



TECHNICAL DATA SHEET

Standard grade

Product name	(E,Z)-5,7-Dodecadienal	Product code	EP00082
CAS No.	75539-65-0	Pheromone code	5E,7Z-12:Ald
Molecular formula	C ₁₂ H ₂₀ O	Molecular weight	180.29

Specification

Property	Specification	Method
Appearance	Clear, colourless to yellow liquid	Visual
Chemical purity	≥ 90.0 %	GC-FID (PEG)
Isomeric purity (5E,7Z)	≥ 93.0 %	GC-FID (cyanopropyl), isomer-normalised

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	Dendrolimus houi (Yunnan pine caterpillar moth); Malacosoma americanum (eastern tent caterpillar); Malacosoma neustrium (lackey moth)
Order / family	Lepidoptera: Lasiocampidae; Lepidoptera: Lasiocampidae; Lepidoptera: Lasiocampidae
Crops	Coniferous forests (pine); forest and cultivated broadleaf trees
Reported use	Monitoring
Reported blend components	(5E,7Z)-5,7-dodecadien-1-ol (E5,Z7-12:OH); (5E,7Z)-5,7-dodecadien-1-yl acetate (E5,Z7-12:OAc); corresponding alcohol (E,Z-5,7-dodecadienol); E,Z acetate
Reported blend ratio	corresponding alcohol (E,Z-5,7-dodecadienol): 500 µg aldehyde : 250 or 100 µg alcohol
Dispenser loading	500 µg (E,Z)-5,7-dodecadienal with 250 or 100 µg corresponding alcohol per lure
Trap type	Pherocon IC trap (fortified with extra adhesive); Pheromone-baited delta trap (e.g. InterceptST Delta), orange color
Key reference	doi:10.1007/bf02029544; doi:10.1603/0046-225x(2007)36[1199:ptftet]2.0.co;2