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**Synthesis and characterization of non-symmetric tetradentate complexes of Zn(II), Co(II), and Cu(II)**

Synthesis and characterization of non-symmetric tetradentate complexes of Zn(II), Co(II), and Cu(II)

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**Abstract:** The non-symmetrical tetradentate Schiff-base H<sub>2</sub>L was obtained using the half-unit N-(1-hydroxy-2-acetophenone)-1-amino-2-phenyleneimine (HL) with 2-hydroxyl-1-naphthaldehyde. ZnL, CoL, and CuL complexes were prepared and characterized by <sup>1</sup>H-NMR, IR, electronic, and atomic absorption spectra. The single crystal X-ray structure of CuL was determined. Crystal data for CuL are triclinic space group P-1, a = 8.3933 (17) Å, b =