



>>Entry Name: 4-Fluoro-2-nitroaniline

Synonym(s): 4-Fluoro-2-nitrobenzenamine, 9CI

CAS Registry Number: 364-78-3

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

Molecular Formula: $C_6H_5FN_2O_2$

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: Orange prisms (Et₂O)

Melting Point: Mp 93.5-94°

pKa Value: $pK_a -0.44$ (25°, HClO₄ aq.)

Aldrich: 16255-8

Fluka: 47127

Sigma: F5011

>>Derivative: *N*-Ac

Synonym(s): 4-Fluoro-2-nitroacetanilide

CAS Registry Number: 448-39-5

Molecular Formula: $C_8H_7FN_2O_3$

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: Pale yellow prisms (EtOH aq.)

Melting Point: Mp 71-75°

Aldrich: 36913-6

>>Derivative: *N*-Me

Molecular Formula: $C_7H_7FN_2O_2$

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: Red powder

Melting Point: Mp 73-74°

References:

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Kavalek, J. *et al.*, *CA*, 1969, **71**, 60901, (*synth*)

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