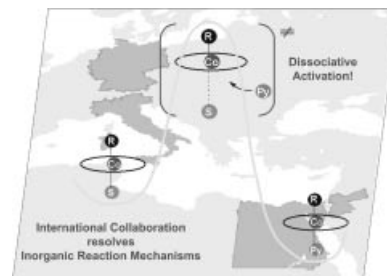


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COVER PICTURE

The cover picture shows the dissociative character of the displacement of a coordinated solvent molecule *trans* to the alkyl group in cobalt(III) complexes. Details are discussed in the article by R. van Eldik et al. on p. 653 ff. The work has benefited greatly from an international collaboration.



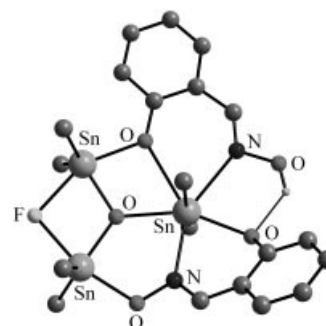
MICROREVIEW

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445 M. Gielen,* M. Biesemans, R. Willem,
 E. R. T. Tiekink

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Keywords: Cluster compounds / NMR spectroscopy /
 Substitution reactions / Tin / X-ray diffraction

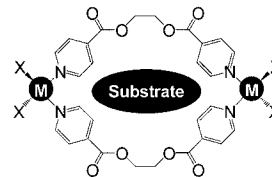


SHORT COMMUNICATIONS

- 453** P. Grosshans, A. Jouaiti, V. Bulach,
J.-M. Planeix, M. W. Hosseini,*
N. Kyritsakas

Design and Structural Analysis of Metallamacrocycles Based on a Combination of Ethylene Glycol Bearing Pyridine Units with Zinc, Cobalt and Mercury

Keywords: Glycol / Pyridine / Zinc / Cobalt / Mercury / Metallamacrocycle

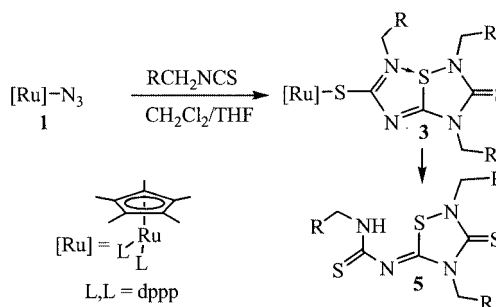


- 459** S.-C. Hsu, Y.-C. Lin,* S.-L. Huang,
Y.-H. Liu, Y. Wang, H. Liu



Novel Thiotetraazapentalene Complexes from the Reaction of Ruthenium Azide Complex with Alkyl Isothiocyanates

Keywords: Ruthenium / Azides / Isothiocyanates / Thiotetraazapentalene

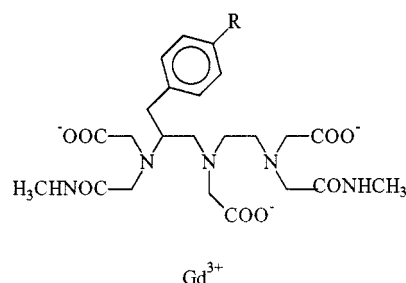


FULL PAPERS

- 463** S. Laurent, F. Botteman, L. Vander Elst,
R. N. Muller*

New Bifunctional Contrast Agents: Bis-Amide Derivatives of C-Substituted Gd-DTPA

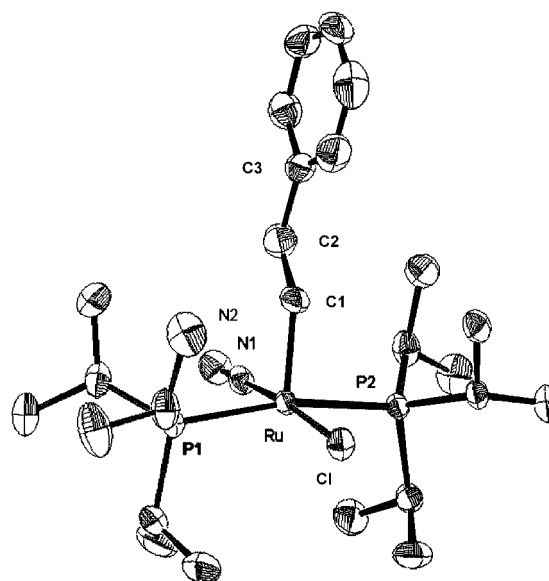
Keywords: Gadolinium / Zinc / Metallation / Amides



