



>>Entry Name: **3-Fluoroaniline**

Synonym(s): 3-Fluorobenzenamine, 9CI

CAS Registry Number: 372-19-0

Structure by analogy with 2-Fluoroaniline, [DTM13-V](#)

Molecular Formula: C₆H₆FN

Molecular Weight: 111.118

Accurate Mass: 111.048427

Percentage Composition: C 64.86%; H 5.44%; F 17.10%; N 12.61%

Physical Description: Yellow liq.

Boiling Point: Bp 187-189°. Bp₁₈ 82-83°

pKa Value: pK_a 3.57 (25°, 1% EtOH)

Aldrich: F360-6

Fluka: 46480

Sigma: F8000

>>Derivative: *N*-Ac

Synonym(s): *m*-Fluoroacetanilide

CAS Registry Number: 351-28-0

Molecular Formula: C₈H₈FNO

Molecular Weight: 153.156

Accurate Mass: 153.058992

Percentage Composition: C 62.74%; H 5.26%; F 12.40%; N 9.15%; O 10.45%

Melting Point: Mp 84.6°

Aldrich: 36378-2

Rare Chemicals Library: S60378-3

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

CAS Registry Number: 2107-43-9

Molecular Formula: C₈H₁₀FN

Molecular Weight: 139.172

Accurate Mass: 139.079727

Percentage Composition: C 69.04%; H 7.24%; F 13.65%; N 10.06%

Boiling Point: Bp₁₅ 82°. Bp₆ 72-73°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 467B; 1363A, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1198B, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1118A, (*ir*)

Ingold, C.K. *et al.*, *J.C.S.*, 1928, 421

v. Braun, J. *et al.*, *Ber.*, 1931, **64**, 2465

Schiemann, G., *Z. Phys. Chem., Abt. A*, 1931, **156**, 397

Kovacic, P. *et al.*, *J.A.C.S.*, 1962, **84**, 759, (*synth*)

Budzisz, T. *et al.*, *Chem. Stosow., Ser. A*, 1968, **12**, 77, (*ir, uv, synth*)

Lalancette, J.M. *et al.*, *Can. J. Chem.*, 1971, **49**, 2990, (*synth*)

Anand, S.P. *et al.*, *J. Fluorine Chem.*, 1976, **7**, 179, (*synth*)

Protiva, M. *et al.*, *Coll. Czech. Chem. Comm.*, 1986, **51**, 2598, (*synth*)