Cobalt (II), nickel (II) and copper (II) complexes of carbohydrazide and it’s arylidene derivatives

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Summary

Metal complexes formed through the reaction of carbohydrazide and some of it’s arylidene derivatives with cobalt (II), nickel (II) and copper (II) ions were prepared and characterized by elemental analysis, conductance measurements, t.g.a, i.r., electronic absorption spectra, X-ray diffraction, The carbohydrazide and it’s derivatives coordinate as mono anion tridentate or neutral bidentate ligands. The coordination bond length was determined. The results indicate that the higher affinity of metal ions to oxygen than nitrogen. The solid state electrical conductivity of selected complexes was also reported.