



>>Entry Name: 11-Hexadecenal

$\text{H}_3\text{C}(\text{CH}_2)_3\text{CH}=\text{CH}(\text{CH}_2)_9\text{CHO}$

Molecular Formula: $\text{C}_{16}\text{H}_{30}\text{O}$

Molecular Weight: 238.412

Accurate Mass: 238.229665

Percentage Composition: C 80.61%; H 12.68%; O 6.71%

>>Variant: (Z)-form

CAS Registry Number: 53939-28-9

Molecular Formula: $\text{C}_{16}\text{H}_{30}\text{O}$

Molecular Weight: 238.412

Accurate Mass: 238.229665

Percentage Composition: C 80.61%; H 12.68%; O 6.71%

Biological Source: Sex pheromone of the rice stem borer, old world bollworm *Heliothis armigera* and spotted bollworm *Earias vittella*

Biological Use/Importance: Used for control of rice stem borer

Boiling Point: $\text{Bp}_{0.05}$ 115-120° (bath)

Other Data: Major component of Fersex

Aldrich: 24908-4

Fluka: 52285

Sigma: H5635

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 474A, (*ir*)

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 741A, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 563D, (*ir*)

Bestmann, H.J. *et al.*, *Chem. Ber.*, 1978, **111**, 248, (*synth*)

Leadbetter, G. *et al.*, *J. Chem. Ecol.*, 1979, **5**, 101, (*synth*)

Cork, A. *et al.*, *J. Chem. Ecol.*, 1988, **14**, 929

Gil, S. *et al.*, *Synth. Commun.*, 1995, **25**, 351; 1996, **26**, 2329, (*synth*)

Pesticide Manual, 12th edn., 2000, No. 424