

Indian Journal of Chemistry

Sect. A: Inorganic, Bio-inorganic, Physical, Theoretical & Analytical

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CODEN: ICACEC; ISSN: 0376-4710 (Print), 0975-0975 (Online)

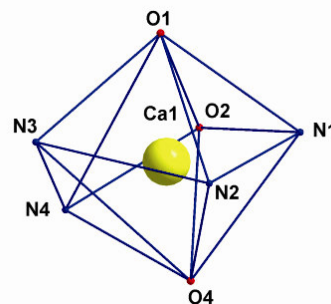
VOLUME 50A

NUMBER 6

JUNE 2011

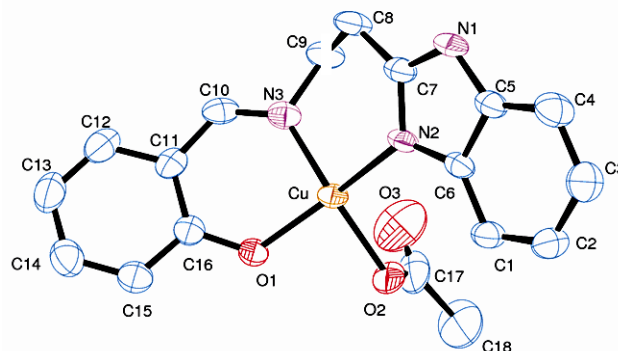
CONTENTS

- 763** **Supramolecular aggregation in alkaline earth metal 3- and 4-hydroxybenzoates using 1,10-phenanthroline auxiliary** Incorporation of N-donor ligands in the coordination sphere of alkaline earth metal ion hydroxybenzoate complex has been achieved. The N-donor ligands often occupy the same side of the large coordination sphere of these metal ions.



Remya Korah, Laksheswar Kalita & Ramaswamy Murugavel*

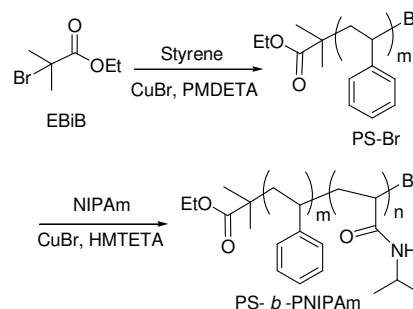
- 775** **Synthesis, spectral and structural characterization of Cu(II) complexes of a tridentate NNO donor Schiff base carrying a pendant benzimidazolyl arm** Copper(II) in the complex $[\text{Cu}(\text{L})\text{CH}_3\text{COO}]$ adopts a distorted square planar geometry and selectively oxidises dopamine to dopachrome in the presence of molecular oxygen as an oxidant.



Robin Kumar, Kuldeep Mahiya & Pavan Mathur*

781 Thermoresponsive polystyrene-*b*-poly(*N*-isopropylacrylamide) copolymers by atom transfer radical polymerization

A well defined amphiphilic block copolymer based on styrene and *N*-isopropylacrylamide using ATRP technique has been synthesized in a two-step process. This temperature-responsive block with hydrophobic block is attractive for biomedical applications.

