



ChemTech

International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.11 No.02, pp 155-160, 2018

Crystal structure analysis of Crystal structure of dichloridobis(2-ethylimidazole) copper(II)

K. Elumalai^{1*}, K. Rajkumar², A. S. Ganeshraja³, K. Anbalagan², K. Sakthi Murugesan¹

¹Department of Physics, Presidency College (Autonomous), Chennai-600 005, India

²Department of Chemistry, Pondicherry University, Pondicherry 605 014, India

³Effect Data Center & Laboratory of Catalysts and New Materials for Aerospace, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China.

Abstract : In the title compound, $C_{10}H_{16}Cl_2CuN_4$ was synthesized by the reaction of copper dichloride and 2-ethylimidazole. Cu^{2+} cation is coordinated by two Cl-anions and the N atoms of two ethylimidazole ligands, forming a distorted $Cu(N_2Cl_2)$ tetrahedron. The two ethylimidazole rings are almost perpendicular to one another, making a dihedral angle of $34.9(3)^\circ$. Crystal data were collected using CrysAlis CCD Oxford Diffraction X-ray diffractometer. The structure was solved by direct methods and refined on F2 by full-matrix least-squares procedures to the final R1 of 0.0370 using SHELXL programs.

Key Words : Imidazole, Copper (II) and crystal structure.

K. Elumalai et al /International Journal of ChemTech Research, 2018,11(02): 155-160.

DOI= <http://dx.doi.org/10.20902/IJCTR.2018.110219>