- 469** S. Jung, K. Ilg, C. D. Brandt, J. Wolf,
H. Werner*

A Series of Vinylidene-, Vinyl-, Carbene- and Carbyneruthenium(II) Complexes with [Ru(PCy₃)₂] and [Ru(PiPr₃)₂] as Molecular Building Blocks

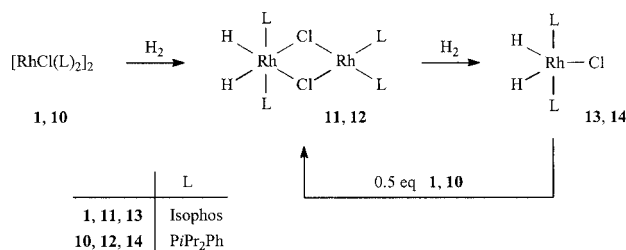
Keywords: Carbene complexes / Carbyne complexes / Ruthenium / Vinyl complexes / Vinylidene complexes



481 P. Krüger, H. Werner*

Mono- and Dinuclear Rhodium and Iridium Complexes with Chiral Phospholanes as Ligands

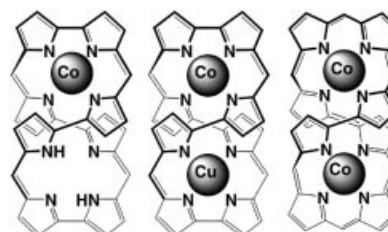
Keywords: Allyl ligands / Carbonyl ligands / Hydrido complexes / Phospholanes / Rhodium



492 J. Bley-Eschrich, J.-P. Gisselbrecht,*
M. Michels, L. Zander, E. Vogel,
M. Gross*

Electrochemical and Spectroelectrochemical Investigations of Mono- and Binuclear Cobalt(II) Complexes of "Figure-Eight" Octapyrrolic Macrocycles

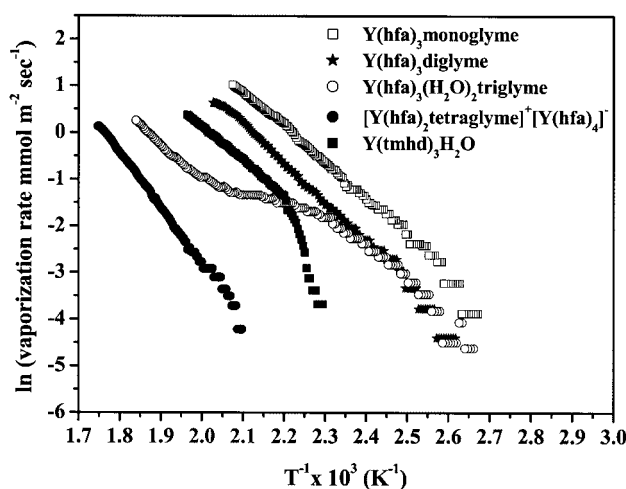
Keywords: Macrocyclic ligands / Cobalt / Cluster complexes / Electrochemistry



500 G. Malandrino, R. Lo Nigro,
I. L. Fragalà,* C. Benelli

Yttrium β-Diketonate Glyme MOCVD Precursors: Effects of the Polyether Length on Stabilities, Mass Transport Properties and Coordination Spheres

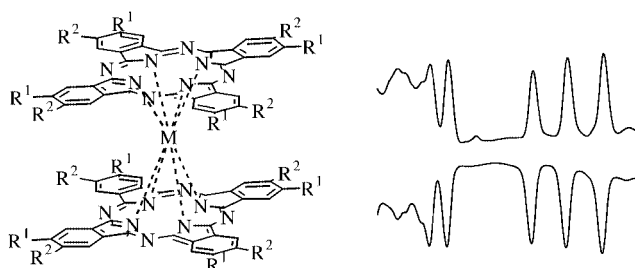
Keywords: Yttrium / Thermogravimetry / Superconductors



