Gold(i) ethylene complexes supported by electron-rich scorpionates

Wu, J., Noonikara-Poyil, A., Muñoz-Castro, A., Dias, H.V.R.

Abstract_

Ethylene complexes of gold(i) have been stabilized by electron-rich, κ^2 -bound tris(pyrazolyl)borate ligands. Large up-field shifts of olefinic carbon NMR resonances and relatively long C distances of gold bound ethylene are indicative of significant Au(i) \rightarrow ethylene π -backbonding relative to the analog supported by a weakly donating ligand, consistent with the computational data.