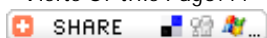




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Research Details :

Research Title : *Novel dyes derived from hydrazones. Part 2: synthesis and characterizations of N-methyl-4-tricyanovinylidenephenyl-hydrazones*
Novel dyes derived from hydrazones. Part 2: synthesis and characterizations of N-methyl-4-tricyanovinylidenephenyl-hydrazones

Descriptipn : Novel tricyanovinyl derived from N-methylhydrazones have been prepared by the reaction of tetracyanoethylene and N-methylbenzylidenehydrazone, and these dyes showed absorption in the region of 500 nm. The dyes showed pronounced solvatochromic effects as the solvents polarity increased. Some of the new dyes were studied to show their aggregation properties in solution as the concentration changed. Most of the dyes studied showed change in the absorption spectrum and hence the position of the maximum absorption bands. The thermal stability of some of the prepared dyes was studied in poly(methyl methacrylate) film at 80 degrees C; the substitution on the aromatic aldehydes showed some improvement of the thermal stability of the dyes. (c) 2004 Elsevier Ltd. All rights reserved.

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