

SYNTHESIS OF POLY PYRROL, IT'S COMPOSITE WITH POLY ACRYLIC ACID AND STUDY OF THEIR ELECTRICAL PROPERTIES

Nadia A. Hussein Al-Assady, Baryham Saad Abdul Samad & Nazar A. Hussein

Department of Chemistry, College of Education, Basrah University, Basrah, Iraq

ABSTRACT

Poly pyrrol, poly acrylic acid, their composite were prepared and identified by FTIR and UV spectroscopy. The thermal stability of the compounds were studied by TG thermal analysis. The study shows that the compounds were stable till about 300 0 C. The x-ray diffraction shows a crystal structures and the d-spacing of the crystallites were calculated. The morphology of the compounds were studied by scanning electron microscope. The dc electrical conductivity of the doped and un-doped compounds were measured and compared.

KEYWORDS: *Poly Pyrrol, Poly Acrylic Acid, Composite, Blend, TG, X-Ray Diffraction, SEM and Dc Electrical Conductivity*

Article History

Received: 20 Jan 2019 | Revised: 01 Feb 2019 | Accepted: 21 Feb 2019
