

IN THIS ISSUE

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Cover

See Jonathan L. Sessler, Natalie M. Barkey, G. Dan Pantos and Vincent M. Lynch, *New J. Chem.*, 2007, **31**, 646. Like the Hydra of old, the psychedelic Antarctic octopus (*Paraleledone turqueti*) is a monster capable of grabbing its victim using multiple interactions. The same is true for the new anion receptor described by Sessler *et al.* We thank Elaina Jorgensen of the U.S. National Oceanic & Atmospheric Administration for kindly providing us with the image of the octopus.

CHEMICAL SCIENCE

C33

Drawing together the research highlights and news from all RSC publications, *Chemical Science* provides a 'snapshot' of the latest developments across the chemical sciences showcasing newsworthy articles, as well as the most significant scientific advances.

Chemical Science

May 2007/Volume 4/Issue 5

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EDITORIAL

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Introduction to the special issue in honour of George Gokel

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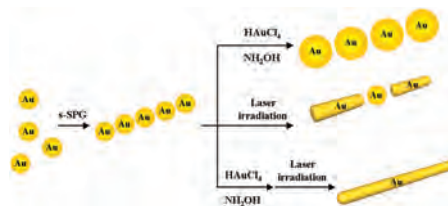
LETTERS

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New approach to preparing one-dimensional Au nanowires utilizing a helical structure constructed by schizophyllan

Ah-Hyun Bae, Munenori Numata, Sunao Yamada and Seiji Shinkai*

We studied the transformation of 1D Au nanoparticles created with the aid of SPG into Au nanowires, expecting SPG to act not only as a 1D template for preorganization of Au nanoparticles but also for facilitation of Au nanoparticle fusion.

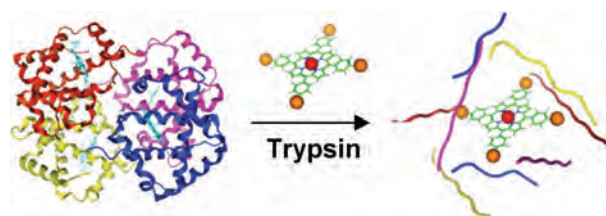


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Denaturation and accelerated proteolysis of sizeable heme proteins by synthetic metalloporphyrins

Steven Fletcher and Andrew D. Hamilton*

A synthetic, copper porphyrin unwinds the α -helical domains of the heme proteins hemoglobin, myoglobin and cytochrome c, thereby catalyzing trypsin-mediated proteolysis.

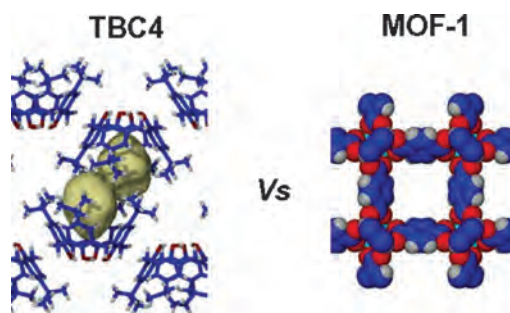


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Comparison of porous and nonporous materials for methane storage

Praveen K. Thallapally,* Karen A. Kirby and Jerry L. Atwood*

Sublimed, low-density *p*-*tert*-butylcalix[4]arene absorbs methane more readily at room temperature and 1 atm pressure than do either single wall carbon nanotubes (SWNT) or a comparative porous metal–organic framework (MOF-1).

