## **Turkish Journal of Chemistry**

**Turkish Journal** Synthesis and characterization of copper(II), nickel(II), cadmium(II), cobalt(II) and zinc(II) complexes with 2-Benzoyl-3-hydroxy-1-naphthylamino-3-phenyl-2-propen-1-on of Mehmet SÖNMEZ Department of Chemistry, Faculty of Sciences, Chemistry University of Yüzüncü Yıl, 65080 Van-TURKEY Abstract: Cu(II), Ni(II), Co(II), Zn(II) and Cd(II) complexes of 2-Benzoyl-3-hydroxy-1-naphthylamino-3phenyl-2-propen-1-on, which is a derivative of carboxamide, were prepared and characterized by **Keywords** elemental, spectral and magnetic methods. Based on the analytical results, electronic and infrared Authors spectral data and magnetic susceptibility measurements, suitable structures have been proposed. The formation of the complexes in solution was investigated conductometrically. 2-Benzoyl-3-hydroxy-1naphthylamino-3-phenyl-2-propen-1-on was found to be a bidentate ligand coordinating through enolic oxygen and amide nitrogen. The complexes of Co(II) and Ni(II) are proposed to have an octahedral structure, while Cd(II), Cu(II) and Zn(II) are suggested to possess a square-planar environment in the complexes. chem@tubitak.gov.tr Turk. J. Chem., 25, (2001), 181-185. Full text: pdf Scientific Journals Home Other articles published in the same issue: Turk. J. Chem., vol.25, iss.2. Page