



The Journey of a Molecule to Macromolecule

By Shibu G Pillai

LAP Lambert Acad. Publ. Nov 2010, 2010. Taschenbuch. Book Condition: Neu. 220x150x4 mm. This item is printed on demand - Print on Demand Neuware - The calix[4]resorcinarene chemistry is mainly developed and focused in two directions: synthesis and applications of host-guest complexes by intermolecular forces and in construction of supramolecular assemblies. Interest in calix[4] resorcinarenes has grown rapidly also because of the numerous derivatization that can be created through relatively simple synthetic procedures. Substitution on the calix[4]resorcinarenes alters their properties and application. The introduction of chelating group such as hydroxamic acid on calix[4] resorcinarenes may further enhance the complexing ability for a large number of metal ions including transition metal and rare earth elements. With this in view, four new calix[4]resorcinarene-hydroxamic acids by substitution at the phenolic hydroxy groups have been synthesized. These, calix[4]resorcinarenes- hydroxamic acids are used for the complexation, separation, membrane transportation, and preconcentration of metal ions like V(V), La(III), Ce (IV), Th(IV), and U(VI). These elements are also determined in standard reference materials, soil, rock, and seawater samples 72 pp. Englisch.



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