



>>Entry Name: 2-Amino-5-methylthiazole

Synonym(s): 5-Methyl-2-thiazolamine, 9Cl

CAS Registry Number: 7305-71-7

Related CAS Registry Numbers(s): 52829-93-3

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%

Physical Description: Cryst. ($CHCl_3$)

Melting Point: Mp 96°

Aldrich: 38056-3

>>Derivative: Hydrochloride

CAS Registry Number: 6593-86-8

Melting Point: Mp 94-95°

>>Derivative: *N*-Ac

Molecular Formula: $C_6H_8N_2OS$

Molecular Weight: 156.208

Accurate Mass: 156.035733

Percentage Composition: C 46.13%; H 5.16%; N 17.93%; O 10.24%; S 20.53%

Melting Point: Mp 221-222°

>>Derivative: *N*-Me

Synonym(s): 5-Methyl-2-(methylamino)thiazole

CAS Registry Number: 52829-91-1

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%

>>Derivative: *N,N*-Di-Me

Synonym(s): 2-(Dimethylamino)-5-methylthiazole

CAS Registry Number: 52963-36-7

Molecular Formula: $C_6H_{10}N_2S$

Molecular Weight: 142.224

Accurate Mass: 142.056468

Percentage Composition: C 50.67%; H 7.09%; N 19.70%; S 22.55%

Boiling Point: Bp₁₅ 86-88°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 114C, (*nmr*)

Erlenmeyer, H. *et al.*, *Helv. Chim. Acta*, 1955, **38**, 1291, (*synth*)

Eloy, F. *et al.*, *Chim. Ther.*, 1973, **8**, 437, (*derivs*)

Forlani, L., *Gazz. Chim. Ital.*, 1981, **111**, 159, (*pmr, tautom*)

Tseng, C.K., *Magn. Reson. Chem.*, 1987, **25**, 105, (*cmr*)

Banert, K. *et al.*, *Angew. Chem., Int. Ed.*, 1992, **31**, 90, (*synth*)