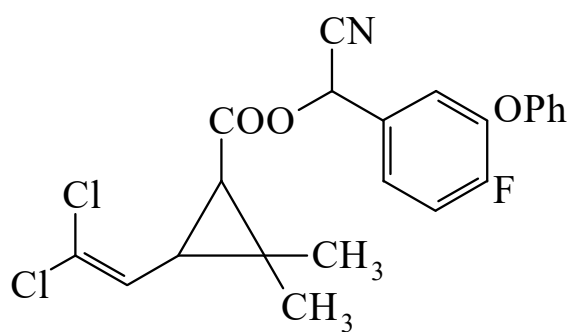




>>Entry Name: Cyfluthrin, BAN, BSI, ISO

Synonym(s): Cyano(4-fluoro-3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate, 9CI. α -Cyano-4-fluoro-3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate. Baythroid. Cyfluthin. Cyfoxylate. Eulan SP. Bay l 1704. FCR 1272. Responsar. Solfac. Bulldock. Beta-cyfluthrin, BSI, ISO. OMS 2012



CAS Registry Number: 68359-37-5

Molecular Formula: C₂₂H₁₈Cl₂FNO₃

Molecular Weight: 434.293

Accurate Mass: 433.064776

Percentage Composition: C 60.84%; H 4.18%; Cl 16.33%; F 4.37%; N 3.23%; O 11.05%

Use/Importance: Pyrethroid insecticide

Physical Description: Pasty yellow mass

Melting Point: Mp 60 approx.°

Calculated Log P Data: Log P 6.43 (calc)

Other Data: Coml. product is a mixt. of stereoisomers

Hazard & Toxicity: Fl. p. 107°. LD₅₀ (rat, orl) ca. 900 mg/kg. Occup. exposure to pyrethroids can cause paresthesia and respiratory irritation

References:

- Eur. Pat.*, 1981, *Bayer*, 24 588; *CA*, **95**, 42696
Hammann, I. *et al.*, *Pflanzenschutz-Nachr.*, 1981, **34**, 121, (rev, synth, props, tox, use)
Behrenz, W. *et al.*, *Pflanzenschutz-Nachr.*, 1983, **36**, 127, (rev, tox, activity, use)
Noble, R.M. *et al.*, *Pestic. Sci.*, 1985, **16**, 179
Lidgard, R.O. *et al.*, *Biomed. Environ. Mass Spectrom.*, 1986, **13**, 677, (ms)
Ger. Pat., 1987, *Bayer*, 3 522 629; *CA*, **107**, 40134f, (isom)
Vijverberg, H.P.M. *et al.*, *Crit. Rev. Toxicol.*, 1990, **21**, 105
Lisseter, S.G. *et al.*, *J. Chromatogr.*, 1991, **539**, 207, (hplc)
Pleiss, U. *et al.*, *J. Labelled Compd. Radiopharm.*, 1993, **33**, 949
Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 1125
Pesticide Manual, 10th edn., 1994, Nos. 172; 173