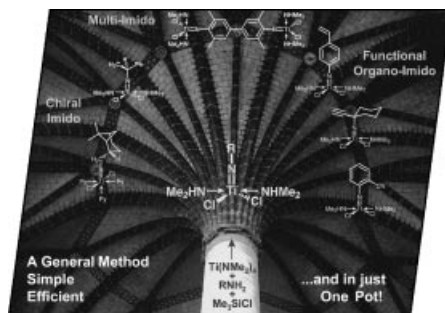


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COVER PICTURE

The cover picture shows some various examples of terminal imido–titanium complexes of the general formula $\text{Ti}(=\text{NR})\text{Cl}_2(\text{NHMe}_2)_2$ that are accessible through the reported one-pot reaction of $\text{Ti}(\text{NMe}_2)_4$ with a primary amine RNH_2 in the presence of excess chlorotrimethylsilane. This procedure appears to be general to the generation of a wide range of imido groups: alkyl-, silyl-, and aryl-imido groups, as well as functional organoimido, chiral imido, and diimido ligands. $\text{Ti}(=\text{NR})\text{Cl}_2(\text{NHMe}_2)_2$ complexes are of particular interest as organometallic synthons and for further applications in the field of homogeneous catalysis and materials science. The background photo of the famous palm tree vault of the Jacobins church (Toulouse, France, founded in the 13th–14th centuries) symbolizes the diversity of the compounds – arranged in arc around the palm tree vault – that can be prepared by using our promising synthetic strategy, and provides a solid foundation – the pillar – for attractive applications. Details are discussed in the article by C. Lorber et al. on p. 4503 ff. The authors acknowledge Christian Bergounhou (LCC Toulouse) for the Palm Tree photograph.



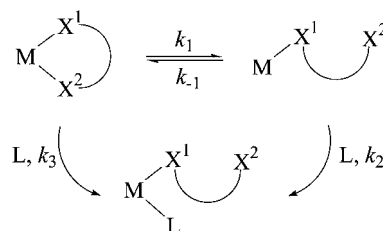
MICROREVIEW

Contents

4473 M. Bassetti*

Kinetic Evaluation of Ligand Hemilability in Transition Metal Complexes

Keywords: Ligand hemilability / Oxidative addition / Platinum metals / Kinetics / Reaction mechanisms



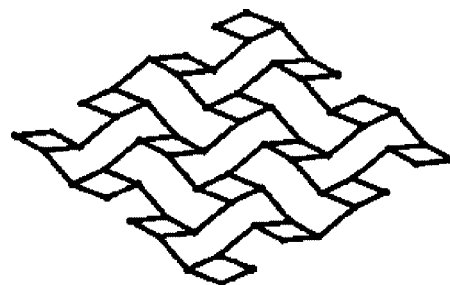
SHORT COMMUNICATIONS

4483 G. Yong, S. Qiao, Y. Xie, Z. Wang*



Cadmium(II) and Zinc(II) Coordination Polymers with 1D Ladder and 2D Basket Weave Layer Structures Constructed from a New T-Shaped Ligand

Keywords: Pyridinones / Polymers / T-shaped ligands / Luminescence / Coordination modes

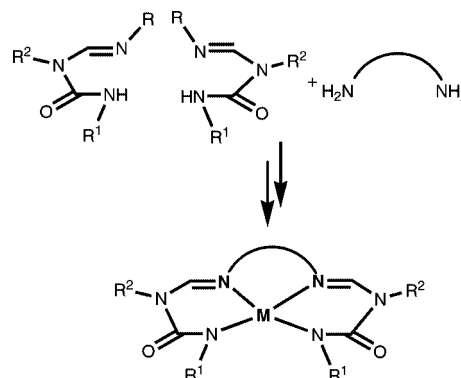


4489 D. D. Díaz, S. Sen Gupta, J. Kuzelka, M. Cymborowski, M. Sabat, M. G. Finn*



Bis(formamidine-urea) Complexes of Ni^{II} and Cu^{II}: Synthesis, Characterization, and Reactivity

