



Plenates: Anion-Dependent Self-Assembly of the Pyrrole Cage Encapsulating Silver(I) Clusters

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Streszczenie

The self-assembly of 2,5-diformylpyrrole, tris(2-aminoethyl)amine, and silver(I) yielded, depending on the size and basicity of the anion, new cascade complexes or plenates, i.e., cryptates incorporating Ag_n⁺ clusters. The nature of the product was counterion-dependent, and its formation was either driven by the cascade anion binding or by the argentophilic interactions stabilizing the cluster within the cavity. The reaction of plenates with tetrabutylammonium halides resulted in the protonation-coupled replacement of the Ag₃⁺ with anion(s), yielding cascade cryptates.

Słowa kluczowe

supramolecular chemistry, self-assembly, cage compounds, cryptands, silver

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