



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: $\text{C}_8\text{H}_{12}\text{O}_4$

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: $\text{C}_8\text{H}_{12}\text{O}_4$

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: $\text{C}_{10}\text{H}_{14}\text{O}_5$

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: $\text{C}_{13}\text{H}_{14}\text{O}_4$

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: $\text{C}_{13}\text{H}_{14}\text{O}_4$

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)