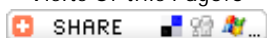




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## Research Details :

Research Title	: <u>NEW COMPLEXES OF RUTHENIUM(II) WITH THIOSEMICARBAZIDE AND BETA-DIKETONE LIGANDS</u> <u>NEW COMPLEXES OF RUTHENIUM(II) WITH THIOSEMICARBAZIDE AND BETA-DIKETONE LIGANDS</u>
Descriptipn	: The reaction of thiosemicarbazide (NH <sub>2</sub> .NH.CS.NH <sub>2</sub> ) with [Rh(CO) <sub>2</sub> Cl <sub>2</sub> ] <sub>n</sub> in THF gives an air stable, off white solid Ru(CO) <sub>2</sub> Cl <sub>2</sub> .NH <sub>2</sub> .NH.CS.NH <sub>2</sub> . The ligand acts as bidendate and its has been suggested that it coordinates to the metal through N(1) and S atom. Also the salt [Ru(CO) <sub>2</sub> Cl <sub>2</sub> ] <sub>n</sub> reacts with an excess of sodium acetylacetonate in THF and gives very stable red solid Ru(CO) <sub>2</sub> (acac) <sub>2</sub> xH <sub>2</sub> O. Similar product is obtained when [Ru(CO) <sub>2</sub> Cl <sub>2</sub> ] <sub>n</sub> is treated with acetylacetonate in presence of a base such as triethylamine. The complexes were characterised by IR, NMR and elemental analyses.
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