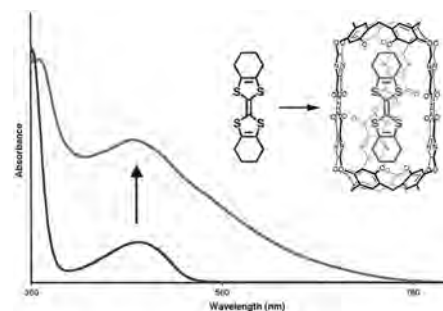


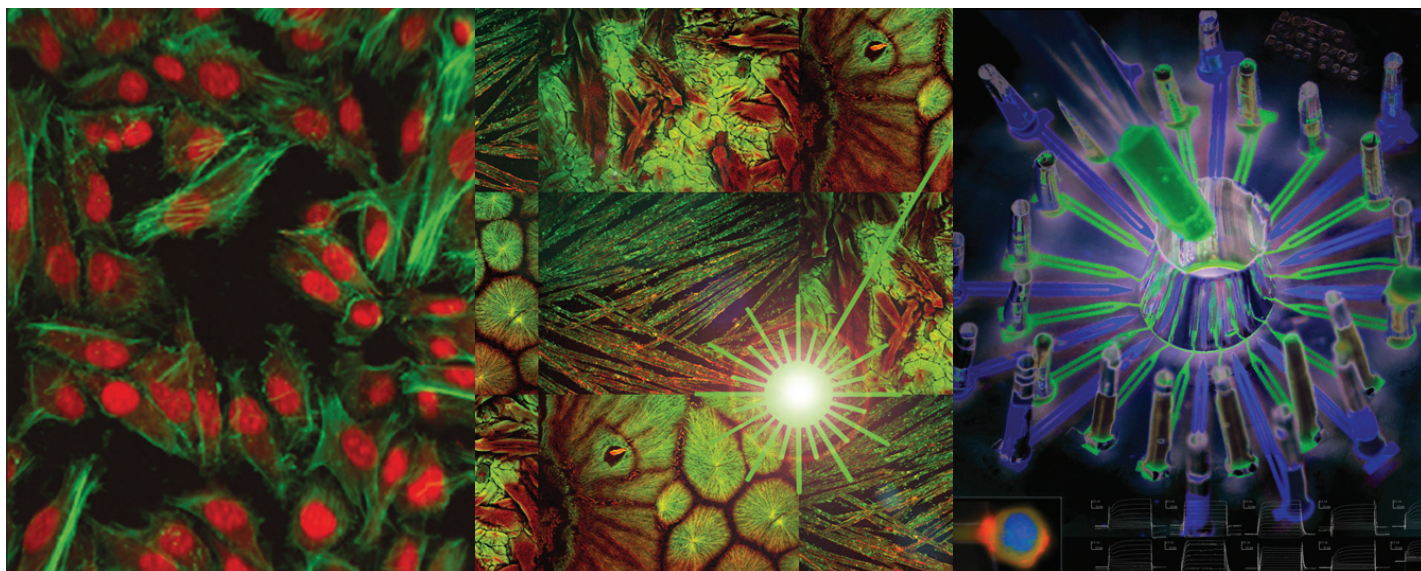
631

Charge transfer and encapsulation in a synthetic, self-assembled receptor

Hillary Van Anda, Andrew J. Myles and Julius Rebek, Jr*

Tetrathiafulvalene derivatives show charge transfer and exceptional binding within a self-assembled molecular capsule.





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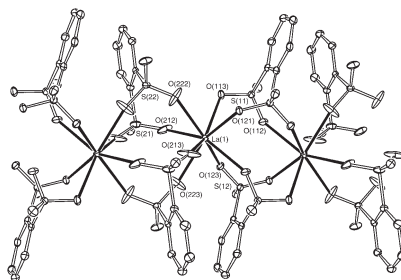
PAPERS

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Structural versatility in hydrated rare earth(III) 1,2-benzenedisulfonates

Glen B. Deacon,* Rita Harika, Peter C. Junk, Brian W. Skelton and Allan H. White

Mononuclear and polymeric species arise from lanthanoid 1,2-benzenedisulfonate interactions. In all structures, hydrogen-bonding involving water of crystallization links the cations and the anions in a supramolecular superstructure.

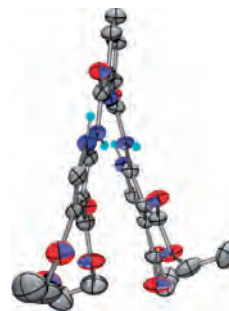


646

Acyclic pyrrole-based anion receptors: design, synthesis, and anion-binding properties

Jonathan L. Sessler,* Natalie M. Barkey, G. Dan Pantos and Vincent M. Lynch

A series of novel, acyclic pyrrole-based anion receptors is described that bind nitrite and carboxylate anions with good selectivity in dichloroethane solution.

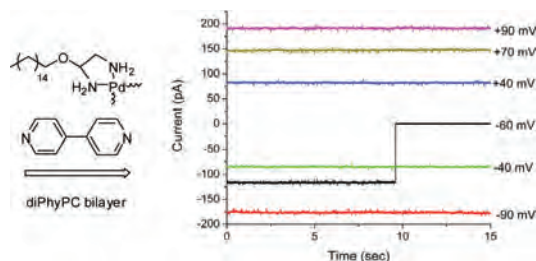


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Long-lived and highly conducting ion channels formed by lipophilic ethylenediamine palladium(II) complexes

Thomas M. Fyles* and Christine C. Tong

An ethylenediamine palladium complex forms very long-lived and highly conducting channels in bilayer membranes.

