



Microwave Assisted Synthesis of 14- aryl- 14H-dibenzo [a, j] xanthenes Catalyzed by Oxalic acid

Kiran F. Shelke^{1*} and Jayram V. Gholave²

1. Department of Chemistry, Late Pushpadevi Patil Arts and Science College,
Risod, Dist. Washim- 444 506 (MS) **INDIA**

2. Department of Applied Chemistry, Sardar Patel College of Engineering, Andheri (W),
Mumbai-400058 (MS) **INDIA**

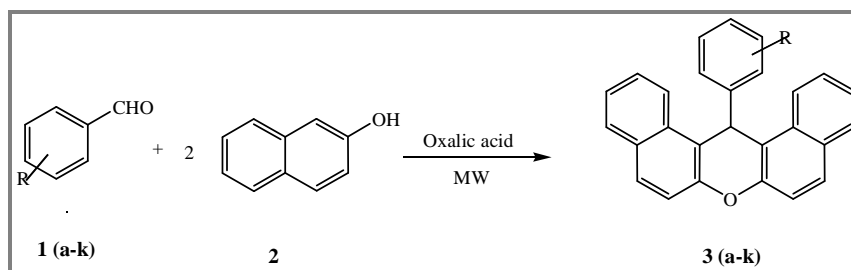
E-mail: kiranshelke82@gmail.com, jayram_gholave@spce.ac.in

Accepted on 10th September, 2019

ABSTRACT

An eco-friendly and efficient protocol was developed for the one-pot synthesis of 14- aryl-14H-dibenzo [a, j] xanthenes from the condensation of various substituted aldehydes and 2-naphthol under microwave irradiation using inexpensive oxalic acid as catalyst. The method is general with wide substrate scope giving products in excellent yields and short reaction time.

Graphical Abstract



14- aryl- 14H-dibenzo [a, j] xanthenes.

Keywords: Oxalic acid, Dibenzoxanthene, Aldehydes, Microwave activation.