

Contents

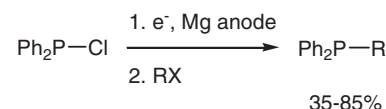
Communications

Malek Nechab, Erwan Le Gall, Michel Troupel, Jean-Yves Nédélec

J. Organomet. Chem. 691 (2006) 1809

Synthesis of alkyl- and aryldiphenylphosphines via electrogenerated magnesium chloride diphenylphosphanide

A two-steps procedure allowing the formation of alkyl-diphenylphosphines and aryldiphenylphosphines in good yield is described. It relies on the electrochemical preparation of magnesium chloride diphenylphosphanide and its subsequent coupling with either alkyl halides or aryl fluorides.

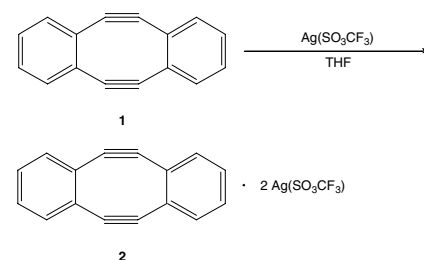


Björn Hellbach, Frank Rominger, Rolf Gleiter

J. Organomet. Chem. 691 (2006) 1814

Silver(I) complex of 5,6,11,12-tetrahydrodibenzo[*a,e*]cyclooctene

The reaction of 5,6,11,12-tetrahydrodibenzo[*a,e*]cyclooctene with silver(I)triflate yielded a 1:2 complex. X-ray investigations revealed that each silver ion is tetrahedrally coordinated to one triple bond and three oxygen atoms of the triflate anion.



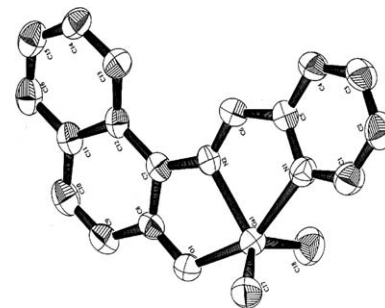
Regular papers

Yingzhong Shen, Hongwei Gu, Yu Zhu, Yi Pan

J. Organomet. Chem. 691 (2006) 1817

Synthesis, characterization and luminescence study of dialkyl[1-arylmethyleneimino-2-naphthonato]gallium complexes: Crystal structure of dimethyl[1-(2-pyridyl)methyleneimino-2-naphthonato]gallium

methyleneimino-2-naphthonato (2), M = Me, L = 1-phenylmethyleneimino-2-naphthonato (3), M = Et, L = 1-phenylmethyleneimino-2-naphthonato (4), M = Me, L = 1-(*p*-methoxyphenyl)methyleneimino-2-naphthonato (5), M = Me, L = 1-(3,4-dimethoxyphenyl)methyleneimino-2-naphthonato (6), M = Me, L = 1-naphthylmethyleneimino-2-naphthonato (7), M = Me, L = 1-naphthylmethyleneimino-2-naphthonato (8)) have been prepared. Structure of 1 has been determined by X-ray analysis. The electroluminescent properties of 3, 5, 7 and 8 have been measured. The maximum emission wavelengths are in the range of 450 and 480 nm.



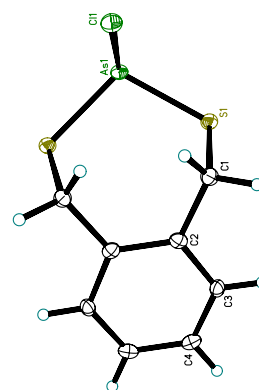
Eight dialkylgallium complexes of type R_2GaL [(M = Me, L = 1-(2-pyridyl)methyleneimino-2-naphthonato (1), M = Et, L = 1-(2-pyridyl)

**Taimur A. Shaikh, Ronald C. Bakus II,
Sean Parkin, David A. Atwood**

J. Organomet. Chem. 691 (2006) 1825

Structural characteristics of 2-halo-1,3,2-dithiarsenic compounds and tris-(pentafluorophenylthio)-arsen

The combination of various dithiols and AsX_3 ($\text{X} = \text{F}, \text{Cl}$) produces the series of cyclized halo-arsenic dithiolate compounds which up to this point have been lacking full characterization and structural description. This series of compounds has been characterized by IR, ^1H , ^{19}F , and ^{13}C NMR, X-ray crystallography and GC-MS.

