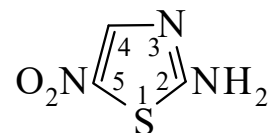




>>Entry Name: **2-Amino-5-nitrothiazole**

Synonym(s): 5-Nitro-2-thiazolamine, 9Cl. Enheptin. Entramine. Hexa-ex. Nitramin IDO



CAS Registry Number: 121-66-4

Molecular Formula: C₃H₃N₃O₂S

Molecular Weight: 145.142

Accurate Mass: 144.994597

Percentage Composition: C 24.83%; H 2.08%; N 28.95%; O 22.05%; S 22.09%

Biological Use/Importance: Antibacterial agent

Melting Point: Mp 195-196°. Mp 200-202°

Calculated Log P Data: Log P 0.11 (calc)

Hazard & Toxicity: Exp. carcinogen and neoplastic agent

Aldrich: 13350-7

Fluka: 8960

Sigma: A2634

>>Derivative: *N*-Formyl

Synonym(s): *N*-(5-Nitro-2-thiazolyl)formamide, 8Cl. **Forminitrazole**, BAN, INN. Aroxine. BW 51-291. BW 291 C 51

CAS Registry Number: 500-08-3

Molecular Formula: C₄H₃N₃O₃S

Molecular Weight: 173.152

Accurate Mass: 172.989512

Percentage Composition: C 27.75%; H 1.75%; N 24.27%; O 27.72%; S 18.52%

Biological Use/Importance: Antiprotozoal, antitrichomonal agent

Physical Description: Straw-coloured needles (EtOH or EtOAc)

Development Status: No longer marketed

Melting Point: Mp 194°

Calculated Log P Data: Log P 0.45 (calc)

>>Derivative: *N*-Ac

Synonym(s): **Acinitrazole**, BAN. Nithiamide, USAN. Aminitrozole, INN. Many other names

CAS Registry Number: 140-40-9

Molecular Formula: C₅H₅N₃O₃S

Molecular Weight: 187.179

Accurate Mass: 187.005162

Percentage Composition: C 32.08%; H 2.69%; N 22.45%; O 25.64%; S 17.13%

Biological Use/Importance: Veterinary antibacterial agent

Melting Point: Mp 264-265°

Calculated Log P Data: Log P 0.27 (calc)

Hazard & Toxicity: LD₅₀ (mus, orl) 1000 mg/kg. Mutagenic props.

Rare Chemicals Library: S54084-6

>>Derivative: *N*-Me

CAS Registry Number: 59849-85-3

Molecular Formula: C₄H₅N₃O₂S

Molecular Weight: 159.168

Accurate Mass: 159.010247

Percentage Composition: C 30.18%; H 3.17%; N 26.40%; O 20.10%; S 20.15%

Physical Description: Yellow prisms (EtOH)

Melting Point: Mp 223-224°

References: