

Template condensation reaction<sup>1</sup>. XI. Ba(II), Ni(II), Co(II) and Cu(II) complexes  
with the Schiff base derived from  
2, 2' - methylenebiscyclohexanone and diethylenetriamine

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**Abstract** The complex of a hexadentate Schiff base (L) with barium ion have been prepared by condensation of 2, 2'-methylenebiscyclohexanone with diethylenetriamine in the presence of metal ion templates. The transmetallation of this complex in the presence of Co(II), Ni(II) and Cu(II) leads to the formation of binuclear complexes with Schiff base. The complexes were characterized on the basis of chemical analysis, electronic and IR spectra.

*Keywords:* complex compounds, template condensation, Schiff base, barium, cobalt, nickel, copper.

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