>>**Entry Name: Heptanal,** 9CI, 8CI
ENTRY UNDER REVIEW
Synonym(s): Heptaldehyde. Enanthal. Oenanthal. Enanthole. Oenanthole. Oenanthaldehyde. Enanthaldehyde. FEMA 2540

CAS Registry Number: 111-71-7
Related CAS Registry Numbers(s): 5775-78-0 5784-69-0

$H_3C(CH_2)_5CHO$

Molecular Formula: $C_7H_{14}O$
Molecular Weight: 114.187
Accurate Mass: 114.104465
Percentage Composition: C 73.63%; H 12.36%; O 14.01%
Biological Source: Found in essential oils of ylang-ylang, clary sage, California orange, bitter orange and others
Use/Importance: Aldehyde and its simple acetals used in perfumery. Flavouring agent
Physical Description: Liq. with fruity odour
Melting Point: Mp –43.3°
Boiling Point: Bp 152.8°. Bp_{30} 59.6°
Hazard & Toxicity: Low oral toxicity; flammable, fl. p. 35°

Aldrich: W25401-0
Fluka: 75170
Supelco: S48-2540

>>**Derivative:** Oxime

CAS Registry Number: 629-31-2
Molecular Formula: $C_7H_{15}NO$
Molecular Weight: 129.202
Accurate Mass: 129.115364
Percentage Composition: C 65.07%; H 11.70%; N 10.84%; O 12.38%
Physical Description: Plates (EtOH)
Melting Point: Mp 57-58°
Boiling Point: Bp 195°. Bp_{14} 100.5°

>>**Derivative:** Semicarbazone

CAS Registry Number: 6033-21-2
Physical Description: Cryst. (MeOH)
Melting Point: Mp 108-109°

>>**Derivative:** Di-Me acetal
Synonym(s): 1,1-Dimethoxyheptane

CAS Registry Number: 10032-05-0
Molecular Formula: $C_9H_{20}O_2$
Molecular Weight: 160.256
Accurate Mass: 160.14633
Percentage Composition: C 67.45%; H 12.58%; O 19.97%
Boiling Point: Bp 182°. Bp_{17} 75°

>>**Derivative:** Di-Et acetal
Synonym(s): 1,1-Diethoxyheptane

CAS Registry Number: 688-82-4
Molecular Formula: $C_{11}H_{24}O_2$
Molecular Weight: 188.309
Accurate Mass: 188.17763
Percentage Composition: C 70.16%; H 12.85%; O 16.99%
Boiling Point: Bp_{774} 204-205°