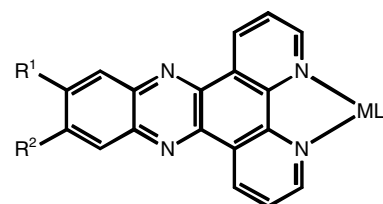


Andreas Kleineweischede, Jochen Mattay

J. Organomet. Chem. 691 (2006) 1834

Synthesis, spectroscopic and electrochemical studies of a series of transition metal complexes with amino- or bis(bromomethyl)-substituted dppz-ligands: Building blocks for fullerene-based donor-bridge-acceptor dyads

Synthesis of polypyridyl complexes of the type $(\alpha\text{-diimine})\text{ML}_n$ with $\text{ML}_n = \text{Ru}(\text{bipy})_2^{2+}$, $\text{Re}(\text{CO})_3\text{Cl}$, or $\text{Cu}(\text{PPh}_3)_2$ has been described. Nitro-, amino-, and bis(bromomethyl)-substituted dppz derivatives were used as $\alpha\text{-diimine}$ ligands. The electronic and electrochemical properties of these complexes have been investigated by UV/Vis spectroscopy and by cyclic voltammetry.



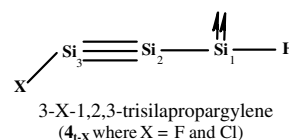
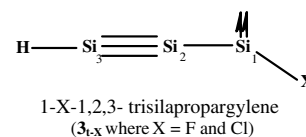
1a-e: $[\text{Ru}(\text{bpy})_2]^{2+}$ **a:** L = ndppz
2a-e: $[\text{Re}(\text{CO})_3\text{Cl}]$ **b:** L = dndppz
3a-e: $[\text{Cu}(\text{PPh}_3)_2]^+$ **c:** L = adppz
 d: L = dadppz
 e: L = dbrdppz

M.Z. Kassae, S.M. Musavi, M. Ghambarian

J. Organomet. Chem. 691 (2006) 1845

A quest for triplet silylenes XHSi_3 at ab initio and DFT levels ($\text{X} = \text{H}, \text{F}, \text{Cl}$ and Br)

Four triplet ground state silylenes 3_{t-X} and 4_{t-X} (where $\text{X} = \text{F}$ and Cl) appear more stable than their corresponding singlet states. This is found through the comparison of singlet-triplet energy splittings for 30 XHSi_3 silylenes at seven levels of ab initio and DFT ($\text{X} = \text{H}, \text{F}, \text{Cl}$, and Br).

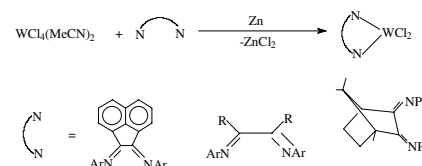


**Thouraya Turki, Taha Guerfel,
Faouzi Bouachir**

J. Organomet. Chem. 691 (2006) 1857

Preparation and structural characterization of tetracoordinated tungsten(II) diazadiene complexes

A series of diamagnetic tungsten diazadiene complexes $(\text{DAD})\text{WCl}_2$ has been prepared and characterised. Their crystal structural indicate a slightly distorted tetrahedral coordination sphere.

