>>**Entry Name: 5-Methyl-2-nitroaniline**
Synonym(s): 2-Nitro-5-methylbenzenamine, 9CI. 6-Nitro-*m*-toluidine, 8CI

CAS Registry Number: 578-46-1

Molecular Formula: $C_7H_8N_2O_2$
Molecular Weight: 152.152
Accurate Mass: 152.058578
Percentage Composition: C 55.26%; H 5.30%; N 18.41%; O 21.03%
Physical Description: Yellow cryst. (EtOH aq.)
Melting Point: Mp 110°
pKa Value: pK_a –0.09 (25°)

Aldrich: 26166-1

>>**Derivative:** *N*-Ac
Synonym(s): 5-Methyl-2-nitroacetanilide. 6-Nitroacet-*m*-toluidide

CAS Registry Number: 7418-36-2
Molecular Formula: $C_9H_{10}N_2O_3$
Molecular Weight: 194.19
Accurate Mass: 194.069143
Percentage Composition: C 55.67%; H 5.19%; N 14.43%; O 24.72%
Physical Description: Yellow cryst. (H_2O or petrol)
Melting Point: Mp 87°

>>**Derivative:** *N*-Benzoyl

Molecular Formula: $C_{14}H_{12}N_2O_3$
Molecular Weight: 256.26
Accurate Mass: 256.084793
Percentage Composition: C 65.62%; H 4.72%; N 10.93%; O 18.73%
Physical Description: Cryst.
Melting Point: Mp 83°

>>**Derivative:** *N*-Me

CAS Registry Number: 65081-42-7
Molecular Formula: $C_8H_{10}N_2O_2$
Molecular Weight: 166.179
Accurate Mass: 166.074228
Percentage Composition: C 57.82%; H 6.07%; N 16.86%; O 19.26%
Physical Description: Brownish-yellow prisms (MeOH aq.)
Melting Point: Mp 83° (69°)

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

Physical Description: Yellow parallelipipeds (MeOH)
Melting Point: Mp 41°
Boiling Point: Bp_3 128°

References:

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Hancock, C.K. *et al.*, *J.O.C.*, 1968, **33**, 1947, *(synth)*
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