



>>Derivative: 6-Tosyl, 2,3,4-tri-Ac

Molecular Formula: C₂₅H₂₇NO₁₃S

Molecular Weight: 581.553

Accurate Mass: 581.120314

Percentage Composition: C 51.63%; H 4.68%; N 2.41%; O 35.76%; S 5.51%

Physical Description: Needles (EtOH/Me₂CO)

Melting Point: Mp 178°

Optical Rotation: [α]_D²⁵+173 (c, 1.04 in CHCl₃)

>>Variant: β -D-Pyranose-form

CAS Registry Number: 2492-87-7

Molecular Formula: C₁₂H₁₅NO₈

Molecular Weight: 301.252

Accurate Mass: 301.079769

Percentage Composition: C 47.84%; H 5.02%; N 4.65%; O 42.49%

Biological Source: Isol. from *Sagittaria trifolia*

Use/Importance: Substrate for the assay of β -glucosidase (cellobiase)

Physical Description: Needles (EtOAc/MeOH)

Melting Point: Mp 166-167°

Optical Rotation: [α]_D²⁰-106 (c, 1 in H₂O)

Aldrich: 36029-5

Sigma: N1502

>>Derivative: 2-Ac

CAS Registry Number: 40837-81-8

Molecular Formula: C₁₄H₁₇NO₉

Molecular Weight: 343.29

Accurate Mass: 343.090334

Percentage Composition: C 48.98%; H 4.99%; N 4.08%; O 41.95%

Physical Description: Amorph. solid

Optical Rotation: [α]_D²⁰-36.9 (c, 0.43 in DMF)

>>Derivative: 2,3-Di-Ac

CAS Registry Number: 40837-80-7

Molecular Formula: C₁₆H₁₉NO₁₀

Molecular Weight: 385.327

Accurate Mass: 385.100899

Percentage Composition: C 49.87%; H 4.97%; N 3.64%; O 41.52%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 183-185°

Optical Rotation: [α]_D²⁰-24.9 (c, 0.553 in DMF)

>>Derivative: 3,4,6-Tri-Ac

CAS Registry Number: 87236-45-1

Molecular Formula: C₁₈H₂₁NO₁₁

Molecular Weight: 427.364

Accurate Mass: 427.111464

Percentage Composition: C 50.59%; H 4.95%; N 3.28%; O 41.18%

Physical Description: Cryst. (CHCl₃/CCl₄)

Melting Point: Mp 105-107°

Optical Rotation: [α]_D²⁰-42 (c, 1 in CHCl₃)

>>Derivative: Tetra-Ac

CAS Registry Number: 5987-78-0