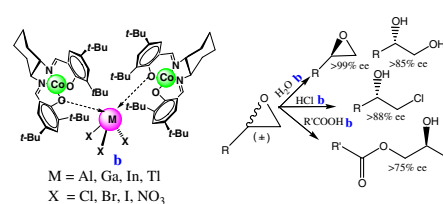


**Santosh Singh Thakur, Shu-Wei Chen,
Wenji Li, Chang-Kyo Shin, Seong-Jin Kim,
Yoon-Mo Koo, Geon-Joong Kim**

J. Organomet. Chem. 691 (2006) 1862

A new dinuclear chiral salen complexes for asymmetric ring opening and closing reactions: Synthesis of valuable chiral intermediates

Dinuclear chiral salen complexes bearing Lewis acid of group 13 metals catalyze asymmetric ring opening of various terminal epoxides with myriad of nucleophiles by kinetic resolution. The complexes are also found to be active for asymmetric cyclization reaction too.

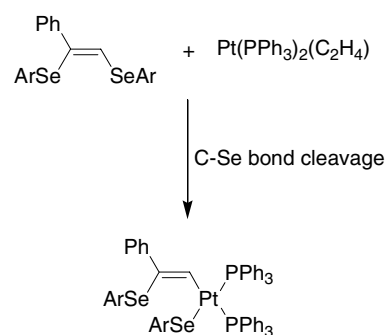


**Hitoshi Kuniyasu, Tomohiro Kato,
Masafumi Inoue, Jun Terao, Nobuaki Kambe**

J. Organomet. Chem. 691 (2006) 1873

The first definitive example of oxidative addition of acyclic vinyl selenide to M(0) complex

The principle of C–S bond activation of acyclic vinyl sulfide by platinum(0)-complex was successfully applicable to the C–Se bond fission of vinyl selenide to produce vinyl platinum.

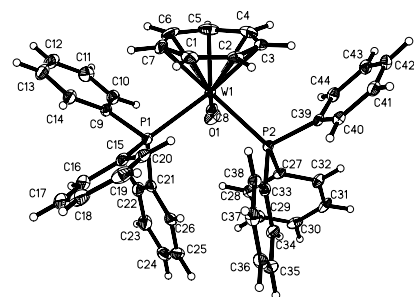


**Emma C. Fitzgerald, Richard W. Grime,
Heather C. Knight, Madeleine Helliwell,
James Raftery, Mark W. Whiteley**

J. Organomet. Chem. 691 (2006) 1879

Synthesis of the sterically crowded cycloheptatrienyl complexes $[M(CO)(PPh_3)_2(\eta-C_7H_7)]^+$ (M = Mo or W): X-ray crystal structures of $[W(CO)(PPh_3)_2(\eta-C_7H_7)][BF_4]$ and $[W(CO)_2(PPh_3)(\eta-C_7H_7)][BF_4] \cdot CH_2Cl_2$

Syntheses of the first examples of bis-(triphenylphosphine)cycloheptatrienyl complexes $[M(CO)(PPh_3)_2(\eta-C_7H_7)]^+$ (M = Mo or W) are described. The X-ray structure of the W complex reveals structural modifications consistent with a sterically crowded system.

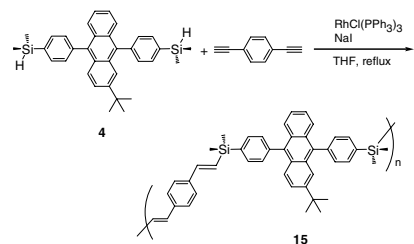


**Taegweon Lee, Kyu Ho Song, Il Jung,
Youngjin Kang, Soo-Hyoung Lee,
Sang Ook Kang, Jaejung Ko**

J. Organomet. Chem. 691 (2006) 1887

Silylene-spaced diphenylanthracene derivatives as blue-emitting materials

A novel series of blue emitting silylene-spaced diphenylanthracene derivatives have been synthesized and characterized.

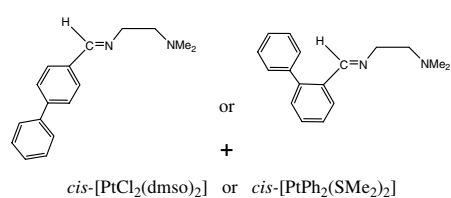


**Margarita Crespo, Mercè Font-Bardía,
Xavier Solans**

J. Organomet. Chem. 691 (2006) 1897

A comparative study of metallating agents in the synthesis of $[C,N,N']$ -cycloplatinated compounds derived from biphenylimines

New $[C,N,N']$ cyclometallated platinum(II) compounds derived from 2- and 4-biphenylimines as well as their $[N,N']$ precursors were prepared using cis - $[PtCl_2(dmsO)_2]$ or cis - $[PtPh_2(SMe_2)_2]$ as substrates. The influence in these reactions of the phenyl substituent in 2- or 4-positions and the reactivity of the obtained compounds towards oxidative addition were studied.

