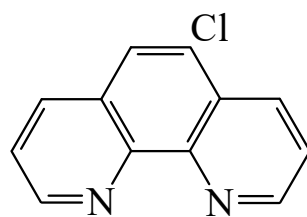




>>Entry Name: 5-Chloro-1,10-phenanthroline, 9Cl



CAS Registry Number: 4199-89-7

Molecular Formula: $C_{12}H_7ClN_2$

Molecular Weight: 214.653

Accurate Mass: 214.029775

Percentage Composition: C 67.15%; H 3.29%; Cl 16.52%; N 13.05%

Use/Importance: Used as redox indicator

Physical Description: Needles (C_6H_6 /petrol)

Melting Point: Mp 123°

Solubility: Sol. EtOH, Me_2CO , C_6H_6 ; spar. sol. H_2O

pKa Value: pK_{a1} 4.26

Aldrich: 30177-9

References:

Aldrich Library of ^{13}C and 1H FT NMR Spectra, 1992, **3**, 478B, (*nmr*)

Richter, F. *et al.*, *J.A.C.S.*, 1944, **66**, 396, (*synth*)

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