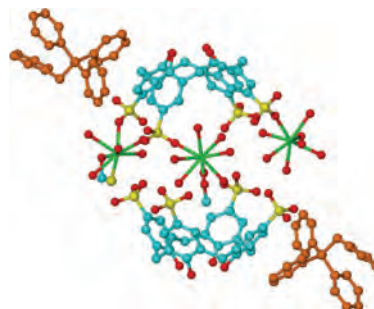


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Controlling the interplay of large organic ions: *para*-sulfonato-calix[4]arene and phosphonium cations

Mohamed Makha,* Yatimah Alias, Colin L. Raston* and Alexandre N. Sobolev

Materials based on polyanionic *para*-sulfonato-calix[4]arene and tetraphenylphosphonium (Ph_4P^+) or benzyltriphenylphosphonium (BzPh_3P^+) cations are built up *via* partial inclusion and extensive phenyl embracing in association with trivalent cations (Yb^{3+} , Gd^{3+} and Er^{3+}).



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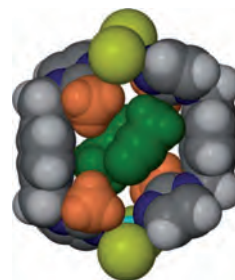
PAPERS

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The solvent-templating effect as the driving factor that influences the formation of crystalline materials based on the stacking of metallocycles

Liliana Dobrzańska, Gareth O. Lloyd and Leonard J. Barbour*

Depending on factors such as solvent size and shape, and solvent–complex interactions, a variety of ring conformations and coordination polymers are observed for the same set of complexing components.

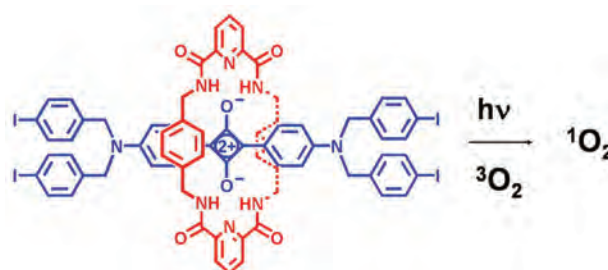


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Singlet oxygen generation using iodinated squaraine and squaraine-rotaxane dyes

Easwaran Arunkumar, Pallikkara K. Sudeep, Prashant V. Kamat, Bruce C. Noll and Bradley D. Smith*

The aggregation and photophysical properties of an iodinated squaraine dye and analogous squaraine-rotaxane are compared; the squaraine-rotaxane system is much more resistant to photobleaching and thus is a more effective singlet oxygen photosensitizer.

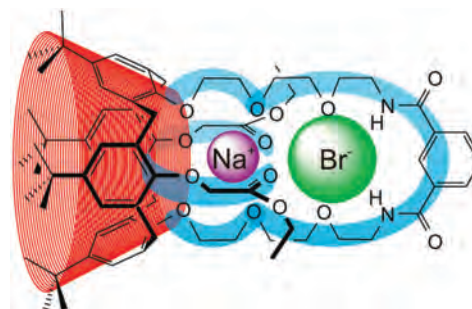


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Tuning the strength and selectivity of ion-pair recognition using heteroditopic calix[4]arene-based receptors

Michael D. Lankshear, Ian M. Dudley, Kar-Man Chan and Paul D. Beer*

The fine tuning of selectivity and strength of cooperative ion-pair recognition using heteroditopic calix[4]arene-based receptors has been achieved. These modulations in binding properties are found to depend critically on the cation binding site and the macrocyclic nature of the receptors.

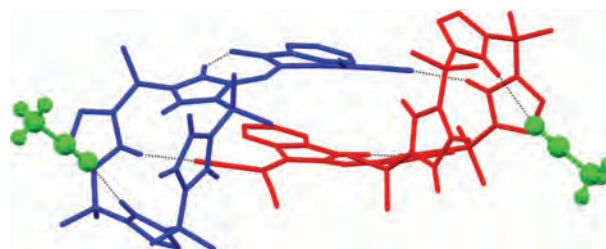


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Anion recognition by *N*-confused calix[4]pyrrole- α -carbaldehyde and its Knoevenagel reaction derivatives

Wim Dehaen,* Philip A. Gale,* Sergio E. García-Garrido, Maarten Kostermans and Mark E. Light

The synthesis of a *N*-confused calix[4]pyrrole- α -carbaldehyde is reported, together with its Knoevenagel reaction derivatives.





