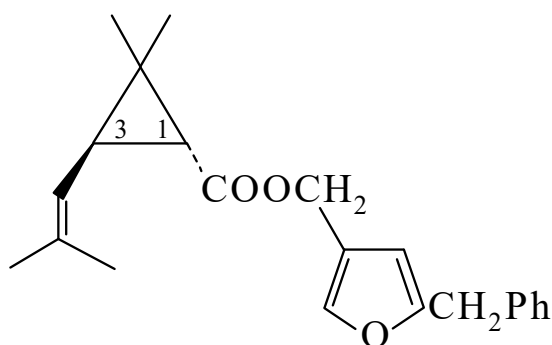




>>Entry Name: Resmethrin, ANSI, BSI, ISO, JMAF

Synonym(s): [5-(Phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate, 9CI. 5-Benzyl-3-(furylmethyl) chrysanthemate. Chryson. SBP 1382. Benzyfuroline. Penncapthrin. Chrysron



CAS Registry Number: 10453-86-8

Related CAS Registry Numbers(s): 10453-54-0 10453-55-1 10453-56-2 31182-61-3 33911-28-3 50389-86-1

Molecular Formula: $C_{22}H_{26}O_3$

Molecular Weight: 338.446

Accurate Mass: 338.188195

Percentage Composition: C 78.08%; H 7.74%; O 14.18%

Use/Importance: Synthetic pyrethroid insecticide

Calculated Log P Data: Log P 6.09 (calc)

Other Data: Both isomers possess insecticidal activity

Hazard & Toxicity: Occup. exposure to pyrethroids can cause paresthesia and respiratory irritation. LD₅₀ (rat, orl) 1244 mg/kg

>>Variant: (1*R*,3*R*)-form

Synonym(s): (+)-*trans*-form. Bioresmethrin, INN. Isathrine. Savenna

CAS Registry Number: 28434-01-7

Molecular Formula: $C_{22}H_{26}O_3$

Molecular Weight: 338.446

Accurate Mass: 338.188195

Percentage Composition: C 78.08%; H 7.74%; O 14.18%

Boiling Point: Bp_{0.0008} 174°

Optical Rotation: $[\alpha]_D^{20} -7.8$ (c, 5 in Me₂CO)

Refractive Index: n_D²⁰ 1.5346

Hazard & Toxicity: LD₅₀ (rat, orl) 1244 mg/kg

>>Variant: (1*R*,3*S*)-form

Synonym(s): (+)-*cis*-form. Cismethrin

CAS Registry Number: 35764-59-1

Molecular Formula: $C_{22}H_{26}O_3$

Molecular Weight: 338.446

Accurate Mass: 338.188195

Percentage Composition: C 78.08%; H 7.74%; O 14.18%

References: