

Síntesis and characterization of monometallic and bimetallic complexes of rhenium(I) and ruthenium(II) with 4,4'-bipyridine as ligand-bridge Sintesis y caracterización de complejos mono y bimetalico de renio(I) y rutenio (II) con 4,4'-bipiridina como ligand

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A new Rhenium (I) and Ruthenium(II) bimetallic polipyridylcarbonyl complex and the corresponding monometallic precursor complexes were prepared. The compounds were characterized physically and spectroscopically (Elemental Analysis, Conductivity, Cyclic Voltammetry, IR-FT, RMN-H and UV-Visible). The results are consistent with the $[\text{Re}(\text{CO})_3(2,2'\text{-biquinoline})(4,4'\text{-bipyridine})](\text{CF}_3\text{SO}_3)$ and $\text{RuCl}_2(\text{CO})_2(2,2'\text{-biquinoline})$ formulation for the monometallic precursor complexes and with the $[(\text{CO})_3(2,2'\text{-biquinoline})\text{Re}(4,4'\text{-bipyridine})\text{RuCl}(\text{CO})_2(2,2'\text{-biquinoline})]$ formulation for the bimetallic complex.