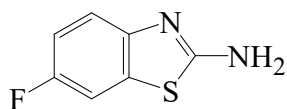




>>Entry Name: 2-Amino-6-fluorobenzothiazole, 8CI

Synonym(s): 6-Fluoro-2-benzothiazolamine, 9CI



CAS Registry Number: 348-40-3

Molecular Formula: C₇H₅FN₂S

Molecular Weight: 168.194

Accurate Mass: 168.015746

Percentage Composition: C 49.99%; H 3.00%; F 11.30%; N 16.66%; S 19.06%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 183-185°

>>Derivative: *N*-Formyl

CAS Registry Number: 16194-63-1

Molecular Formula: C₈H₅FN₂OS

Molecular Weight: 196.205

Accurate Mass: 196.010661

Percentage Composition: C 48.97%; H 2.57%; F 9.68%; N 14.28%; O 8.15%; S 16.34%

Melting Point: Mp 262-263°

>>Derivative: *N*-Ac

CAS Registry Number: 16194-64-2

Molecular Formula: C₉H₇FN₂OS

Molecular Weight: 210.232

Accurate Mass: 210.026311

Percentage Composition: C 51.42%; H 3.36%; F 9.04%; N 13.33%; O 7.61%; S 15.25%

Melting Point: Mp 221°

>>Derivative: *N*-Benzoyl

CAS Registry Number: 16194-65-3

Molecular Formula: C₁₄H₉FN₂OS

Molecular Weight: 272.302

Accurate Mass: 272.041961

Percentage Composition: C 61.75%; H 3.33%; F 6.98%; N 10.29%; O 5.88%; S 11.78%

Melting Point: Mp 207°

>>Derivative: *N*-Me

Molecular Formula: C₈H₇FN₂S

Molecular Weight: 182.221

Accurate Mass: 182.031396

Percentage Composition: C 52.73%; H 3.87%; F 10.43%; N 15.37%; S 17.60%

Physical Description: Cryst. (THF)

Melting Point: Mp 78-79°

References:

- Takatori, K. *et al.*, *Yakugaku Zasshi*, 1967, **87**, 867; *CA*, **67**, 90709y, (*synth, N-formyl, N-Ac, N-benzoyl*)
Jackson, F.H. *et al.*, *J.C.S.(C)*, 1969, 268, (*synth, uv, ir*)
Sawhney, S.N. *et al.*, *J.O.C.*, 1979, **44**, 1136, (*cmr*)
Lin, A.J. *et al.*, *J. Het. Chem.*, 1981, **18**, 759, (*N-Me, synth*)