



# **A Critical Review of Equilibrium Data for Proton- and Metal Complexes of 1,10-Phenanthroline, 2,2'- Bipyridyl and Related Compounds: Critical Evaluation ... Metal Complexes Pt. A (IUPAC Publications)**

*W.A.E. McBryde*

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A Critical Review of Equilibrium Data for Proton- and Metal Complexes of 1,10-Phenanthroline, 2,2'-Bipyridyl and Related Compounds is a compilation of acidity constants for the 1,10-phenanthrolinium and 2,2'-bipyridinium ions and their derivatives, as well as stability constants for metal complexes formed by the conjugate bases of these. These equilibrium data are critically examined.

This monograph includes values determined in non-aqueous or mixed solvents, as well as those for a large number of ""mixed"" metal complexes incorporating these bases and a second ligand. The survey also contains known values for the enthalpies and entropies of formation for the proton- and metal-ion complexes. The compilation indicates the conditions under which the equilibrium constants apply and the methods by which they were determined. The acid-base properties of the compounds are represented by the acidity constant of the phenanthrolinium or bipyridinium ion expressed as a pK value. Nearly all the values listed were obtained either potentiometrically or spectrophotometrically, both of which depend fundamentally on measurements of pH or hydrogen-ion concentration.

This book will be of value to chemists.



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