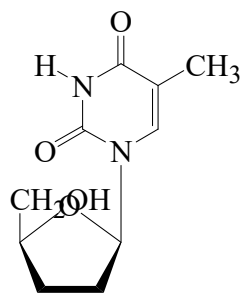




>>Entry Name: 3'-Deoxythymidine, 9CI

Synonym(s): 2',3'-Dideoxy-5-methyluridine



CAS Registry Number: 3416-05-5

Molecular Formula: C₁₀H₁₄N₂O₄

Molecular Weight: 226.232

Accurate Mass: 226.095358

Percentage Composition: C 53.09%; H 6.24%; N 12.38%; O 28.29%

Physical Description: Cryst. (MeOH), or needles (EtOAc)

Melting Point: Mp 150-152°

>>Derivative: 5'-Phosphate

Synonym(s): 3'-Deoxy-5'-thymidylic acid, 9CI

CAS Registry Number: 3715-64-8

Molecular Formula: C₁₀H₁₅N₂O₇P

Molecular Weight: 306.212

Accurate Mass: 306.06169

Percentage Composition: C 39.22%; H 4.94%; N 9.15%; O 36.57%; P 10.12%

Physical Description: Solid +8H₂O (as Ba salt)

>>Derivative: 5'-Triphosphate

CAS Registry Number: 611-60-9

Molecular Formula: C₁₀H₁₇N₂O₁₃P₃

Molecular Weight: 466.171

Accurate Mass: 465.994354

Percentage Composition: C 25.77%; H 3.68%; N 6.01%; O 44.62%; P 19.93%

Physical Description: Solid (as Li salt)

References:

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Horwitz, J.P. *et al.*, *J.O.C.*, 1966, **31**, 205-211, (*synth*)
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