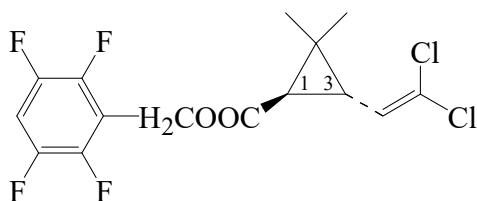




>>Entry Name: Transfluthrin, BSI

Synonym(s): (2,3,5,6-Tetrafluorophenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate, 9Cl. Baygon. Bayothrin. Benfluthrin. NAK 4455



CAS Registry Number: 67640-15-7

Related CAS Registry Numbers(s): 106757-84-0

Molecular Formula: C₁₅H₁₂Cl₂F₄O₂

Molecular Weight: 371.158

Accurate Mass: 370.015046

Percentage Composition: C 48.54%; H 3.26%; Cl 19.10%; F 20.47%; O 8.62%

Biological Use/Importance: Effector on presynaptic voltage gate Na channels in nerve membranes. Insecticide, active against mosquitoes, flies, cockroaches and whitefly by inhalation and contact.

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

Synonym(s): (+)-*trans*-form

CAS Registry Number: 118712-89-3

Molecular Formula: C₁₅H₁₂Cl₂F₄O₂

Molecular Weight: 371.158

Accurate Mass: 370.015046

Percentage Composition: C 48.54%; H 3.26%; Cl 19.10%; F 20.47%; O 8.62%

Physical Description: Cryst.

Melting Point: Mp 32°

Optical Rotation: $[\alpha]_D^{29} +15.3$ (c, 0.5 in CHCl₃)

Hazard & Toxicity: LD₅₀ (rat, orl) >5000 mg/kg

References:

Ger. Pat., 1978, Bayer, 2 658 074; CA, **89**, 129278p, (*synth*)

Ger. Pat., 1988, Bayer, 3 705 224; CA, **110**, 74909q, (*synth, activity*)

Farnham, A.W. *et al.*, *Pestic. Sci.*, 1995, **44**, 277-281, (*activity*)

Pesticide Manual, 12th edn., 2000, No. 769