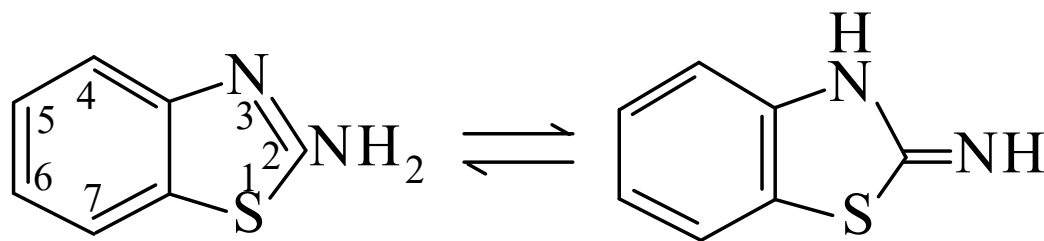




>>Entry Name: 2-Aminobenzothiazole

Synonym(s): 2-Benzothiazolamine, 9Cl. μ -Aminobenzothiazole



CAS Registry Number: 136-95-8

Molecular Formula: $C_7H_6N_2S$

Molecular Weight: 150.204

Accurate Mass: 150.025168

Percentage Composition: C 55.98%; H 4.03%; N 18.65%; S 21.35%

Use/Importance: Used as a soln. in EtOH aq. for gravimetric detn. of Hg and photometric detn. of Pd ($\lambda_{\max}$ 370 nm)

Physical Description: Leaflets (H_2O)

Melting Point: Mp 132°. Mp 123°

Solubility: Sol. Et_2O , EtOH, $CHCl_3$

Hazard & Toxicity: LD₅₀ (mus, ipr) 200 mg/kg

Aldrich: 10881-2

Fluka: 7090

Sigma: A3645

>>Derivative: 2-*N*-Ac

CAS Registry Number: 3028-06-6

Molecular Formula: $C_9H_8N_2OS$

Molecular Weight: 192.241

Accurate Mass: 192.035733

Percentage Composition: C 56.23%; H 4.19%; N 14.57%; O 8.32%; S 16.68%

Melting Point: Mp 186°

Rare Chemicals Library: S91523-8

>>Derivative: 2-*N*-Benzoyl

CAS Registry Number: 5005-14-1

Molecular Formula: $C_{14}H_{10}N_2OS$

Molecular Weight: 254.312

Accurate Mass: 254.051383

Percentage Composition: C 66.12%; H 3.96%; N 11.02%; O 6.29%; S 12.61%

Melting Point: Mp 186°

>>Derivative: 2-*N*-Me

CAS Registry Number: 16954-69-1

Molecular Formula: $C_8H_8N_2S$

Molecular Weight: 164.231

Accurate Mass: 164.040818

Percentage Composition: C 58.51%; H 4.91%; N 17.06%; S 19.52%

Physical Description: Prisms (EtOH)

Melting Point: Mp 138°

>>Derivative: 2-*N*-Ph

Synonym(s): 2-Anilinobenzothiazole

CAS Registry Number: 1843-21-6

Molecular Formula: $C_{13}H_{10}N_2S$

Molecular Weight: 226.301

Accurate Mass: 226.056468

Percentage Composition: C 69.00%; H 4.45%; N 12.38%; S 14.17%

Physical Description: Needles (EtOH)

Melting Point: Mp 159°