



Optical Rotation: $[\alpha]_{\text{D}}^{20} +59.9$ (c, 1.1 in CHCl_3)

Other Data: Hydrate ($0.5\text{H}_2\text{O}$)

>>**Derivative:** 4-Tosyl

Synonym(s): Methyl 4-*O*-tosyl- α -L-arabinopyranoside

Molecular Formula: $\text{C}_{13}\text{H}_{18}\text{O}_7\text{S}$

Molecular Weight: 318.347

Accurate Mass: 318.077325

Percentage Composition: C 49.05%; H 5.70%; O 35.18%; S 10.07%

Physical Description: Syrup

Optical Rotation: $[\alpha]_{\text{D}}^{18} -10$ (c, 1.7 in CHCl_3)

Other Data: Hydrate ($0.25\text{H}_2\text{O}$)

>>**Derivative:** 3,4-Ditosyl

Synonym(s): Methyl 3,4-di-*O*-tosyl- α -L-arabinopyranoside

Molecular Formula: $\text{C}_{20}\text{H}_{24}\text{O}_9\text{S}_2$

Molecular Weight: 472.536

Accurate Mass: 472.086175

Percentage Composition: C 50.84%; H 5.12%; O 30.47%; S 13.57%

Physical Description: Foam

Optical Rotation: $[\alpha]_{\text{D}}^{10} +27.9$ (c, 0.9 in CHCl_3)

>>**Derivative:** 2,3,4-Tri-Me

Synonym(s): Methyl 2,3,4-tri-*O*-methyl- α -L-arabinopyranoside

Molecular Formula: $\text{C}_9\text{H}_{18}\text{O}_5$

Molecular Weight: 206.238

Accurate Mass: 206.115425

Percentage Composition: C 52.41%; H 8.80%; O 38.79%

Optical Rotation: $[\alpha]_{\text{D}} +46$ (H_2O)

>>**Variant:** β -L-form

CAS Registry Number: 1825-00-9

Molecular Formula: $\text{C}_6\text{H}_{12}\text{O}_5$

Molecular Weight: 164.158

Accurate Mass: 164.068475

Percentage Composition: C 43.90%; H 7.37%; O 48.73%

Physical Description: Silky plates or needles (EtOH)

Melting Point: Mp 172°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +246$ (c, 1.2 in H_2O)

>>**Derivative:** 2-Ac

Synonym(s): Methyl 2-*O*-acetyl- β -L-arabinopyranoside

Molecular Formula: $\text{C}_8\text{H}_{14}\text{O}_6$

Molecular Weight: 206.195

Accurate Mass: 206.07904

Percentage Composition: C 46.60%; H 6.84%; O 46.56%

Physical Description: Prisms (EtOH /petrol)

Melting Point: Mp 172°

Optical Rotation: $[\alpha]_{\text{D}}^{16} +252$ (c, 1 in H_2O)

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

Synonym(s): Methyl 2,3,4-tri-*O*-acetyl- β -L-arabinopyranoside

CAS Registry Number: 14520-32-2