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Synthesis and Application of Monoazo Reactive Dyes on Silk, Wool and Cotton Fibers

Alkesh B. Patel[1], Parikshit I. Vashi[1], Vijay D. Patel[1], Dharmishtha H. Patel[2], Keshav C. Patel[1] and Paresh S. Patel[1]*

1. Department of Chemistry, Veer Narmad South Gujarat University, Surat-395007, **INDIA**
2. Narmada College of Science and Commerce, Zadeshwar, Bharuch-392011, **INDIA**

Email: ncscpsp@gmail.com

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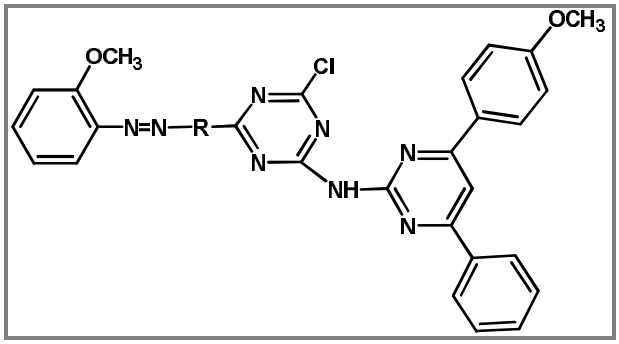
ABSTRACT

Various monoazo reactive dyes have been synthesized by coupling of diazotized o-anisidine with various 4-(4'-methoxyphenyl)-6-phenylpyrimidin-2-yl-amino cyanurated coupling components such as H-acid, Gamma acid, J-acid, S-acid, Koch acid , Bronner acid, Tobias acid, Cleve acid, Peri acid and Laurant acid. They were characterized by nitrogen elemental analysis, IR and ^{1}HNMR spectra. The dyeing performance of all these dyes on silk, wool and cotton has also been assessed.

Graphical Abstract



Synthesis of monoazo reactive dyes.

Keywords: 2-Amino-4-(4'-methoxyphenyl)-6-phenylpyrimidine, Characterization, Monoazo reactive dyes, Application.