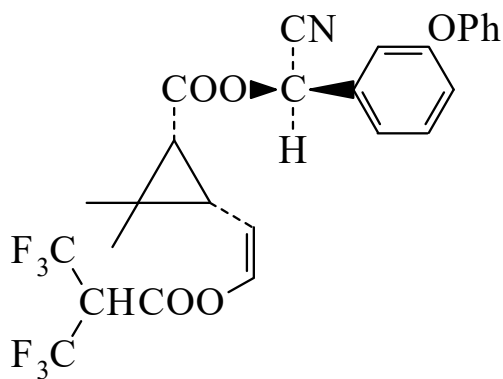




>>Entry Name: Acrynathrin

**Synonym(s):** Cyano(3-phenoxyphenyl)methyl 2,2-dimethyl-3-[3-oxo-3-[2,2,2-trifluoro-1-(trifluoromethyl)ethoxy]-1-propenyl]cyclopropanecarboxylate, 9Cl.  $\alpha$ -Cyano-3-phenoxybenzyl 2,2-dimethyl-3-[2-(2,2,2-trifluoro-1-trifluoromethylethoxycarbonyl)vinyl]cyclopropanecarboxylate. Acrinathrin. Rufast. RU 38702



**CAS Registry Number:** 101007-06-1

**Related CAS Registry Numbers(s):** 103833-18-7 114128-58-4 114128-73-3

**Molecular Formula:** C<sub>26</sub>H<sub>21</sub>F<sub>6</sub>NO<sub>5</sub>

**Molecular Weight:** 541.446

**Accurate Mass:** 541.132392

**Percentage Composition:** C 57.68%; H 3.91%; F 21.05%; N 2.59%; O 14.77%

**General Statement:** The name Acrynathrin refers to the (1*R*,*cis*,*Z*, $\alpha$ (*S*)) isomer illus.

**Use/Importance:** Pyrethroid insecticide

**Physical Description:** Cryst.

**Melting Point:** Mp 82°

**Optical Rotation:**  $[\alpha]_D^{20} +17.5$  (c, 0.4 in toluene)

**Hazard & Toxicity:** LD<sub>50</sub> (rat, orl) >5000 mg/kg

**References:**

*U.S. Pat.*, 1985, 4 542 142; *CA*, **104**, 163744a, (*synth, activity*)

Baert, F. *et al.*, *Acta Cryst. C*, 1991, **47**, 768, (*cryst struct*)

*Pesticide Manual*, 9th edn., 1991, No. 55

Pinochet, G., *Phytoma*, 1991, **428**, 54, (*activity, tox*)

*Agrochemicals Handbook*, 3rd edn., Royal Society of Chemistry, 1992, A1280