



>>Entry Name: 1,4-Diamino-2-chlorobenzene

Synonym(s): 2-Chloro-1,4-benzenediamine, 9Cl. 2-Chloro-*p*-phenylenediamine, 8Cl

CAS Registry Number: 615-66-7

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: Comonomer for arom. polyamides

Physical Description: Needles

Melting Point: Mp 64°

Hazard & Toxicity: Violent dec. on dist. *in vacuo*. Exp. fetotoxic effects

Fluka: 24215

>>Derivative: Sulfate

CAS Registry Number: 61702-44-1

Extra CAS Registry Numbers(s): 6219-71-2

Melting Point: Mp 251-253°

Aldrich: 17823-3

Fluka: 24240

>>Derivative: 1,4-*N*-Di-Ac

CAS Registry Number: 50610-32-7

Molecular Formula: C₁₀H₁₁ClN₂O₂

Molecular Weight: 226.662

Accurate Mass: 226.050905

Percentage Composition: C 52.99%; H 4.89%; Cl 15.64%; N 12.36%; O 14.12%

Melting Point: Mp 196°

>>Derivative: 1,4-*N*-Dibenzoyl

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%

Melting Point: Mp 228°

References:

Kehrmann, F., *Annalen*, 1898, **303**, 1, (*synth*)

Niyogy, S.C., *Chem. Zentralbl.*, 1927, **2**, 411; *CA*, **21**, 2669, (*synth*)

Eggertsen, F.T. *et al.*, *Anal. Chem.*, 1956, **28**, 1008, (*polarog*)

Mamluk, L., *Bull. Soc. Chim. Fr.*, 1956, 1182, (*synth*)

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

Kapusanika, M. *et al.*, *J. Polym. Sci., Polym. Chem. Ed.*, 1984, **22**, 3989; 3999, (*polyamides*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CEG600

Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworths, 1990, 2205