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Synthesis and Characterization of Azo Linked Schiff Bases And Their Bimeric Iron (III) Complexes

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ABSTRACT

Azo linked Schiff base compounds were synthesized by coupling of benzenediazonium chloride with 4-hydroxy-6-methyl-3-(1-(alkyliminoethyl)-2H-pyran-2-one in alkaline conditions. New Fe (III) complexes of the azo Schiff base ligands were also prepared. These complexes were characterized by elemental analysis, magnetic moment, and molar conductance along with electronic and infrared spectral analysis. Octahedral geometry around these metal ions has been proposed on the basis of magnetic and spectral studies.

Keywords: Dehydroacetic acid, Azo Schiff base, azomethine group, diazotization and coupling.
