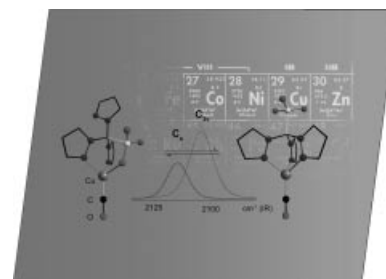


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COVER PICTURE

The cover picture shows two isomers of a carbonylcopper(I) complex of the new ligand tris(pyrazolyl)methanesulfonate (Tpms). This new class of ligands contains three nitrogen donor atoms and in addition a sulfonate group which makes the ligands more hydrophilic. The sulfonate group can act as a competing donor centre. Therefore Tpms ligands are ambidentate ligands, that can adapt their coordination modes according to the electronic preferences of the metal centre. In solution, e.g., carbonylcopper(I) and zinc halide complexes show an equilibrium between the N,N,N- and N,N,O-coordination mode. Synthesis, characterization and the dynamic stereochemistry of Tpms and Tpms^{tBu} complexes are presented in the article by W. Kläui et al. on p. 2059 ff. We thank B. Kugel and P. Kunz for their help with the cover picture.



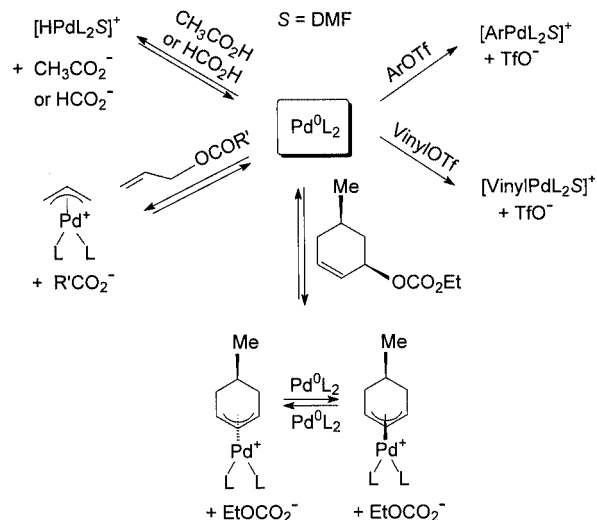
MICROREVIEW

Contents

2017 A. Jutand

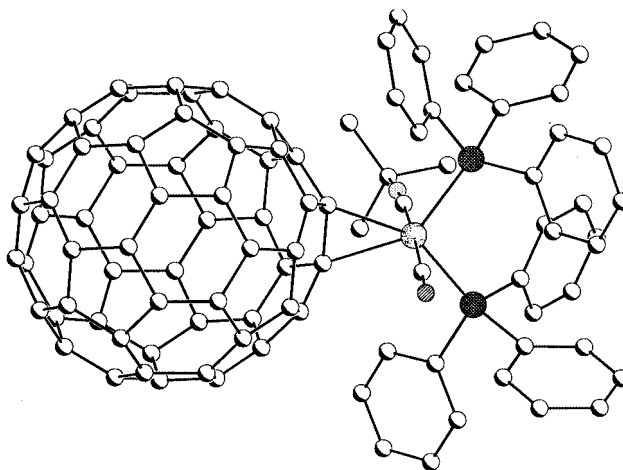
The Use of Conductivity Measurements for the
 Characterization of Cationic Palladium(II) Complexes
 and for the Determination of Kinetic and
 Thermodynamic Data in Palladium-Catalyzed
 Reactions

Keywords: Cationic complex / Conductivity /
 Kinetics / Mechanism / Palladium



2041 A. V. Usatov,* E. V. Martynova,
I. S. Neretin, Yu. L. Slovokhotov,
A. S. Peregudov, Yu. N. Novikov

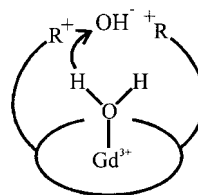
The First Mononuclear $\eta^2\text{-C}_{60}$ Complex of Osmium: Synthesis and X-ray Crystal Structure of $[(\eta^2\text{-C}_{60})\text{Os}(\text{CO})(t\text{BuNC})(\text{PPh}_3)_2]$



Keywords: Fullerenes / Olefins / Osmium / Pi interactions

2045 S. Aime,* E. Gianolio, A. Barge,
D. Kostakis, I. C. Plakatouras,
N. Hadjiliadis

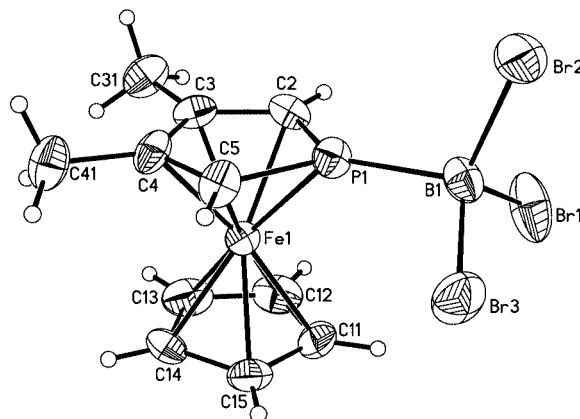
Modulation of the Prototropic Exchange Rate at the Water Molecule Coordinated to a Gd^{III} Ion



Keywords: Gadolinium / Chelates / Basicity / Neighbouring-group effects / Prototropic exchange / Imaging agents

2049 M. Scheibitz, J. W. Bats, M. Bolte,
M. Wagner*

P–B Adducts of 3,4-Dimethyl-1-phosphaferrocene with Bromoboranes

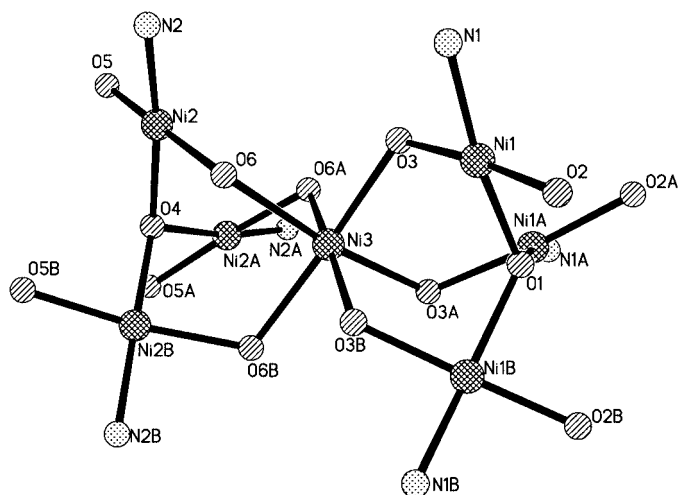


Keywords: Boranes / Donor-acceptor systems / Metallocenes / P ligands / X-ray diffraction

2054 X. Xu, S. Gou,* W. Huang, Y. Ma,
Y. Li

Assembly of Seven Nickel(II) Metals by Chiral,
Salen-Type Ligands with μ_3 -OH Bridges

Keywords: Nickel / Chirality / Bridging ligands

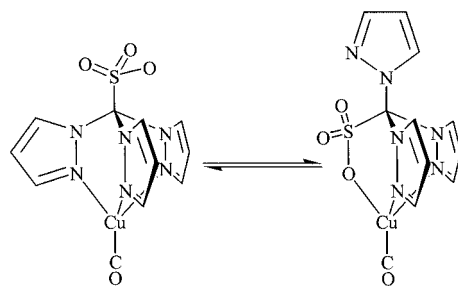


FULL PAPERS

2059 W. Kläui,* M. Berghahn, W. Frank,
G. J. Reiß, T. Schönherr, G. Rheinwald,
H. Lang

Tris(pyrazolyl)methanesulfonates: More Than
Just Analogues of Tris(pyrazolyl)borate Ligands;
N,N,N-, N,N,O-, and Other Coordination
Modes

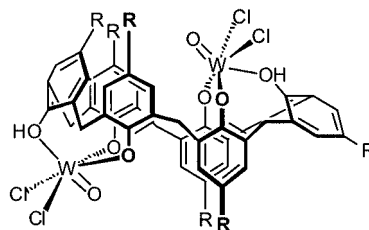
Keywords: Enzyme models / N,O ligands / Transition
metals / Tripodal ligands



2071 C. Redshaw,* M. R. J. Elsegood

Tungsten(VI) Complexes Derived from Calix[6]-
and -[8]arenes: Oxo and Oxychloride Species

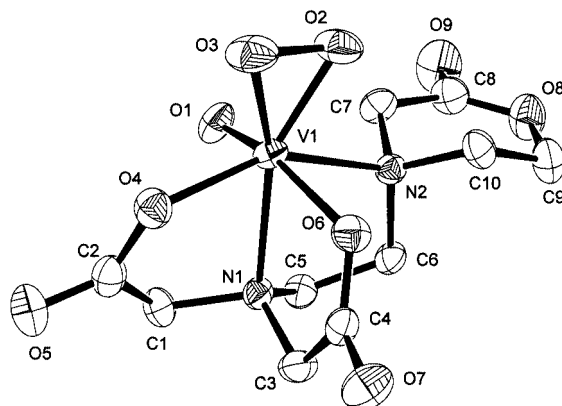
Keywords: Tungsten / Calixarenes / Oxo ligands



2075 M. Sivák,* M. Mad'arová, J. Tatiersky,
J. Marek

First (Peroxo)vanadium(V) Complex with Hetero-
ligand Formed in Reaction System – Synthesis,
Structure and Reactivity of $K[VO(O_2)-$
(*omeida*)] $\cdot H_2O$ {*omeida* = *N*-[2-(2-oxomorpho-
line-4-yl)ethyl]iminodiacetato(2-)}
}

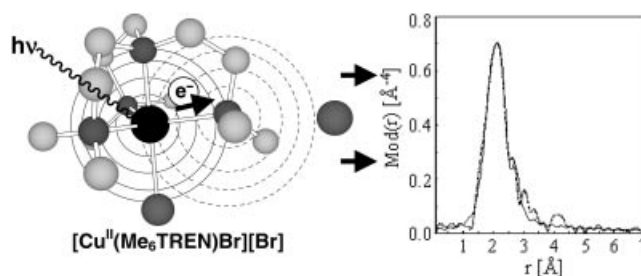
Keywords: Vanadium / Peroxo ligands / δ -Lactones /
 ^{51}V NMR spectroscopy / *N*-acetyl-L-
cysteine



2082 T. Pintauer, U. Reinöhl, M. Feth,
H. Bertagnolli, K. Matyjaszewski*

Extended X-ray Absorption Fine Structure
Study of Copper(I) and Copper(II) Complexes in
Atom Transfer Radical Polymerization

Keywords: EXAFS spectroscopy / Copper / Radical
reactions / Polymerizations

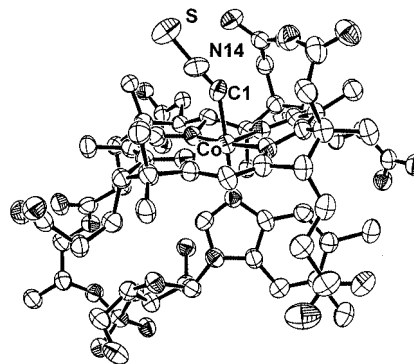


2095 C. B. Perry, M. A. Fernandes, K. L. Brown,
X. Zou, E. J. Valente, H. M. Marques*



Probing the Nature of the Co^{III} Ion in Cobal-
amins – Spectroscopic and Structural Investi-
gations of the Reactions of Aquacobalamin
(Vitamin B_{12a}) with Ambident Nucleophiles

Keywords: Cobalamins / Ambidentate ligands /
Cobalt / Bioinorganic chemistry / X-ray
diffraction

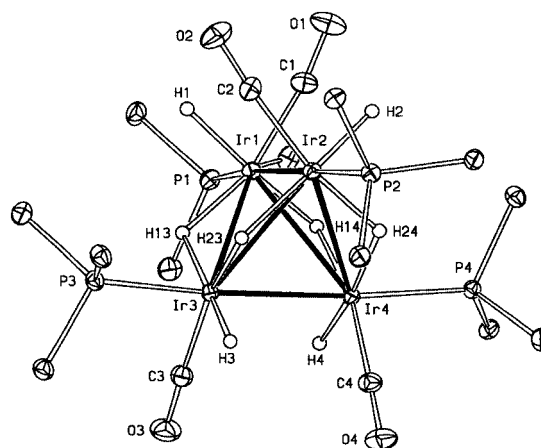


2108 L. Garlaschelli,* F. Greco, G. Peli,
M. Manassero,* M. Sansoni, R. Gobetto,*
L. Salassa, R. Della Pergola



Synthesis, Solid-State Structure and Multi-
nuclear NMR Studies of the New Polyhydrido
Iridium Carbonyl Cluster Ir₄H₄(μ-H)₄(CO)₄-
(PPh₃)₄

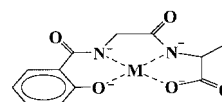
Keywords: Cluster compounds / Iridium / Hydride
ligands / NMR spectroscopy / P ligands



2113 T. Jakusch, A. Dörnyei, I. Correia,
L. Rodrigues, G. K. Tóth, T. Kiss,*
J. Costa Pessoa,* S. Marcão

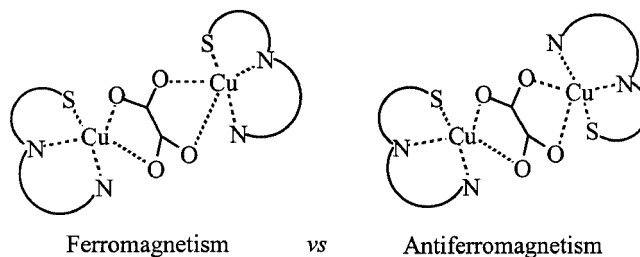
Interaction of V^{IV}O, V^VO₂ and Cu^{II} with a
Peptide Analogue

Keywords: Vanadium / Copper / Peptides / Speciation /
Spectroscopy / Bioinorganic chemistry



2123 P. Gómez-Saiz, J. García-Tojal,*
M. Maestro, J. Mahía, L. Lezama, T. Rojo

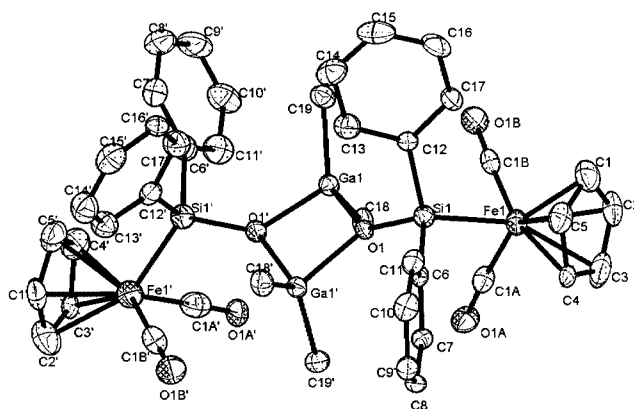
Coordination Modes in a (Thiosemicarbazone)-copper(II)/Oxalato System – Structures of $[\{\text{Cu}(\text{L})\}_2(\text{ox})]\cdot 2\text{H}_2\text{O}$, $[\text{Cu}(\text{HL})(\text{ox})(\text{H}_2\text{O})]$, $[\{\text{Cu}(\text{HL})\}_2(\text{ox})][\text{Cu}(\text{ox})_2]\cdot 2\text{H}_2\text{O}$ and $[\{\text{Cu}(\text{HL})\}_2(\text{ox})](\text{NO}_3)_2$ – Ferro- vs. Antiferromagnetic Behavior in Dinuclear Compounds



Keywords: Copper / Carboxylate ligands / Magnetic properties / Thiosemicarbazone complexes

2133 W. Malisch,* D. Schumacher,
B. Schmiedeskamp, H. Jehle, D. Eisner,
W. W. Schoeller, M. Nieger

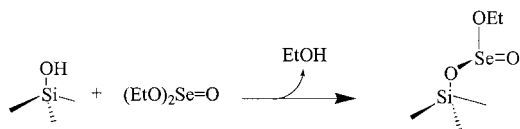
Iron-Fragment-Substituted Heterosiloxanes of Gallium $[\text{Cp}(\text{OC})_2\text{Fe}-\text{SiR}_2\text{OGaR}'_2]_2$ ($\text{R}, \text{R}' = \text{Alkyl}, \text{Aryl}$) – Structures of $[\text{Cp}(\text{OC})_2\text{Fe}-\text{SiR}_2-\text{OGaMe}_2]_2$ ($\text{R} = \text{Me}, \text{Ph}$)



Keywords: Gallium / Iron / Silanols / Silicon / Siloxanes

2139 H. Provendier, C. C. Santini,* J.-M. Basset,
L. Carmona

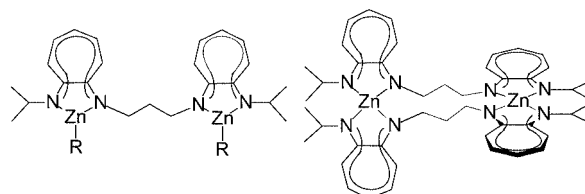
Surface Organometallic Chemistry on Oxides: The First Well-Defined Selenium(IV) Derivative Grafted onto Silica



Keywords: Acetaldehyde / Oxidation / Selenium / Supported catalysis / Surface chemistry

