



Synthesis and Spectral Studies of Mixed Ligand Complexes of Mn (III) with 1,3-Diphenylpropane-1,3-Dione and B-Diketones, Hydroxyl Aryl Ketones or Substituted Salicylaldehyde

Mithlesh Agrawal, Renu Karra, Neha Jain* and Gayatri Baswal

*Department of Chemistry, University of Rajasthan, Jaipur – 302004, **INDIA**

Email: jainneha0810@gmail.com

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ABSTRACT

Mixed ligand complexes of the type $[Mn (dbzm)_2L]$, (where $dbzm = 1,3$ -diphenylpropane-1,3-dione and $HL =$ pentane-2,4-dione, 1-phenylbutane-1,3-dione, 2-hydroxy- acetophenone, 2-hydroxypropio phenone, 5-bromosalicylaldehyde, 5-chlorosalicylaldehyde) have been synthesized by the reaction of metal salt with the corresponding carbonyl in 1:2:1 molar ratios. Resulting complexes have been characterized by elemental analysis, conductance, magnetic moments, IR, and FAB mass spectra. These complexes have octahedral structure.

Keywords: Mixed ligand complexes, $[Mn (dbzm)_2L]$, magnetic moments, FAB mass spectra.
