

Synthesis of Schiff Base Complexes of Lanthanides in Microwave Assisted via Eco Friendly Method

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Abstract: *Some new Schiff base complexes of dysprosium derived from alpha naphthyl amine with different benzaldehyde. Reactions were carried out under microwave conditions. The ligands and their dysprosium complexes show a good activity against the bacteria S.aureus E.coli and fungi Penicillium Crysogenum, Aspergillus niger. The Schiff bases and their dysprosium complexes show variable activity of inhibition on the growth of bacteria.*

Keywords: Microwave synthesis, Schiff's base, antibacterial activity, eco-friendly

REFERENCES

- [1]. S. Miglani, M. Mishra, P. Chawla, Der Pharma Chemica, 2012, 4 (6), 2265-2269.
- [2]. A. Mishra, R. Jain, J. Chem. Pharm. Res., 2010, 2 (6), 51-61.
- [3]. R. Pagadala, P. Ali, J. Meshram, J. Coord. Chem., 2009, 62 (24), 4009-4017.
- [4]. V. Yadav, N. Kumari, L. Mishra, Indian J. Chem., 2011, 50A (8), 1035- 1042.
- [5]. K. Srivastava, A. Singh, S. Singh, International Journal of Advanced Research in Chemical Science (IJARCS), 2014, 1(2), 11-20.
- [6]. B Singh, T. Singh, Indian Journal of Chemistry, 1999, A38, 1286.
- [7]. H. Mayadeo, J. Nalgaikar, Journal of Inst. Chem (India), 1988, 60, 139.
- [8]. L. Dreth, S. Sitram, F. Madalosso, J. Bandoli, J. Palocci, Journal of Inorg. Nucl. Chem., 1980, 42, 1060.
- [9]. T Mangamamba, M. Ganorkar, G. Swarnabala, International Journal of Inorganic Chemistry, 2014, Article ID 736538, 22.
- [10]. A. Kabeer, M. Baseer, N. Mote, Asian. J. Chem., 2001, 13 (2), 496-500.
- [11]. K. Rajasekar, T. Ramachandramoorthy, S. Balasubramaniyan, Research Journal of Chemical Sciences, 2013, 3(3), 48-52.
- [12]. S. Desai, P. Desai, K. Desai, Heterocyclic Communication, 2001, 7(1), 83-90.
- [13]. M. Prasad, K. Alex, K. Aravind, E-Journal of Chemistry, 2009, 6(2), 449-458.