



Synthesis, Characterization and Ion Exchange Applications of Resin of Ln (III) Polychelates

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ABSTRACT

Synthesis of monomer 2, 4-dihydroxy Acetophenone (DHAP) was carried out from resorcinol. The resins poly [(2, 4- di hydroxy Acetophenone) ethylene, was synthesized using DHAP with Butane1,4 diol. Synthesized resin was used to prepared polychelates of La(III), Pr(III), Nd(III), Sm(III), Gd(III), Tb(III) and Dy(III) Monomer, resin and polychelates were characterized using modern analytical methods. The application of resin is also studied as an ion-exchanger for above mentioned Ln (III) metal ions.

Keywords: Monomer, resin, Polychelates, Lanthanides.
