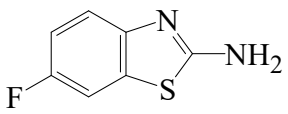
>>**Entry Name: 2-Amino-6-fluorobenzothiazole,** 8CI
**Synonym(s):** 6-Fluoro-2-benzothiazolamine, 9CI



**CAS Registry Number:** 348-40-3

**Molecular Formula:** $C_7H_5FN_2S$
**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:** $C_8H_5FN_2OS$
**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:** $C_9H_7FN_2OS$
**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:** $C_{14}H_9FN_2OS$
**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:** $C_8H_7FN_2S$
**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)*