

14. Study Of Chemically Synthesized Polythiophene

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ABSTRACT

The polythiophene (PTh) were synthesized by chemical oxidative polymerization method by using ferric chloride (FeCl_3) as an oxidant in aqueous medium at room temperature. The hydrogen peroxide (H_2O_2) was used as a catalyst. During polymerization, different concentration (0.2-0.4 M) of FeCl_3 was taken. The prepared samples of PTh were analysed by FT-IR technique to know the bond formation and hence confirmation of materials.

Keywords: Polythiophene; Chemical polymerization; FTIR