510 P. Zhu, F. Lu, N. Pan, D. P. Arnold,*
S. Zhang, J. Jiang*

Comparative Electrochemical Study of Unsubstituted and Substituted Bis(phthalocyaninato) Rare Earth(III) Complexes

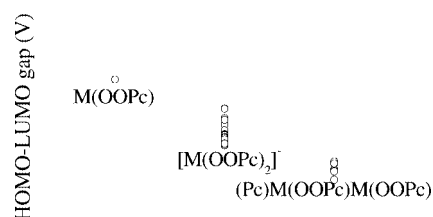
Keywords: Phthalocyanines / Sandwich complexes / Rare earths / Electrochemistry



518 P. Zhu, N. Pan, C. Ma, X. Sun,
D. P. Arnold,* J. Jiang*

Electrochemistry of Heteroleptic Tris(phthalocyaninato) Rare Earth(III) Complexes

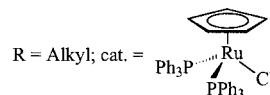
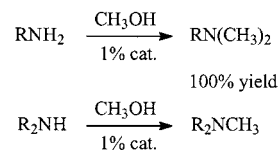
Keywords: Phthalocyanines / Sandwich complexes / Rare earths / Electrochemistry



524 A. Del Zotto,* W. Baratta, M. Sandri,
G. Verardo, P. Rigo

Cyclopentadienyl Ru^{II} Complexes as Highly Efficient Catalysts for the *N*-Methylation of Alkylamines by Methanol

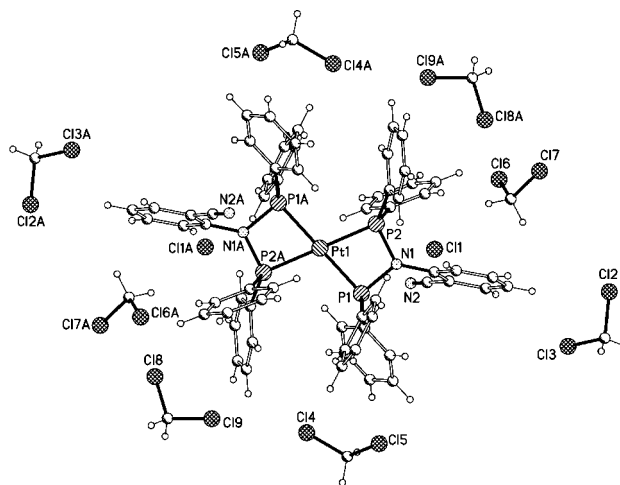
Keywords: Homogeneous catalysis / Ruthenium / Amines / *N*-methylation / Imines



530 Z. Fei, R. Scopelliti, P. J. Dyson*

On the Reactivity of the Iminodiphosphane C₆H₄(*o*-CN)N=PPh₂–PPh₂: Fragmentation Versus Isomerisation

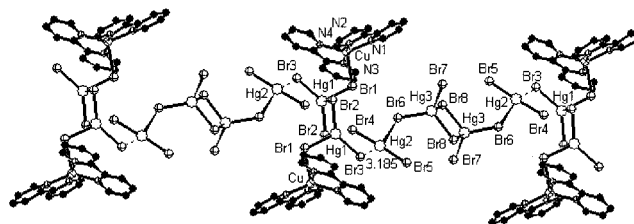
Keywords: N,P ligands / Palladium / Platinum / Reaction mechanisms / Structure elucidation



538 J.-L. Song, J.-G. Mao,* H.-Y. Zeng,
Z.-C. Dong

Syntheses, Crystal Structures and Magnetic Properties of Four Cu^{II}–Hg^{II} Mixed-Metal Halide Oligomers

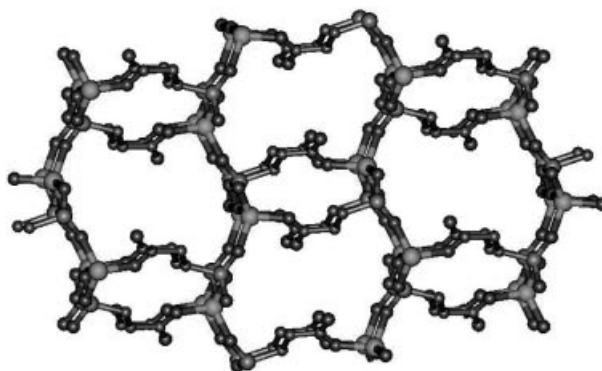
Keywords: Copper / Mercury / Magnetic properties / Cluster compounds



