₂O₆

Molecular Weight: 324.289

Accurate Mass: 324.06339

Percentage Composition: C 66.67%; H 3.73%; O 29.60%

Biological Source: Metab. of *Aspergillus versicolor* and *Chaetomium* spp.

Biological Use/Importance: Mycotoxin

Physical Description: Pale yellow needles

Melting Point: Mp 246 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{21} -387$ (c, 0.424 in CHCl₃)

UV: [neutral] λ_{max} 205 (ϵ 25100); 233 (ϵ 30900); 246 (ϵ 33900); 325 (ϵ 16000) (EtOH) (Derep)

Hazard & Toxicity: Carcinogenic

Aldrich: 85629-0

Sigma: S3255

Supelco: R47-4655

>>Derivative: Me ether

Synonym(s): *O*-Methylsterigmatocystin

CAS Registry Number: 17878-69-2

Molecular Formula: C₁₉H₁₄O₆

Molecular Weight: 338.316

Accurate Mass: 338.07904

Percentage Composition: C 67.45%; H 4.17%; O 28.37%

Biological Source: Metab. of *Aspergillus flavus*

Melting Point: Mp 265 dec.°

Sigma: M8637

>>Derivative: *O*-De-Me

Synonym(s): De-*O*-methylsterigmatocystin

CAS Registry Number: 30461-65-5

Molecular Formula: C₁₇H₁₀O₆

Molecular Weight: 310.262

Accurate Mass: 310.04774

Percentage Composition: C 65.81%; H 3.25%; O 30.94%

Biological Source: Metab. of *Aspergillus versicolor*

Biological Use/Importance: Cytotoxic mycotoxin

Melting Point: Mp 253-255°

Optical Rotation: $[\alpha]_{\text{D}}^{24} -483$ (c, 0.2 in CHCl₃)