

عنوان مقاله:

Synthesis, characterization and spectroscopic studies of some zwitterionic mercury(II) complexes with unsymmetric phosphorus ylides

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خلاصه مقاله:

In this paper it is reported the synthesis of the zwitterionic mercury(II) complexes of the type $[HgCl_7(Ph_2PCH_2PPh_2CH_2C(O)R)]$ ($R =$ '4-biphenyl (1), OCH_2Ph (2), '4-methylphenyl (3), 2-naphtyl (4), 7-nitrophenyl (5), 2,'-dichlorophenyl (6)) derived from the reactions of the Mercury(II) chloride with related phosphorus ylides in 5:5 mole ratio in dichloromethane under dry nitrogen atmospheres. These compound have been fully characterized by, elemental analysis and spectroscopic techniques such as IR, 1H , ^{75}P , and ^{13}C NMR. The absence of significant coordination chemical shifts in the ^{75}P NMR spectra indicates the presence of formal negative charge on mercury. The coordination geometry around the Hg atom in all complexes is slightly distorted tetrahedral.

کلمات کلیدی:

Hg(II) complexes, Spectroscopic studies, Unsymmetric phosphorus ylides

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