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Copper(I)-Based Pillarplexes: Platforms for Supramolecular Assemblies with Intrinsic Reactivity

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Copper(I)-based pillarplexes, supramolecular organometallic complexes (SOCs) with a tubular cavity and a high affinity for the incorporation of linear alkanes, are presented. These organometallic cavitands can incorporate diaminoalkanes and upon formation of a host–guest insertion complex and are readily transformed to [2]rotaxanes by amide formation in presence of a bulky benzoic anhydride. The structure of the assembly was elucidated by SC-XRD and is discussed along with its packing.

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