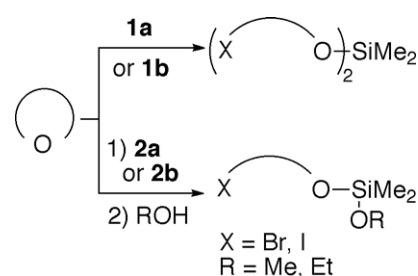


**Joji Ohshita, Yuki Izumi, Zhou Lu,
Junnai Ikadai, Atsutaka Kunai**

J. Organomet. Chem. 691 (2006) 1907

Ring-opening reactions of cyclic ethers with diiodo- and dibromodimethylsilane equivalents

Ring-opening halosilation of cyclic ethers with reagents of $(Me_2N)_2SiMe_2/4MeI$ (**1a**) and $(Me_2N)_2SiMe_2/4allylBr$ (**1b**) gave ring-opened di(haloalkoxy)dimethylsilanes in good yield. When similar reactions were carried out with $(Me_2N)_2SiMe_2/2MeI$ (**2a**) and $(Me_2N)_2SiMe_2/2allylBr$ (**2b**) in a ratio of cyclic ethers/**2a** or **2b** = 1/1, the corresponding 1:1 adducts were obtained.

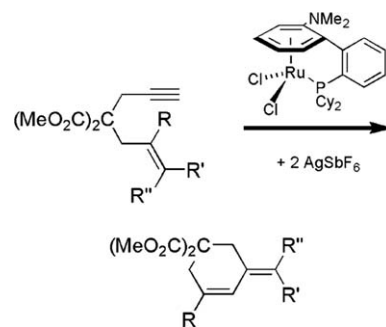


J.W. Faller, Philip P. Fontaine

J. Organomet. Chem. 691 (2006) 1912

Ruthenium catalyzed enyne cycloisomerizations and hydroxycyclizations with skeletal rearrangement

A neutral arene-tethered ruthenium complex was found to be a catalyst precursor for enyne cycloisomerizations and hydroxycyclizations.

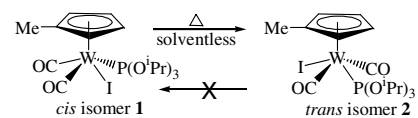


**Muhammad D. Bala, Demetrius C. Leventis,
Neil J. Coville**

J. Organomet. Chem. 691 (2006) 1919

Solid-state cis - $trans$ isomerization reaction of $(\eta^5-MeC_5H_4)W(CO)_2P(O^iPr)_3I$

The solid-state cis - $trans$ isomerization of $(\eta^5-MeC_5H_4)W(CO)_2P(O^iPr)_3I$ was monitored by in situ (PXRD) and post reaction (NMR spectroscopy) techniques to yield data consistent with a first-order reaction and an activation energy of 50–60 kJ mol^{-1} .

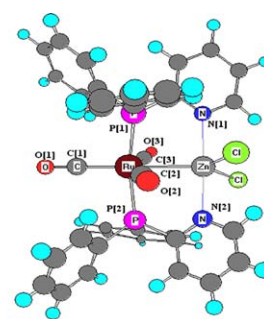


**Xuan Xu, Liang Fang, Zhao-Xing Chen,
Guo-Chun Yang, Shi-Ling Sun, Zhong-Min Su**

J. Organomet. Chem. 691 (2006) 1927

Quantum chemistry studies on the Ru–M interactions and the ^{31}P NMR in $[\text{Ru}(\text{CO})_3(\text{Ph}_2\text{Ppy})_2(\text{MCl}_2)]$ ($\text{M} = \text{Zn}, \text{Cd}, \text{Hg}$)

