

Product Data Sheet

Product Name: MGK-264

Cat. No.: GC47672

Chemical Properties

Cas. No. 113-48-4

SMILES O=C1N(CC(CCCC)CC)C(C2C3C=CC(C3)C21)=O

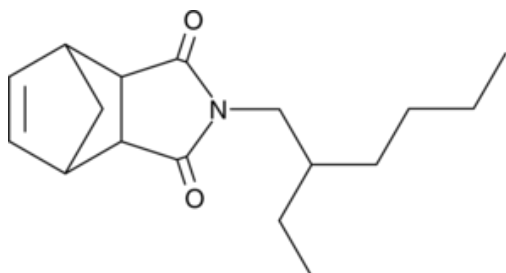
Formula C₁₇H₂₅NO₂ M.Wt 275.4

Solubility Chloroform: Slightly Soluble, DMSO: Slightly Soluble, Methanol: Slightly Soluble
Storage Store at -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

MGK-264 is a dicarboxamide synergist used to enhance the effects of pesticides.¹ It is not lethal to house flies when used at a concentration of 5,000 ppm and induces only 26.4% mortality of two-spotted spider mites when used at a concentration of 1,000 ppm. MGK-264 has synergistic effects on toxicity when used in combination with the insecticide Plictran in susceptible strains of *S. littoralis* (LD₅₀s = 0.98 and 40 µg/larva with or without MGK-264) and in field strains (LD₅₀s = 0.15 and 1.1 µg/larva with or without MGK-264).² It also decreases the fecundity of adult *L. acuminata* and reduces survival of the offspring after hatching when used in combination with sublethal doses of a variety of plant-derived molluscicides.³

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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1.Kilsheimer, J.A., and Kaufman, H.A.Pesticidal composition comprising a benzothienyl carbamate and synergist(1972) 2.Radwan, H.S.A., Riskallah, M.R., and El-Keie, I.A.Synergistic effects on the toxicity of organotins on cotton leafwormsToxicology14(3)193-198(1979) 3.Singh, K., and Singh, D.K.Effect of different combinations of MGK-264 or piperonyl butoxide with plant-derived molluscicides on snail reproductionArch. Environ. Contam. Toxicol.38(2)182-190(2000)

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