



Melting Point: Mp 234.5-235°

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

Synonym(s): *N,N*-Diethyl-4-[(4-nitrophenyl)azo]benzenamine, 9Cl

CAS Registry Number: 3025-52-3

Extra CAS Registry Numbers(s): 80631-72-7 80631-73-8

Molecular Formula: C₁₆H₁₈N₄O₂

Molecular Weight: 298.344

Accurate Mass: 298.142976

Percentage Composition: C 64.41%; H 6.08%; N 18.78%; O 10.73%

Physical Description: Dark steel blue needles (C₆H₆); red brown plates (EtOH)

Melting Point: Mp 150-152° (151°)

>>**Derivative:** *N*-Ph

Synonym(s): 4-[(4-Nitrophenyl)azo]-*N*-phenylbenzenamine, 9Cl. C.I. Disperse Orange 1. C.I. 11080

CAS Registry Number: 2581-69-3

Extra CAS Registry Numbers(s): 82248-50-8

Molecular Formula: C₁₈H₁₄N₄O₂

Molecular Weight: 318.334

Accurate Mass: 318.111676

Percentage Composition: C 67.92%; H 4.43%; N 17.60%; O 10.05%

Physical Description: Dark red cryst (C₆H₆/hexane or EtOH aq.)

Melting Point: Mp 162.2-163° (152-153°)

>>**Derivative:** *N*-(2-Hydroxyethyl), *N*-Et

Synonym(s): 2-[Ethyl[4-[(4-nitrophenyl)azo]phenyl]amino]ethanol, 9Cl. 4-[Ethyl(2-hydroxyethyl)amino]-4'-nitroazobenzene. Disperse Fast Scarlet B. C.I. Disperse Red 1. C.I. Solvent Red 14

CAS Registry Number: 2872-52-8

Molecular Formula: C₁₆H₁₈N₄O₃

Molecular Weight: 314.343

Accurate Mass: 314.137891

Percentage Composition: C 61.14%; H 5.77%; N 17.82%; O 15.27%

Use/Importance: Dye for polyesters, also used in manuf. of nonlinear optical polymers

Physical Description: Scarlet platelets (Me₂CO)

Melting Point: Mp 163°

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