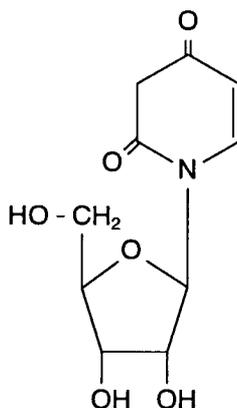


3-DEAZAURIDINE

NSC - 126849



Chemical Name:

1- β -*D*-ribofuranosyl-2,4(1*H*,3*H*)-pyridinedione

CAS Registry Number: 39935-49-4

Molecular Formula: C₁₀H₁₃NO₆

M.W.: 243.2

Approximate Solubility:

(mg/mL)

H ₂ O	18
DMSO	> 150
EtOH	< 1
DMF	> 150
EtOAc	0.2
CHCl ₃	0.2

Stability:**Bulk:**

A sample stored at 60 °C for 30 days showed no decomposition by UV absorption or paper chromatography.

Solution:

A 2% aqueous solution held at room temperature for 24 hours showed no decomposition by UV absorption or paper chromatography.

Ultraviolet Absorption:

(0.1 N NaOH)

$$\lambda_{\max} = 255 \pm 2 \text{ nm}$$

$$\epsilon = 7,850 - 8,200$$

High Performance Liquid Chromatography:**Column:**

Altex Ultrasphere, 5 μ ,
250 x 4.6 mm i.d.

Mobile Phase:

Methanol/0.1 M acetate buffer,
pH 4 (3:97)

Flow Rate:

1 mL/min

Detection:

UV at 254 nm

Sample Preparation:

0.2 mg/mL in mobile phase

Internal Standard:

Thymidine, 0.06 mg/mL in mobile
phase

Retention Volume:

9.6 mL (NSC - 126849)

18.7 mL (I.S)

Optical Rotation:

(c = 1, H₂O)

$$[\alpha]_D^{20} = 43 \pm 2^\circ$$