



CAS Registry Number: 37105-87-6

Molecular Formula: C₈H₁₄O₄

Molecular Weight: 174.196

Accurate Mass: 174.08921

Percentage Composition: C 55.16%; H 8.10%; O 36.74%

Melting Point: Mp 83-84°

Optical Rotation: $[\alpha]_D^{23} -13.2$ (c, 1.2 in CHCl₃)

>>**Derivative:** 1,2-Isopropylidene, 3-Ac

CAS Registry Number: 37105-88-7

Molecular Formula: C₁₀H₁₆O₅

Molecular Weight: 216.233

Accurate Mass: 216.099775

Percentage Composition: C 55.55%; H 7.46%; O 37.00%

Physical Description: Syrup

Optical Rotation: $[\alpha]_D^{23} -12.9$ (c, 3.1 in CHCl₃)

>>**Variant:** L-form

CAS Registry Number: 13039-56-0

Molecular Formula: C₅H₁₀O₄

Molecular Weight: 134.132

Accurate Mass: 134.05791

Percentage Composition: C 44.77%; H 7.51%; O 47.71%

Optical Rotation: $[\alpha]_D^{25} -25.3$ (c, 0.34 in EtOH)

>>**Derivative:** Phenylhydrazone

Physical Description: Solid

Melting Point: Mp 78-80°

>>**Derivative:** Benzylphenylhydrazone

Melting Point: Mp 96-97°

Optical Rotation: $[\alpha]_D^{20} -6.5$ (EtOH)

>>**Derivative:** Phenylsazone

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 172-173°

Optical Rotation: $[\alpha]_D^{20} -30.5 \rightarrow +16.4$ (EtOH)

>>**Derivative:** Di-Et mercaptal

Synonym(s): 5-Deoxy-L-arabinose diethyl dithioacetal

Molecular Formula: C₉H₂₀O₃S₂

Molecular Weight: 240.387

Accurate Mass: 240.085385

Percentage Composition: C 44.97%; H 8.39%; O 19.97%; S 26.68%

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 103.5-105.5°

Optical Rotation: $[\alpha]_D^{26} +20.5$ (c, 0.9 in MeOH)

>>**Variant:** β-L-Furanose-form

Molecular Formula: C₅H₁₀O₄

Molecular Weight: 134.132

Accurate Mass: 134.05791

Percentage Composition: C 44.77%; H 7.51%; O 47.71%