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Index Abstracts

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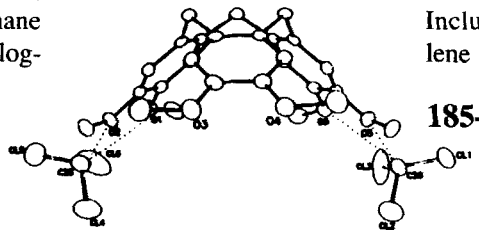
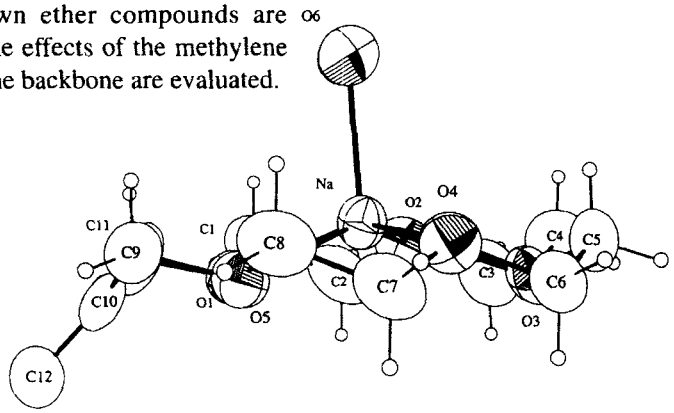
Index Abstracts

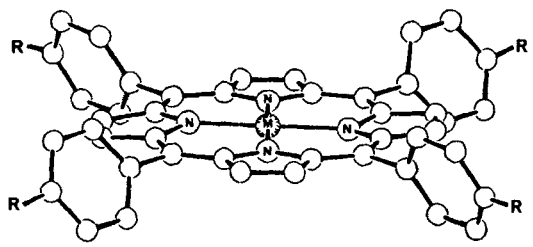
The structures of six crystalline inclusion compounds of cyclotriveratrylene, CTV, containing water, toluene, bromobenzene, chloroform, acetone, and dimethoxyethane have been determined by X-ray crystallography.



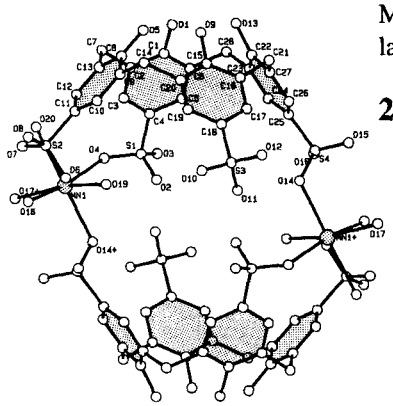
The crystal structures of five methylene substituted crown ether compounds are presented and the effects of the methylene substituents in the backbone are evaluated.



A series of new inclusion materials based on tetra-4-methoxyphenyl, tetra-4-hydroxyphenyl and tetra-4-chlorophenyl derivatives of the metalloporphyrin system, in combination with a wide variety of guest molecules and ligands, have been prepared, and their structural systematics analysed.



A complex isolated from a mixture of tetrasodium 5,11,17,23-tetrasulfonatocalix[4]-arene-25,26,27,28-tetrol and Mn(II) has been analyzed by X-ray crystallography. X-ray crystallographic and ESR spectral data show that Mn(II) ions adopt a distored octahedral coordination geometry with two sulfonato groups occupying the cis coordination sites.



Hideshi Iki, Hirohisa Tsuzuki, Hideomi Kijima, Itaru Hamachi and Seiji Shinkai

X-Ray crystallographic studies of a Mn(II)-bridged biscalix[4]arene with a large inner cavity

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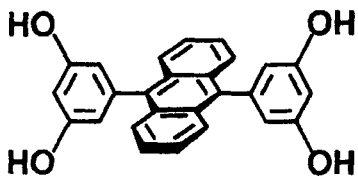
The symmetrically and divergently arranged OH groups in an orthogonal resorcinol-anthracene-resorcinol compound 1a form an extensive hydrogen-bonded network together with enforced supramolecular cavities that are capable of remarkable guest-binding, molecular-recognition, and molecular-alignment properties in the crystalline state.



1a

Yasuhiro Aoyama, Ken Endo, Kenji Kobayashi, Hideki Masuda

Hydrogen-bonded network and enforced supramolecular cavities in molecular crystals: An orthogonal aromatic-triad strategy. Guest binding, molecular recognition, and molecular alignment properties of a bisresorcinol derivative of anthracene in the crystalline state

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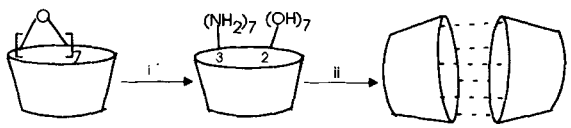
Synthesis of the first custom designed cyclodextrins obtained by a nucleophilic attack on hepatkis-2,3-epoxy-β-cyclodextrin is reported. This novel cyclodextrin provides amine functionalities in addition to hydroxyl groups for chemical processes. Spectral evidence shows that the cavity in this new cyclodextrin is flexible and it self assembles into a dimer under specific conditions.



Abdul R. Khan, Weida Tong and Valerian T. D'Souza

Self assembly in custom designed cyclodextrins