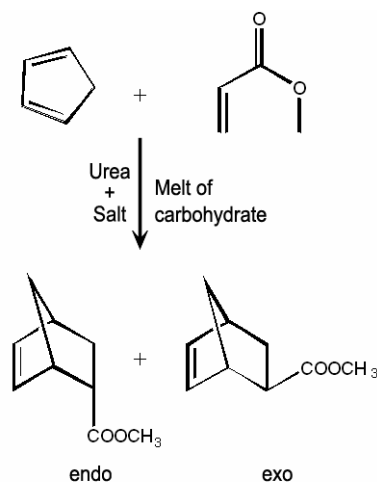


Vaishali S Shinde*, Madhavi R Girme & Vishwas U Pawar

Notes

788 Eutectic mixture-directed kinetics of Diels-Alder reaction

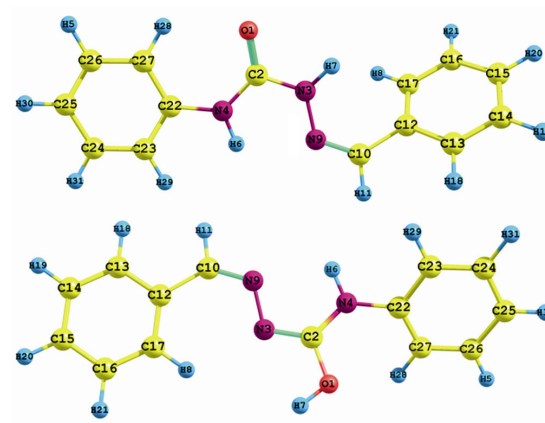
Eutectic mixtures of carbohydrates with urea and dimethyl urea are effective solvent media for bimolecular Diels-Alder reactions.



Amit S Nagare & Anil Kumar*

793 FT-IR and FT-Raman spectral studies and DFT calculations of tautomeric forms of benzaldehyde-*N*(4)-phenylsemicarbazone

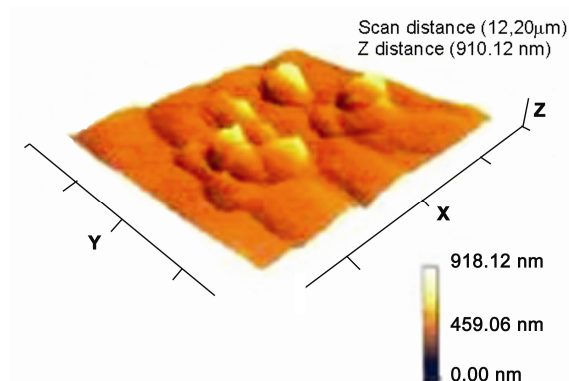
The vibrational wave numbers of the keto and enol forms of benzaldehyde-*N*(4)-phenylsemicarbazone have been computed using B3LYP/6-311++G** level of theory and compared with experimental FT-IR and FT-Raman data. Optimized geometrical parameters of the title compound are in agreement with the reported structures. The calculated first hyperpolarizability is comparable with the reported values of similar derivatives. The extended π -electron delocalization over the semicarbazone moiety is responsible for the nonlinearity of the molecule.



V L Siji, M R Sudarsanakumar*, S Suma,
Abraham George & P V Thomas

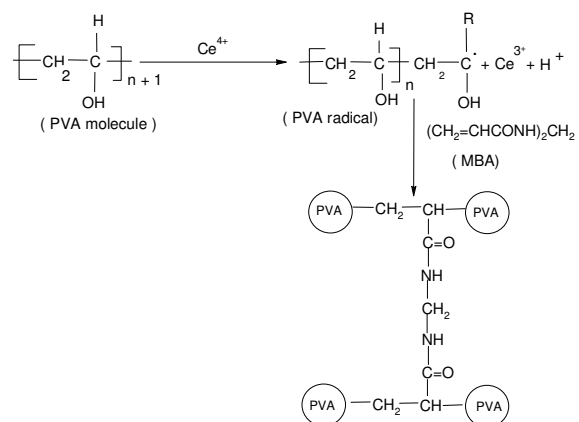
798 Growth of nanosized cupric sulphate-urea complex in aqueous medium and its characterization

Cupric sulphate-urea complex with particle diameter in the range 24-120 nm, has been synthesized and characterized.



Ishwar Das*, Shoeb A Ansari & N R Agrawal

802 Synthesis of crosslinked poly(vinyl alcohol) and studies on its efficiency in zinc ion uptake from aqueous solution



P Chowdhury*, A Mukherjee & B Singha

807 Guide to Authors

Authors for correspondence are indicated by (*)