

Guest exchange in dimeric capsules of a tetraurea calix[4]arene in the solid state

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Abstract

A solid powder of hydrogen bonded dimers of a tetraurea calix[4]arene is able to exchange the encapsulated guest in contact with the vapor of a second guest. The molecules of a guest-free powder obtained from a polar solvent cannot rearrange in the solid phase to form new guest-filled capsules under these conditions. © The Royal Society of Chemistry 2006.

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