

Poster Presentations

Water Soluble [Cu(dien)(NN)]Br₂ complexes and their antibacterial activity

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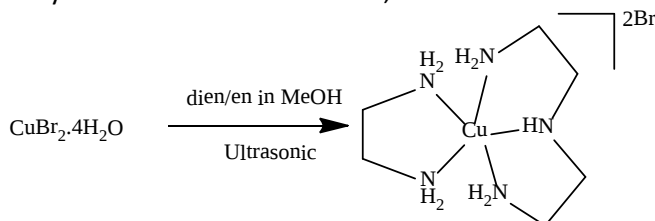
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Abstract

Water soluble dicationic copper(II) complexes of general formula [Cu(dien)(NN)]Br₂ [dien = diethylenetriamine and NN is diamines] were made available in good yield under ultrasonic mode, as in the Scheme.



The reaction was monitored by both FT-IR and UV-vis spectroscopy. The 3D structure was solved by X-ray single crystal diffraction. The solvatochromism phenomena of such complexes is recorded in several types of solvents. These complexes were spectrally and thermally characterized. The complexes showed higher antibacterial activity against several types of bacteria depending on their structures geometry.

References [1] M. Al-Noaimi, M. I. Choudhar, F. F. Awwadi, W. H. Talib, T. Ben Hadda, S. Yousuf, A. Sawafta, I. Warad, Spectrochim. Acta, Part A, 127 (2014) 225–230. [2] K.P. Balasubramanian, K. Parameswari, V. Chinnusamy, R. Prabhakaran, K. Natarajan, Spectrochim. Acta, Part A, 65 (2006) 678–683.