



TECHNICAL DATA SHEET

Standard grade

Product name	(E,E)-10,12-Hexadecadienal	Product code	EP00049
CAS No.	69977-24-8	Pheromone code	10E,12E-16:Ald
Molecular formula	C ₁₆ H ₂₈ O	Molecular weight	236.39

Specification

Property	Specification	Method
Appearance	Clear, colourless to yellow liquid	Visual
Chemical purity	≥ 90.0 %	GC-FID (PEG)
Isomeric purity (10E,12E)	≥ 93.0 %	GC-FID (cyanopropyl), isomer-normalised

Physical properties (literature reference)

Density	0.852 g/cm ³	Flash point	167.9 °C
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Storage and handling

Storage conditions	2–8 °C (or –20 °C), protected from light, under nitrogen, container filled to minimise headspace	Retest period	12 months
Packaging	1 kg; 25 kg	Safety	See Safety Data Sheet

Application (literature reference)

Pheromone type	Sex pheromone
Target species	Maruca vitrata (legume pod borer); Earias insulana
Order / family	Lepidoptera: Crambidae
Crops	Cowpea; pigeonpea; mungbean; yard-long bean; soybean
Reported use	Mating disruption
Reported blend components	(E,E)-10,12-hexadecadienol; (E)-10-hexadecenal
Reported blend ratio	(E,E)-10,12-hexadecadienol, (E)-10-hexadecenal: 100:5:5
Key reference	doi:10.1007/s10886-015-0653-z; doi:10.3390/insects11090558