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Title:	Concise access to aluminum containing [3.3](2,6)pyridinophane and molecular bowl using 2,6-diamidopyridine modules
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Keywords:	Pyridinophanes Molecular bowl Aluminum complexes 2,6-Disubstituted pyridine
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Abstract:	By varying the relative stoichiometry of the building block bis(trimethylsilyl)–N,N′–2,6–diaminopyridine (bap) and EtAlCl2 or AlCl3, different molecular entities (mononuclear and dinuclear complexes, pyridinophane and molecular bowl) containing aluminum centres have been synthesized. Efforts to extend the approach to synthesize triazinophanes with bis(trimethylsilyl)-N,N′-2,4-diamino–6–(R)–triazines (R = Me, NH(SiMe3), Ph) in their reactions with AlMe3 showed strong preference for the formation of dinuclear aluminum complexes over the analogous pyridinophane like structures. All the new compounds have been fully characterized using multinuclear NMR, HRMS and single crystal X-ray diffraction.
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