



Synthesis And Spectral Studies of Mixed Ligand Complexes of Mn(III) With 2-Hydroxypropiophenone And Substituted Salicylaldehyde or β -Diketones

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Accepted on 13th April 2014

ABSTRACT

A series of mixed ligand complexes of Mn (III) having the general formula $[MnL_2L']$ (where HL= 2-hydroxypropiophenone and HL' = 5-bromosalicylaldehyde, 5-chlorosalicylaldehyde, pentane-2,4- dione, 1-phenylbutane-1,3-dione, or 1,3-diphenylpropane-1,3-dione) have been synthesized by the reactions of Mn(III) acetate with a mixture of two different ligands. The resulting complexes have been characterized by elemental analyses, molar conductance, magnetic moments, IR, FAB mass spectra and antibacterial activities. Octahedral geometry has been proposed for the prepared mixed ligand complexes.

Keywords: Mixed ligand complexes, Mn (III), IR Spectra, conductivity, magnetic moments and FAB mass spectra.
