

Synthesis and Structural Characterization of Bis(aziridine) Cobalt(II), Zinc(II) and Palladium(II) Complexes

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Z. Naturforsch. **2007**, 62b, 1095 – 1101; received March 5, 2007

Dedicated to Prof. Dr. Herbert Mayr on the occasion of his 60th birthday

The reactions of anhydrous metal chlorides MCl_2 [$M = Co(II), Zn(II), Pd(II)$] with aziridines (az) in CH_2Cl_2 at r. t. in a 1 : 5 molar ratio afforded the bis(aziridine)dichloro complexes $M(az)_2Cl_2$. After purification, all complexes were fully characterized. The solid state structures were determined using single crystal X-ray diffraction, and showed tetrahedral coordination geometries for the Co(II) and Zn(II) centers and *trans*-configured square planar geometries for Pd(II).

Key words: Cobalt, Zinc, Palladium, Aziridine, X-Ray Crystallography