



>>>Derivative: 1,2:3,4-Di-*O*-isopropylidene
Synonym(s): 1,2:3,4-Di-*O*-isopropylidene- α -D-*erythro*-2-pentulose

CAS Registry Number: 27294-54-8

Molecular Formula: C₁₁H₁₈O₅
Molecular Weight: 230.26
Accurate Mass: 230.115425
Percentage Composition: C 57.38%; H 7.88%; O 34.74%
Melting Point: Mp 87-89°
Optical Rotation: $[\alpha]_{\text{D}}^{22}$ -5.7 (c, 1.0 in MeOH)

>>>Variant: β -D-Furanose-form

CAS Registry Number: 131064-70-5
Molecular Formula: C₅H₁₀O₅
Molecular Weight: 150.131
Accurate Mass: 150.052825
Percentage Composition: C 40.00%; H 6.71%; O 53.28%

>>>Derivative: 1,2:3,4-Di-*O*-isopropylidene
Synonym(s): 1,2:3,4-Di-*O*-isopropylidene- β -D-*erythro*-2-pentulose

CAS Registry Number: 25018-66-0

Molecular Formula: C₁₁H₁₈O₅
Molecular Weight: 230.26
Accurate Mass: 230.115425
Percentage Composition: C 57.38%; H 7.88%; O 34.74%
Optical Rotation: $[\alpha]_{\text{D}}^{22}$ -110 (c, 1.0 in MeOH)

>>>Variant: L-form

CAS Registry Number: 2042-27-5

Molecular Formula: C₅H₁₀O₅
Molecular Weight: 150.131
Accurate Mass: 150.052825
Percentage Composition: C 40.00%; H 6.71%; O 53.28%
Optical Rotation: $[\alpha]_{\text{D}}$ +17 (H₂O)

>>>Derivative: 2-Nitrophenylhydrazone

Melting Point: Mp 168-170°
Optical Rotation: $[\alpha]_{\text{D}}^{19}$ +47.5 (c, 0.6 in MeOH)

>>>Variant: α -L-Furanose-form

Molecular Formula: C₅H₁₀O₅
Molecular Weight: 150.131
Accurate Mass: 150.052825
Percentage Composition: C 40.00%; H 6.71%; O 53.28%

>>>Derivative: Me glycoside
Synonym(s): Methyl α -L-*erythro*-2-pentulofuranoside

CAS Registry Number: 53756-34-6

Molecular Formula: C₆H₁₂O₅
Molecular Weight: 164.158
Accurate Mass: 164.068475
Percentage Composition: C 43.90%; H 7.37%; O 48.73%
Physical Description: Cryst.
Melting Point: Mp 68-69°
Optical Rotation: $[\alpha]_{\text{D}}^{25}$ -42.2 (c, 1.0 in H₂O)