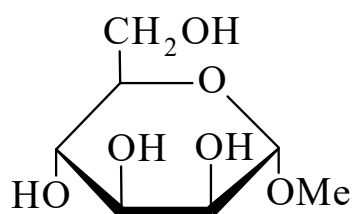




>>Entry Name: Methyl  $\alpha$ -D-mannopyranoside, 9Cl, 8Cl



CAS Registry Number: 617-04-9

Extra CAS Registry Numbers(s): 27939-30-6

Molecular Formula:  $C_7H_{14}O_6$

Molecular Weight: 194.184

Accurate Mass: 194.07904

Percentage Composition: C 43.30%; H 7.27%; O 49.44%

Melting Point: Mp 193-194°

Optical Rotation:  $[\alpha]_D^{20} +79.2$  (c, 1.0 in  $H_2O$ )

Aldrich: 86026-3

Fluka: 67770

Sigma: M6882

>>Derivative: 4-Ac

Synonym(s): Methyl 4-*O*-acetyl- $\alpha$ -D-mannopyranoside

Molecular Formula:  $C_9H_{16}O_7$

Molecular Weight: 236.221

Accurate Mass: 236.089605

Percentage Composition: C 45.76%; H 6.83%; O 47.41%

Optical Rotation:  $[\alpha]_D^{20} -5$  ( $CHCl_3$ )

>>Derivative: 4,6-Di-Ac

Synonym(s): Methyl 4,6-di-*O*-acetyl- $\alpha$ -D-mannopyranoside

CAS Registry Number: 51842-36-5

Molecular Formula:  $C_{11}H_{18}O_8$

Molecular Weight: 278.258

Accurate Mass: 278.10017

Percentage Composition: C 47.48%; H 6.52%; O 46.00%

Optical Rotation:  $[\alpha]_D^{20} +38$  (c, 1 in  $CHCl_3$ )

>>Derivative: 2,3,4-Tri-Ac

Synonym(s): Methyl 2,3,4-tri-*O*-acetyl- $\alpha$ -D-mannopyranoside

CAS Registry Number: 7468-47-5

Molecular Formula:  $C_{13}H_{20}O_9$

Molecular Weight: 320.296

Accurate Mass: 320.110735

Percentage Composition: C 48.75%; H 6.29%; O 44.96%

Melting Point: Mp 97-98°

Optical Rotation:  $[\alpha]_D^{25} +54.9$  (c, 1.1 in  $CHCl_3$ )

>>Derivative: 2,3,4,6-Tetra-Ac

Synonym(s): Methyl 2,3,4,6-tetra-*O*-acetyl- $\alpha$ -D-mannopyranoside

CAS Registry Number: 5019-24-9

Molecular Formula:  $C_{15}H_{22}O_{10}$

Molecular Weight: 362.333

Accurate Mass: 362.1213

Percentage Composition: C 49.72%; H 6.12%; O 44.16%

Melting Point: Mp 65°

Optical Rotation:  $[\alpha]_D^{25} +49.2$  (c, 6.5 in  $CHCl_3$ )

Aldrich: 36168-2