



>>Entry Name: 4-Decenal

CAS Registry Number: 30390-50-2

$\text{H}_3\text{C}(\text{CH}_2)_4\text{CH}=\text{CHCH}_2\text{CH}_2\text{CHO}$

Molecular Formula: $\text{C}_{10}\text{H}_{18}\text{O}$

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

>>Variant: (*E*)-form

CAS Registry Number: 65405-70-1

Molecular Formula: $\text{C}_{10}\text{H}_{18}\text{O}$

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Use/Importance: Used in perfumery

Physical Description: Pale yellow liq. with persistent green-aldehydic-floral odour

Boiling Point: Bp_{15} 90-100°. Bp_5 90°

Refractive Index: n_{D}^{20} 1.4410

Aldrich: 36733-8

Fluka: 30660

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 101-103°

>>Variant: (*Z*)-form

CAS Registry Number: 21662-09-9

Molecular Formula: $\text{C}_{10}\text{H}_{18}\text{O}$

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Boiling Point: Bp_{10} 78-80°

Refractive Index: n_{D}^{20} 1.4440

Aldrich: 37562-4

References:

Ger. Pat., 1970, 2 018 898; *CA*, **74**, 12612s

Nikishin, G.I. *et al.*, *Synthesis*, 1972, 376, (*synth, spectra*)

Bestmann, H.J. *et al.*, *Annalen*, 1981, 1705, (*synth*)