

Synthesis and Electronic Spectra of Tricarbonylrhenium(I) Chloride Complexes with 9,10-Phenanthrenequinone and 9,10-Phenanthrenequinone Diimine as Acceptor Ligands

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The complexes $\text{Re}(\text{L-L})(\text{CO})_3\text{Cl}$ with $\text{L-L} = 9,10\text{-phenanthrenequinone (PHQ)}$ and $9,10\text{-phenanthrenequinone diimine (PHI)}$ were prepared and characterized spectroscopically. Both compounds show intense Re(I) to L-L metal-to-ligand charge transfer (MLCT) absorptions. In chloroform, the MLCT bands appear at 711 nm ($\text{L-L} = \text{PHQ}$) and 553 nm ($\text{L-L} = \text{PHI}$).