Ovidius University Annals of Chemistry Volume 16, Number 2, pp 221-227, 2005

Disperse dyes derivatives of compact condensed system 2-aminothiazolo[4,5-f]indazole. Synthesis and characterization

Cristiana RĂDULESCU [a*], Corneliu TĂRĂBĂŞANU-MIHĂILĂ[b], Ana-Maria HOSSU[a], Ionica IONIŢĂ[a] and Irina Elena MOATER[a]

[a] *Department of Chemistry, ''Valahia'' University Târgovişte, Faculty of Science, 18-22 Unirii Blvd. 130082*
[b]*University ''Politehnica'' Bucharest, Faculty of Industrial Chemistry, Polizu street no. 1, 011061*

Abstract The paper presents the synthesis of some disperse dyes derivatives of compact condensed system 2-aminothiazolo[4,5-f]indazole. These dyes obtained by synthesis, have been characterized by elemental analysis, melting points, IR, UV-VIS and NMR spectroscopic methods. The separation and purification of synthesized compounds by TLC and HPLC methods are also presented. The tinctorial properties of obtained disperse dyes were tested upon some polyacrylic fibres by painting. A large scale of full-bodied brightness shadow was obtained, generally based on the nature of diazotized amine. The resulting paintings have very good fastness to wet treatments. The fastness to light is strongly dependent on the structure of diazo thermal fastness by coupling agent.

Keywords: 2-aminothiazolo[4,5-f]indazole, disperse dye, spectral analysis, tinctorial properties

---

ISSN-1223-7221