Russian Chemical Bulletin 1994 vol.43 N6, pages 964-967

Dimeric d- and dl-dysprosium(iii) tartrates: paramagnetic birefringence, molecular mechanics, stereoselectivity

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Abstract

The molar constants of paramagnetic birefringence (PBR) for the dimeric dysprosium(iii)d- and dl-tartrates, Dy2(d-Tart)(l-Tart)2- (1) and Dy2(d-Tart)2 2- (2) have been determined by means of pH-metric and PBR measurements. The simulation of the structure of the ligand and solvate environment has been carried out using the method of molecular mechanics (Dashevsky-Plyamovaty model, the MIND program). In addition to the four oxygen atoms from the ligand, each DyIII ion coordinates four molecules of water and a Na+ ion. © 1995 Plenum Publishing Corporation.

http://dx.doi.org/10.1007/BF01558058

Keywords

dysprosium, complexes, molecular mechanics, paramagnetic birefringence