



TECHNICAL DATA SHEET

Standard grade

Product name	(Z,Z,Z,Z)-3,6,9,12,15-Pentacosapentaene	Product code	EP00072
CAS No.	854201-96-0	Pheromone code	3Z,6Z,9Z,12Z,15Z-25:Hy
Molecular formula	C ₂₅ H ₄₂	Molecular weight	342.6

Specification

Property	Specification	Method
Appearance	Clear, colourless liquid	Visual
Chemical purity	≥ 95.0 %	GC-FID (PEG)
Isomeric purity (3Z,6Z,9Z,12Z,15Z)	≥ 93.0 %	GC-FID (cyanopropyl), isomer-normalised

Storage and handling

Storage conditions	2–8 °C, protected from light, tightly closed	Retest period	12 months
Packaging	1 kg; 25 kg	Safety	See Safety Data Sheet

Application (literature reference)

Pheromone type	Sex pheromone
Target species	<i>Dioryctria abietella</i> (spruce cone worm)
Order / family	Lepidoptera: Pyralidae
Crops	<i>Pinus koraiensis</i> ; <i>Picea abies</i>
Reported use	Mating disruption
Reported blend components	(9Z,11E)-tetradecadienyl acetate (9Z,11E-14:OAc)
Reported blend ratio	(9Z,11E)-tetradecadienyl acetate (9Z,11E-14:OAc): 1:23 (9Z,11E-14:OAc to C ₂₅ pentaene, as extracted from female pheromone glands)
Dispenser loading	100:1,000, 100:2,000, and 100:3,000 µg of 9Z,11E-14:OAc to C ₂₅ pentaene (most attractive combinations in field testing)
Key reference	doi:10.1093/jee/toab227; doi:10.1007/s10340-017-0929-x