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## Supramolecular Chemistry

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## Index Abstracts

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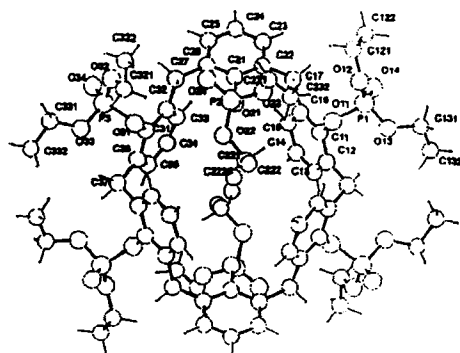
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## Index Abstracts

Hexapodand 1 containing six phosphoryl groups at the lower rim of macrocycle was synthesized by the reaction of calix[6]arene with diethylchlorophosphate and sodium hydride. The structure was confirmed by X-ray studies. Molecule 1 exists in centrosymmetrical flattened 1,2,3-alternate conformation

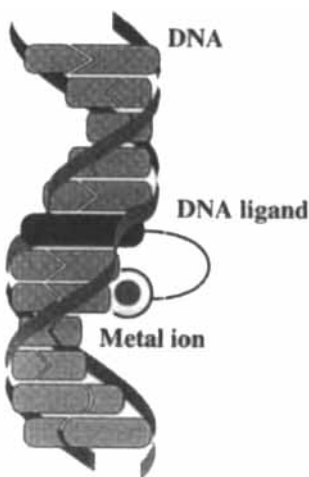


Leonid N. Markovsky, Vitaly I. Kalchenko, Miroslav A. Visotsky, Vladimir V. Pirozhenko, Yurji A. Sminonov, Alexander A. Dvorkin, Alexander V. Iatsenko, Janusz Lipkowski

Synthesis and Structure of Hexa-(diethoxyphosphoryloxy)calix[6]arene

85-91

DNA intercalator-metal chelator conjugates was capable of regulating their interaction with DNA in the presence of metal ions. The activity of metal assisted DNA strand cleavage was susceptible to structural variation in the metal chelating moieties of the conjugates.

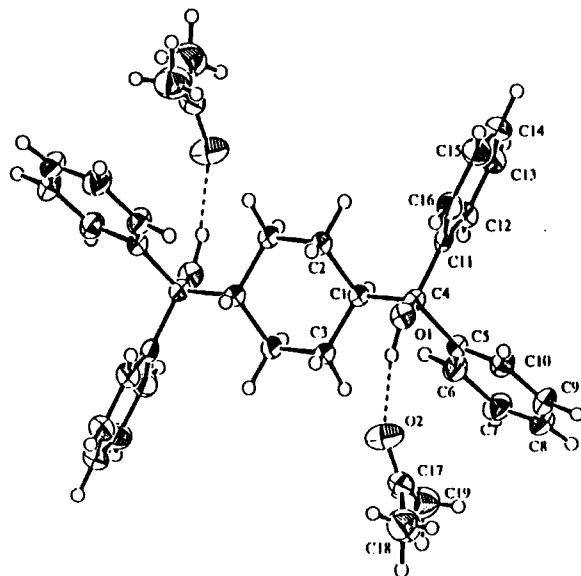


Toshihiro Ihara, Shinji Sueda, Akiko Inenaga, Ryuji Fukuda, Makoto Takagi

Synthetic DNA Ligands Conjugated with Metal Binding Moiety. Regulation of the Interaction with DNA by Metal Ions and the Ligand Effect on Metal Assisted DNA Cleaving.

93-111

The cis-1,3-diphenylcyclohexane-1,3-diol, its 2-methyl derivative, as well as the cis- and trans-isomers of 1,4- and 1,3-bis(hydroxydiphenylmethyl)cyclohexanes showed high inclusion ability for guest compounds. However, while the trans-1,2-bis(hydroxydiphenylmethyl)cyclopropane showed also a good inclusion ability, cis-1,2-bis(hydroxydiphenylmethyl)cyclohexane showed none.



