Local Structure studies of Schiff base dependent Cadmium complex

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**Abstract**. Cadmium complex with Schiff-base ligand has been receiving significant interest due to its wide variety of biological activities, such as antitumor, antibacterial, antifungal, antiviral etc properties. The present paper deals with the Synthesis of Cadmium complex prepared by Schiff base ligand in the 2:1 (ligand:metal) equimolar ratio. The ligand was derived from 2-Aminopropanoic acid. The synthesized complex was used to characterize by X-ray absorption fine structure spectroscopy at cadmium K-edge. The studies revealed its octahedral coordination geometry with + 2 oxidation state of cadmium in the complex. The processed data of the complex was used to fit with the theoretical model generated from standard crystallographic data using FEFF calculations.

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