



- > MainPage
- > About College
- > Files
- > Researches
- > Courses
- > Favorite Links
- > Our Contacts

Visits Of this Page:3



Research Details :

Research Title : *SYNTHESIS AND SPECTROSCOPIC STUDIES OF MOLYBDENUM (0) AND RUTHENIUM(II) COMPLEXES OF 2,2-DIPYRIDYLA*
SYNTHESIS AND SPECTROSCOPIC STUDIES OF MOLYBDENUM (0) AND RUTHENIUM(II) COMPLEXES OF 2,2-DIPYRIDYLA

Descriptipn : The reaction between neutral electron donor ligand 2,2-dipyridylamine (dpa) with Mo(CO)₆ or [Ru Cl₂(CO)₂]_n in (1:1) molar ratio in refluxing THF affords Mo(CO)₄ dpa and Ru Cl₂(CO)₂ dpa complexes in high yields. On the basis of spectroscopic studies it is suggested that the ligand (dpa) in these complexes acts as bidentate and coordinates to the metals through pyridine-N atoms rather than with the amino group. The complex Mo(CO)₄ dpa reacts with iodine to give seven coordinated Mo(CO)₃ dpaI₂ complexes. All the complexes were characterised by their H-1-NMR, IR and elemental analyses.

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