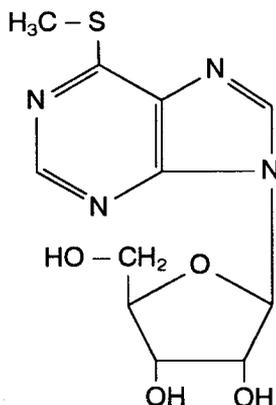


6-METHYLMERCAPTOPURINE RIBOSIDE

NSC - 40774



Chemical Name:

6-Methylthio-9- β -*D*-ribofuranosyl-9*H*-purine

Other Names:

6-MMPR; 6-Methyl MP-ribose; 6-Methyl-mercaptapurine riboside

CAS Registry Number: 342-69-8

Molecular Formula: C₁₁H₁₄N₄O₄S

M.W.: 298.3

Approximate Solubility:

(mg/mL)

DMA	167
50% DMF	50
H ₂ O	25
Propylene glycol	6

Stability:**Bulk:**

The compound is stable to light and air, mildly decomposed by heat and acid, and is totally degraded by base and peroxidant (HPLC).

Solution:

A saturated solution at room temperature showed no detectable decomposition after 10 days (paper chromatography).

Ultraviolet Absorption:

(Water)

λ_{\max}	ϵ
292 \pm 2 nm	19,000 - 19,600
224 \pm 2 nm	11,500 - 12,200

High Performance Liquid Chromatography:

Column:	μ Bondapak C ₁₈ , 300 mm x 3.9 mm i.d.
Mobile Phase:	Acetonitrile/water, 12/88, v/v
Flow Rate:	1 mL/min
Detection:	UV at 254 nm
Sample Preparation:	0.2 mg/mL in water or internal standard solution

Internal Standard: acetanilide (0.05 mg/mL in water)

Retention Volume: 13 mL (NSC - 40774)
20 mL (I.S.)

Optical Rotation:

(c = 1, H₂O)

$$[\alpha]_D^{22} = -58.0 \pm 2^\circ$$

Toxicity Data:

Rat(ip): LD₅₀: 65 mg/kg
Archives of Pathology, 86,395,(1968)