



>>Entry Name: 2-Fluoro-5-nitroaniline

Synonym(s): 2-Fluoro-5-nitrobenzenamine, 9Cl

CAS Registry Number: 369-36-8

Structure by analogy with 2-Fluoro-3-nitroaniline, [FFZ62-Y](#)

Molecular Formula: C₆H₅FN₂O₂

Molecular Weight: 156.116

Accurate Mass: 156.033506

Percentage Composition: C 46.16%; H 3.23%; F 12.17%; N 17.94%; O 20.50%

Physical Description: Yellow needles

Melting Point: Mp 101-102°

pKa Value: pK_a 1.09 (25°)

Aldrich: 15585-3

Fluka: 47125

>>Derivative: N-Ac

Synonym(s): 2-Fluoro-5-nitroacetanilide

CAS Registry Number: 454-07-9

Molecular Formula: C₈H₇FN₂O₃

Molecular Weight: 198.153

Accurate Mass: 198.044071

Percentage Composition: C 48.49%; H 3.56%; F 9.59%; N 14.14%; O 24.22%

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 178-179°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 742C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1365B, (*ir*)

Swarts, F., *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1915, **35**, 131, (*synth*)

Bil, M., *Chem. Ind. (London)*, 1969, 198, (*synth*)

Appleton, J.M. *et al.*, *Aust. J. Chem.*, 1970, **23**, 1667, (*nmr*)

Hudlicky, M. *et al.*, *J. Fluorine Chem.*, 1974, **4**, 19