>>**Entry Name: 2-Hexenal,** 9CI
ENTRY UNDER REVIEW
Synonym(s): 3-Propylacrolein. FEMA 2560

CAS Registry Number: 505-57-7
Related CAS Registry Numbers(s): 54306-00-2
Extra CAS Registry Numbers(s): 1335-39-3

$H_3CCH_2CH_2CH{=}CHCHO$

Molecular Formula: $C_6H_{10}O$
Molecular Weight: 98.144
Accurate Mass: 98.073165
Percentage Composition: C 73.43%; H 10.27%; O 16.30%
Biological Source: Constit. of many foods, hornbeam leaves, and of scent gland of many bugs, e.g., *Pternistria bispina*; alarm pheromone of e.g. *Cimex lectularius*
Hazard & Toxicity: LD_{50} (mus, ipr) 290 mg/kg

>>**Variant:** (*E*)-form
Synonym(s): Leaf aldehyde

CAS Registry Number: 6728-26-3
Molecular Formula: $C_6H_{10}O$
Molecular Weight: 98.144
Accurate Mass: 98.073165
Percentage Composition: C 73.43%; H 10.27%; O 16.30%
Use/Importance: Used in perfumery and flavourings
Physical Description: Liq. with sharp herbal pungency, apple-like in high dilution
Boiling Point: Bp 146-147°. Bp_{12} 43°
Refractive Index: n_D^{20} 1.4480
Hazard & Toxicity: Peroxidizable. Skin irritant. LD_{50} (rat, orl) 780 mg/kg. LD_{50} (rbt, skn) 600 mg/kg

Aldrich: 13265-9
Fluka: 53000
Sigma: H7383

>>**Derivative:** 2,4-Dinitrophenylhydrazone

CAS Registry Number: 2122-02-3
Physical Description: Red needles
Melting Point: Mp 147°

>>**Derivative:** Semicarbazone

Physical Description: Cryst. (MeOH)
Melting Point: Mp 179°

>>**Derivative:** Di-Et acetal
Synonym(s): 1,1-Diethoxy-2-hexene

CAS Registry Number: 67746-30-9
Molecular Formula: $C_{10}H_{20}O_2$
Molecular Weight: 172.267
Accurate Mass: 172.14633
Percentage Composition: C 69.72%; H 11.70%; O 18.58%
Boiling Point: Bp_{55} 95-98°
Density: d 0.85
Refractive Index: n_D^{20} 1.4210