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

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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 Cu²⁺ 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