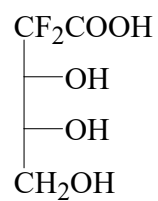




>>Entry Name: 2-Deoxy-2,2-difluoro-*erythro*-pentonic acid

Synonym(s): 2,2-Difluoro-3,4,5-trihydroxypentanoic acid



Related CAS Registry Numbers(s): 122111-02-8

Molecular Formula: C₅H₈F₂O₅

Molecular Weight: 186.112

Accurate Mass: 186.033981

Percentage Composition: C 32.27%; H 4.33%; F 20.42%; O 42.98%

>>Variant: D-form

Molecular Formula: C₅H₈F₂O₅

Molecular Weight: 186.112

Accurate Mass: 186.033981

Percentage Composition: C 32.27%; H 4.33%; F 20.42%; O 42.98%

>>Derivative: 1,4-Lactone, dibenzoyl

Synonym(s): 3,5-Di-*O*-benzoyl-2-deoxy-2,2-difluoro-D-*erythro*-1,4-pentonolactone

CAS Registry Number: 122111-01-7

Molecular Formula: C₁₉H₁₄F₂O₆

Molecular Weight: 376.313

Accurate Mass: 376.075846

Percentage Composition: C 60.64%; H 3.75%; F 10.10%; O 25.51%

Physical Description: Cryst. (CH₂Cl₂/heptane)

Melting Point: Mp 119-120°

Optical Rotation: [α]_D²⁵+62 (c, 1 in EtOAc)

Aldrich: 42256-8

References:

Chou, T.S. *et al.*, *Synthesis*, 1992, **6**, 565, (1,4-lactone dibenzoyl, synth, pmr, cmr, ir, uv)