



TECHNICAL DATA SHEET

Standard grade

Product name	Hexadecanal	Product code	EP00057
CAS No.	629-80-1	Pheromone code	16:Ald
Molecular formula	C16H32O	Molecular weight	240.42

Specification

Property	Specification	Method
Appearance	White to off-white low-melting solid	Visual
Chemical purity	≥ 98.0 %	GC-FID (PEG)

Physical properties (literature reference)

Melting point	35.0 °C	Density	0.829 g/cm ³
Flash point	104 °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	Helicoverpa zea (corn earworm); Diatraea saccharalis (sugarcane borer)
Order / family	Lepidoptera: Noctuidae; Lepidoptera
Crops	Sweet corn; sugarcane
Reported use	Monitoring
Reported blend components	(Z)-11-hexadecenal; (Z)-9-hexadecenal; (Z)-7-hexadecenal
Reported blend ratio	(Z)-11-hexadecenal: 87% (Z)-9-hexadecenal: 3% (Z)-7-hexadecenal: 2%
Trap type	Hartstack, Heliobis, and green bucket traps
Key reference	doi:10.1093/jee/toaf180; doi:10.1002/ps.7830