544 X.-M. Zhang*

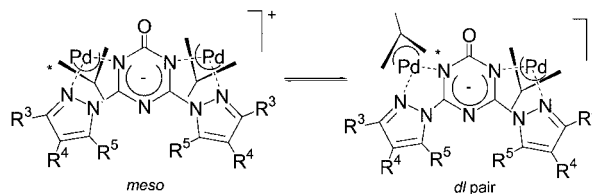
A Microporous Zinc Phosphonocarboxylate with a Zeolite ABW Framework via the Trialkyl Phosphonocarboxylate Route: In situ Synthesis and Characterization of Na[Zn(O₃PC₂H₄CO₂)]·H₂O

Keywords: Microporous materials / Organic-inorganic hybrid / Zeolites / Zinc



- 549 A. Guerrero, F. A. Jalón, B. R. Manzano,*
A. Rodríguez, R. M. Claramunt,*
P. Cornago, V. Milata, J. Elguero

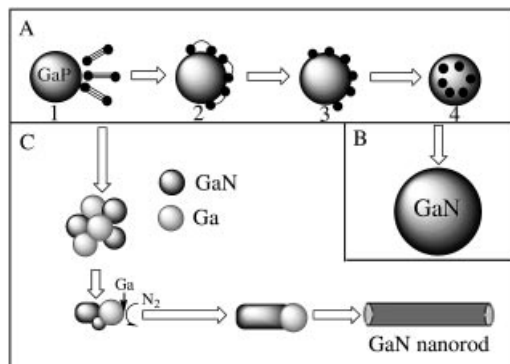
Apparent Allyl Rotation in New Allylpalladium(II) Complexes with Pyrazolyl *N*-Donor Ligands



Keywords: Fluxionality / N ligands / Allyl ligands / Palladium

- 557 S. Gao, L. Zhu, Y. Xie,* X. Qian

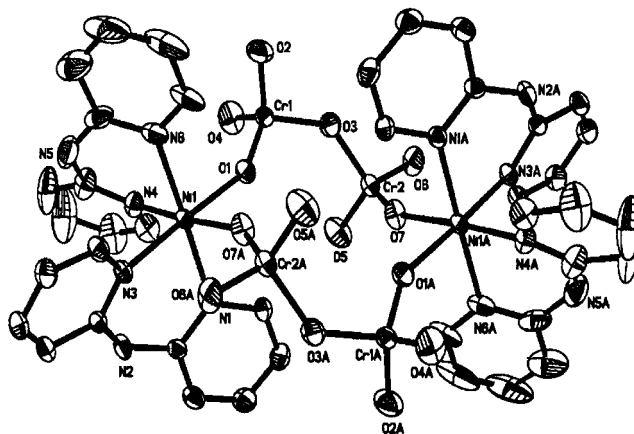
Formation of Cubic GaN Nanocrystals: A Study of the Thermal Stability of GaP Nanocrystals under Nitrogen



Keywords: Gallium / Phosphorus / Nitrides / Nanostructures / Thermochemistry

- 562 X.-Y. Chen, B. Zhao, P. Cheng,* B. Ding,
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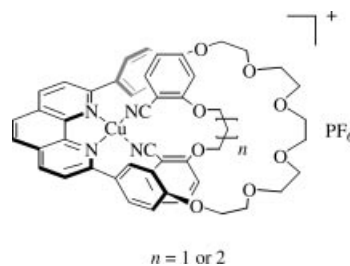
Multi-Dimensional Systems Built from Dichromate Anions – Syntheses, Crystal Structures, and Magnetic Properties



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E. G. Sakellariou, J.-P. Collin,*
C. O. Dietrich-Buchecker, J.-P. Sauvage*

Copper(I)-Assembled Pseudorotaxanes Bearing Bis(nitrile) Ligands: Selective Formation of Large Chelate Rings

