

**Product Name:** 3'-Ethoxy-spinosyn L

**Product Number:** S093

**CAS Number:** 187166-15-0

**Molecular Formula:**  $C_{43}H_{69}NO_{10}$

**Molecular Weight:** 760.0

**Appearance:** White solid

**Storage Conditions:** -20°C

**Description:** 3'-Ethoxyspinosyn L is the minor component in the second generation spinosyn family of bio-insecticides marketed as Spinetoram. 3'-Ethoxyspinosyn L is a semi-synthetic compound prepared by selective ethylation and hydrogenation of Spinosyn L, itself a fermentation product from a biosynthetically blocked mutant of *Saccharopolyspora spinosa*. As an insecticide, 3'-ethoxyspinosyn L is considered more potent and to have earlier onset and longer duration of action than combinations of spinosyn A and D.

3'-Ethoxyspinosyn L is soluble in ethanol, methanol, DMF and DMSO.

**References:** The spinosyn family of insecticides: realizing the potential of natural products research. Kirst H.A. J. Antibiot. 2010, 63, 101.

Neural network-based QSAR and insecticide discovery: spinetoram. Sparks T.C. et al. J. Comput. Aided Mol. Des. 2008, 22, 393.

DE-175 (spinetoram), a new semi-synthetic spinosyn in development. Crouse G.D. et al. in Modern Crop Protection Compounds Vol. 3 (eds Kramer W. & Schirmer U.) 2007, 1013.