Studies on ionic Ni(II) complex of {[Ni(2-cpida)(2,2'-bpy)][Ni(bpy)3]} (ClO4).3H2O based on N-(2-carboxyphenyl) iminodiacetic acid

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Ionic complex of $\{[Ni(2-cpida)(2,2'-bpy)][Ni(2,2'-bpy)3]\}(CIO4).3H2O (1) (2-cpida = N-(2-carboxyphenyl) iminodiacetic acid, bpy = bipyridyl) has been synthesized and characterized with the aid of elemental analysis and infrared, ultraviolet, fluorescence and thermo gravimetric studies. The molecular structure of 1, determined by single-crystal X-ray diffraction studies, shows all the three carboxylate groups show monodendate mode. Complex 1 consists of discrete mononuclear <math>[Ni(2,2'-bpy)3]2+$ cation, [Ni (2-cpida)(2,2'-bpy)]- anion, perchlorate anion and a lattice water molecules. Hydrogen bonding interactions lead to the formation of 1D polymeric structure in the solid state.