

Fig 1S. 1 H- 1 H-2D-ROESY spectrum on a cavitand ligand in CDCl $_{3}$ The values of NOE between one H 3 proton in a 3 or 5 position of the pyrimidyl groups and two protons, H 5 and H 4 , of the bridging methylene are shown in 0.25% and 0.49%, respectively.

M. Tadokoro, $et\ al.$, "One-Dimensional Void-Space Arrays Constructed from Coordination Polymer"

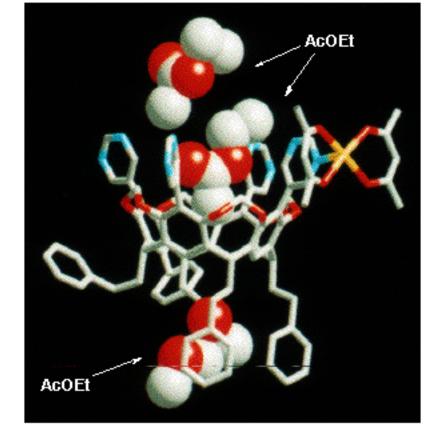


Fig. 2S The asymmetry unit of the crystal: The unit is constructed from a Mn complex with a cavitand ligand, one AcOEt molecule into the cavitand cavity and two AcOEt with heavy disordering. The white, red, blue and yellow atoms represent a car bon, an oxygen, a nitrogen atoms and a manganese (II) ions, respectively.

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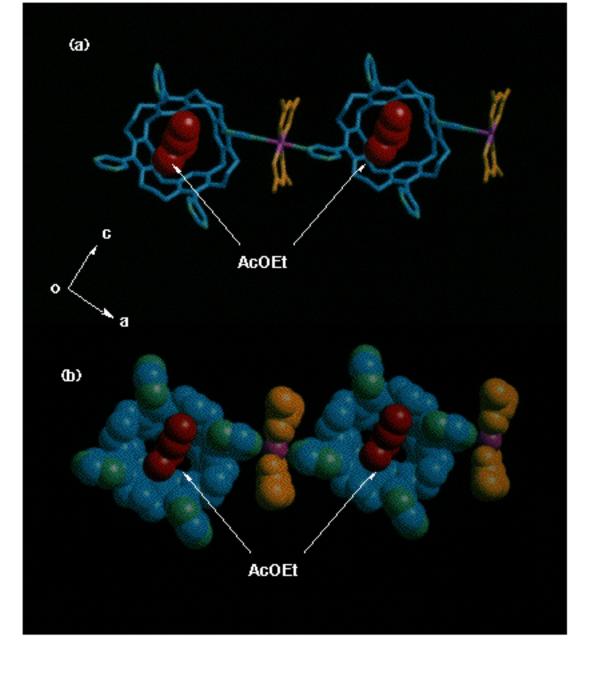


Fig. 3S the upper views of the one-dimensional Mn (II) coordination polymer with cavitand ligands: (a) the coordination polymer is represented by a cylinder model (except for the included AcOEt molecules shown in a red ball model). The framework of the cavitand ligand is shown in blue, and a manganese ion and acetylacetonate ligands are in magenta and yellow, respectively. (b) It is represented by a ball model based on van der Waal's radius.

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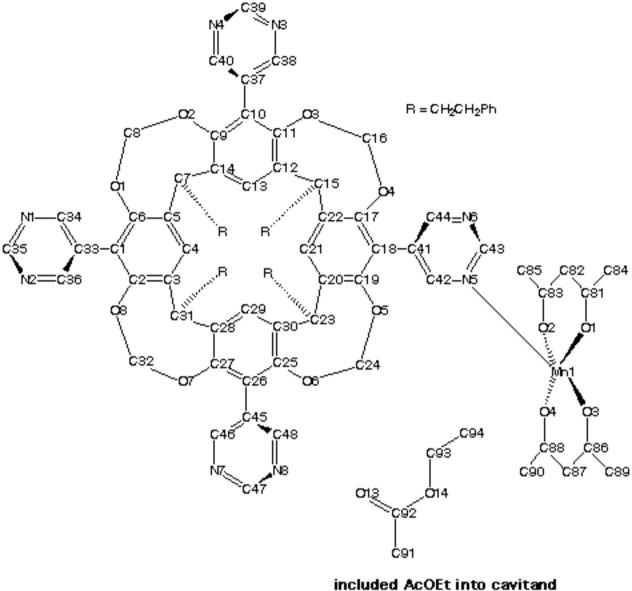


Fig. 4S the main atom-numbering schemes of a unit of the Mn complex with a cavitand ligand and the AcOEt molecules included into the cavity.

