

Publication

4-Substituted 3,6-bis(2-pyridyl) pyridazines: Silver(I) complexes of 4-cyano- and 4-(4-bromophenyl)-3,6-bis(2-pyridyl) pyridazine and pseudopolymorphs of 1,3,5-tris3,6-bis(2-pyridyl)pyridazin-4-ylbenzene

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Title 4-Substituted 3,6-bis(2-pyridyl) pyridazines: Silver(I) complexes of 4-cyano- and 4-(4-bromophenyl)-3,6-bis(2-pyridyl) pyridazine and pseudopolymorphs of 1,3,5-tris3,6-bis(2-pyridyl)pyridazin-4-ylbenzene

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Metal: ligand complexes are crystallized from reaction mixtures of equimolar amounts of 4-cyano-3,6-bis(2-pyridyl)pyridazine 2 or 4-(4-bromophenyl)-3,6-bis(2-pyridyl)pyridazine 3 and silver(i) triflate. In $[Ag_2(2)(2)](2+)$, the two ligands adopt a head-to-tail arrangement, while a head-to-head motif is confirmed for the solid state structure of $[Ag_2(3)(2)](2+)$. In solution, one ligand environment is observed in each case. Silver(i) reacts with 1,3,5-tris3,6-bis(2pyridyl) pyridazin-4-yl benzene 4 to give highly insoluble powders. The single crystal structures of the pseudopolymorphs (4)center dot Et₂O and 2(4)center dot 2MeCN center dot H₂O are reported; in each structure, the ligand adopts the same conformation, derived from a C-s rather than C-3v model structure.

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