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Classifications, properties, recent synthesis and applications of azo dyes

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ABSTRACT

In this work, we have presented a very detailed review of the different classifications of azo dyes as a function of the number of azo group and the application functional groups. Then we pointed out their chemical properties of these dyes such as reactivity, biodegradability and environmental problems. In the following we have presented some recent synthesis of azo dyes and the mechanism of azo dye synthesis. Finally, we reviewed the properties of azo dyes and their applications in the synthesis of azo dyes.

1. Introduction

Azo dyes represent the largest production volume of dye chemistry today, and their relative importance may even increase in the future. They play a central role in the production of the dye and printing market. These dyes are synthesized from a simple method of diazotization and coupling. Different routes and modifications are made to obtain the desired color properties, yield and particle size of the dye for required applicability [1].

synthesis of azo dyes among them are [1], [2] reduction of nitro aromatic derivatives to aniline derivatives, reduction of nitro aromatic groups by H₂, oxidation of primary amines by peroxides, generation of azo compounds, condensation of hydroxyl and primary, condensation of primary amines with nitro derivatives, etc.

The azo group may be bonded to benzene rings, naphthalene, aromatic heterocycles or to nonaromatic aliphatic groups [1]. There are several ways to give the color of the dye, with their shades of different intensities.

Various Methods for Removal of Dyes from Industrial Effluents - A Review

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Abstract

Abstract: To explore most suitable and efficient method for the removal of dyes from textile effluents. **Methods:** **Statistical Analysis:** In this paper, statistical information of research work carried out by many researchers related to various methods for the removal of cationic dyes especially Methylene B, Methylene Blue, Crystal Violet, Methylene Green and Solochrome B dye present in textile effluent have been compiled and compared to find out cheap and effective method by calculating their percentage removal. **Results/Recommendation:** It has been found that among all the methods reported so far, Adsorption process shows promising results and overcomes almost all the demerits of otherwise efficient methods like advanced oxidation and electro-coagulation etc. in terms of high cost and design problems. In the use of natural adsorbents and agricultural/industrial waste materials especially modified flyash, red mud, activated rice husk, surfactant modified alumina, bentonite clay as adsorbents is recommended for the removal of cationic dyes since they are of low cost, eco cost, easily available and have great affinity for dyes. Moreover agricultural/industrial waste often poses a disposal problem. In their use (after chemical treatment) as adsorbent is environmental friendly. **Limitations/Improvements:** This review paper would be helpful to find the most promising method for the removal of cationic dyes from the textile effluent considering the merits and demerits of each method. Much work has been done to explore the most effective and cheap method for the removal of dyes, recently but not under the range of operating conditions. In future, more methods need to be explored to study and check removal of dyes from real textile effluent at the industrial level as the dye effluent also contains other harmful pollutants. Attention is to be paid to develop cheaper and more efficient adsorbents from the agricultural/ industrial waste with some modification which would be cost effective. Moreover, management of exhausted adsorbents is also to be taken care of.

Keywords: Biodegradability, Biosorbent, Cationic Dyes, Coagulation, Adsorbent Extraction and Fenton's Reagent

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