

Abstract

Acid dyes have several uses in the coloring of wool, poly esters, and mixture of these two fibers. The present work consequently concentrated on synthesis of new acid dyes for wool fabric. Three new mono azo dyes have been formed by the diazotization of with aniline-4-amino benzene sulphonic acid and their coupling with resorcinol and 1-naphthol respectively, and three new bis azo dyes formed by the diazotization with aniline-4-amino benzene sulphonic acid with intermediate D₁. All acid dyes were produced yield in pure form, and gave different shades. The characterization of new dyes by UV/Vis and IR spectroscopy gives absorption maximum and transmittance and in acidic and basic medium the solubility of dyes is observed. On wool materials, the dyeing ability is evaluated. in light of their tiredness and concentration, washing and light's fastness possessions are decided.