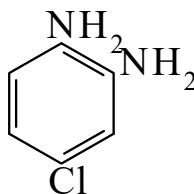




>>Entry Name: **1,2-Diamino-4-chlorobenzene**

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



CAS Registry Number: 95-83-0

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%

Physical Description: Leaflets (H₂O)

Melting Point: Mp 76°

Hazard & Toxicity: Possible human carcinogen. Exp. carcinogen (v. large doses)

Aldrich: 10887-1

Fluka: 24220

Sigma: C5628

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 57803-83-5

Use/Importance: Used as a 0.3% aq. soln. in gc detn. of Se; extraction of Se

Physical Description: Cryst.

Melting Point: Mp 72-74°

Solubility: Sol. H₂O, acids, EtOH, C₆H₆

pKa Value: pK_{a1} -0.11; pK_{a2} 4.16 (20°)

>>Derivative: 1,2-*N*-Di-Ac

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%

Physical Description: Leaflets

Melting Point: Mp 208°

>>Derivative: 1,2-*N*-Dibenzoyl

CAS Registry Number: 19614-04-1

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: Silky needles (EtOH)

Melting Point: Mp 230°

>>Derivative: 1,2-*N*-Di-Me

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%

Melting Point: Mp 61°

References: