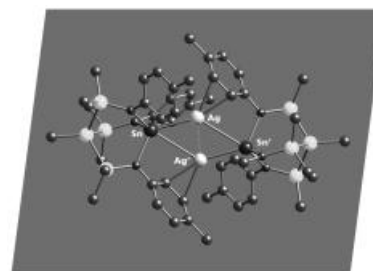


COVER PICTURE

The cover picture shows the molecular structure of the first crystallographically characterized complex containing a silver–tin bond. The stabilization of divalent tin by the tripodal amido ligands allows the coordination of stannates(II) to highly oxidizing metal centres making them versatile “ligands” for a broad range of transition metals. Details are discussed in the Microreview by L. H. Gade on p. 1257 ff. We thank Prof. R. Welter (Strasbourg) for his help in producing the colour picture.



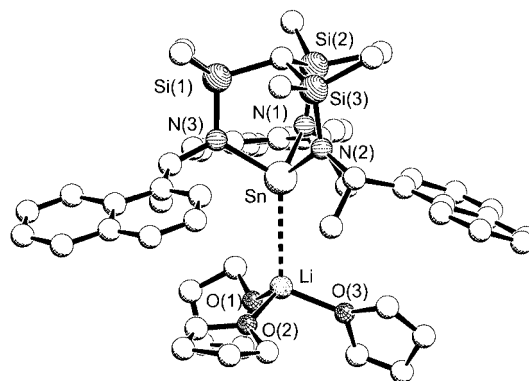
MICROREVIEWS

Contents

1257 L. H. Gade

Tripodal Triamidometallates of the Heavy Group 14 Elements: Inorganic Cages with Remarkable “Ligand Properties”

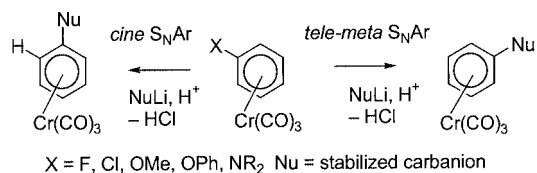
Keywords: Group 14 metals / Molecular cages / N ligands / Triamido metallates



1269 F. Rose-Munch,* E. Rose*

cine and *tele* Nucleophilic Substitutions in (η^6 -Arene)tricarbonylchromium and Tricarbonyl(η^5 -cyclohexadienyl)manganese Complexes

Keywords: Arene ligands / Carbonyl ligands / Chromium / Manganese / Nucleophilic substitution

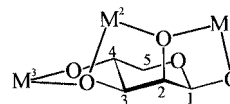


SHORT COMMUNICATIONS

1285 P. Klüfers,* T. Kunte

Copper(II) and Palladium(II) Complexes of the Reducing Sugar Lyxose

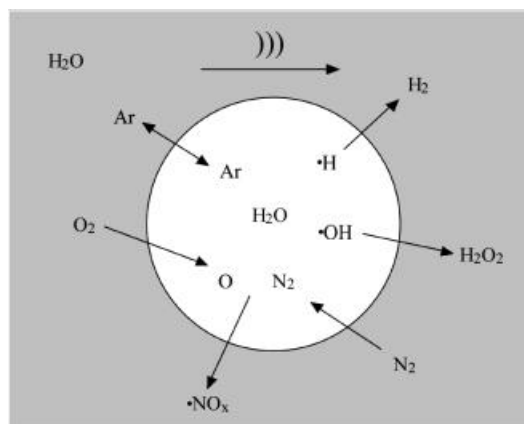
Keywords: Lyxose / Copper / Palladium / Aldose-metal complexes



1290 N. Segebarth,* J. Reisse

Pressure Variations in Closed Sonochemical Reactors

Keywords: Sonochemistry / Pressure / Gas effect / Water chemistry / Radicals

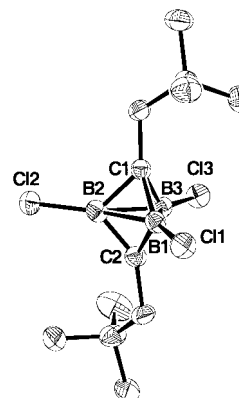


FULL PAPERS

1293 M. J. Bayer, H. Pritzkow, W. Siebert*

1,1,1-Trisborylalkanes as Precursors for Dicar-bapentaboranes(5) – Synthesis, Reactivity, and Structures of *closo*-1,5-Bis(neopentyl)-2,3,4-trichloro-1,5-dicarbapentaborane and Its Derivatives

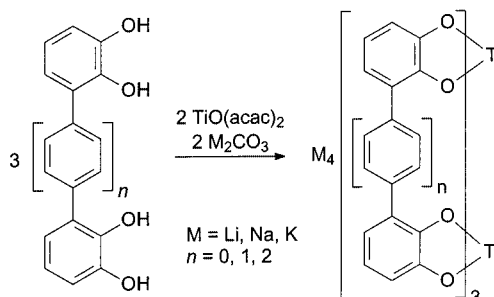
Keywords: Alkynes / Boranes / Boron / Catechol / Hydroboration



1301 M. Albrecht,* M. Schneider

Dinuclear Triple-Stranded Helicates from Rigid Oligo-*p*-phenylene Ligands: Self-Assembly and Ligand Self-Recognition

Keywords: Catechol / Titanium / Self-assembly / Helical structures / Molecular recognition

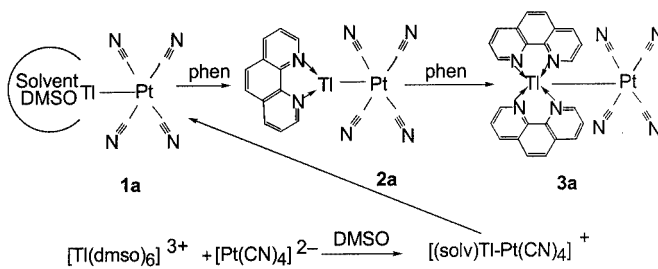


1307 G. Ma,* A. Fischer, J. Glaser*



Synthesis and Structure of Monomeric and Platinum-Bonded (1,10-Phenanthroline)thallium Complexes

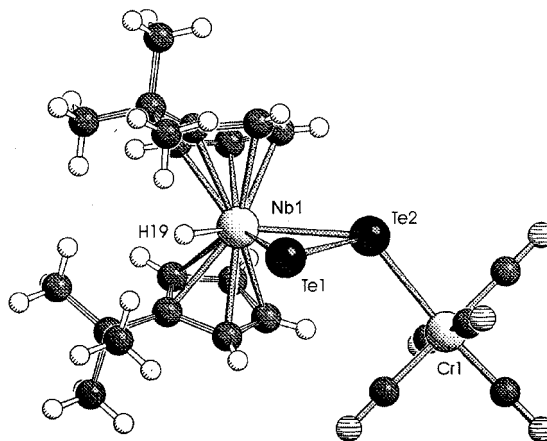
Keywords: Metal–metal interactions / Platinum / Thallium / N ligands / NMR spectroscopy



1315 H. Brunner, H. Cattetey, D. Evrard, M. M. Kubicki, Y. Mugnier, E. Vigier, J. Wachter,* R. Wanninger, M. Zabel

Bis(η-*tert*-butylcyclopentadienyl)hydridoniobium Ditelluride, a Convenient Reagent for the Synthesis of Polynuclear Metal Telluride Complexes

Keywords: Niobium / Tellurium / Polynuclear complexes / Cyclopentadienyl complexes / Electrochemistry

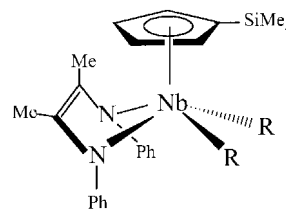


1326 A. Galindo, M. Gómez,* D. del Río, F. Sánchez



Synthesis and Reactivity of Ene-Diamido and Ene-Diolato [(Trimethylsilyl)cyclopentadienyl]niobium(V) Complexes and a Comparative DFT Study of the Bonding Capabilities of Diazabutadiene and Butadiene Ligands

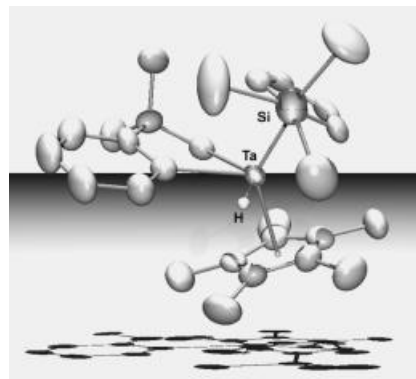
Keywords: Niobium / Alkene ligands / N ligands / Cyclopentadienyl complexes / Density functional calculations



1336 A. Castro, M. V. Galakhov, M. Gómez,*
P. Gómez-Sal, A. Martín

Synthesis of Hydride Tantalabenzocyclopentene and μ -Alkylidene Complexes by Direct Alkylation Reactions of $[\text{TaCp}^*\text{Cp}'\text{Cl}_2]$ – NMR Spectroscopic Study and X-ray Crystal Structure of $[\text{TaCp}^*\text{Cp}'(\text{H})(\eta^2\text{-CH}_2\text{-CMe}_2\text{-}o\text{-C}_6\text{H}_4)]$, ($\text{Cp}^* = \eta^5\text{-C}_5\text{Me}_5$; $\text{Cp}' = \eta^5\text{-C}_5\text{H}_4\text{SiMe}_3$)

Keywords: Tantalum / Cyclopentadienyl complexes / Hydride complexes / Alkylidene complexes

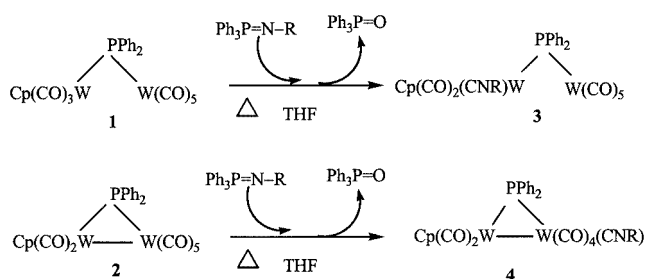


1343 S.-G. Shyu,* R. Singh, C.-J. Su, K.-J. Lin



Regiospecific Reaction between Dimetallic Phosphido-Bridged W–W Complexes and Phosphane Imide – Electrophilic Site Switching by Metal–Metal Bond Formation

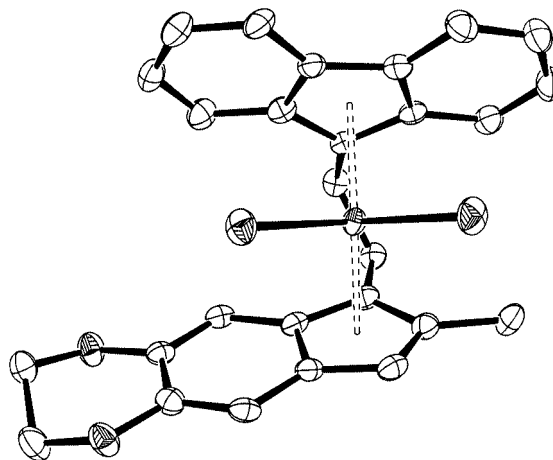
Keywords: Tungsten / P ligands / Bridging ligands / Electrophilic site switching



1349 J. Kukral, P. Lehmus, M. Klinga,
M. Leskelä, B. Rieger*

Oxygen-Containing, Asymmetric “Dual-Side” Zirconocenes: Investigations on a Reversible Chain Transfer to Aluminum

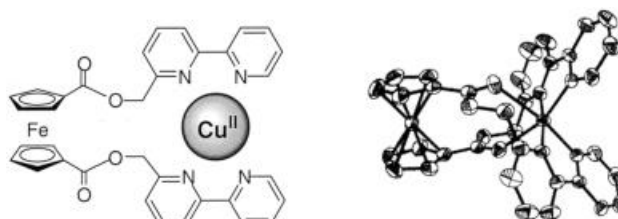
Keywords: Metallocenes / Propene polymerization / O ligands / Cyclopentadienyl ligands / Zirconium catalysts



1357 A. Ion, M. Buda, J.-C. Moutet,*
E. Saint-Aman, G. Royal,
I. Gautier-Luneau, M. Bonin, R. Ziessel

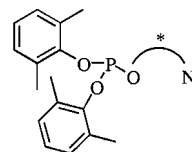
Coordination of Ferrocenyl Ligands Bearing bipy Subunits: Electrochemical, Structural and Spectroscopic Studies

Keywords: N ligands / Sandwich complexes / Iron / Receptors / Cyclic voltammetry



1367

K. N. Gavrilov, O. G. Bondarev,
R. V. Lebedev, A. A. Shiryaev,
S. E. Lyubimov, A. I. Polosukhin,
G. V. Grintselev-Knyazev, K. A. Lyssenko,
S. K. Moiseev, N. S. Ikonnikov,
V. N. Kalinin, V. A. Davankov,
A. V. Korostylev,* H.-J. Gais



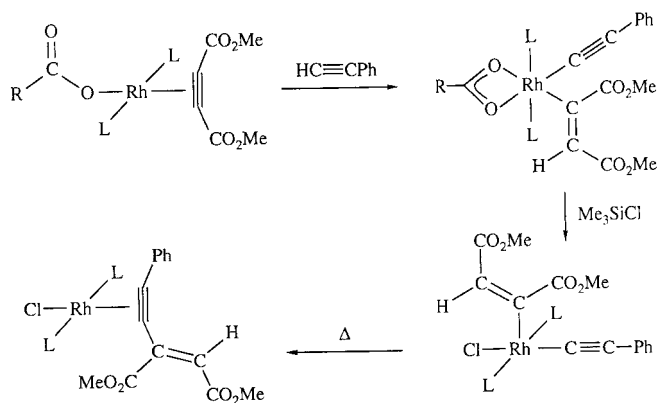
Easily Accessible Chiral *P,N*-Bidentate Aryl Phosphites, Their Complexation and Application in Enantioselective Allylic Alkylation, Sulfonylation and Hydrosilylation

82% e.e. in the Pd-catalyzed allylic alkylation
80% e.e. in the Pd-catalyzed allylic sulfonylation
50% e.e. in the Rh-catalyzed hydrosilylation of acetophenone

Keywords: Aryl phosphites / N,P ligands / Palladium / Allylation / Rhodium / Hydrosilylation

1377

H. Werner,* F. Kukla, P. Steinert



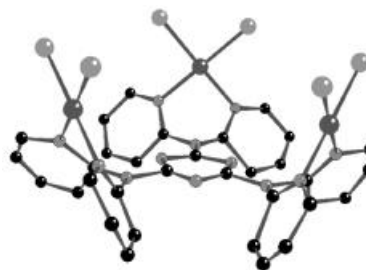
A New Family of Organometallic Rhodium Complexes with $[\text{Rh}(\text{P}i\text{Pr}_2\text{Ph})_2]$ and $[\text{Rh}(\text{P}i\text{PrPh}_2)_2]$ as Molecular Units

Keywords: Allyl ligands / Alkyne ligands / Vinylidene complexes / Rhodium / Phosphanes

1390

C. Seward, J. Pang, S. Wang*

Luminescent Star-Shaped Zinc(II) and Platinum(II) Complexes Based on Star-Shaped 2,2'-Dipyridylamino-Derived Ligands



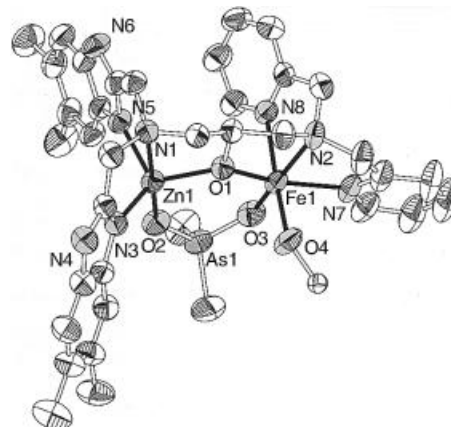
Keywords: Starburst molecules / Zinc / Platinum / N ligands / Luminescence

1400

S. Albedyhl, D. Schnieders, A. Jancsó,
T. Gajda,* B. Krebs*



Heterodinuclear Zinc(II)–Iron(III) Complexes and Dinuclear Zinc Complexes as Models for Zinc-Containing Phosphatases

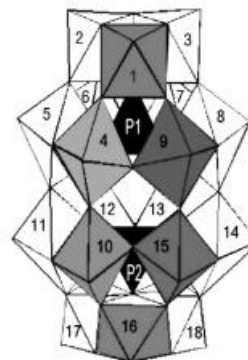


Keywords: Heterometallic complexes / Asymmetric ligands / Phosphates / Dinucleating ligands / Enzyme models

1410 R. Belghiche, R. Contant, Y. Wei Lu,
B. Keita, M. Abbessi, L. Nadjo,*
J. Mahuteau

Synthesis and Characterization of Fe- or Cu-Substituted Molybdenum-Enriched Tungstodiphosphates

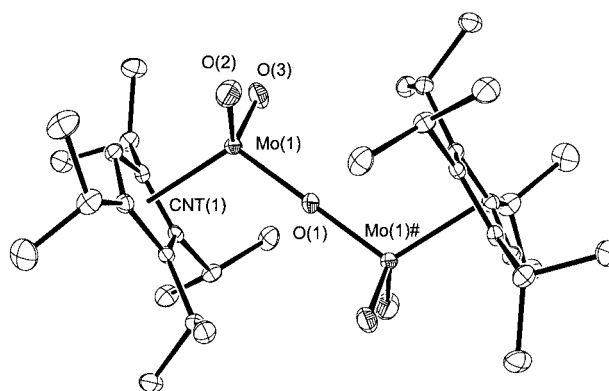
Keywords: Heteropolyanions / Dawson-type structures / Molybdenum / Transition metal cations / Electrocatalysis



1415 D. Saurenz, F. Demirhan, P. Richard,
R. Poli,* H. Sitzmann

Cyclopentadienylmolybdenum(VI) and Molybdenum(V) Oxo Chemistry: New Synthetic and Structural Features

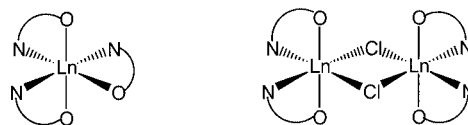
Keywords: Cyclopentadienyl ligands / Molybdenum / Oxo ligands / X-ray crystallography



1425 G. B. Deacon,* C. M. Forsyth, N. M. Scott

Solvent-Free Lanthanoid Complexes Derived From Chelation-Supported Organoamide Ligands

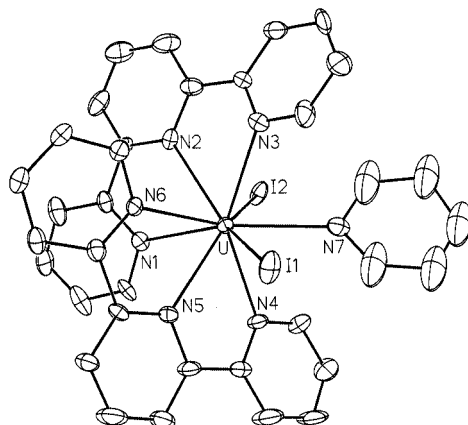
Keywords: N,O ligands / Lanthanides / Halides / Metathesis / Structure elucidation



1439 J.-C. Berthet,* C. Rivière, Y. Miquel,
M. Nierlich, C. Madic, M. Ephritikhine*

Selective Complexation of Uranium(III) over Cerium(III) and Neodymium(III) by 2,2':6',2''-Terpyridine – X-ray Crystallographic Evidence for Uranium-to-Ligand π Back-Bonding

Keywords: Actinides / Uranium / Cerium / Neodymium / Lanthanides / N ligands / Cations

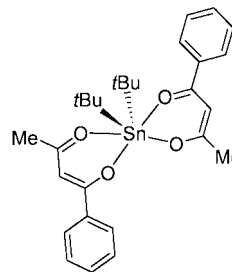


1447

C. Pettinari,* F. Marchetti, R. Pettinari,
A. Gindulyte, L. Massa, M. Rossi,
F. Caruso*



A Novel Configuration of a Benzoylacetonato-Diorganotin Species is Modified by an Electron-Withdrawing Substituent on Tin – Synthesis, IR and NMR Spectroscopy, Structure, and ab initio Studies

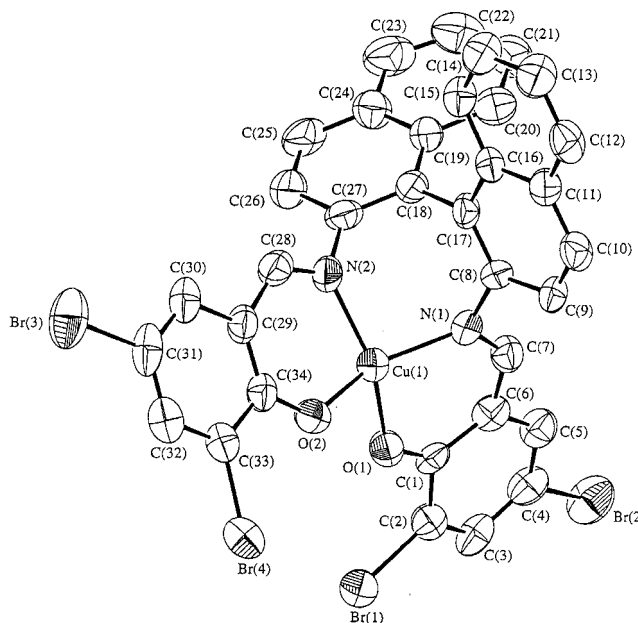


Keywords: Tin / O ligands / NMR spectroscopy / Crystal structure / Ab initio calculations

1456

C.-M. Che,* H.-L. Kwong,* W.-C. Chu,
K.-F. Cheng, W.-S. Lee, H.-S. Yu,
C.-T. Yeung, K.-K. Cheung

Copper Complexes of Chiral Tetradentate Binaphthyl Schiff-Base Ligands: Syntheses, X-ray Crystal Structures and Activity in Catalytic Asymmetric Cyclopropanation of Alkenes



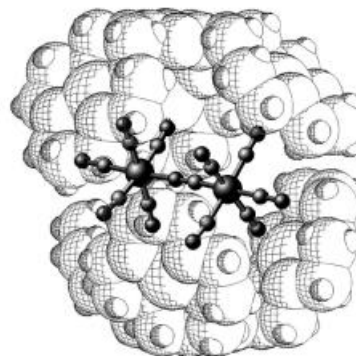
Keywords: Asymmetric catalysis / Copper / Cyclopropanation / Schiff bases / Structure elucidation

1464

P. Comba,* Y. D. Lampeka,*
A. Y. Nazarenko, A. I. Prihod'ko,
H. Pritzkow



Interactions between Copper(II) Complexes of Mono-, Bis-, and Tris(macrocylic) Ligands and Inorganic or Organic Guests

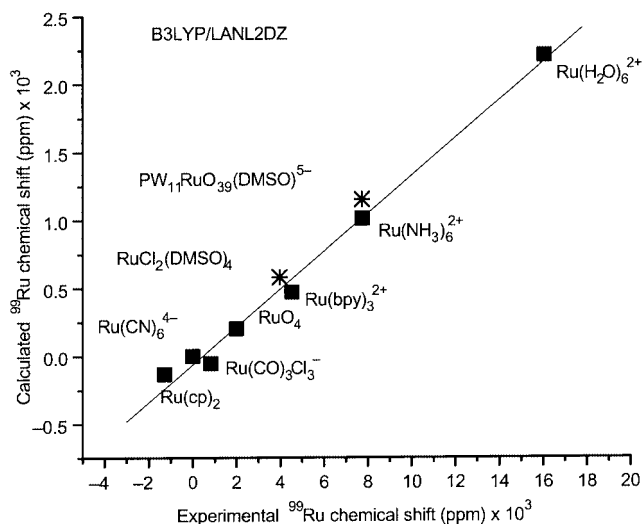


Keywords: Copper / Host-guest complexes / Macrocycles / Molecular recognition Template synthesis

1475 A. Bagno,* M. Bonchio



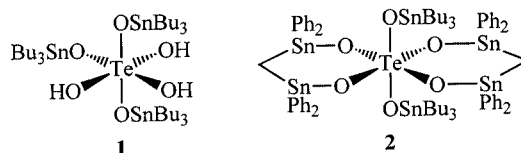
DFT Calculations of ^{99}Ru Chemical Shifts with All-Electron and Effective Core Potential Basis Sets



Keywords: Density functional calculations / Effective core potentials / NMR spectroscopy / Ruthenium

1484 J. Beckmann, D. Dakternieks,*
J. O'Connell, K. Jurkschat, M. Schürmann

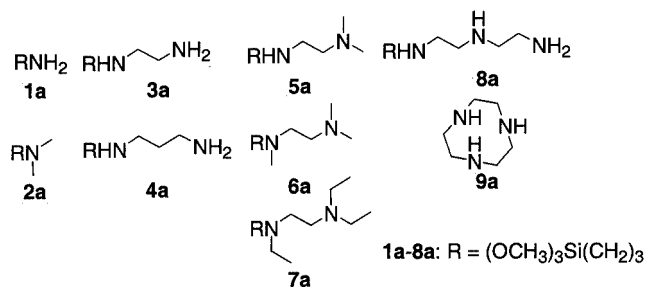
The First Well-Defined Tellurastannoxanes: the X-ray Structure of *trans*- $[(\text{Bu}_3\text{SnO})_2\{\text{CH}_2(\text{Ph}_2\text{SnO})_2\}_2\text{Te}]$



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

1488 J. Kramer, A. Scholten, W. L. Driessen,*
J. Reedijk

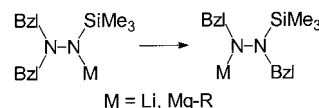
The Recovery of a Rhodium-Containing Catalyst by Various New Silica-Based Amine Ion Exchangers



Keywords: Amine ligands / Complex stability / Ion exchange / Rhodium / Homogeneous catalysis

1495 H. Sachdev,* C. Preis

A New Type of Anionic Rearrangement in Metalated Benzylhydrazines

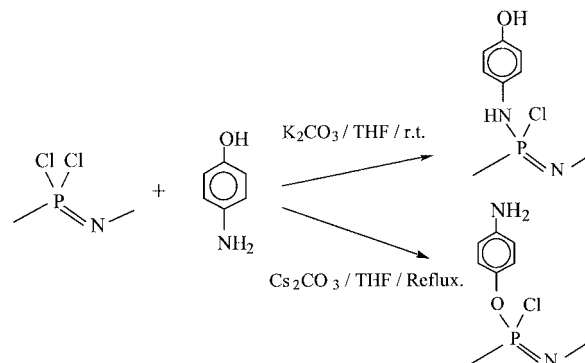


Keywords: Lithium / Magnesium / Hydrazides / Rearrangements / Structural characterisation

1502

G. A. Carriedo,* J. I. Fidalgo Martínez,
F. J. García Alonso, E. Rodicio González,
A. Presa Soto

The Reaction of Poly(chlorophosphazene)s with *p*-Aminophenol – Specific Formation of Aminophosphazenes with Terminal OH Groups and Aryloxyphosphazenes with Terminal NH₂ Groups

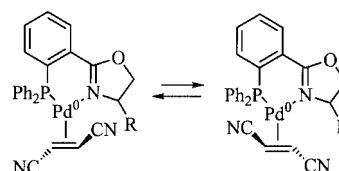


Keywords: Polymers / Inorganic polymers / Polyphosphazenes / *p*-Aminophenol

1511

M. Zehnder,* M. Neuburger, S. Schaffner,
M. Jufer, D. A. Plattner*

Synthesis, X-ray Structures, NMR Studies and Density Functional Calculations of (η^2 -Fumaronitrile)palladium(0) Complexes Containing Dihydro(phosphanylphenyl)oxazole Ligands



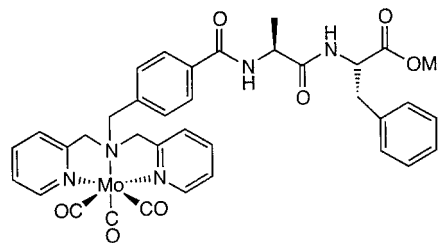
Keywords: Palladium / N,P ligands / Oxazolines / Alkene ligands / Density functional calculations

1518

D. R. van Staveren, E. Bothe,
T. Weyhermüller, N. Metzler-Nolte*



Spectroscopic Properties, Electrochemistry, and Reactivity of Mo⁰, Mo^I, and Mo^{II} Complexes with the [Mo(bpa)(CO)₃] Unit [bpa = bis(2-picolyl)amine] and Their Application for the Labelling of Peptides

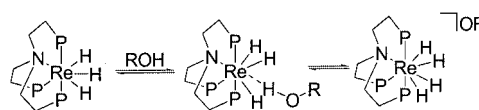


Keywords: Amino acids / Bioinorganic chemistry / Carbonyl ligands / Molybdenum / Spectroelectrochemistry

1530

A. Albinati, V. I. Bakhmutov,*
N. V. Belkova, C. Bianchini,* I. de los Rios,
L. Epstein,* E. I. Gutsul, L. Marvelli,
M. Peruzzini,* R. Rossi,* E. Shubina,
E. V. Vorontsov, F. Zanobini

Synthesis, Characterization, and Interconversion of the Rhenium Polyhydrides [ReH₃(η^4 -NP₃)] and [ReH₄(η^4 -NP₃)]⁺ {NP₃ = tris[2-(diphenylphosphanyl)ethyl]amine}



ROH = C₂H₅OH, CH₂FCH₂OH, CF₃CH₂OH

Keywords: Rhenium / Tripodal ligands / Phosphanes / Hydride ligands

