

Heteronuclear titanium(IV) and dysprosium(III) citrate in aqueous solutions

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Abstract

The titanium(IV) – citric acid system was studied by the method of nuclear magnetic relaxation in conjunction with mathematical simulation in the molar reactant ratios 1:1:4 and 1:1:6. The composition, stability and the quantity of accumulation of heteronuclear titanium(IV) and dysprosium(III) complexes with citric acid in aqueous solution were calculated. The formation forms of 1:1:2, 1:1:3, 1:1:4, 2:2:8, 1:1:6 were determined.