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Synthesis and Structural Characterization of the 2-[(o-pyridyl)-sulfanylmethyl]-pyrimidine-silver (I) Complex $[Ag_2(opsp)_2](NO_3)_2$

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Abstract: The new silver(I) complexe $[Ag_2(opsp)_2](NO_3)_2$ (1) was synthesized by the self-assembly of AgX (X = NO_3^-) with the versatile multidentate ligand opsp (opsp = 2-[(o-pyridyl)-sulfanylmethyl]-pyrimidine). X-ray single-crystal diffraction analyses show that 1 is dinuclear molecule. In 1, 1 opsp ligand acts in a bidentate mode with 2 nitrogen atoms from a pyridine ring and a pyrimidine ring coordinating to 2 Ag(I) atoms, and the Ag(I) center is 2-coordinated by 2 nitrogen atoms showing linear coordination geometry.

Key Words: Multidentate ligand; Silver(I) complex; Crystal structure; Dinuclear molecule

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