

عنوان مقاله:

Synthesis and color fastness properties of an alkali-clearable azo disperse dye based on naphthalimide

محل انتشار:

پنجمین کنگره بین المللی مهندسی شیمی (سال: 1386)

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خلاصه مقاله:

An alkali-clearable azo disperse dye based on naphthalimide derivative containing a fluorosulfonyl group was synthesized. 2-Nitro-4- fluorosulfonylaniline, the diazo component, was prepared from chloride and was subsequently coupled to 4-hydroxy-N- N-acetylsulfanyl The synthesized dye and its intermediates were characterized by the use methoxypropyl-naphthalimide. of DSC, FTIR, ¹H NMR and UV-visible spectroscopic techniques. Spectrophotometric investigations of the prepared dye were carried out in order to obtain its absorption maximum and molar extinction coefficient. The obtained dye was applied to polyester fabric by an H.T. method and exhibited good leveling, wash and sublimation fastnesses and moderate light fastness. The fluorosulfonyl group obviate the need for the use of sodium hydrosulfite, which places a very high BOD on the effluent system, thus it should significantly reduce the cost .of effluent treatment

کلمات کلیدی:

Alkali-clearable; Azo disperse dye; Fluorosulfonyl group; Naphthalimide; Fastness properties

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