



>>Entry Name: 4-Hexenal

Extra CAS Registry Numbers(s): 1335-39-3

H3CCH=CHCH2CH2CHO

Molecular Formula: C₆H₁₀O

Molecular Weight: 98.144

Accurate Mass: 98.073165

Percentage Composition: C 73.43%; H 10.27%; O 16.30%

>>Variant: (*E*)-form

CAS Registry Number: 25166-87-4

Molecular Formula: C₆H₁₀O

Molecular Weight: 98.144

Accurate Mass: 98.073165

Percentage Composition: C 73.43%; H 10.27%; O 16.30%

Physical Description: Oil

Boiling Point: Bp₅₀ 34°. Bp₂₀ 37°

>>Derivative: Oxime

Molecular Formula: C₆H₁₁NO

Molecular Weight: 113.159

Accurate Mass: 113.084064

Percentage Composition: C 63.69%; H 9.80%; N 12.38%; O 14.14%

Boiling Point: Bp₁₃ 80°

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 122.7-123.1°

>>Variant: (*Z*)-form

CAS Registry Number: 4634-89-3

Molecular Formula: C₆H₁₀O

Molecular Weight: 98.144

Accurate Mass: 98.073165

Percentage Composition: C 73.43%; H 10.27%; O 16.30%

Boiling Point: Bp₂₀ 38°

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 99.5-99.8°

References:

Oppolzer, W. *et al.*, *Tetrahedron*, 1985, **41**, 3497, (*synth*, *ir*, *pmr*, *ms*)

Hatanaka, A. *et al.*, *Z. Naturforsch., C*, 1992, **47**, 183, (*synth*, *pmr*, *cmr*)