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Preparation and Evaluation of Fastness Properties of Carboxylic Acid Group of Heterocyclic Azo Dyes

B. E. Ezema*, S.A, Agada, P. C. Uzoewulu

Department of Pure and Industrial Chemistry (Organic Chemistry Unit), Faculty of Physical Sciences, University of Nigeria, Nsukka, Nigeria

Abstract: 4-aminobenzoic acid and 4-amino-2-hydroxybenzoic acid were diazotized and coupled correspondingly with 8-hydroxyquinoline, 5-nitroso-8-hydroxyquinoline, 5-nitro-8-hydroxyquinoline and 5-chloro-8-hydroxyquinoline. The excellent coloured azo dyes were applied on some textile fabrics and their fastness properties evaluated based on the **International Geometric Gray Standard**. The dyes were characterized by FT-IR, NMR and elemental analysis.

Keywords : 4-aminobenzoic acid; 4-amino-2-hydroxybenzoic acid; 8-hydroxyquinoline, 5-nitroso-8-hydroxyquinoline; 5-nitro-8-hydroxyquinoline; 5-chloro-8-hydroxyquinoline; diazotization; coupling reaction; dyeing.

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