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Index Abstracts

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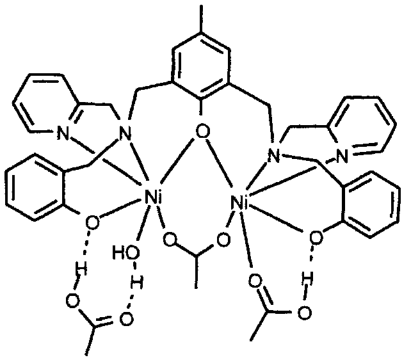
Index Abstracts

Reaction of the title ligand with nickel(II) and zinc(II) acetates has given complexes containing non-coordinated acetic acid molecules which are tightly hydrogen bonded to the pendant phenols of the ligand generating a double acid salt, $[CH_3COO\cdots H\cdots L\cdots H\cdots OOCCH_3]^{3-}$ in the dinickel complex and a single acid, $[CH_3COO\cdots H\cdots L]^{3-}$ in the dizinc complex. In both cases the ligand periphery has been extended to provide a supraligand in which the donor potential of the original ligand has been enhanced.

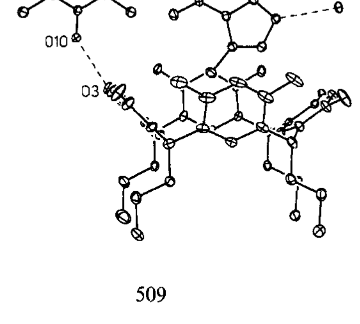


Harry Adams, Darren Bradshaw and David E. Fenton

Dinuclear Nickel(II) and Zinc(II) Complexes of 2,6-[N, N′-bis(2-hydroxyphenylmethyl)-N,N′-bis (2-pyridylmethyl) aminomethyl]-4-methylphenol

513–519

The alkaloid caffeine molecule is complexed by *C*-(*n*-propyl)calix[4]resorcinarene units through hydrogen bonds involving one of its oxygen and one of its nitrogen atoms and $CH_3\cdots\pi$ interactions involving one of its methyl groups. Water and methanol molecules are also present in the packing, giving rise to an extended hydrogen bonding pattern. The crystal structure of the macrocycle with included acetonitrile is also reported.

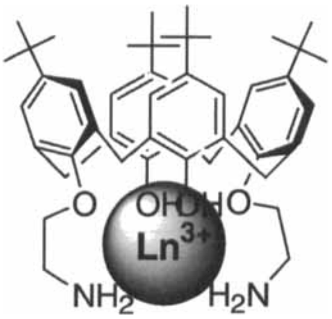


Pierre Thuéry, Martine Nierlich, Zouhair Asfari, Jacques Vicens, Osamu Morikawa and Hisatoshi Konishi

Crystal Structure of *C*-(*n*-propyl)-calix[4]resorcinarene and its Complex with Caffeine

521–527

The complexation thermodynamics of *p-tert*-butylcalix[4]arene derivatives **1** and **2** with light lanthanoid nitrates were investigated, and **2** displays strikingly different cation binding abilities and selectivity profiles with much higher K_S values for La^{3+} and Ce^{3+} as compared with **1**.

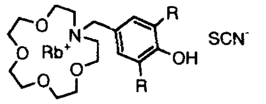


Yu Liu, Shang Li, Xiao-Peng Bai, Takehiko Wada and Yoshihisa Inoue

Complexation Thermodynamics of *p-tert*-Butylcalix[4]arene Derivatives with Light Lanthanoid Nitrates in Acetonitrile

529–537

A molecular structure of the RbSCN complex with N-(4′-hydroxy-3′, 5′-diisopropylbenzyl)-monoaza-15-crown-5 ether in which both a 1 : 1 complex and a $(1:1)_n$ polymer-like complex are present in a unit cell is reported.



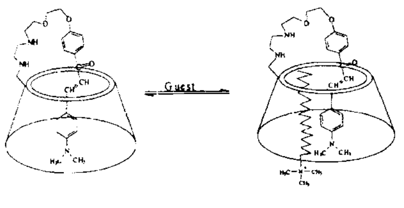
1: R = Me Polymer-like complex
2: R = *i*-Pr A mixture of polymer-like and 1:1 complexes
3: R= *t*-Bu 2:2 complex

Yoichi Habata, Atsushi Watanabe and Sadatoshi Akabori

Molecular Structure of RbSCN Complex with N-(4′-hydroxy-3′, 5′-diisopropylbenzyl)-monoaza-15-crown-5 Ether: Two Structures in a Unit Cell

539–543

A ternary complex was formed when the hydrophobic alkyl chain of STAC molecule was inserted into the cavity of modified β-cyclodextrin.

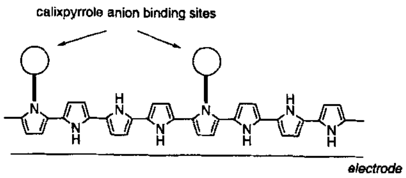


Hongzhi Xie and Shikang Wu

Synthesis of Chemical Modified β-cyclodextrin and its Inclusion Behavior in Alcohol/Water Mixed Solvents

545–556

The first examples of the synthesis of calix[4]pyrroles containing pendant *N*-substituted pyrrole moieties (in the *meso*- and *β*-positions) is reported. Attempts at the production of electropolymerised films containing solely functionalised calixpyrroles failed, however the electrochemical co-polymerisation of the pyrrole-functionalised calixpyrroles and pyrrole has been achieved.



Philip A. Gale, Ellen R. Bleasdale and George Z. Chen

Synthesis and Electrochemical Polymerisation of Calix[4]pyrroles Containing *N*-substituted Pyrrole Moieties

557–563