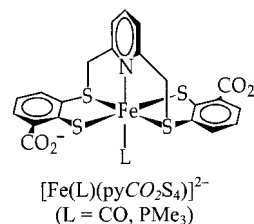


Keywords: Copper / N ligands / Macrocycles / Chelates

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D. Sellmann, K. P. Peters,* F. W. Heinemann

New Pentadentate Carboxylate-Derivatized Sulfur Ligands Affording Water Soluble Iron Complexes with $[\text{Fe}(\text{NS}_4)]$ Cores that Bind Small Molecules (CO , NO , PMe_3) as Co-Ligands

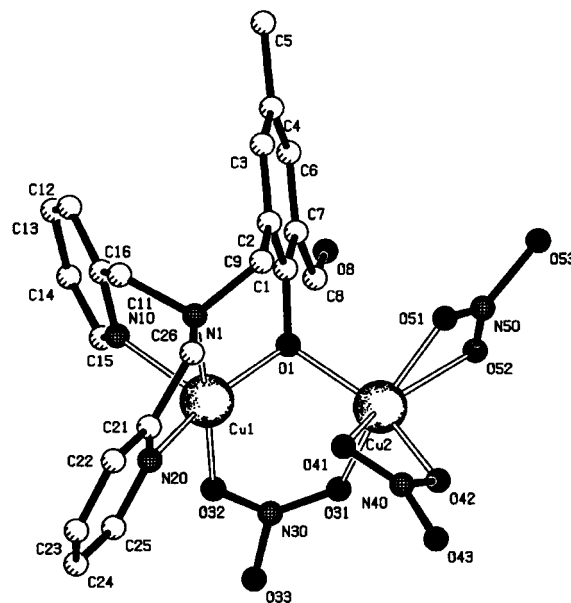


Keywords: Iron / Nickel / S ligands / P ligands / Water solubility

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I. A. Koval, M. Huisman, A. F. Stassen,
P. Gamez, M. Lutz, A. L. Spek, J. Reedijk*

Unusual Cu^{II} and Mn^{II} Complexes of Phenol-Based Ligands Containing Amine, Pyridine and Formyl Functions: Unexpected Structural Features and Solution Studies

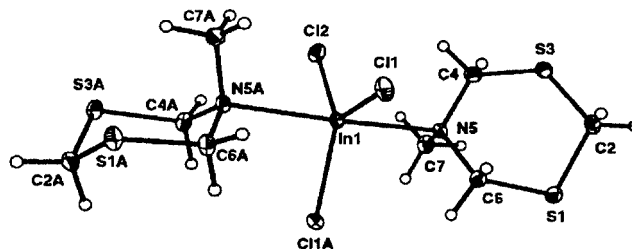


Keywords: Copper / Manganese / Magnetic properties / EPR spectroscopy / Cyclic voltammetry

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J. C. Gázquez-Ruiz, C. Guadarrama-Pérez,
H. Nöth, A. Flores-Parra*

Group 13 Complexes of 5-Methyl-1,3,5-dithiazinane



Keywords: Aluminum / Halides / Indium / Conformational analysis

- 612 X. Sala, A. Poater, I. Romero,
M. Rodríguez, A. Llobet,* X. Solans,
T. Parella, T. M. Santos



Synthesis, Structure, and Redox Properties of a New Aqua Ruthenium Complex Containing the Tridentate [9]aneS₃ and the Didentate 1,10-Phenanthroline Ligands

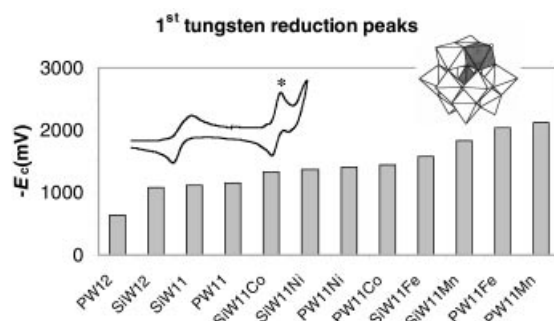


Keywords: Crown compounds / Catalysis / Oxidations / Redox chemistry / Ruthenium

- 619 M. S. Balula, J. A. Gamelas,
H. M. Carapuça, A. M. V. Cavaleiro,*
W. Schlindwein

