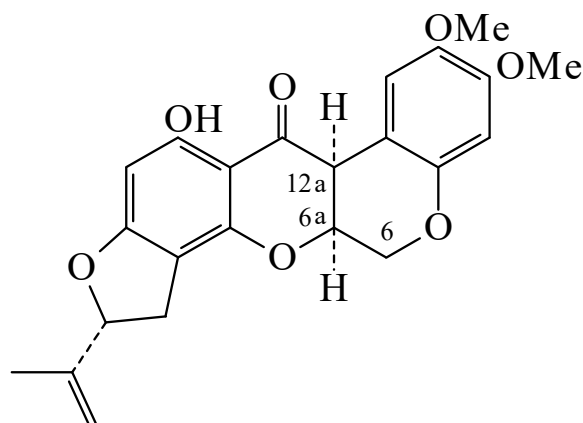




>>Entry Name: Sumatrol

ENTRY UNDER REVIEW

Synonym(s): 1,2,12,12a-Tetrahydro-5-hydroxy-8,9-dimethoxy-2-(1-methylethenyl)[1]benzopyrano[3,4-*b*]furo[2,3-*h*][1]benzopyran-6(12*H*)-one



CAS Registry Number: 82-10-0

Molecular Formula: C₂₃H₂₂O₇

Molecular Weight: 410.423

Accurate Mass: 410.136555

Percentage Composition: C 67.31%; H 5.40%; O 27.29%

Biological Source: Isol. from *Crotalaria burhia*, *Derris malaccensis*, *Millettia auriculata*, *Piscidia erythrina* and *Tephrosia toxicaria*

Physical Description: Needles (EtOH or Me₂CO)

Melting Point: Mp 183°. Mp 195-196° (dimorph.)

Optical Rotation: [α]_D -184 (c, 1.335 in C₆H₆)

Solubility: Spar. sol. dil. NaOH

>>Derivative: Ac

Melting Point: Mp 218-219°

Optical Rotation: [α]_D +57 (C₆H₆). [α]_D -20.5 (Me₂CO)

>>Derivative: Oxime

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 245-247°

>>Derivative: 6 α -Hydroxy

Synonym(s): Villosin. 6-Hydroxysumatrol

CAS Registry Number: 65160-15-8

Molecular Formula: C₂₃H₂₂O₈

Molecular Weight: 426.422

Accurate Mass: 426.13147

Percentage Composition: C 64.78%; H 5.20%; O 30.02%

Biological Source: Constit. of the pods of *Tephrosia villosa*

Melting Point: Mp 133°

>>Derivative: 6 α ,12 α -Didehydro

Synonym(s): Villosol†

CAS Registry Number: 60077-62-5

Molecular Formula: C₂₃H₂₀O₇

Molecular Weight: 408.407

Accurate Mass: 408.120905

Percentage Composition: C 67.64%; H 4.94%; O 27.42%

Biological Source: Constit. of the pods of *Tephrosia villosa*

Physical Description: Greenish-yellow needles (CHCl₃/MeOH)

Melting Point: Mp 197°

Optical Rotation: [α]_D²⁶ -80.9 (c, 0.495 in CHCl₃)