



>>Entry Name: **1,3-Diamino-4-chlorobenzene**

Synonym(s): 4-Chloro-1,3-benzenediamine, 9Cl. 4-Chloro-*m*-phenylenediamine, 8Cl

CAS Registry Number: 5131-60-2

Molecular Formula: C₆H₇ClN₂

Molecular Weight: 142.587

Accurate Mass: 142.029775

Percentage Composition: C 50.54%; H 4.95%; Cl 24.86%; N 19.65%

Use/Importance: Copolymer for arom. polyamides

Physical Description: Needles

Melting Point: Mp 91°

Hazard & Toxicity: Exp. carcinogen and reprod. effects (v. large doses)

Rare Chemicals Library: S45764-7

>>Derivative: 1,3-*N*-Dibenzoyl

CAS Registry Number: 30716-46-2

Molecular Formula: C₂₀H₁₅ClN₂O₂

Molecular Weight: 350.803

Accurate Mass: 350.082205

Percentage Composition: C 68.48%; H 4.31%; Cl 10.11%; N 7.99%; O 9.12%

Physical Description: Needles (C₆H₆)

Melting Point: Mp 178°

>>Derivative: 3,3-*N*-Di-Me

CAS Registry Number: 53666-60-7

Molecular Formula: C₈H₁₁ClN₂

Molecular Weight: 170.641

Accurate Mass: 170.061075

Percentage Composition: C 56.31%; H 6.50%; Cl 20.78%; N 16.42%

Physical Description: Plates

Melting Point: Mp 80°

References:

Morgan, G.T., *J.C.S.*, 1900, **77**, 1202, (*synth*)

Goldstein, H. *et al.*, *Helv. Chim. Acta*, 1952, **35**, 1470, (*synth*)

Bassl, A. *et al.*, *J. Prakt. Chem.*, 1967, **36**, 265; 274, (*tlc*)

Khanna, Y.P. *et al.*, *J. Polym. Sci., Part C*, 1981, **19**, 2799, (*polyamides*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CJY120