Electrochemical Behaviour of First Row Transition Metal Substituted Polyoxotungstates: A Comparative Study in Acetonitrile

Keywords: Polyoxometalates / Sandwich complexes / Transition metals / Electrochemistry

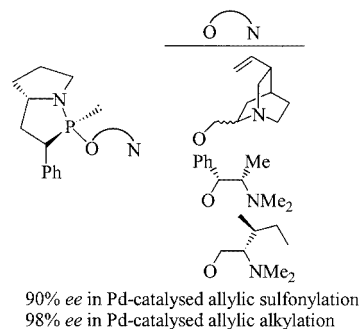


- 629 K. N. Gavrilov,* V. N. Tsarev,
A. A. Shiryaev, O. G. Bondarev,
S. E. Lyubimov, E. B. Benetsky,
A. A. Korlyukov, M. Y. Antipin,
V. A. Davankov, H.-J. Gais



P,N-Bidentate Amino Phosphoramidites: New Highly Effective Ligands for Pd-Catalysed Asymmetric Allylic Substitution

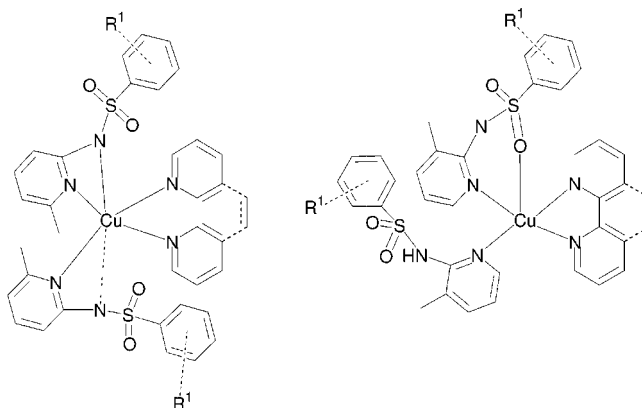
Keywords: Asymmetric catalysis / *P,N*-ligands / Allylation / Palladium / Rhodium



- 635 I. Beloso, J. Borrás, J. Castro,*
J. A. García-Vázquez, P. Pérez-Lourido,
J. Romero, A. Sousa*

Flexidentate Behaviour of 2-Pyridylsulfonamides – Direct Electrochemical Synthesis and Spectroscopic and X-ray Characterisation of Neutral Copper(II) Complexes of *N*-(2-Pyridyl)sulfonamides

Keywords: Copper / S ligands / Electrochemical synthesis / N ligands



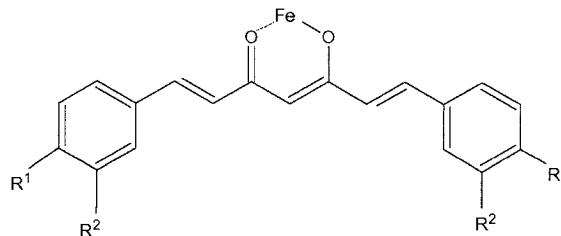
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B. Arezzini, M. Ferrali, E. Ferrari,
R. Grandi, S. Monti, M. Saladini*



Glycosyl-Curcuminoids as Potential New Chelating Agents in Iron Overload Chelation Therapy

Keywords: Chelates / Iron / Gallium / Redox chemistry / Bioinorganic chemistry



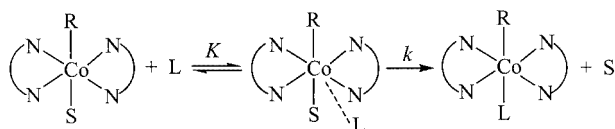
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B. M. Alzoubi, M. S. A. Hamza, A. Felluga,
L. Randaccio, G. Tauzher, R. van Eldik*



Kinetics and Mechanism of Axial Ligand Substitution of Alkyl Cobaloximes by Substituted Pyridines in Different Solvents

Keywords: Cobaloximes / Solvent effects / *trans* effect / Ligand-substitution reactions / Nitrogen heterocycles



$\text{N} \text{---} \text{N}$ = dimethylglyoximate

L = 4-aminopyridine, pyridine and 4-cyanopyridine

R = PhCH₂ and CF₃CH₂, S = MeOH and H₂O