Keywords: Formamidine ligand / Urea ligand / Nickel / Copper / Catalysis

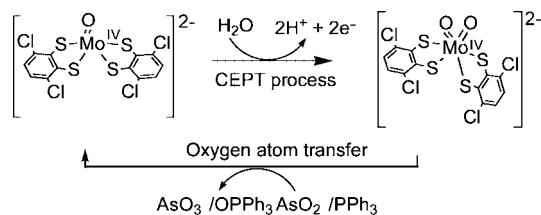


4494 H. Sugimoto,* M. Tarumizu, H. Miyake, H. Tsukube



Bis(dithiolene) Molybdenum Complex that Promotes Combined Coupled Electron-Proton Transfer and Oxygen Atom Transfer Reactions: A Water-Active Model of the Arsenite Oxidase Molybdenum Center

Keywords: Bioinorganic chemistry / Electrochemistry / Molybdenum / Reaction mechanism / S ligands

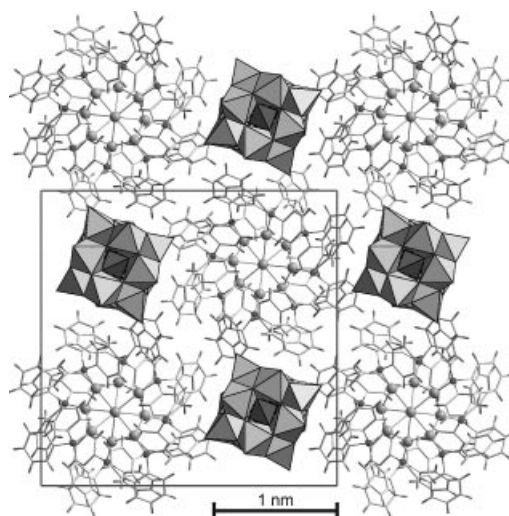


4498 M. Schulz-Dobrick, M. Jansen*



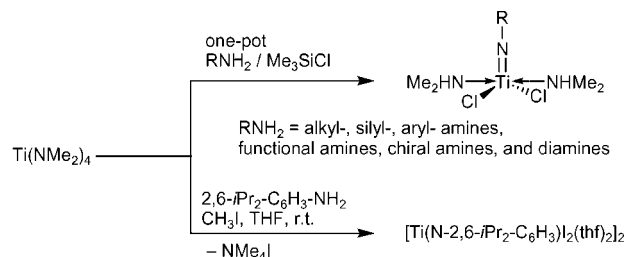
Supramolecular Intercluster Compounds Consisting of Gold Clusters and Keggin Anions

Keywords: Supramolecular chemistry / Cluster compounds / Polyoxometalates / Nanomaterials / Gold clusters



4503 C. Lorber,* R. Choukroun, L. Vendier

A General and Facile One-Step Synthesis of Imido–Titanium(IV) Complexes: Application to the Synthesis of Compounds Containing Functionalized or Chiral Imido Ligands and Bimetallic Diimido Architectures

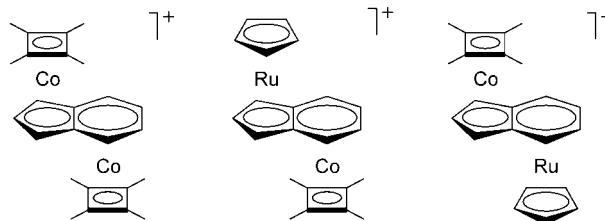


Keywords: Imido / N ligands / Multiple bonds / Titanium / Synthesis design

4519 E. V. Mutseneck, Z. A. Starikova, K. A. Lyssenko, P. V. Petrovskii, P. Zanello, M. Corsini, A. R. Kudinov*



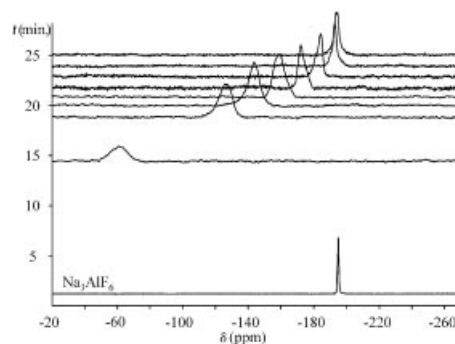
Slipped μ -Indenyl Triple-Decker Complexes Containing (C₄Me₄)Co and (C₅R₅)Ru Fragments



Keywords: Cobalt / Ruthenium / Sandwich compounds / Triple-decker complexes / Electrochemistry

4528 F. Šimko,* A. Rakhmatullin, M. Boča, V. Daněk, C. Bessada

A High-Temperature Multinuclear NMR Study of Na₃AlF₆/FeO and Na₃AlF₆/Fe₂O₃ Melts

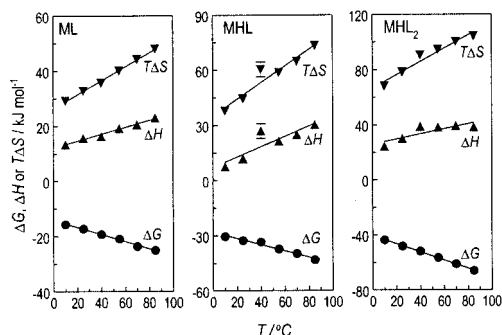


Keywords: Electrolysis / NMR spectroscopy / Cryolitic melts / Aluminium / Iron

4533 P. Di Bernardo,* P. Zanonato, A. Bismondo, H. Jiang, A. Y. Garnov, J. Jiang, L. Rao*



Complexation of Uranium(VI) with Thiodiacetic Acid in Solution at 10–85 °C

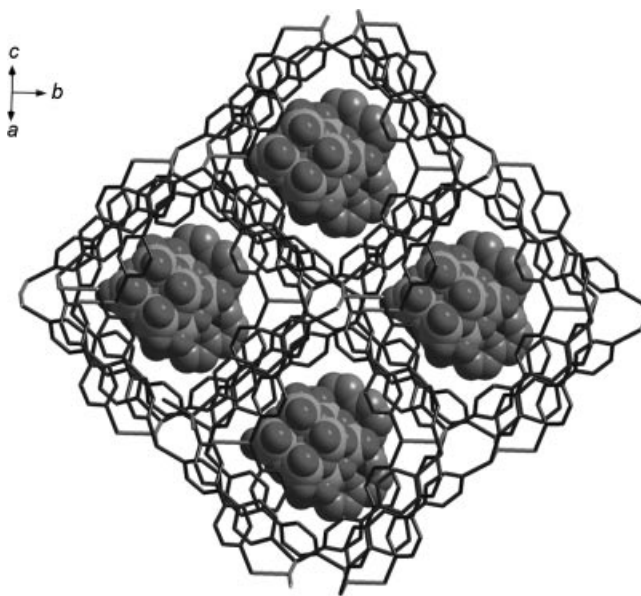


Keywords: Uranium / Thermodynamics / Carboxylate ligands / EXAFS spectroscopy / Temperature effect

- 4541 H. Jin, Y. F. Qi, E. B. Wang,* Y. G. Li,
C. Qin, X. L. Wang, S. Chang



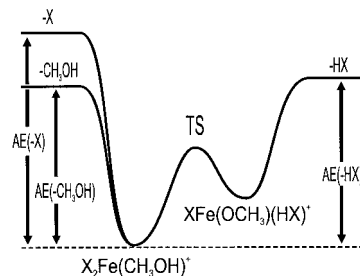
A Novel Copper(I) Halide Framework Templated by Organic–Inorganic Hybrid Polyoxometalate Chains Formed In Situ: A New Route for the Design and Synthesis of Porous Frameworks



Keywords: Coordination polymers / Organic–inorganic hybrid composites / Polyoxometalates / Template synthesis

