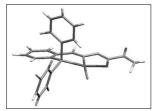
Structure of Pd(II) Complex with a 2-(diphenylphosphino)benzaldehyde Derivative

Katarina Andjelkovic^a, Alessia Bacchi^b, Giancarlo Pelizzi^b, Vesna Radulovic^c, Ilija Brceski^a, Dusan Sladic^a, "Faculty of Chemistry, University of Belgrade, Studentski trg 16, P.O. Box 158, 11001 Belgrade, Serbia and Montenegro. 'Dipartimento di Chimica Generale ed Inorganica, Chimica Analitica, Chimica Fisica, University of Parma, Parco Area delle Scienze 17A, I-43100 Parma, Italy. 'Institute of Chemistry, Technology and Metallurgy, Belgrade, Serbia and Montenegro. E-mail: kka@chem.bg.ac.yu

A Pd(II) complex with 2-{(2E)-2-[2-(diphenylphosphino)-benzylidene]hydrazino}-2-oxoacetamide was obtained from $K_2[PdCl_4]$ and the ligand in ethanol.



The complex crystallizes in the monoclinic $P2_1/n$ space group. The chelate ligand is monodeprotonated at the hydrazonic nitrogen, and behaves as a PNO tridentate, generating a sixmembered and a five-membered ring upon coordination. A chloride atom completes the square planar

coordination geometry, which is slightly distorted, with the P atom deviating from the N, O, Pd, Cl best plane, due to the puckering of the six-membered chelation ring. Despite the presence of several hydrogen bond donors and acceptors on the complex molecule, the only evident directional interaction in the crystal packing is a very weak intermolecular contact N-H...N (N...N=3.405(6)Å, N-H...N=150(6)°).

Keywords: Pd(II) complex, hydrazone, PNO tridentate