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Index Abstracts

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Index Abstracts

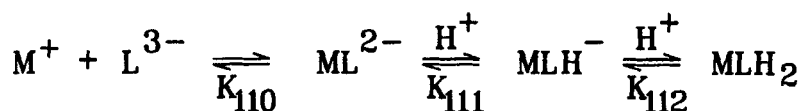
The solubilities of α -, β -, and γ -cyclodextrin in water have been explained in terms of the formation of large aggregates, which in turn must interact with the hydrogen bonding network in water. This explanation is strengthened by the results of surface potential measurements of two series of amphiphilic cyclodextrin derivatives.

P. Tchoreloff, A. Baszkin, M.-M. Boissonade, P. Zhange and A. W. Coleman

Direct evidence for symmetry control in cyclodextrin-water interactions

169-171

Binding constants for the complexation of K^+ , Rb^+ and Cs^+ with 5, 11, 17, 23, 29, 35-hexakis-*tert*-butyl-37, 39, 41-trimethoxy-38, 40, 42-*tris*-oxoacetic acid calix[6]arene show selectivity for Rb^+ .

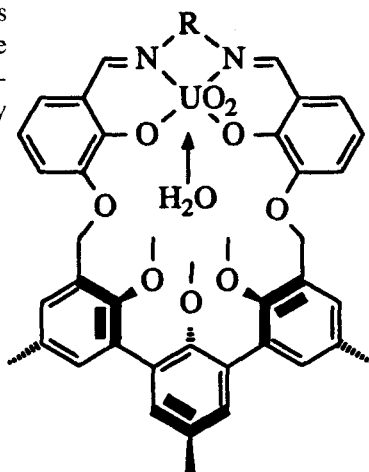


James E. Bollinger, Justin K. Moran, Emil M. Georgiev and D. Max Roundhill

Protonation and stability constants for the complexation of K^+ , Rb^+ and Cs^+ with 5, 11, 17, 23, 29, 35-hexakis-*tert*-butyl-37, 39, 41-trimethoxy-38, 40, 42-*tris*-oxoacetic acid calix[6]arene

173-175

Three new preorganized metallomacrocycles with an immobilized electrophilic center have been synthesized. They show a large selectivity for ammonia over water, and primary amines.

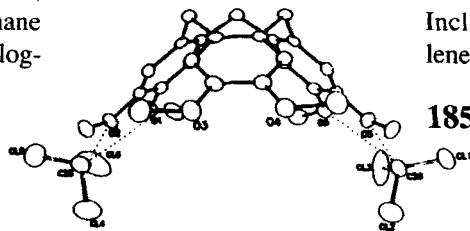


Frank C. J. M. Van Veggel, Gabriela Chiosis, Beth R. Cameron and David N. Reinhoudt

Preorganized metallomacrocycles: selective receptor for NH_3

177-183

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

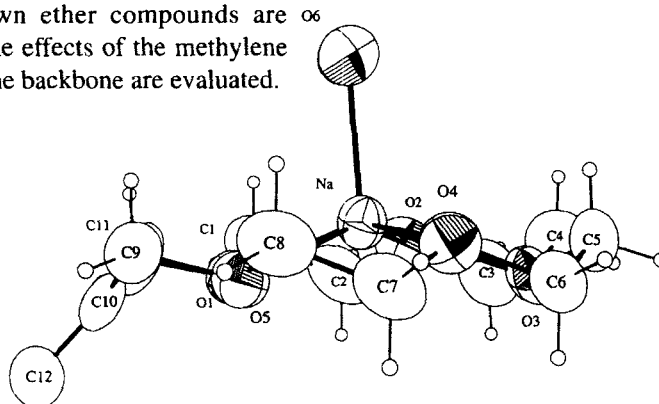


Hongming Zhang, Jonathan W. Steed and Jerry L. Atwood

Inclusion chemistry of cyclotrimeratrylene

185-190

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

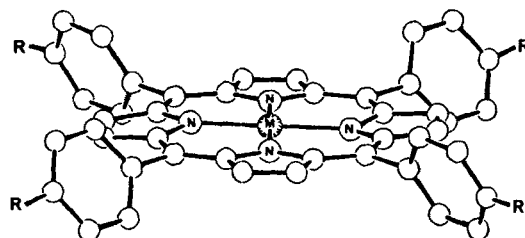


Robin D. Rogers, Andrew H. Bond, Rodger F. Henry and Andrew N. Rollins

The effects of methylene-substituents in crown ether backbones. Crystal structures of $[\text{Na}(\text{OH}_2)(\text{methylene-16-crown-5})]\text{I}$, $[\text{Na}(\text{NO}_2)(\text{methylene-16-crown-5})]\cdot 0.5 (\text{H}_2\text{O})$, 3,16-dimethylene-26-crown-8, $[\text{Na}_4\text{I}_4 (3,16\text{-dimethylene-26-crown-8})]$, and $[\text{Na}_2 (\text{OH}_2)_4 (3,16\text{-dimethylene-26-crown-8})]\text{I}_2$

191-202

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.

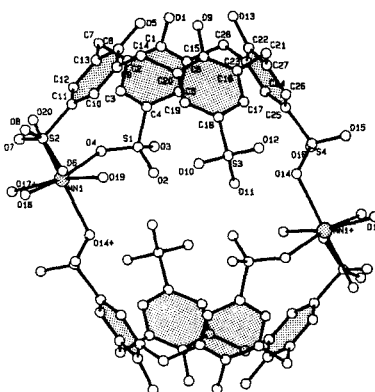


Israel Goldberg, Helena Krupitsky, Zafra Stein, Yu Hsiou and Charles E. Strouse

Supramolecular architectures of functionalized tetraphenylmetalloporphyrins in crystalline solids. Studies of the 4-methoxyphenyl, 4-hydroxyphenyl and 4-chlorophenyl derivatives

203-221

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 distorted octahedral coordination geometry with two sulfonato groups occupying the cis coordination sites.

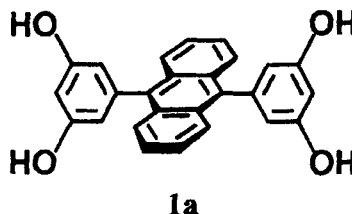


Hideshi Iki, Hirohisa Tsuzuki, Hideomi Kijima, Itaru Hamachi and Seiji Shinkai

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

223-228

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.

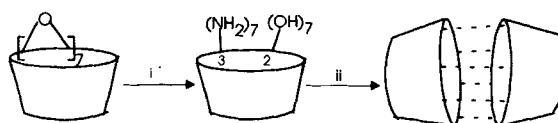


Yasuhiro Aoyama, Ken Endo, Kenji Kobayashi, Hideki Masuda

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

229-241

Synthesis of the first custom designed cyclodextrins obtained by a nucleophilic attack on heptakis-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

243-246