- 4546 P. Gruene, C. Trage, D. Schröder,*
H. Schwarz

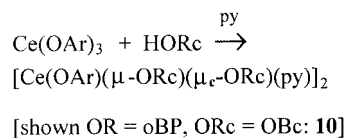
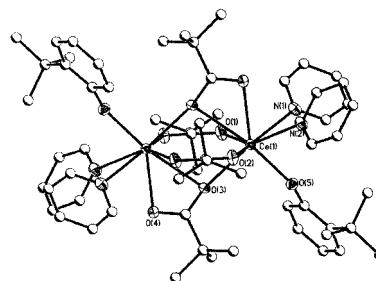
Solvent and Ligand Effects on the Structures of Iron Halide Cations in the Gas Phase



Keywords: Hydrogen transfer / Iron halides / Ligand effects / Mass spectrometry / Solvent effects

- 4553 T. J. Boyle,* L. J. Tribby, S. D. Bunge

Synthesis and Structural Characterization of a Series of Carboxylic Acid Modified Cerium(III) Alkoxides

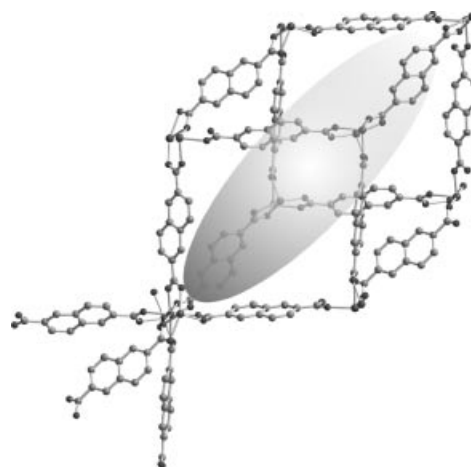


Keywords: Metal alkoxides / Cerium alkoxides / Carboxylate ligands / Chelates

4564 I. Senkovska, S. Kaskel*

Solvent-Induced Pore-Size Adjustment in the Metal-Organic Framework $[\text{Mg}_3(\text{ndc})_3(\text{dmf})_4]$ (ndc = naphthalene dicarboxylate)

Keywords: Metal-organic frameworks / Magnesium / Carboxylate ligands / Adsorption

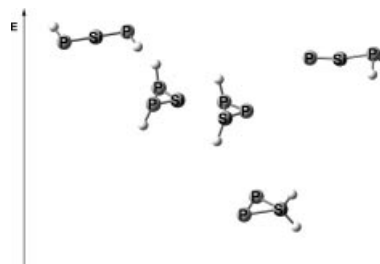


4570 R. Pietschnig,* A. Orthaber



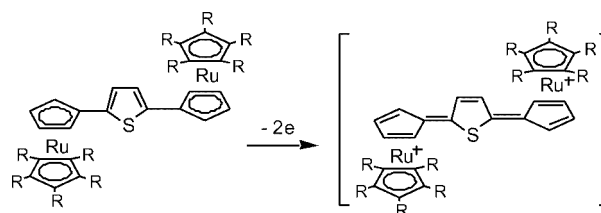
The Relative Stabilities of 1,3-Diphospha-2-sila-allene and Some of Its Isomers

Keywords: Multiple bonds / Silicon / Phosphorus / Allenes / Ab initio calculations



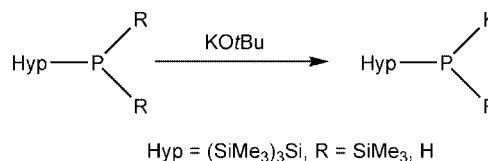
4577 M. Sato,* Y. Kubota, A. Tanemura,
G. Maruyama, T. Fujihara, J. Nakayama,
T. Takayanagi, K. Takahashi, K. Unoura

Synthesis and Some Properties of Bis(ruthenocenyl)thiophene Derivatives – Possible Spin-Coupling in the Two-Electron Oxidized Species of Dinuclear Ruthenocenes Bridged by Thiophene Derivatives



