



Product Information

Product ID S8248

CAS No. 723-46-6

Chemical Name 4-Amino-N-(5-methyl-3-isoxazolyl)benzenesulfon- amide

Synonym Sulfisomezole, Sulfamethylisoxazole, Sulfamethoxizole, Gantanol, Sinomin

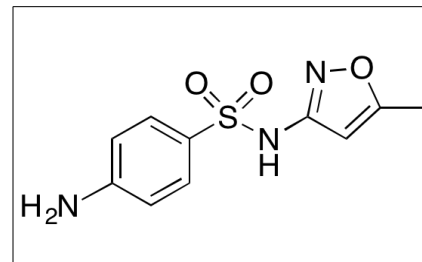
Formula C₁₀H₁₁N₃O₃S

Formula Wt. 253.28

Melting Point 169-172 °C

Purity ≥98%

Solubility Insoluble in water.



Bulk quantities available upon request

Product ID	Size
S8248	10 g
S8248	25 g
S8248	100 g

Store Temp Ambient

Ship Temp Ambient

Description Sulfamethoxazole is a sulfonamide antibiotic that competitively inhibits PABA, preventing bacterial production of folic acid and synthesis of DNA. Sulfamethoxazole displays antibacterial activity against *Streptococcus*, *Staphylococcus*, *Escherichia*, *Haemophilus*, and *Pneumocystis*.

References Jacobs RF, Wilson CB. Intracellular penetration and antimicrobial activity of antibiotics. J Antimicrob Chemother. 1983 Oct;12 Suppl C:13-20. PMID: 6605963.

Gleckman R, Alvarez S, Joubert DW. Drug therapy reviews: trimethoprim-sulfamethoxazole. Am J Hosp Pharm. 1979 Jul;36(7):893-906. PMID: 382841.

Lewis EL, Lacey RW. Present significance of resistance to trimethoprim and sulphonamides in coliforms, *Staphylococcus aureus*, and *Streptococcus faecalis*. J Clin Pathol. 1973 Mar;26(3):175-80. PMID: 4633678.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.