

**SYNTHESIS AND CHARACTERIZATION OF  
PALLADIUM(II)-COMPLEXES WITH SOME *O,O'*-DIALKYL ESTERS OF  
1,3-PROPYLENEDIAMINE-*N,N'*-DI-2-(3-METHYL)-BUTANOIC ACID**

Petrović Đ.S.,<sup>a</sup> Radić G.P.,<sup>a</sup> Stojković D.LJ.,<sup>b</sup> Trifunović S.R.,<sup>a</sup> Avdović E.H.,<sup>a</sup> Jovičić S.S.<sup>a</sup>

<sup>a</sup>*Department of Chemistry, Faculty of Science, University of Kragujevac, Radoja Domanovića 12,  
34000 Kragujevac, Serbia,*

*e-mail: petrovicjordje992@gmail.com*

<sup>b</sup>*Faculty of Agronomy, University of Kragujevac, Cara Dušana 34, 32000 Čačak, Serbia*

Four new ligands of general formula  $R_2-S,S-1,3-pddv \cdot 2HCl$  [*O,O'*-dialkyl-(*S,S*)-1,3-propylenediamine-*N,N'*-di-2-(3-methyl)-butanoic acid dihydrochloride, R = et (ethyl), pr (n-propyl), bu (n-butyl), pe (n-pentyl)] have been synthesized by using the method described earlier.<sup>1</sup>

The complexes were synthesized by mixing 0.1 g (0.306 mmol) of  $K_2[PdCl_4]$  in 10 mL of water with equimolar amount of the prepared ligand on a steam bath (0.1235 g of det-*S,S*-1,3-pddv·2HCl, 0.1320 g of dpr-*S,S*-1,3-pddv·2HCl, 0.1406 g dbu-*S,S*-1,3-pddv·2HCl or 1.492 g of dpe-*S,S*-1,3-pddv·2HCl). The mixture was stirred for 2h and during that period water solution of LiOH (0.0073 g, 0.306 mmol) was added in small portions. The complexes,  $[PdCl_2(det-S,S-1,3-pddv)]$ ,  $[PdCl_2(dpr-S,S-1,3-pddv)]$ ,  $[PdCl_2(dbu-S,S-1,3-pddv)]$ ,  $[PdCl_2(dpe-S,S-1,3-pddv)]$  were a light yellow in color. The precipitates were filtered, washed with cold water and ethanol and air-dried.

The obtained ligands and complexes were characterized using elemental microanalysis, infrared (IR), <sup>1</sup>H and <sup>13</sup>C spectroscopy and mass spectrometry.

#### References

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