含酚醚中心功能基的大二环型穴醚的合成及配位性能

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摘要 4-氯-2, 6-二羟基苯甲醚(2)与氯乙酸钠缩合,制得4-氯-2, 6-二(羟甲氧基甲基)苯甲醚(4),由4经酰氯化生成4-氯-2, 6-二(3-氯甲酰基-2-氧杂丙基)苯甲醚(5)后,再与相应的二氮杂冠醚3a,3b和3c反应制备标题化合物1a~1c。用1个HNMR法研究了1a~1c对碱金属离子的配位性能,讨论了分子内的中心功能基和底环大小对其IR,1个HNMR和配位行为的影响。

 关键词
 红外分光光度法
 质子磁共振谱法
 穴醚
 苯甲醚 P
 冠醚
 配位性能
 氯乙酸钠

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Synthesis of macrobicyclic cryptands with a phenol ether central group and their complexation

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Abstract Three novel macrobicyclic cryptands I (n = 1-3) were synthesized by the reaction of diaza-15-crown-5, diaza-18-crown-6, and diaza-21-crown-7 with 4-chloro-2,6-bis(3-chlorocarbonyl-2-oxapropyl)anisole prepared from 4-chloro-2,6-bis(3-carboxyl-2-oxapropyl)anisole, which was obtained via the condensation of 4-chloro-2,6-dihydroxymethylanisole with Na chloroacetate. The complexation of I for alkali metal cations were studied by 1H NMR. The influence of central group and bottom ring size in the mols. I on IR, 1H NMR and complexation behavior is also discussed.

Key wordsINFRARED SPECTROPHOTOMETRYPROTON MAGNETIC RESONANCE SPECTROMETRYCRYPTANDANISOLE PCROWN ETHER

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