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Research Details :

Research Title : *AlCl₃-catalyzed diazocoupling of 1-(aryl/hetaryl)-3-phenyl-1H-pyrazol-2-in-5-ones in aqueous medium.*
AlCl₃-catalyzed diazocoupling of 1-(aryl/hetaryl)-3-phenyl-1H-pyrazol-2-in-5-ones in aqueous medium.

Descriptipn : Abstract: Organic synthesis in water is a new methodology of green chemistry. AlCl₃-catalyzed diazocoupling of 1-(aryl/hetaryl)-3-phenyl-1H-pyrazol-2-in-5-ones (1) in water with different aryl/hetaryldiazonium salts afforded the corresponding hetaryl-azopyrazolones (2) as colored products with high yields. These dyes were characterized by UV-vis, FIF-IR and H-1 NMR spectroscopic techniques and elemental analysis. Cotton, wool, silk and polyesters fabrics were dyed and their photostability and color fastness were identified. (c) 2005 Elsevier Ltd. All rights reserved.

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