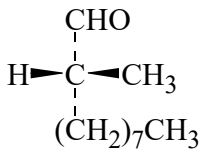
>>**Entry Name: 2-Methyldecanal,** 9Cl

Synonym(s): Methyl octyl aldehyde. Methyl octyl acetaldehyde. α-Methylcapraldehyde



(*R*)-*form*

CAS Registry Number: 19009-56-4

Molecular Formula: $C_{11}H_{22}O$
Molecular Weight: 170.294
Accurate Mass: 170.167065
Percentage Composition: C 77.58%; H 13.02%; O 9.40%

>>**Variant:** (*R*)-form

CAS Registry Number: 195833-12-6
Molecular Formula: $C_{11}H_{22}O$
Molecular Weight: 170.294
Accurate Mass: 170.167065
Percentage Composition: C 77.58%; H 13.02%; O 9.40%
Physical Description: Oil
Optical Rotation: $[\alpha]_D^{20}$–20.2 (c, 0.62 in $CHCl_3$)

>>**Variant:** (*S*)-form

CAS Registry Number: 195833-11-5
Molecular Formula: $C_{11}H_{22}O$
Molecular Weight: 170.294
Accurate Mass: 170.167065
Percentage Composition: C 77.58%; H 13.02%; O 9.40%
Physical Description: Oil
Optical Rotation: $[\alpha]_D^{20}$+21.7 (c, 0.58 in $CHCl_3$)

>>**Variant:** (±)-form

CAS Registry Number: 120892-77-5
Molecular Formula: $C_{11}H_{22}O$
Molecular Weight: 170.294
Accurate Mass: 170.167065
Percentage Composition: C 77.58%; H 13.02%; O 9.40%
Use/Importance: Used in perfumery to add green and citrus notes
Physical Description: Liq. with citrus/green odour
Boiling Point: Bp_{744} 119-120°. $Bp_{0.2}$ 64°

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

CAS Registry Number: 37596-35-3
Melting Point: Mp 63-64°

References:

Hill, C.M. *et al.*, *J.A.C.S.*, 1955, **77**, 3889-3892, *(synth)*
Ceruti, M. *et al.*, *Synthesis*, 1987, 79-82, *(synth, ir, pmr)*
Oppolzer, W. *et al.*, *Helv. Chim. Acta*, 1997, **80**, 1319-1337, *(synth, ir, pmr, cmr, ms)*
Lewis, R.J.*, Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold*, 1992, MIW000