



>>Entry Name: 4-Fluoro-3-nitroaniline

Synonym(s): 4-Fluoro-3-nitrobenzenamine, 9CI

CAS Registry Number: 364-76-1

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%

Use/Importance: Dyestuffs intermediate; has insecticidal props.

Physical Description: Orange needles (H₂O)

Melting Point: Mp 98°

pKa Value: pK_a 2.44 (25°, 1% EtOH)

Aldrich: 15586-1

Fluka: 47130

>>Derivative: N-Ac

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%

Melting Point: Mp 138.5°

>>Derivative: N-Me

CAS Registry Number: 24773-12-4

Molecular Formula: C₇H₇FN₂O₂

Molecular Weight: 170.143

Accurate Mass: 170.049156

Percentage Composition: C 49.42%; H 4.15%; F 11.17%; N 16.46%; O 18.81%

Physical Description: Orange cryst.

Melting Point: Mp 90-91°

References:

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

Bil, M.S., *J. Appl. Chem. Biotechnol.*, 1972, **22**, 853

Sterk, H. *et al.*, *Org. Magn. Reson.*, 1975, **7**, 274, (*nmr*)

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