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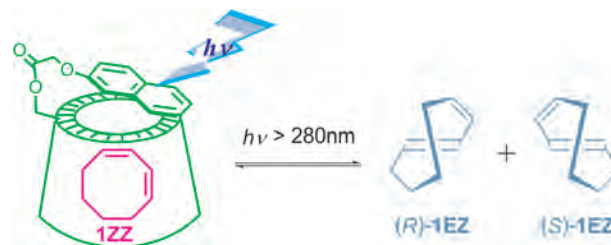
PAPERS

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Supramolecular enantiodifferentiating photoisomerization of (Z,Z)-1,3-cyclooctadiene included and sensitized by naphthalene-modified cyclodextrins

Cheng Yang, Tadashi Mori, Takehiko Wada and Yoshihisa Inoue*

Supramolecular complexation of naphthalene-modified cyclodextrins with (Z,Z)-1,3-cyclooctadiene (**1ZZ**) results in faster fluorescence quenching. Enantiodifferentiating photoisomerization of **1ZZ** included and sensitized by γ -cyclodextrin-based sensitizer is highly entropy-correlated.

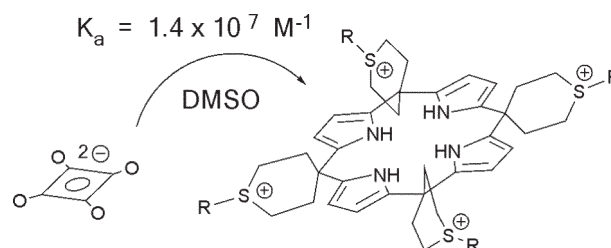


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Sulfoniumcalixpyrrole: the decoration of a calix[4]pyrrole host with positive charges boosts affinity and selectivity of anion binding in DMSO solvent

Martin Valik, Vladimir Král, Eberhardt Herdtweck and Franz P. Schmidtchen*

Supplementation of the calix[4]pyrrole core structure by sulfonium centers enhances the affinity and selectivity of specific anion binding over background ion-pairing in DMSO dramatically.

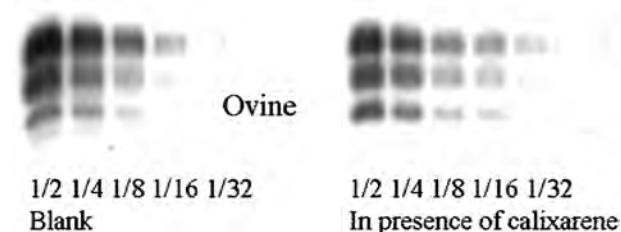


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Enhanced detection of the pathogenic prion protein by its supramolecular association with *para*-sulfonato-calix[*n*]arene derivatives

Anthony W. Coleman,* Florent Perret, Sébastien Cecillon, Aly Moussa, Ambroise Martin, Maryline Dupin and Hervé Perron

para-Sulfonato-calix[*n*]arenes act to amplify the Western Blot immunological detection of the prion protein by the SAF84 antibody.

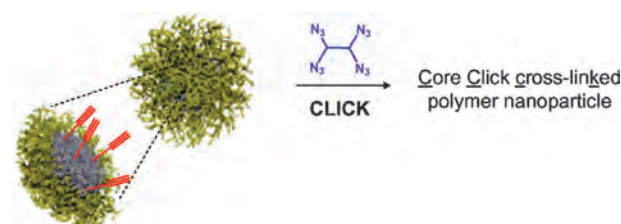


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Preparation of orthogonally-functionalized core Click cross-linked nanoparticles

Rachel K. O'Reilly, Maisie J. Joralemon, Craig J. Hawker* and Karen L. Wooley*

The single step cross-linking and Click readied-functionalization of alkynyl core functionalized micelles utilizing azido functionalized dendrimers (generations 0th–3rd) is described and allows for the synthesis of core Click cross-linked polymer nanoparticles with additional azido functionality available within the core domain and remaining carboxylic acid groups in the shell.





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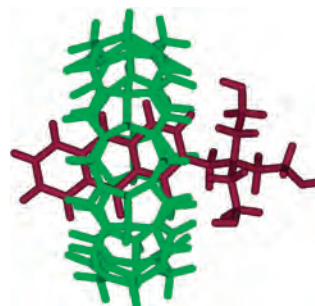


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Inclusion of anthraquinone derivatives by the cucurbit[7]uril host

Vladimir Sindelar, Samantha E. Parker and Angel E. Kaifer*

The host cucurbit[7]uril forms inclusion complexes of moderate stability with cationic anthraquinone derivatives. The cathodic electrochemical behavior of the guests is strongly affected by complexation.

