

Composition, stability, and paramagnetic birefringence of heteronuclear terbium(III) and iron(III) d- And dl-tartrates

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Abstract

The formation of the heteronuclear terbium(III) and iron(III) d- and dl-tartrates was studied by the proton magnetic relaxation, pH-metric, and paramagnetic birefringence methods in conjunction with mathematical simulation. The paramagnetic birefringence constants m_P of these compounds were calculated. The stereoselective formation of dl-tartrates $FeTb(HL)_3$ 3-, $FeTb(HL)_2L_4$ 4-, and $Fe_2Tb_2HL_4$ 3- and the stereospecific formation of d-tartrates $Fe_3Tb_3L_6$ 6- and $Fe_3Tb_3L_6(OH)_2$ 8- and dl-tartrates $Fe_2Tb_2L_4$ 4-, $Fe_2Tb_2L_4(OH)_2$ 6-, and $Fe_2Tb_2(HL)_4L_2$ 8- (H₄L is tartaric acid) was discussed. © 1998 MAEe cyrillic signK Hayka/Interperiodica Publishing.
