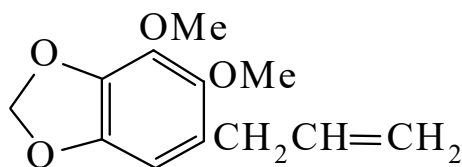




>>Entry Name: Dillapiol

ENTRY UNDER REVIEW

Synonym(s): 4,5-Dimethoxy-6-(2-propenyl)-1,3-benzodioxole, 9CI. 1-Allyl-2,3-dimethoxy-4,5-methylenedioxybenzene



CAS Registry Number: 484-31-1

Type of Compound Code(s): VG0060 XA4850 WA2800 WI5000

Molecular Formula: C<sub>12</sub>H<sub>14</sub>O<sub>4</sub>

Molecular Weight: 222.24

Accurate Mass: 222.08921

Percentage Composition: C 64.85%; H 6.35%; O 28.80%

Biological Source: Constit. of Japanese, Indian (*Anethum sowa*) and European (*Anethum graveolens*) dill oils, *Bunium* spp. seed oils, *Heckeria umbellata*, *Piper* spp. and *Oenanthe stolonifera* oil

Use/Importance: Shows insecticidal props. Synergist for pyrethrins

Melting Point: Mp 29.5°

Boiling Point: Bp 285°. Bp<sub>11</sub> 162°. Bp<sub>0.8</sub> 100°

Refractive Index: n<sub>D</sub><sup>25</sup> 1.5278

Calculated Log P Data: Log P 1.95 (calc)

Fluka: 38485

>>Derivative: Picrate

Melting Point: Mp 81.5°

References:

Baker, W. *et al.*, *J.C.S.*, 1934, 1682, (*synth*)

Dallacker, F., *Chem. Ber.*, 1969, **102**, 2663, (*synth*)

Fujita, H. *et al.*, *Bull. Chem. Soc. Jpn.*, 1973, **46**, 3553, (*synth*)

Bernhard, H.O. *et al.*, *Helv. Chim. Acta*, 1978, **61**, 2273, (*isol*)

*Fenaroli's Handbook of Flavor Ingredients*, 3rd edn., (ed. Burdock, G.A.), CRC Press, 1995, **1**, 112, (*rev*)

Martins, A.P. *et al.*, *Phytochemistry*, 1998, **49**, 2019-2033, (*isol*)

Benevides, P.J.C. *et al.*, *Phytochemistry*, 1999, **52**, 339-343, (*isol, pmr, cmr*)