PRODUCT INFORMATION

(E)-Fenpyroximate
Item No. 25625

CAS Registry No.: 134098-61-6
Formal Name: 4-[[[E]-[(1,3-dimethyl-5-phenoxy-1H-pyrazol-4-yl)methylene]amino]oxy]methyl]-benzoic acid, 1,1-dimethylethyl ester
Synonyms: Fenpyroximate, NNI-850
MF: C_{24}H_{27}N_{3}O_{4}
FW: 421.5
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

(E)-Fenpyroximate is supplied as a solid. A stock solution may be made by dissolving the (E)-fenpyroximate in the solvent of choice, which should be purged with an inert gas. (E)-Fenpyroximate is slightly soluble in chloroform and methanol.

Description

(E)-Fenpyroximate is a phenoxypyrazole acaricide.\(^1\) It is lethal to mobile adult phytophagous mites of the genera *Tetranychidae*, *Eriophyidae*, and *Tarsonemidae* and inhibits molting at immature stages. (E)-Fenpyroximate reduces the number of eggs laid per female and is lethal to female *A. swirskii* predatory mites.\(^2\) It is also selectively lethal to worker over queen honey bees (LD\(_{50}\) = 30 and >1,620 μg/g, respectively).\(^3\) (E)-Fenpyroximate induces cell death in marine flounder (*P. olivaceus*) gill cells (IC\(_{50}\) = 800-1,250 nM) and is lethal to adult living flounder (LC\(_{50}\) = 28.84 nM in seawater).\(^4\)

References