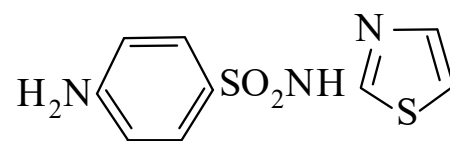




>>Entry Name: Sulfathiazole, INN

Synonym(s): 4-Amino-*N*-2-thiazolylbenzenesulfonamide, 9CI. *N*'-2-Thiazolylsulfanilamide, 8CI. 2-Sulfanilamidothiazole. **Sulphathiazole**, BAN. Cerazole. Sulfex. Norsulfazole. RP 2090. M



CAS Registry Number: 72-14-0

Related CAS Registry Numbers(s): 6791-71-5

Molecular Formula: C₉H₉N₃O₂S₂

Molecular Weight: 255.321

Accurate Mass: 255.013617

Percentage Composition: C 42.34%; H 3.55%; N 16.46%; O 12.53%; S 25.12%

Use/Importance: Sulfonamide. Used in treatment of severe staphylococcal infections, but use restricted due to its systemic toxicity. Used as a 0.01*M* soln. in 0.01*M* NaOH for potentiometric and conductometric detn. of Ag

Physical Description: Yellowish-white prismatic rods and six-sided plates and prisms. Dimorphic

Melting Point: Mp 200-203° (rods). Mp *ca.* 175° (plates)

pKa Value: p*K*_{a1} 2.1; p*K*_{a2} 7.43 (20°)

Calculated Log P Data: Log P 0.72 (calc)

Hazard & Toxicity: Adverse therapeutic effects include conjunctiva irritation, allergic skin dermatitis, and kidney effects. LD₅₀ (mus, orl) 4500 mg/kg

Aldrich: 29290-7

Rare Chemicals Library: S58090-2

Sigma: S9876

>>Derivative: Na salt

CAS Registry Number: 144-74-1

Solubility: V. sol. H₂O

Other Data: Absorbs CO₂ from humid air

Fluka: 86124

Sigma: S0127

References:

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