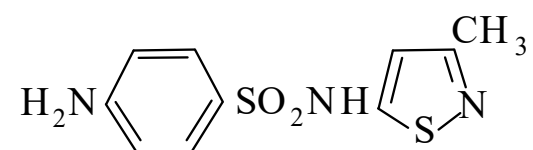




>>Entry Name: Sulfasomizole, INN, USAN

Synonym(s): 4-Amino-*N*-(3-methyl-5-isothiazolyl)benzenesulfonamide, 9Cl. *N*'-(3-Methyl-5-isothiazolyl)sulfanilamide, 8Cl. 5-(4-Aminobenzenesulfonamido)-3-methylisothiazole. 4-Methyl-2-sulfanilamidothiazole. Sulfamethylisothiazole. **Sulphasomizole**, BAN. Amidozol. Bidizole. E 438. M & B 4438. NSC 139593. TH 2132



CAS Registry Number: 632-00-8

Molecular Formula: C<sub>10</sub>H<sub>11</sub>N<sub>3</sub>O<sub>2</sub>S<sub>2</sub>

Molecular Weight: 269.348

Accurate Mass: 269.029267

Percentage Composition: C 44.59%; H 4.12%; N 15.60%; O 11.88%; S 23.81%

Use/Importance: Sulfonamide antibacterial agent

Physical Description: Cream-coloured needles (H<sub>2</sub>O)

Development Status: No longer marketed

Melting Point: Mp 192-192.5°. Mp 236-238°

Calculated Log P Data: Log P 0.9 (calc)

Sigma: S1008

>>Derivative: *N*-Ac

Molecular Formula: C<sub>12</sub>H<sub>13</sub>N<sub>3</sub>O<sub>3</sub>S<sub>2</sub>

Molecular Weight: 311.385

Accurate Mass: 311.039832

Percentage Composition: C 46.29%; H 4.21%; N 13.49%; O 15.41%; S 20.60%

Melting Point: Mp 259-260°

#### References:

Fosbinder, R. *et al.*, *J.A.C.S.*, 1939, **61**, 2032, (*synth*)

Adams, A. *et al.*, *J.C.S.*, 1959, 3070, (*synth*)

Adams, A. *et al.*, *Nature (London)*, 1960, **186**, 221, (*pharmacol*)

Vignoli, L. *et al.*, *Ann. Pharm. Fr.*, 1963, **21**, 477, (*uv*)

Chouteau, J. *et al.*, *Ann. Pharm. Fr.*, 1963, **21**, 487, (*ir*)

Goerdeler, J. *et al.*, *Chem. Ber.*, 1969, **102**, 2273, (*synth*)