

Product Data Sheet

Product Name: Fenpropathrin

Cat. No.: GC49278

Chemical Properties

Cas. No. 39515-41-8

SMILES N#CC(C1=CC(OC2=CC=CC=C2)=CC=C1)OC(C3C(C)(C3(C)C)C)=O

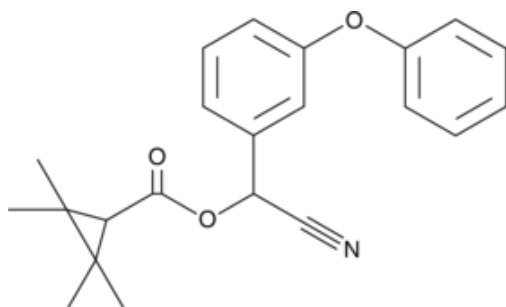
Formula C₂₂H₂₃NO₃ M.Wt 349.4

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 15 mg/ml Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Fenpropathrin is a pyrethroid insecticide.¹ It is a slow activator of voltage-gated sodium channel 1.8 (Nav_v1.8). Fenpropathrin induces mortality in the two-spotted spider mite (*T. urticae*) with an LC₅₀ value of 2.35 g AI/L in a slide-dip assay.² It has been found in watershed sediment samples.³ Formulations containing fenpropathrin have been used as insecticides in agriculture.

1. Choi, J.S., and Soderlund, D.M. Structure-activity relationships for the action of 11 pyrethroid insecticides on rat Nav1.8 sodium channels expressed in *Xenopus* oocytes. *Toxicol. Appl. Pharmacol.* 211(3):233-244 (2006).
2. Penman, D.R., Chapman, R.B., and Bowie, M.H. Direct toxicity and repellent activity of pyrethroids against *Tetranychus urticae* (Acari: Tetranychidae). *J. Econ.*

Caution: Product has not been fully validated for medical applications. For research use only.

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Entomol.79(5)1183-1187(1986) 3.Budd, R., Bondarenko, S., Haver, D., et al.Occurrence and bioavailability of pyrethroids in a mixed land use watershedEnviron. Qual.36(4)1006-1012(2007)

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