



>>**Entry Name: Bathophenanthrolinedisulfonic acid**

Synonym(s): 4,7-Diphenyl-1,10-phenanthroline-5,6-disulfonic acid, 9Cl

CAS Registry Number: 28061-20-3

As Bathocuproinedisulfonic acid, **KGX11-I** with
R = H

Molecular Formula: C₂₄H₁₆N₂O₆S₂

Molecular Weight: 492.532

Accurate Mass: 492.044978

Percentage Composition: C 58.53%; H 3.27%; N 5.69%; O 19.49%; S 13.02%

Physical Description: Syrupy liq.

>>**Derivative:** Di-Na salt

CAS Registry Number: 52746-49-3

Use/Importance: Used for photometric detn. of Fe

Physical Description: Light tan cryst. (H₂O)

Solubility: Sol. H₂O

Aldrich: 14661-7

Sigma: B1375

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 479B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 892B, (*ir*)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 133

Zak, B., *Am. J. Clin. Pathol.*, 1958, **29**, 590, (*use*)

Blair, D. *et al.*, *Talanta*, 1961, **7**, 163, (*use*)