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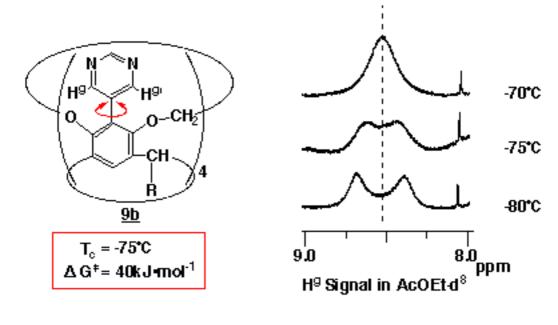


Fig. 5S the H $^{\circ}$ signals in 1H-NMR spectra in AcOEt- d° depending upon the temperatures are indicated a coalescence phenomenon at -75 °C. The activated energy of ~40 kJ/mol is estimated from the temperature.

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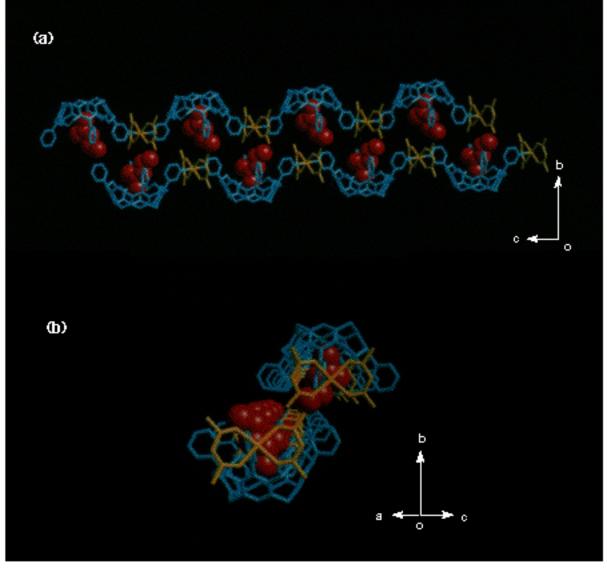


Fig. 6S (a) the projection through the α axis on two chains of the coordination polymers: It is understood that the cavitand ligands form no capsule formation. (b) The perspective view of two polymer chains along the diagonal lines in αc plane.

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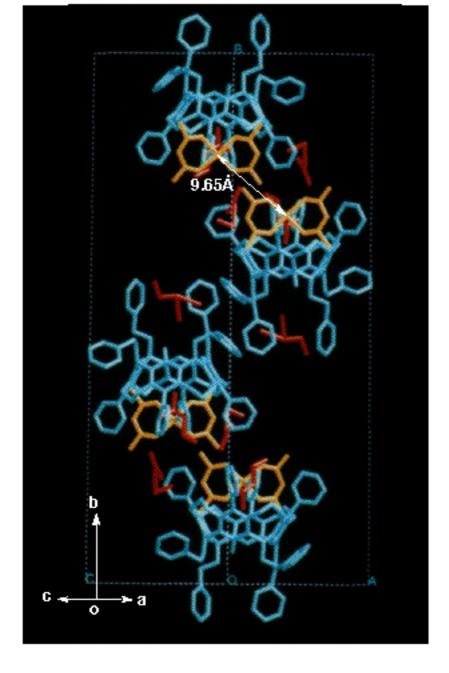


Fig 7S the locations of the coordination polymers in crystal: The one-dimensional polymer chains are directed to a diagonal line in the αc plane. The cavitand ligands, AcOEt molecules and acetylacetonato Mn (II) complexes are shown in blue, red and yellow lines, respectively.

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