Optical Rotation: $[\alpha]_D^{20}$–21 (c, 2 in $CHCl_3$). $[\alpha]_D$ +45 (H_2O)
Other Data: The positive opt. rotn. is from the older lit. It may be due to solvent dependence

>>**Derivative:** 3-Ac
Synonym(s): 3-*O*-Acetyl-L-rhamnal

CAS Registry Number: 95475-49-3

Molecular Formula: $C_8H_{12}O_4$
Molecular Weight: 172.18
Accurate Mass: 172.07356
Percentage Composition: C 55.81%; H 7.02%; O 37.17%
Physical Description: Syrup
Optical Rotation: $[\alpha]_D^{25}$+21 (c, 2.0 in $CHCl_3$)

>>**Derivative:** 4-Ac
Synonym(s): 4-*O*-Acetyl-L-rhamnal

CAS Registry Number: 95475-50-6

Molecular Formula: $C_8H_{12}O_4$
Molecular Weight: 172.18
Accurate Mass: 172.07356
Percentage Composition: C 55.81%; H 7.02%; O 37.17%
Physical Description: Syrup
Optical Rotation: $[\alpha]_D^{25}$–41 (c, 1.5 in $CHCl_3$)

>>**Derivative:** 3,4-Di-Ac
Synonym(s): 3,4-Di-*O*-acetyl-L-rhamnal

CAS Registry Number: 34819-86-8

Molecular Formula: $C_{10}H_{14}O_5$
Molecular Weight: 214.218
Accurate Mass: 214.084125
Percentage Composition: C 56.07%; H 6.59%; O 37.34%
Physical Description: Oil
Optical Rotation: $[\alpha]_D^{20}$+63 (tetrachloroethane)
Aldrich: 33229-1
Fluka: 31542
Sigma: D1015

>>**Derivative:** 3-Benzoyl
Synonym(s): 3-*O*-Benzoyl-L-rhamnal

CAS Registry Number: 104006-65-7

Molecular Formula: $C_{13}H_{14}O_4$
Molecular Weight: 234.251
Accurate Mass: 234.08921
Percentage Composition: C 66.66%; H 6.02%; O 27.32%
Physical Description: Needles (C_6H_6/cyclohexane)
Melting Point: Mp 64-65°
Optical Rotation: $[\alpha]_D^{25}$+120 (c, 1.0 in $CHCl_3$)

>>**Derivative:** 4-Benzoyl
Synonym(s): 4-*O*-Benzoyl-L-rhamnal

CAS Registry Number: 104069-01-4

Molecular Formula: $C_{13}H_{14}O_4$
Molecular Weight: 234.251
Accurate Mass: 234.08921
Percentage Composition: C 66.66%; H 6.02%; O 27.32%
Physical Description: Cryst. (Et_2O/hexane)
Melting Point: Mp 76°
Optical Rotation: $[\alpha]_D^{25}$–79 (c, 1.0 in $CHCl_3$)