



>>Entry Name: 4-Fluoro-2-(trifluoromethyl)aniline

Synonym(s): 4-Fluoro-2-(trifluoromethyl)benzenamine, 9Cl. $\alpha,\alpha,\alpha,4$ -Tetrafluoro-*o*-toluidine. 2-Amino-5-fluorobenzotrifluoride

CAS Registry Number: 393-39-5

Structure by analogy with 2-Fluoro-5-(trifluoromethyl)aniline, [MZX55-X](#)

Molecular Formula: $C_7H_5F_4N$

Molecular Weight: 179.117

Accurate Mass: 179.035811

Percentage Composition: C 46.94%; H 2.81%; F 42.43%; N 7.82%

Boiling Point: Bp_{17.5} 70-72°. Bp₄₀ 89-90°

Aldrich: 21775-1

Sigma: A6129

>>Derivative: *N*-Ac

Molecular Formula: $C_9H_7F_4NO$

Molecular Weight: 221.154

Accurate Mass: 221.046376

Percentage Composition: C 48.88%; H 3.19%; F 34.36%; N 6.33%; O 7.23%

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 121-121.5°

References:

Finger, G.C. *et al.*, *J.A.C.S.*, 1944, **66**, 1972

Mulvey, D.M. *et al.*, *Tet. Lett.*, 1978, 1419, (*synth*)

Fifolt, M.J. *et al.*, *J.O.C.*, 1989, **54**, 3019, (*F-19 nmr*)