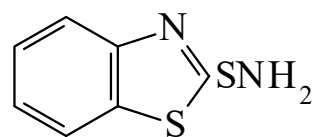




>>Entry Name: 2-Benzothiazolesulfenamide, 9CI

Synonym(s): 2-Aminomercaptobenzothiazole



CAS Registry Number: 2801-21-0

Molecular Formula: C₇H₆N₂S₂

Molecular Weight: 182.27

Accurate Mass: 181.997238

Percentage Composition: C 46.13%; H 3.32%; N 15.37%; S 35.19%

Use/Importance: Derivs. are vulcanisation accelerators

Melting Point: Mp 127-128°

Hazard & Toxicity: LD₅₀ (mus, orl) 1700 mg/kg

>>Derivative: *N*-Et

Synonym(s): *N*-Ethyl-2-benzothiazolesulfenamide

CAS Registry Number: 38335-52-3

Molecular Formula: C₉H₁₀N₂S₂

Molecular Weight: 210.323

Accurate Mass: 210.028538

Percentage Composition: C 51.40%; H 4.79%; N 13.32%; S 30.49%

Melting Point: Mp 52-53°

>>Derivative: *N,N*-Diisopropyl

Synonym(s): *N,N*-Bis(1-methylethyl)-2-benzothiazolesulfenamide

CAS Registry Number: 95-29-4

Molecular Formula: C₁₃H₁₈N₂S₂

Molecular Weight: 266.431

Accurate Mass: 266.091138

Percentage Composition: C 58.61%; H 6.81%; N 10.51%; S 24.07%

Melting Point: Mp 58.5-59.5°

>>Derivative: *N-tert*-Butyl

Synonym(s): *N-tert*-Butyl-2-benzothiazolesulfenamide. Accel BNS

CAS Registry Number: 95-31-8

Molecular Formula: C₁₁H₁₄N₂S₂

Molecular Weight: 238.377

Accurate Mass: 238.059838

Percentage Composition: C 55.43%; H 5.92%; N 11.75%; S 26.90%

Use/Importance: Vulcanising agent

Melting Point: Mp 107.5-109°

Rare Chemicals Library: S43032-3

>>Derivative: *N*-Cyclohexyl

Synonym(s): *N*-Cyclohexyl-2-benzothiazolesulfenamide. Accelerator C2. Thiohexam

CAS Registry Number: 95-33-0

Molecular Formula: C₁₃H₁₆N₂S₂

Molecular Weight: 264.415

Accurate Mass: 264.075488

Percentage Composition: C 59.05%; H 6.10%; N 10.59%; S 24.25%

Use/Importance: Vulcanisation accelerator

Melting Point: Mp 103-104°

Hazard & Toxicity: Exp. reprod. and teratogenic effects. LD₅₀ (rat, orl) 5300 mg/kg

Rare Chemicals Library: S36597-1