Fumio Toda, Yuichi Fujii, Zofia Stein, Israel Goldberg, Ikuko Miyahara and Ken Hirotsu

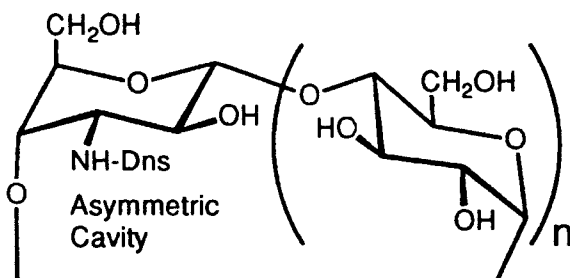
Design of New Host Compounds, 1,3-diphenylcyclohexane-1,3-diol, 1,4-, 1,3- and 1,2-bis(hydroxydiphenylmethyl)cyclohexanes, and 1,2-bis(hydroxydiphenylmethyl)cyclopropane

113-124

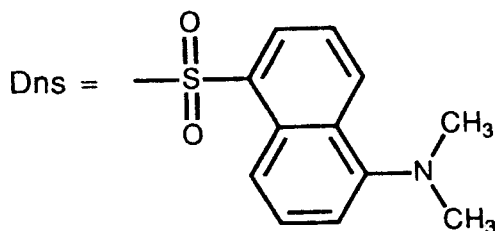
Modified cyclodextrins bearing a dansyl moiety at the secondary side have a distorted cavity because of the conversion of one glucose member to altrose residue, thus they exhibit lower binding abilities than those of the corresponding primary site-modified cyclodextrins.

Keita Hamasaki, Shinji Usui, Hiroshi Ikeda, Tsukasa Ikeda, and Akihiko Ueno

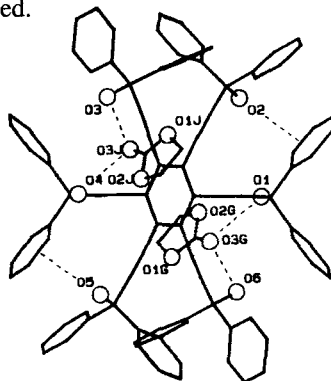
Dansyl-Modified Cyclodextrins as a Fluorescent Chemosensors for Molecular recognition



125-135



Structures of the inclusion compounds of hexakis(3-hydroxy-3,3-diphenyl-2-propynyl)benzene with 1,4-dioxane and 1,3-dioxolan-2-one have been determined.



Susan A. Bourne, Katherine L. Gifford Nash, Fumio Toda.

Crystal Structures and Thermal Analysis of Hexakis(3-hydroxy-3,3-diphenyl-2-propynyl)benzene with 1,4-dioxane and 1,3-dioxolan-2-one

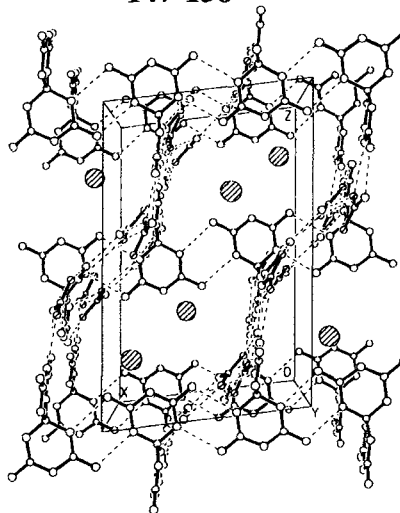
**137-145**

In the preparation of new inclusion compounds ( $n\text{-C}_3\text{H}_7\text{N}_4\text{N}^+[\text{B}_5\text{O}_6(\text{OH})_4]^- \cdot 4(\text{NH}_2)_2\text{CO} \cdot \text{H}_2\text{O}$  (1) and ( $n\text{-C}_4\text{H}_9\text{N}_4\text{N}^+[\text{B}_5\text{O}_6(\text{OH})_4]^- \cdot 2(\text{NH}_2)_2\text{CO} \cdot \text{B}(\text{OH})_3$  (2), the pentaborate ion is generated in situ and incorporated into the host lattice through hydrogen-bonding interaction with its nearest neighbors. In compound 1 the citations are arranged in a zigzag column within each channel. Compound 2 is of particular interest as the pentaborate ion takes the unusual role of serving as both host and guest, with one of its two  $\text{B}_3\text{O}_3(\text{OH})_2$  fragments forming planar hydrogen-bonded ribbons each threading a row of holes in the stacked host layers.

Qi Li and Thomas C. W. Mak

Novel Inclusion Compounds of Urea with Tetraalkylammonium Pentaborates

**147-156**



2-D grids formed by diamine salts of trimesic acid are sustained by the trigonal nature of trimesic acid and strong hydrogen bonds. In one of three salts reported the 2-D grid is porous but adjacent grids fill the pores.

Rosa E. Meléndez and Michael J. Zaworotko

Towards Crystal Engineering of Organic Porous Solids: Diammine Salts of Trimesic Acid

**157-168**