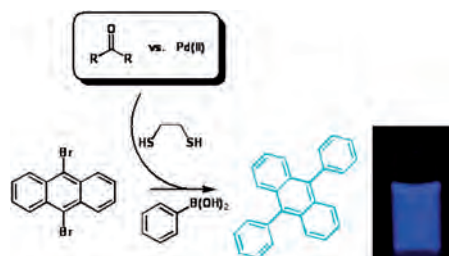


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Luminescent assays for ketones and aldehydes employing catalytic signal amplification

Ronald J. T. Houk and Eric V. Anslyn*

Novel catalytically amplified fluorescent and chemiluminescent sensors are reported in an assay for ketones and aldehydes.

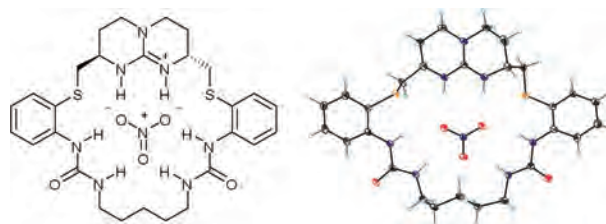


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Enthalpy driven nitrate complexation by guanidinium-based macrocycles

Pascal Blondeau, Jordi Benet-Buchholz and Javier de Mendoza*

All six lone pairs of a nitrate are fully complemented by oriented hydrogen bond donors from a macrocycle with one guanidinium and two urea subunits.

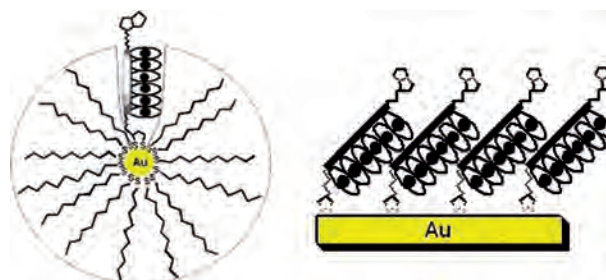


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Synthesis and characterization of peptide nanostructures chemisorbed on gold

Joëlle Martin Boutin, Julie Richer, Mélanie Tremblay, Véronique Bissonette and Normand Voyer*

Artificial ionic channels bearing a biotin end group were chemisorbed on gold substrates.



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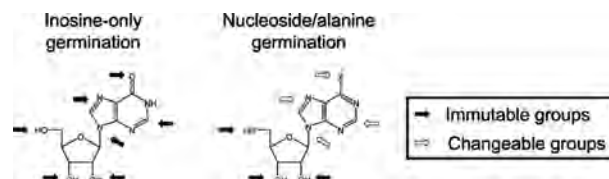
PAPERS

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Differential nucleoside recognition during *Bacillus cereus* 569 (ATCC 10876) spore germination

Ernesto Abel-Santos* and Tetyana Dodatko

Inosine is the only nucleoside able to germinate *B. cereus* 569 spores on its own. Addition of alanine as a co-germinant allows other nucleosides to replace inosine in the induction of spore germination.

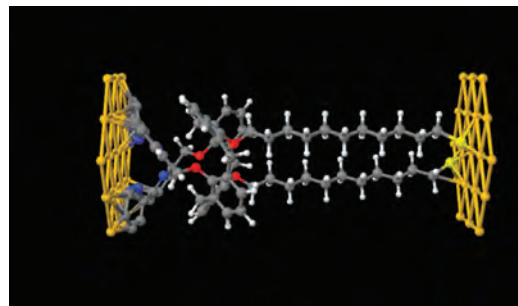


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Electron transport properties of calix[4]arene based systems in a metal–molecule–metal junction

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Metal–molecule–metal junctions based on a 1,3-alternate bis(dipyridyl)calix[4]arene derivative and its Cu^{2+} complex show different electron transport properties.

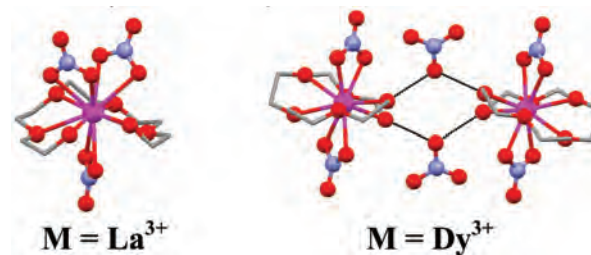


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Lanthanide polyether complexation chemistry: the interaction of hydrated lanthanide(III) nitrate salts with an acyclic 18-crown-6 analog, pentaethylene glycol

C. Corey Hines, Cary B. Bauer and Robin D. Rogers*

Systematic structural investigations of lanthanide nitrate complexation with a pentaethylene glycol indicated structural transition points were a result of steric strain, ionic radii, and glycol conformation.



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