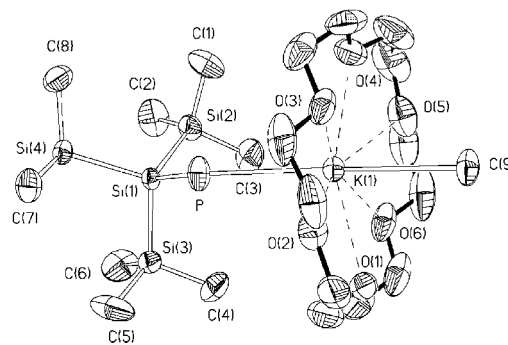
Keywords: Metallocenes / Redox chemistry / Cations / Sulfur heterocycles / Oxidation / Metal–metal interactions

4589 V. Cappello, J. Baumgartner, A. Dransfeld, K. Hassler*

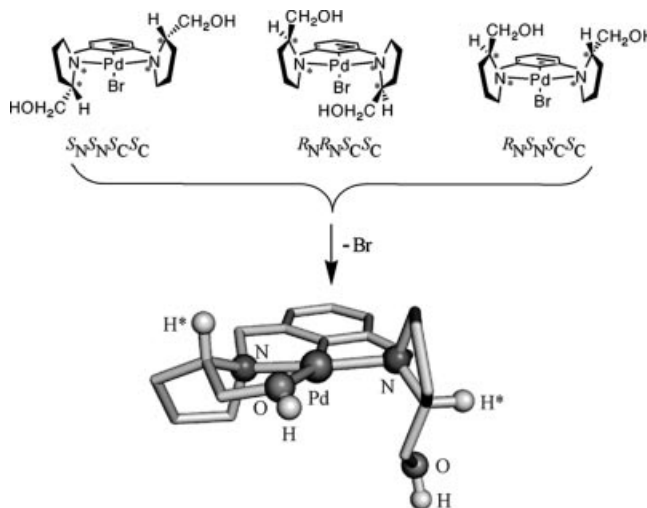


Monophosphanes and Diphosphanes with the Hypersilyl Substituent

Keywords: Hypersilylphosphanes / Potassium phosphanides / Ab initio calculations / P-Silylhalophosphanes / Silicon



4600 S. Gosiewska, S. Herreras Martinez, M. Lutz, A. L. Spek, G. van Koten, R. J. M. Klein Gebbink*



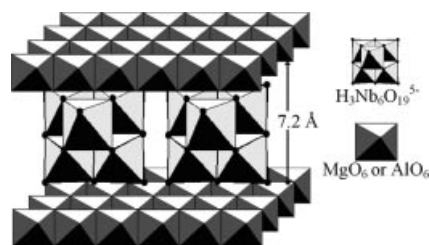
Diastereopure Cationic NCN-Pincer Palladium Complexes with Square Planar η^4 -N,C,N,O Coordination

Keywords: Palladium / NCN-pincer / Amino acids / Ligand design / Hydrogen bonds

4608 D. Carriazo, C. Martín, V. Rives*

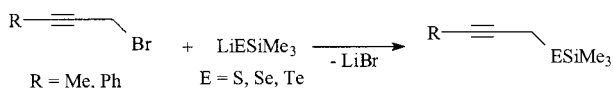
Thermal Evolution of a MgAl Hydrotalcite-Like Material Intercalated with Hexaniobate

Keywords: Layered double hydroxides / Polyoxometalates / Nb-Mg-Al mesoporous oxides / Intercalations



4616 D. Taher, A. I. Wallbank, E. A. Turner, H. L. Cuthbert, J. F. Corrigan*

Alk-2-ynyl Trimethylsilyl Chalcogenoethers by Nucleophilic Substitution of Propargyl Bromides

