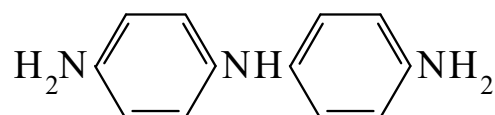




>>Entry Name: 4,4'-Diaminodiphenylamine, 8Cl

Synonym(s): *N*-(4-Aminophenyl)-1,4-benzenediamine, 9Cl



CAS Registry Number: 537-65-5

Related CAS Registry Numbers(s): 6369-04-6

Molecular Formula: C₁₂H₁₃N₃

Molecular Weight: 199.255

Accurate Mass: 199.110947

Percentage Composition: C 72.34%; H 6.58%; N 21.09%

Use/Importance: Starting prod. for many polymers, including polyamides and polyimides. Used as soln. in dil. H₂SO₄ as a redox indicator

Physical Description: Leaflets (H₂O)

Melting Point: Mp 158°

Solubility: Sol. acids

Other Data: E⁺ + 0.75 V

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 51589-08-3

Use/Importance: Antistatic agent in photography

>>Derivative: Sulfate

CAS Registry Number: 53760-27-3

Physical Description: Cryst. (H₂O)

Melting Point: Mp 300°

Aldrich: D1620-7

Fluka: 32940

>>Derivative: 4-*N*-Di-Me

CAS Registry Number: 17913-63-2

Molecular Formula: C₁₄H₁₇N₃

Molecular Weight: 227.308

Accurate Mass: 227.142247

Percentage Composition: C 73.98%; H 7.54%; N 18.49%

Physical Description: Needles

Melting Point: Mp 116°

>>Derivative: 1-*N*-Ph

Synonym(s): 4,4'-Diaminotriphenylamine, 9Cl

CAS Registry Number: 4117-90-2

Molecular Formula: C₁₈H₁₇N₃

Molecular Weight: 275.352

Accurate Mass: 275.142247

Percentage Composition: C 78.52%; H 6.22%; N 15.26%

Use/Importance: Monomer for polyamides and polyimides

Physical Description: Cryst.

Melting Point: Mp 184-186°

References:

Nietzki, R., *Ber.*, 1883, **16**, 474, (*synth*)

Oldfield, L.F. *et al.*, *J. Phys. Colloid Chem.*, 1951, **55**, 1255, (*use*)

Erdey, L. *et al.*, *Acta Chim. Acad. Sci. Hung.*, 1961, **26**, 53, (*synth*)

Dvorak, V. *et al.*, *Microchem. J.*, 1967, **12**, 350, (*polarog*)

Bishop, E., *Indicators*, Pergamon, Oxford, 1972, (*use*)

Malegina, N.D. *et al.*, *Vysokomol. Soedin., Ser. B*, 1972, **14**, 143; 476; *CA*, **77**, 5831w; 114972p, (*polymers*)

Popov, A.F., *CA*, 1973, **79**, 114932, (*ir*)

Lepri, L. *et al.*, *J. Chromatogr.*, 1974, **90**, 331, (*tlc*)

Oishi, Y. *et al.*, *J. Polym. Sci., Part A: Polym. Chem.*, 1990, **28**, 1763, (*polyamides, deriv*)