

Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali (/jspui/)

- / Publications of IISER Mohali (/jspui/handle/123456789/4)
- / Research Articles (/jspui/handle/123456789/9)

Please use	this identifier to cite or link to this item: http://hdl.handle.net/123456789/190
Title:	Syntheses and X-ray crystal structures of five- and six-coordinate copper(II) complexes of N,N,N',N'-tetraalkylpyridine-2,6-dicarboxamides containing-OCIO3 and-OSO2CF3 counter ions.
Authors:	Kapoor, Ramesh (/jspui/browse?type=author&value=Kapoor%2C+Ramesh)
Keywords:	Alkyl-substituted pyridine-2,6-dicarboxamides Metathetical reactions Steric and anionic effects X-ray crystal structures
Issue Date:	2010
Publisher:	Taylor & Francis.
Citation:	Journal of Coordination Chemistry, 63 (20), pp. 3635-3647
Abstract:	Reactions of anhydrous copper(II) chloride with NaX (1:1 or 1:2) and AgX (1:2) containing appropriate N,N,N',N'-tetraalkylpyridine-2,6- dicarboxamides(O-daap) in CH3CN yield monosubstituted five-coordinate [Cu(L1)C I(CF3SO3)] (1), [Cu(L2)CI(CIO4)] (2), [Cu(L3)CI(CIO4)] (3), and six- coordinate [Cu(L2)(CF3SO3)2] H2O (4) (X = -OCIO3 and-OSO2CF3; L1 = N,N,N',N'-tetraethylpyridine-2,6- dicarboxamides; L2 = N,N,N',N'-tetraisopropylpyridine-2,6-dicarboxamides; L3 = N,N,N',N'-tetraisobutylpyridine-2,6-dicarboxamides). The structures of these complexes have been determined by X-ray crystallography. The Cu2+ in 1-3 adopts distorted square-pyramidal geometry, while 4 exhibits octahedral structure. Steric factors in conjunction with lattice effects and the nature of the anions are responsible for the variety in coordination spheres. These compounds undergo extensive intermolecular H-bonding to give to 2-D sheets extending along various planes.
Description:	Only IISERM authors are available in the record.
URI:	http://www.tandfonline.com/doi/abs/10.1080/00958972.2010.517267 (http://www.tandfonline.com/doi/abs/10.1080/00958972.2010.517267)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files i	n This	Item:
---------	--------	-------

File	Description	Size	Format	
Need to add pdf.odt (/jspui/bitstream/123456789/190/3/Need%20to%20add%20pdf.odt)		8.63 kB	OpenDocument Text	View/Open (/jspui/bitstream/123456

Show full item record (/jspui/handle/123456789/190?mode=full)

(/jspui/handle/123456789/190/statistics)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.