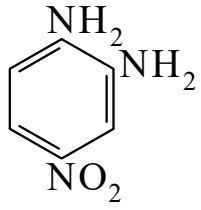
>>**Entry Name: 1,2-Diamino-4-nitrobenzene**
Synonym(s): 4-Nitro-1,2-benzenediamine, 9CI. 4-Nitro-*o*-phenylenediamine, 8CI



CAS Registry Number: 99-56-9

Molecular Formula: $C_6H_7N_3O_2$
Molecular Weight: 153.14
Accurate Mass: 153.053827
Percentage Composition: C 47.06%; H 4.61%; N 27.44%; O 20.90%
Use/Importance: Used as a 0.6-1% soln. in 1*M* HCl for extraction-photometric detn. of Se (toluene), SO_2 (λ_{max} 475 nm), gc detn. of Se. Reagent for α-keto acids. Forms a second-order nonlinear polymer with bisphenol A diglycidyl ether
Physical Description: Dark-red needles (H_2O)
Melting Point: Mp 201°
Solubility: Sol. EtOH, Me_2CO, C_6H_6, $CHCl_3$; mod. sol. dil. acids
Hazard & Toxicity: LD_{50} (rat, orl) 681 mg/kg. Exp. reprod. and teratogenic effects

Aldrich: 10889-8
Fluka: 73630
Sigma: N9504

>>**Derivative:** 1-*N*-Ac
Synonym(s): 2-Amino-4-nitroacetanilide

CAS Registry Number: 53987-32-9
Molecular Formula: $C_8H_9N_3O_3$
Molecular Weight: 195.177
Accurate Mass: 195.064392
Percentage Composition: C 49.23%; H 4.65%; N 21.53%; O 24.59%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 205°

>>**Derivative:** 2-*N*-Ac
Synonym(s): 2-Amino-5-nitroacetanilide

CAS Registry Number: 43154-39-8
Molecular Formula: $C_8H_9N_3O_3$
Molecular Weight: 195.177
Accurate Mass: 195.064392
Percentage Composition: C 49.23%; H 4.65%; N 21.53%; O 24.59%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 195°

>>**Derivative:** 1,2-*N*-Di-Ac

CAS Registry Number: 30152-85-3
Molecular Formula: $C_{10}H_{11}N_3O_4$
Molecular Weight: 237.215
Accurate Mass: 237.074957
Percentage Composition: C 50.63%; H 4.67%; N 17.71%; O 26.98%
Physical Description: Prisms (AcOH aq.)
Melting Point: Mp 255°

>>**Derivative:** 1,2-*N*-Dibenzoyl

Molecular Formula: $C_{20}H_{15}N_3O_4$
Molecular Weight: 361.356
Accurate Mass: 361.106257
Percentage Composition: C 66.48%; H 4.18%; N 11.63%; O 17.71%
Physical Description: Needles (EtOH)
Melting Point: Mp 235-236°