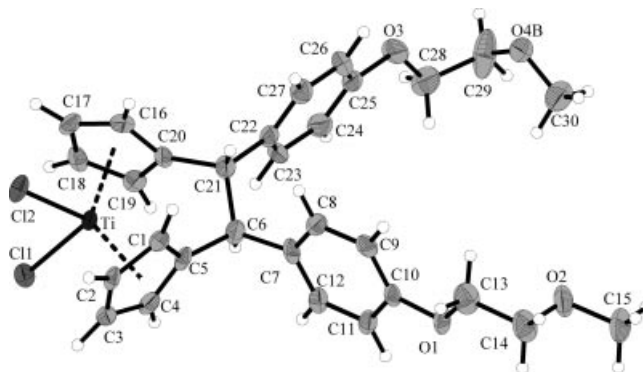


Keywords: Chalcogens / Silicon / Propargyl complexes

4621 K. Strohfeldt, H. Müller-Bunz,
C. Pampillón, N. J. Sweeney, M. Tacke*

Glycol Methyl Ether and Glycol Amine Substituted Titanocenes as Antitumor Agents

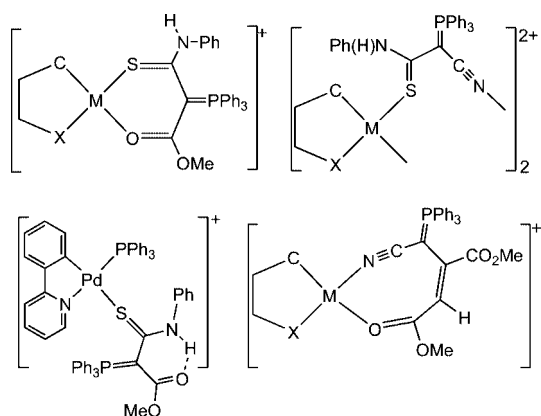
Keywords: Anticancer drugs / *cis*-Platin / Titanocene / Super hydride / Lithiation / Titanium



4629 M. Carbó, N. Marín, R. Navarro, T. Soler,
E. P. Urriolabeitia*

Synthesis and Structure of Pd and Pt Complexes with Doubly Stabilized Phosphorus Ylides

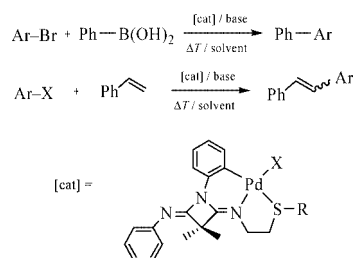
Keywords: Ylides / Metallacycles / Palladium / Platinum / Coordination modes



4642 M.-T. Chen, C.-A. Huang, C.-T. Chen*

Synthesis, Characterization, and Catalytic Applications of Palladacyclic Complexes Bearing C,N,S-Donor Ligands

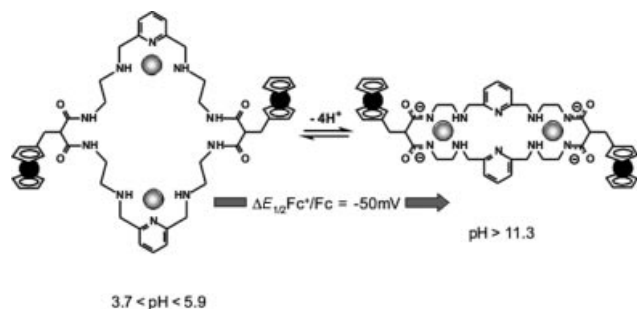
Keywords: Palladacyclic complexes / Pendant thioether / Suzuki reaction / Heck reaction / Palladium



4649 P. Pallavicini,* G. Dacarro,* C. Mangano,
S. Patroni, A. Taglietti, R. Zanoni

pH-Driven Cu²⁺ Translocation in Ferrocene-Containing Ligands

Keywords: Molecular devices / Macrocyclic ligands / Copper / Ferrocene / N ligands

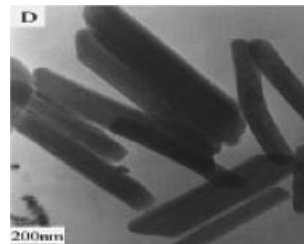


4658 L. Yang, Y. Shen,* A. Xie, J. Liang, S. Li, Q. Zhang



Size- and Shape-Controlled Synthesis and Assembly of a Silver Nanocomplex in UV-Irradiated TSA Solution

