

Poster Presentations

Aqua bromo-*bis*-(propane-1,3-diamine)copper(II) bromide nanocrystal complex

Bahaa Abd Al-Ghani¹, Shankar Madan Kumar², Naveen Shivalingegowda³,
Nearthur Krishnappagowda Lokanath⁴, Ismail Warad^{1*},

¹Department of Chemistry, Science College, An-Najah National University, P.O. Box 7, Nablus, Palestine. ² PUSRE Lab, Mangalagangothri, Mangalore University, Mangalore 574 199, India.

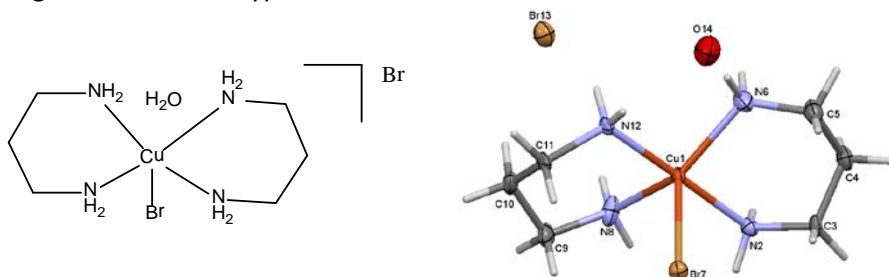
³Institution of Excellence, Vijnana Bhavan, University of Mysore, Manasagangothri, Mysore 570 006, India.

⁴Department of Studies in Physics, University of Mysore, Manasagangothri, Mysore 570 006, India

warad@najah.edu

Abstract

Nanocrystal Cu(II) complex was prepared as in the scheme, characterized by spectroscopic techniques (IR, TOF-MS, UV-Visible, TG/DTA) and finally its three dimensional structure was confirmed by X-ray diffraction studies. The Cu^{II} ion is five coordinated by four nitrogen atoms of the base ligand and one bromide ion. In the crystal structure, molecules are connected through intermolecular hydrogen bonds of the type N---H...Br and N---H...O.



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] T. Rosu, E. Pahontu, C. Maxim, R. Georgescu, N. Stanica, A. Gulea, Polyhedron 30 (2011) 154-162.