Ligand influence on the redox properties of some copper(II) complexes with schiff bases derived from bromosalicylaldehydes and methyl or chloro-substituted anilines

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The synthesis, characterization and electrochemical behaviour of a new series of copper(II) complexes derivated from substituted anilines and bromosalicylaldehydes have been studied. The complexes show a square-plane stereochemistry in solution. The reduction potentials depend on the substitutents in the salicylaldehydes and on the precursor anilines. The evaluation of kinetic parameters show a single stage one-electron transfer.