

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

Chevela V., Vul'fson S., Matveev S., Salnikov Y., Semyonov V., Bezryadin S.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

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)₂²⁻ (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 Dy^{III} ion coordinates four molecules of water and a Na⁺ ion. © 1995 Plenum Publishing Corporation.

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Keywords

dysprosium, complexes, molecular mechanics, paramagnetic birefringence