Full Paper	Thematic Section: Chemistry of Bioactive Substance.
Registration Code of Publication: 10-19-1-74	Subsection: Coordination Chemistry.
Publication is available for discussion in the framework of the or	n-line Internet conference "Butlerov readings".

http://butlerov.com/readings/ Contributed: February 24, 2010

Water-soluble copper(II) complexes cupper(II) with polyethylenaminomethylphosphonic acid

© Vladimir F. Selemenev,1* and Larisa P. Bondareva2+

¹ The Department of analytical chemistry. The Voronezh state university.

Univercity sq., 1. Voronezh, 394006. Russia. Phone: +7 (4732) 20-83-62.

² The Department of physical and colloid chemistry. The Voronezh state technological academy.

Revolution av., 19. Voronezh, 394000. Russia. Phone: +7 (4732) 55-34-71. E-mail: larbon@mail.ru

Keywords: polyethylenepolyamine-N-methylphosphonic acid, protonation and neutral copper(II), stability constants, calorimetry, complexing entalpy.

Abstract

In present paper the equilibrium of polyethylenepolyamine-*N*-methylphosphonic acid in water solutions was studied, thermodynamic characteristics of the acid-base equilibrium, formation of polyprotonation and normal complex compounds with ions of copper(II) have been obtained. Enthalpy complexing in various concentrations of copper(II) ions and pH of the initial solution was measured by calorimetric method.

^{*}Supervising author; *Corresponding author