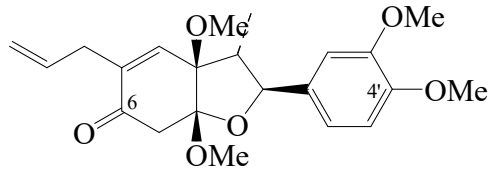
>>**Entry Name: Piperenone**
Synonym(s): 2-(3,4-Dimethoxyphenyl)-3,3*a*,7,7*a*-tetrahydro-3*a*,7*a*-dimethoxy-3-methyl-5-(2-propenyl)-6(2*H*)-benzofuranone, 9Cl



CAS Registry Number: 57625-31-7
Related CAS Registry Numbers(s): 61307-69-5 128397-58-0 128515-14-0

Molecular Formula: $C_{22}H_{28}O_6$
Molecular Weight: 388.46
Accurate Mass: 388.18859
Percentage Composition: C 68.02%; H 7.26%; O 24.71%

Biological Source: Isol. from *Piper futokadsura*
Use/Importance: Antifeedant
Melting Point: Mp 86-88°
Optical Rotation: $[\alpha]_D$ –129 (c, 1.16 in MeOH)
UV: [neutral] λ_{max} 231 (); 280 (); 285 () (MeOH)

>>**Derivative:** 4'-*O*-De-Me
Synonym(s): Liliflone

CAS Registry Number: 87402-80-0

Molecular Formula: $C_{21}H_{26}O_6$
Molecular Weight: 374.433
Accurate Mass: 374.17294
Percentage Composition: C 67.36%; H 7.00%; O 25.64%
Biological Source: Constit. of *Magnolia liliflora*
Physical Description: Viscous oil

>>**Derivative:** 6α-Alcohol
Synonym(s): 2-(3,4-Dimethoxyphenyl)-2,3,3*a*,6,7,7*a*-hexahydro-3*a*,7*a*-dimethoxy-3-methyl-5-(2-propenyl)-6-benzofuranol, 9Cl

CAS Registry Number: 61307-70-8

Molecular Formula: $C_{22}H_{30}O_6$
Molecular Weight: 390.475
Accurate Mass: 390.20424
Percentage Composition: C 67.67%; H 7.74%; O 24.58%
Biological Source: Constit. of *Piper wightii*
Melting Point: Mp 72.5-73.5° (semisynthetic)
Optical Rotation: $[\alpha]_D^{22}$ –228 (c, 0.3 in MeOH)

References:

Matsui, K. *et al.*, *Agric. Biol. Chem.*, 1976, **40**, 1113-1118, *(isol, struct, ms, uv, pmr, synth)*
Matsui, K. *et al.*, *Bull. Chem. Soc. Jpn.*, 1976, **49**, 62, *(cryst struct)*
Iida, T. *et al.*, *Phytochemistry*, 1983, **22**, 763, *(Liliflone)*
Tyagi, O.D. *et al.*, *Acta Chem. Scand.*, 1994, **48**, 1007-1011, *(6-alcohol, isol, pmr, cmr, ms)*
Koul, J.L. *et al.*, *Phytochemistry*, 1996, **41**, 1097, *(isol, uv, ir, pmr, cmr)*