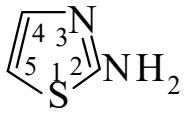
>>**Entry Name: 2-Aminothiazole**
Synonym(s): 2-Thiazolamine, 9CI. **Aminothiazole,** INN. Abadol. RP 2921



CAS Registry Number: 96-50-4
Related CAS Registry Numbers(s): 61169-63-9

Molecular Formula: $C_3H_4N_2S$
Molecular Weight: 100.144
Accurate Mass: 100.009518
Percentage Composition: C 35.98%; H 4.03%; N 27.97%; S 32.02%
Use/Importance: Thyroid inhibitor; metal corrosion inhibitor
Physical Description: Yellow cryst. (EtOH)
Melting Point: Mp 90°
Boiling Point: Bp_{11} 140°
pKa Value: pK_a 5.32 (25°)
Calculated Log P Data: Log P 0.22 (calc)
Hazard & Toxicity: Ignited in drying oven. Violent explosion when nitrated with nitric/sulfuric acids. LD_{50} (rat, orl) 480 mg/kg

Aldrich: 12312-9
Fluka: 9480
Sigma: A0147

>>**Derivative:** *N*-Ac

CAS Registry Number: 2719-23-5
Molecular Formula: $C_5H_6N_2OS$
Molecular Weight: 142.181
Accurate Mass: 142.020083
Percentage Composition: C 42.24%; H 4.25%; N 19.70%; O 11.25%; S 22.55%
Physical Description: Cryst. (H_2O)
Melting Point: Mp 203°

Rare Chemicals Library: S41396-8

>>**Derivative:** *N*-Benzoyl

CAS Registry Number: 13053-82-2
Molecular Formula: $C_{10}H_8N_2OS$
Molecular Weight: 204.252
Accurate Mass: 204.035733
Percentage Composition: C 58.80%; H 3.95%; N 13.72%; O 7.83%; S 15.70%
Melting Point: Mp 152°

>>**Derivative:** *N*-Me

CAS Registry Number: 6142-06-9
Molecular Formula: $C_4H_6N_2S$
Molecular Weight: 114.171
Accurate Mass: 114.025168
Percentage Composition: C 42.08%; H 5.30%; N 24.54%; S 28.09%
Melting Point: Mp 80-82°

>>**Derivative:** *N*-Et

CAS Registry Number: 13472-75-8
Molecular Formula: $C_5H_8N_2S$
Molecular Weight: 128.198
Accurate Mass: 128.040818
Percentage Composition: C 46.85%; H 6.29%; N 21.85%; S 25.01%
Melting Point: Mp 49-50°