

SYNTHESIS AND CHARACTERISATION OF A NOVEL PHOSPHONATE LIGAND AND ITS PALLADIUM(II) COORDINATION COMPOUND

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Abstract. The novel N-(methylene-2-pyridine)-N,N-bis(diethoxyphosphorylmethyl)amine ligand (L) was obtained through a double Kabachnik-Fields reaction, starting from 2-(aminomethyl)pyridine (2-picolylamine). Based on the L ligand, a new palladium(II) coordination compound [Pd(L)₂Cl₂] has been synthesized and comprehensively characterized by spectroscopic methods (¹H NMR, UV-Vis), ESI mass spectrometry and X-ray crystallography.

Keywords: palladium, coordination compounds, phosphonate ligands, X-ray characterisation.

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