

**SYNTHESIS AND CHARACTERIZATION OF NEW PALLADIUM(II)
COMPLEXES WITH SOME THIAZOLES**

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Thiazoles have a significant application in medicine. Many biologically important compounds as penicillin, thiamine, and ritonavir contain thiazole in their molecule. Due to a wide range of biological activities (antibacterial and antifungal, anti-inflammatory, anti-viral activity etc.) thiazoles attract considerable attention.¹⁻³

Two new palladium(II) complexes with 2-amino-4-(3,4-difluorophenyl)thiazole and 2-amino-4-(4-chlorophenyl)thiazole were synthesized and their structures were confirmed by elemental microanalysis, infrared (IR) and nuclear magnetic resonance (NMR) spectroscopy.

The complexes were prepared by the reaction of $K_2[PdCl_4]$ with corresponding ligand in molar ratio 1:2. Water solution of $K_2[PdCl_4]$ was mixed with methanol solution of ligand and the reaction was performed at room temperature. The synthesized complexes are beige colored and both are soluble in dimethylsulfoxide.

References

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