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Classifications, properties, recent synthesis and applications of azo dyes

Said Benkhaya^{a,*}, Samir Mriouh^b, Ahmed El Hail^a

^a Laboratory of Inorganic, Applied and Environmental Chemistry (LAIAC) Faculty of Sciences, University of Tlemcen, Tlemcen 34000, Algeria

^b Laboratory of Chemistry and Environment, Faculté d'Ingenierie des Sciences et Sciences Fondamentales, Faculté de Sciences, Université de Tlemcen, Tlemcen, Algeria

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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 summarized 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 dispersibility [1].

synthesis of azo dyes among them are [1], [2] reduction of nitro aromatic derivatives to aniline derivatives, reduction of nitro aromatic groups by H_2/NH_3 , oxidation of primary amines by peracetic acid, peracetic acid/oxalic acid, 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

Sangeeta Sharma and Amandeep Kaur*

Department of Applied Sciences, Shaheed Bhagat Singh State Technical Campus, Ferozepur - 152004, Punjab, India, sharma101@gmail.com, sharma101@yahoo.co.in

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. **Findings/Recommendations:** 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/Implications:** 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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Christian Drosten



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web experiment 8 ballistic pendulum objective to use a ballistic pendulum to determine the velocity of a projectile to verify this velocity by measuring the range of the projectile experiment we use measurements obtained from a ballistic pendulum to review energy conservation momentum conservation and projectile motion

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web abstract in this experiment we measured g by measuring the period of a pendulum of a known length we measured $g = 7.65 \pm 0.378 \text{ m/s}^2$ this corresponds to a relative difference of 22.22% with the accepted value 9.8 m/s^2 and our result is not consistent with the accepted value

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web the ballistic pendulum measures the velocity of projectiles through the conservation of linear momentum and mechanical energy in this experiment we can determine the initial velocities of the projectile motion by measuring the distance on which the center of mass of the projectile rises through the law of conservation of linear momentum and

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web to obtain the velocity of a projectile using a ballistic pendulum the length of the pendulum had to be measured as well as the mass of the pendulum projectile and the pendulum swing angle there were two methods used to complete this experiment and obtain the value of the velocity

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web experimental technique 1 use foam to set up a trap to catch the projectile see image 1 2 set up the pendulum and projectile launcher with the rotary motion sensor see image 2 3 3 measure the mass of the pendulum and the projectile as well as the length of the pendulum 4 prepare data studio for the experiment 5

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