



Synthesis and Structural Study of Yttrium (III) Complexes with Derivatives of Vitamin K3 Analog

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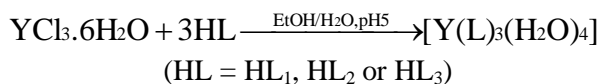
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ABSTRACT

Yttrium(III) metal forms a new complexes with -chloro, -bromo and -iodo derivative of lawsonemonoxime (2-hydroxy-1,4-naphthoquinone-1-oxime) as $[Y(L)_3(H_2O)_4]$ have been synthesized and characterized via Elemental Analysis, TG, IR, 1H NMR for ligands, Electronic and Magnetic Susceptibility techniques. These complexes are yellow and brown in color. The study showed that the mononuclear behavior of the complex. The bicapped antiprismatic geometry is suggested for all three halolawsonemonoxime complex of Yttrium.

Graphical Abstract



Complex formation

Keywords: Yttrium, Lawsone, halolawsonemonoximes, Yttrium Complex, Thermal Analysis.
