



TECHNICAL DATA SHEET

Standard grade

Product name	(Z)-13-Octadecenal	Product code	EP00021
CAS No.	58594-45-9	Pheromone code	13Z-18:Ald
Molecular formula	C18H34O	Molecular weight	266.46

Specification

Property	Specification	Method
Appearance	Clear, colourless to yellow oily liquid	Visual
Chemical purity	≥ 98.0 %	GC-FID (PEG)
Isomeric purity (13Z)	≥ 93.0 %	GC-FID (cyanopropyl), isomer-normalised

Physical properties (literature reference)

Density	0.841 g/cm ³	Flash point	179.2 °C
---------	-------------------------	-------------	----------

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	Homoeosoma nebulellum (European sunflower moth); Cnaphalocrocis medinalis (rice leafroller); Duponchelia fovealis (European pepper moth); Diatraea grandiosella (southwestern corn borer)
Order / family	Lepidoptera: Pyralidae; Lepidoptera: Crambidae; Lepidoptera: Crambidae
Crops	Sunflower; rice
Reported use	Monitoring
Reported blend components	(Z)-9-tetradecenal; (Z,E)-9,12-tetradecadienal; (Z)-11-hexadecenal; Z11-16:Ac
Reported blend ratio	(Z)-9-tetradecenal: 8.6% (Z,E)-9,12-tetradecadienal: 4.8% (Z)-11-hexadecenal: 49.5%
Key reference	doi:10.1007/bf00983772; doi:10.1007/bf01041996