Keywords: Nanostructures / Silver / Photochemistry / Self-assembly

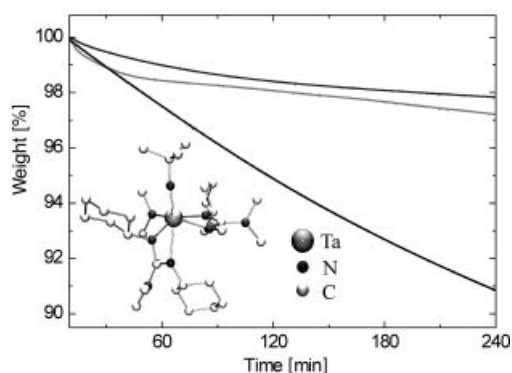


4665 A. Baunemann, M. Winter, K. Csapek, C. Gemel, R. A. Fischer*



Mixed Amido/Imido/Guanidinato Complexes of Tantalum: Effects of Ligand Substitution on Thermal Properties

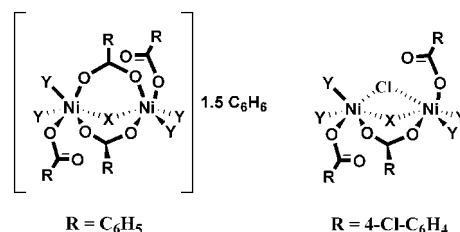
Keywords: X-ray diffraction / Chelates / N ligands / Tantalum / Nitrides



4673 A. Karmakar, R. J. Sarma, J. B. Baruah*

Mechanochemical Control of Synthesis and Structures of Aqua-Bridged Binuclear Nickel(II) Benzoate Complexes

Keywords: Nickel / Aqua-bridged complexes / Solvation / Hydrogen bonds

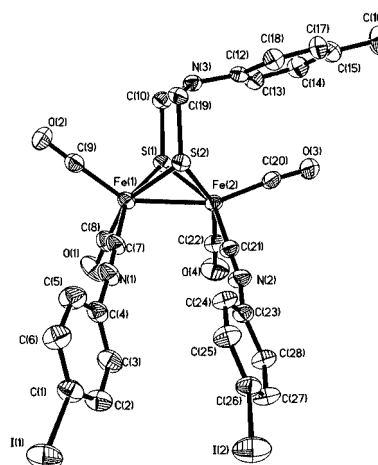


4679 J. Hou, X.-J. Peng,* J.-F. Liu, Y.-L. Gao, X. Zhao, S. Gao, K.-L. Han



A Binuclear Isocyanide Azadithiolatoiron Complex Relevant to the Active Site of Fe-Only Hydrogenases: Synthesis, Structure and Electrochemical Properties

Keywords: Bioinorganic chemistry / Density functional calculations / Hydrogenases / Iron / Isocyanide ligands

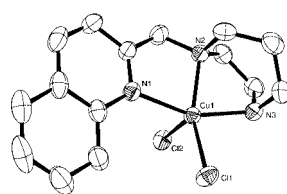


4687

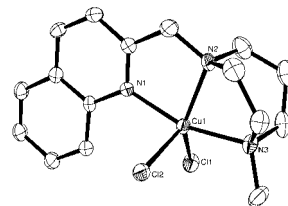
T. Dhanalakshmi, E. Suresh,
H. Stoeckli-Evans, M. Palaniandavar*

New Copper(II) Complexes as Efficient Catalysts for Olefin Aziridination: The Effect of Ligand Steric Hindrance on Reactivity

Keywords: Aziridination / Copper / N ligands / Tridentate ligands / Steric hindrance



$\tau = 0.08$



$\tau = 0.48$

CORRECTION

4697

S. Lachaize, S. Sabo-Etienne*

σ -Silane Ruthenium Complexes: The Crucial Role of Secondary Interactions

Keywords: σ -Complexes / Ruthenium / Silanes / Hydrides / Coordination modes / Intramolecular interactions / Oxidative addition / Hypervalent compounds

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