2145 M. T. Gamer, P. W. Roesky*

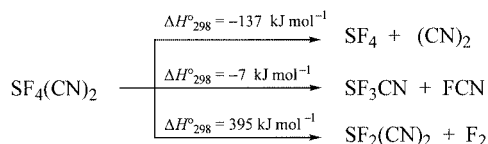
Bridged Aminotroponimate Complexes of Zinc



Keywords: Aminotroponimate / Coordination chemistry / N ligands / Zinc

2149 Y. Steudel, R. Steudel*

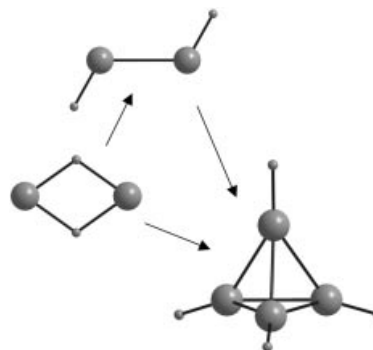
Structures and Thermodynamics of the Sulfuranes SF_3CN and $\text{SF}_2(\text{CN})_2$ as well as of the Persulfurane $\text{SF}_4(\text{CN})_2$ – An ab initio MO Study by the G3(MP2) Method



Keywords: Sulfuranes / Sulfur / Cyanides / Fluorides / Transition states / Reaction mechanisms

2153 H.-J. Himmel

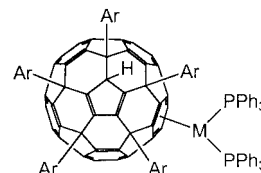
Calculated Enthalpies for Dimerisation of Binary, Unsaturated, Main-Group Element Hydrides as a Means to Analyse Their Potential for Multiple Bonding



Keywords: Main-group element hydrides / Dimerization / Enthalpy / Multiple bonding / Calculations

2164 L.-C. Song,* P.-C. Liu, Q.-M. Hu, Z. Lin, Y.-B. Wang

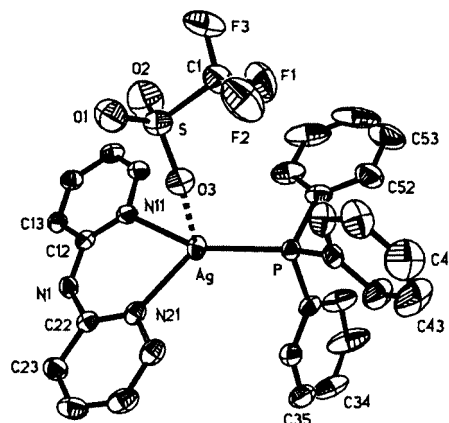
Synthesis and Characterization of Pentaarylated [60]Fullerene Coordinated Complexes $[(\eta^2\text{-Ar}_5\text{C}_{60}\text{H})\text{M}(\text{PPh}_3)_2]$ ($\text{M} = \text{Pt}, \text{Pd}$) and an ab initio Study on Their Isomerism



Keywords: Ab initio calculations / Fullerenes / Isomerism / Palladium / Platinum

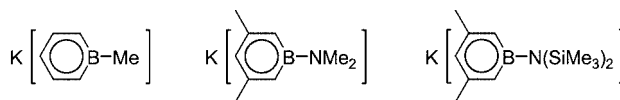
2170 M. Burgos, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna*

Gold, Silver and Palladium Complexes with the 2,2'-Dipyridylamine Ligand



Keywords: Gold / N Ligands / Palladium / Silver

New Alkali Metal Boratabenzenes: Structures of $K([18]\text{-Crown-6})(C_5H_5BMe)$, of the Tetrahydropyran Solvate $K(3,5\text{-Me}_2C_5H_3B\text{-NMe}_2)(THP)_2$, and of Two THF Solvates of $K[3,5\text{-Me}_2\text{-}C_5H_3B\text{-N(SiMe}_3)_2]$



Keywords: Alkali metal salts / Borabenzene / Boratabenzene / Boron

CORRECTION

Synthesis of $(\eta^3\text{-Allyl})\text{bromodicarbonylbis(pyrazole)molybdenum(II)}$ and Reactivity towards $[Au(acac)PPh_3]$: Structure and Dynamic Behavior of the Monometallic Pyrazole and Heterometallic Pyrazolate Complexes

Keywords: Molybdenum / Gold / Heterometallic complexes / N ligands / Fluxionality