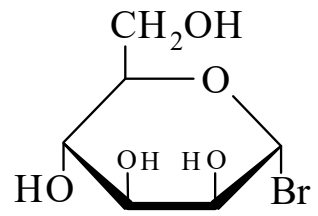
>>**Entry Name: Mannopyranosyl bromide**



α-D-form

Molecular Formula: $C_6H_{11}BrO_5$
Molecular Weight: 243.054
Accurate Mass: 241.998986
Percentage Composition: C 29.65%; H 4.56%; Br 32.88%; O 32.91%

>>**Variant:** α-D-form

Molecular Formula: $C_6H_{11}BrO_5$
Molecular Weight: 243.054
Accurate Mass: 241.998986
Percentage Composition: C 29.65%; H 4.56%; Br 32.88%; O 32.91%

>>**Derivative:** 2,3,4,6-Tetra-Ac
Synonym(s): 2,3,4,6-Tetra-*O*-acetyl-α-D-mannopyranosyl bromide, 9Cl, 8Cl. Acetobromomannose

CAS Registry Number: 13242-53-0

Molecular Formula: $C_{14}H_{19}BrO_9$
Molecular Weight: 411.203
Accurate Mass: 410.041246
Percentage Composition: C 40.89%; H 4.66%; Br 19.43%; O 35.02%
Melting Point: Mp 53-54°
Optical Rotation: $[\alpha]_D^{20}$+128 (c, 1.8 in $CHCl_3$)

>>**Derivative:** 2,3,4,6-Tetrabenzoyl
Synonym(s): 2,3,4,6-Tetra-*O*-benzoyl-α-D-mannopyranosyl bromide

CAS Registry Number: 14218-30-5

Molecular Formula: $C_{34}H_{27}BrO_9$
Molecular Weight: 659.486
Accurate Mass: 658.103846
Percentage Composition: C 61.92%; H 4.13%; Br 12.12%; O 21.83%
Physical Description: Amorph. powder
Optical Rotation: $[\alpha]_D$ +11.7 ($CHCl_3$)
Sigma: T0792

>>**Derivative:** 2,3-Carbonate, 4,6-di-Ac
Synonym(s): 4,6-Di-*O*-acetyl-α-D-mannopyranosyl bromide 2,3-carbonate

CAS Registry Number: 53958-21-7
Optical Rotation: $[\alpha]_D^{25}$+88 (c, 1.0 in $CHCl_3$)

>>**Derivative:** 6-Deoxy-6-iodo, 2,3,4-tri-Ac
Synonym(s): 2,3,4-Tri-*O*-acetyl-6-deoxy-6-iodo-α-D-mannopyranosyl bromide

CAS Registry Number: 50692-56-3

Molecular Formula: $C_{12}H_{16}BrIO_7$
Molecular Weight: 479.063
Accurate Mass: 477.932414
Percentage Composition: C 30.09%; H 3.37%; Br 16.68%; I 26.49%; O 23.38%
Physical Description: Needles (diisopropyl ether)
Melting Point: Mp 136-137° (softens at 122°)
Optical Rotation: $[\alpha]_D$ +110 (c, 1.0 in $CHCl_3$)

References:

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