

Spatial structure of water-soluble ammonium salts on the platform of tetrasubstituted on the lower rim *p*-*tert*-butylthiacalix[4]arenes containing glycine fragments

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Abstract

NMR ¹H spectroscopy method was used to study structure of lower rim tetrasubstituted *p*-*tert*-butylthiacalix[4]arenes, containing both amide and quaternary ammonium groups and glycine fragments in cone and 1,3-alternate conformation. It was shown that conformation of compounds may be established by method of one-dimensional NMR ¹H spectroscopy by positions of characteristic protons. It was established that in DMSO solution for tetrabromide and tetranitrate ammonium salts on the base of thiacalix[4]arene derivatives solvate-separated ion pairs are formed.