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PG AND RESEARCH DEPARTMENT OF CHEMISTRY

THIAGARAJAR COLLEGE, MADURAI 625 009

(An autonomous institution affiliated to Madurai Kamaraj University)

Re-Accredited with 'A' Grade by NAAC

www.tcarts.in

International Conference on Functional Materials (ICFM)

First Edition: 2017

ISBN: 978-93-86537-91-1

Copy right

Publisher
SHANLAX PUBLICATIONS
61, 66 T.P.K. Main Road
Vasantha Nagar
MADURAI – 625003
Tamil Nadu, INDIA

Ph: 0452-4208765,
Mobile: 7639303383
email:publisher@shanlaxpublications.com
web:www.shanlaxpublications.com

SYNTHESIS AND CHARACTERIZATION OF 1, 5-BIS (2-HYDROXY-4-(P-TOLYLDIAZENYL) PHENYL) PENTA-1, 4-DIEN-3-ONE (HTDPPD)

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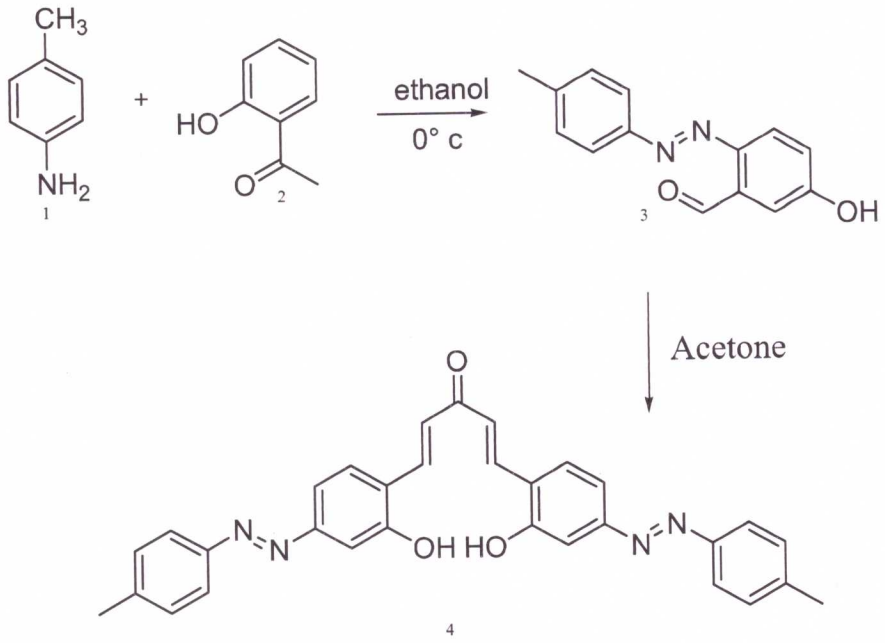
The versatile ligational behaviour of azo compounds had evoked considerable interest in the past. Both the azo dyes and their metal complexes find applications in dye industry. The presence of metals makes the dyes more specific and selective. It is our aim to synthesise new azobenzene derivative and expected to exhibit variety of characteristics such as biological and catalytic properties.

The present work focuses on the synthesis of azobenzene derivative by reacting the mixture of 2-hydroxy-5-(p-tolyldiazenyl) benzaldehyde(2mmol) and acetone (1mmol) in alkaline solution at room temperature.

The synthesized compounds were characterized using various physical and chemical methods of analysis such as UV-Vis, FTIR, NMR, fluorescence, CV, TG and elemental analysis.



Keywords: Azobenzene, dyes, Hydroxy benzaldehyde