



>>Entry Name: 4,4'-Diaminoazobenzene

Synonym(s): 4,4'-Azobisbenzenamine, 9Cl. 4,4'-Azodianiline, 8Cl. *p*-Azoaniline

CAS Registry Number: 538-41-0

Related CAS Registry Numbers(s): 30925-99-6 30926-05-7 71297-91-1

Molecular Formula: C₁₂H₁₂N₄

Molecular Weight: 212.254

Accurate Mass: 212.106196

Percentage Composition: C 67.91%; H 5.70%; N 26.40%

Physical Description: Golden-yellow needles

Melting Point: Mp 250-251° (245-246°)

>>Derivative: *N*-Ac

Molecular Formula: C₁₄H₁₄N₄O

Molecular Weight: 254.291

Accurate Mass: 254.116761

Percentage Composition: C 66.13%; H 5.55%; N 22.03%; O 6.29%

Melting Point: Mp 212°

>>Derivative: *N,N'*-Di-Ac

Molecular Formula: C₁₆H₁₆N₄O₂

Molecular Weight: 296.328

Accurate Mass: 296.127326

Percentage Composition: C 64.85%; H 5.44%; N 18.91%; O 10.80%

Melting Point: Mp 292°

>>Derivative: *N*-Oxide

Synonym(s): 4,4'-Diaminoazoxybenzene. 4,4'-Azoxybisbenzenamine. *p*-Azoxyaniline. 4,4'-Azoxydianiline

Molecular Formula: C₁₂H₁₂N₄O

Molecular Weight: 228.253

Accurate Mass: 228.101111

Percentage Composition: C 63.15%; H 5.30%; N 24.55%; O 7.01%

Physical Description: Yellow needles

Melting Point: Mp 190°

>>Derivative: *N*-Oxide, 4,4'-*N*-Di-Ac

Molecular Formula: C₁₆H₁₆N₄O₃

Molecular Weight: 312.327

Accurate Mass: 312.122241

Percentage Composition: C 61.53%; H 5.16%; N 17.94%; O 15.37%

Melting Point: Mp 275°

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

CAS Registry Number: 539-17-3

Molecular Formula: C₁₄H₁₆N₄

Molecular Weight: 240.307

Accurate Mass: 240.137496

Percentage Composition: C 69.97%; H 6.71%; N 23.31%

Melting Point: Mp 190 dec.°

Aldrich: 37929-8

Fluka: 7730

Sigma: A2783