



>>Entry Name: 4-Fluoro-1*H*-indole, 9CI

CAS Registry Number: 387-43-9

Structure by analogy with 3-Fluoro-1*H*-indole, [HFN19-E](#)

Molecular Formula: C₈H₆FN

Molecular Weight: 135.14

Accurate Mass: 135.048427

Percentage Composition: C 71.10%; H 4.47%; F 14.06%; N 10.36%

Physical Description: Prisms (MeOH aq.)

Melting Point: Mp 29-30°

pKa Value: p*K*_a 16.3

Aldrich: 45739-6

Sigma: F1626

>>Derivative: Picrate

Physical Description: Orange-red cryst. (C₆H₆)

Melting Point: Mp 164-166°

>>Derivative: 1,3,5-Trinitrobenzene complex

Physical Description: Orange-yellow cryst. (EtOH)

Melting Point: Mp 172°

References:

Allen, F.L. *et al.*, *J.C.S.*, 1955, 1283, (*synth, uv, derivs*)

Bentov, N. *et al.*, *Isr. J. Chem.*, 1964, **2**, 25, (*synth*)

Yagil, G., *Tetrahedron*, 1967, **23**, 2855, (*props*)

Asher, K. *et al.*, *Isr. J. Chem.*, 1968, **6**, 927

Sugasawa, T. *et al.*, *J.O.C.*, 1979, **44**, 578, (*synth, ir*)

Somei, M. *et al.*, *Chem. Pharm. Bull.*, 1985, **33**, 3696, (*synth, ir, pmr*)