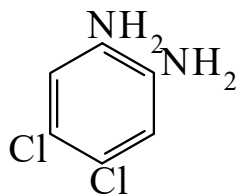




>>Entry Name: 1,2-Diamino-4,5-dichlorobenzene

Synonym(s): 4,5-Dichloro-1,2-benzenediamine, 9Cl. 4,5-Dichloro-*o*-phenylenediamine, 8Cl



CAS Registry Number: 5348-42-5

Molecular Formula: C₆H₄Cl₂N₂

Molecular Weight: 177.032

Accurate Mass: 175.990802

Percentage Composition: C 40.71%; H 3.42%; Cl 40.05%; N 15.82%

Use/Importance: Used as 0.4mM soln. in MeOH for photometric detn. of Se

Physical Description: Needles (H₂O)

Melting Point: Mp 162-163°

Solubility: Sol. MeOH

pKa Value: pK_{a1} 3.39; pK_{a2} -0.82 (25°, μ 2.0M)

Aldrich: D7160-7

Fluka: 36214

Sigma: D2519

>>Derivative: Hydrochloride

Physical Description: Plates (EtOH/Et₂O)

Melting Point: Mp 200-220 dec.°

Boiling Point: Subl._{0.2} 100°

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 72435-64-4

Physical Description: Plates

Melting Point: Mp 205-220 dec.°

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

Molecular Formula: C₂₀H₁₄Cl₂N₂O₂

Molecular Weight: 385.248

Accurate Mass: 384.043232

Percentage Composition: C 62.35%; H 3.66%; Cl 18.41%; N 7.27%; O 8.31%

Physical Description: Needles or prisms

Melting Point: Mp 257°

References:

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