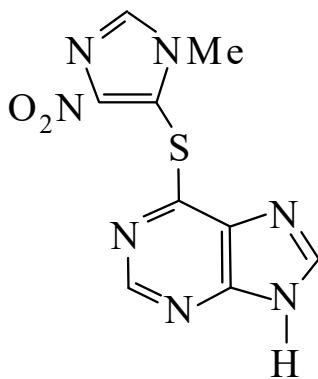




>>**Entry Name:** Azathioprine, BAN, INN, JAN, USAN

Synonym(s): 6-[(1-Methyl-4-nitro-1*H*-imidazol-5-yl)thio]-1*H*-purine, 9Cl. Azamune. Azanin. Azapress. Immunoprin. Imuran. Imurek. Oprisine. Thioprine. Zytrim. BW 57-322. NSC 39084. Many other names



CAS Registry Number: 446-86-6

Related CAS Registry Numbers(s): 55774-33-9

Molecular Formula: C₉H₇N₇O₂S

Molecular Weight: 277.266

Accurate Mass: 277.038193

Percentage Composition: C 38.99%; H 2.54%; N 35.36%; O 11.54%; S 11.57%

Biological Use/Importance: Immunosuppressant. Used in organ transplantation, and to treat rheumatoid arthritis

Physical Description: Pale yellow cryst. (Me₂CO aq.)

Melting Point: Mp 243-244 dec.°

Calculated Log P Data: Log P 0.37 (calc)

Other Data: Also used as Na salt (Azathioprine sodium, USAN)

Hazard & Toxicity: Human and exp. carcinogen. Adverse effects when used therapeutically incl. dose-related bone marrow depression and hepatic disorders. LD₅₀ (rat, orl) 535 mg/kg. Exp. reprod. and teratogenic effects

Sigma: A4638

References:

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