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Sustainable Synthesis of Schiff Base Ligand involving Green Technology

This research underscores sustainability through the implementation of environmental friendly synthesis of Schiff Base, leveraging the well-established versatility and pharmacological effects of the ligand. Citric acid, sourced from citrus fruits, replaces conventional laboratory acids, fostering an eco-friendly acidic environment for catalytic activity. Microwave irradiation, for 4 to 5 minutes, accelerates the reaction, minimizing harmful chemical emissions compared to traditional reflux processes. Structural prediction, comprehensive analysis of anti-bacterial studies unveils significant interactions of the ligands. This holistic approach aligns with sustainable practices and advances the understanding of environmentally conscious synthesis methodologies.

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