Neue Koordinationspolymere mit Acetylendicarboxylat als verbrückenden und Pyridin als terminierenden Liganden

New Coordination Polymers with Acetylenedicarboxylate as Bridging and Pyridine as Terminating Ligands

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By slow diffusion of pyridine (py) into an aqueous solution containing the respective metal salt and acetylenedicarboxylic acid (H_2ADC), single crystals of coordination polymers of composition $^1_\infty[M^{II}(H_2O)_2(py)_2ADC]$ with M^{II} = Zn (**1**) and Cd (**2**) were obtained. The crystal structures consist of octahedral $M^{II}N_2O_4$ units, which are connected to chains *via* acetylenedicarboxylate dianions. Hydrogen bonds between O atoms of the dianions and of the water molecules lead to the formation of layers perpendicular to [010]. The structure is further held together by weak aromatic stacking interactions between the pyridine ligands.

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