IJARSCT



International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

e 10, March 2025 Impact Factor: 7.67

Volume 5, Issue 10, March 2025

Molecular Iodine Assisted Green Synthesis of Benzimidazoles

Arshia Parveen

Department of Chemistry,
B. Raghunath College, Parbhani, MS, India
arshiairfanmalik@gmail.com

Abstract: Green synthesis of 2-substituted Benzimidazoles in the presence of molecular iodine(10mol%) the mixture of o-phenylenediamine in I_2 was added benzoyl chloride at room temperature and reaction mixture was grind at room temperature after 20 minutes reaction was completed. The reaction gives high yield. The short reaction time, clean reaction, and easy workup make this protocol green and efficient.

DOI: 10.48175/IJARSCT-24743

Keywords: Benzimidazoles, molecular iodine, room temperature, green synthesis





