



Percentage Composition: C 39.28%; H 4.79%; N 8.33%; O 38.06%; S 9.53%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 173-175°

Optical Rotation: $[\alpha]_D^{12} -12$ (c, 0.25 in H₂O)

UV: [neutral] $\lambda_{\max}$ 260 (ϵ 8500) (H₂O)

>>Derivative: *N*-Me, 2',5'-ditrityl

Molecular Formula: C₄₈H₄₂N₂O₆

Molecular Weight: 742.87

Accurate Mass: 742.304288

Percentage Composition: C 77.61%; H 5.70%; N 3.77%; O 12.92%

Melting Point: Mp 245-248° (212-214°)

>>Derivative: 2'-Me

Synonym(s): 2'-*O*-Methyluridine

CAS Registry Number: 2140-76-3

Molecular Formula: C₁₀H₁₄N₂O₆

Molecular Weight: 258.23

Accurate Mass: 258.085188

Percentage Composition: C 46.51%; H 5.46%; N 10.85%; O 37.17%

Biological Source: Occurs in ribosomal RNA of higher organisms. Found in the primary sequence of tRNA^{ser} from yeast and rat liver, located in the d₁-region

Melting Point: Mp 158-160°

Optical Rotation: $[\alpha]_D^{24} +41.8$ (c, 0.18 in H₂O)

UV: [neutral] $\lambda_{\max}$ 262 (ϵ 10700) (H₂O) [acid] $\lambda_{\max}$ 262 (ϵ 10700) (aq. acid, pH 1) [base] $\lambda_{\max}$ 261 (ϵ 8100) (aq. alkali, pH 12)

>>Derivative: 5'-Me

Synonym(s): 5'-*O*-Methyluridine

CAS Registry Number: 39848-60-7

Molecular Formula: C₁₀H₁₄N₂O₆

Molecular Weight: 258.23

Accurate Mass: 258.085188

Percentage Composition: C 46.51%; H 5.46%; N 10.85%; O 37.17%

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 135°

>>Derivative: 5'-Me, 2',3'-*O*-isopropylidene

CAS Registry Number: 67443-68-9

Molecular Formula: C₁₃H₁₈N₂O₆

Molecular Weight: 298.295

Accurate Mass: 298.116488

Percentage Composition: C 52.35%; H 6.08%; N 9.39%; O 32.18%

Melting Point: Mp 115°

Optical Rotation: $[\alpha]_D +20$ (c, 0.1 in MeOH)

>>Derivative: 5',*N*-Di-Me

Synonym(s): 3-Methyl-5'-*O*-methyluridine, 9Cl

CAS Registry Number: 120046-93-7

Molecular Formula: C₁₁H₁₆N₂O₆

Molecular Weight: 272.257

Accurate Mass: 272.100838

Percentage Composition: C 48.53%; H 5.92%; N 10.29%; O 35.26%

Other Data: No phys. props. reported

>>Derivative: 5',*N*-Di-Me, 2',3'-*O*-isopropylidene

CAS Registry Number: 34311-40-5

Molecular Formula: C₁₄H₂₀N₂O₆

Molecular Weight: 312.322

Accurate Mass: 312.132138

Percentage Composition: C 53.84%; H 6.45%; N 8.97%; O 30.74%

Other Data: No phys. props. reported