>>**Entry Name: 4-Amino-2-nitrophenol,** 9CI

CAS Registry Number: 119-34-6

Molecular Formula: $C_6H_6N_2O_3$
Molecular Weight: 154.125
Accurate Mass: 154.037843
Percentage Composition: C 46.76%; H 3.92%; N 18.18%; O 31.14%
Physical Description: Dark-red plates or needles
Melting Point: Mp 131°
pKa Value: pK_{a1} 7.81 (25°)
Hazard & Toxicity: LD_{50} (rat, orl) 1470 mg/kg. Exp. carcinogenic data

Aldrich: 14721-4

>>**Derivative:** *N*-Ac
Synonym(s): 4-Hydroxy-3-nitroacetanilide

CAS Registry Number: 51288-37-0
Molecular Formula: $C_8H_8N_2O_4$
Molecular Weight: 196.162
Accurate Mass: 196.048408
Percentage Composition: C 48.98%; H 4.11%; N 14.28%; O 32.62%
Physical Description: Yellow needles (H_2O)
Melting Point: Mp 159°
pKa Value: pK_{a1} 6.78 (25°)

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

Molecular Formula: $C_7H_8N_2O_3$
Molecular Weight: 168.152
Accurate Mass: 168.053493
Percentage Composition: C 50.00%; H 4.80%; N 16.66%; O 28.54%
Physical Description: Purple-black leaflets or reddish-brown cryst.
Melting Point: Mp 115-116°

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

Molecular Formula: $C_8H_{10}N_2O_3$
Molecular Weight: 182.179
Accurate Mass: 182.069143
Percentage Composition: C 52.74%; H 5.53%; N 15.38%; O 26.35%
Physical Description: Black lustrous prisms
Melting Point: Mp 54°

>>**Derivative:** Me ether
Synonym(s): 4-Methoxy-3-nitroaniline. 4-Methoxy-3-nitrobenzenamine, 9CI. 3-Nitro-*p*-anisidine, 8CI. 4-Amino-2-nitroanisole

Molecular Formula: $C_7H_8N_2O_3$
Molecular Weight: 168.152
Accurate Mass: 168.053493
Percentage Composition: C 50.00%; H 4.80%; N 16.66%; O 28.54%
Physical Description: Red prisms (Et_2O/petrol)
Melting Point: Mp 57-57.5°
pKa Value: pK_a 3.36 (25°)

>>**Derivative:** Me ether, *N*-Ac
Synonym(s): 4-Methoxy-3-nitroacetanilide

CAS Registry Number: 50651-39-3
Molecular Formula: $C_9H_{10}N_2O_4$
Molecular Weight: 210.189
Accurate Mass: 210.064058
Percentage Composition: C 51.43%; H 4.80%; N 13.33%; O 30.45%
Physical Description: Yellow needles (H_2O)
Melting Point: Mp 153°