Density functional theory PBE0 method was applied to study the Ru–M interactions and their effects on ^{31}P NMR in complexes $[\text{Ru}(\text{CO})_3(\text{Ph}_2\text{Ppy})_2(\text{MCl}_2)]$ ($\text{M} = \text{Zn}; \text{Cd}; \text{Hg}$). The ^{31}P chemical shifts of complexes were calculated by PBE0-GIAO method. Meanwhile, the stabilities of binuclear complexes were discussed by binding energies.



The structure of $[\text{Ru}(\text{CO})_3(\text{Ph}_2\text{Ppy})_2(\text{MCl}_2)]$ ($\text{M} = \text{Zn}, \text{Cd}, \text{Hg}$)

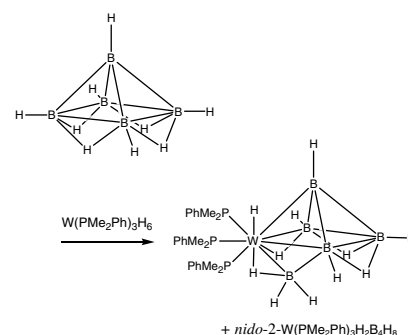
**Malcolm L.H. Green, J. Walker,
P. Mountford, John B. Leach,
Malcolm A. Kelland**

J. Organomet. Chem. 691 (2006) 1934

Reactions of pentaborane(9) with electron-rich molybdenum and tungsten phosphine polyhydrides

Reaction of $[\text{W}(\text{PMe}_2\text{Ph})_3\text{H}_6]$ with pentaborane(9) gives *nido*-2- $[\text{W}(\text{PMe}_2\text{Ph})_3\text{H}_2\text{B}_4\text{H}_8]$ (1) as well as *nido*-2- $[\text{W}(\text{PMe}_2\text{Ph})_3\text{HB}_5\text{H}_{10}]$ (2).

The crystal structure of (2) has been determined. Compound (2) has a novel metallaborane structure containing an edge-bridging $\{\text{BH}_3\}$ group between the tungsten atom and one of the basal boron atoms in a “*nido*-WB₄” pyramid. Reaction of $[\text{W}(\text{PMe}_3)_4(\eta^2\text{-CH}_2\text{PMe}_2\text{H})]$ with pentaborane(9) gives *nido*-2- $[\text{W}(\text{PMe}_3)_3\text{H}_2\text{B}_4\text{H}_8]$ (3) whilst reaction of $[\text{Mo}(\text{L})_4\text{H}_4]$ with pentaborane(9) gives *nido*-2- $[\text{Mo}(\text{L})_3\text{H}_2\text{B}_4\text{H}_8]$ [$\text{L} = \text{PMe}_3$ (4), PMe_2Ph (5)]. Treatment of $[\text{Mo}(\text{PMe}_3)_4\text{H}_4]$ with excess $\text{BH}_3 \cdot \text{thf}$ gives the known borohydride $[\text{Mo}(\text{PMe}_3)_4\text{H}(\eta^2\text{-BH}_4)]$.

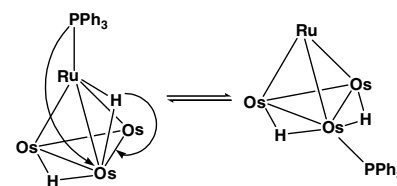


Leonard Joachim Pereira, Weng Kee Leong

J. Organomet. Chem. 691 (2006) 1941

Group 15 ligand migration in the heteronuclear clusters $\text{RuOs}_3(\mu\text{-H})_2(\text{CO})_{12}(\text{EPh}_3)$ ($\text{E} = \text{P}, \text{As}, \text{Sb}$)

The monosubstituted clusters $\text{RuOs}_3(\mu\text{-H})_2(\text{CO})_{12}(\text{EPh}_3)$ (where $\text{E} = \text{P}, \text{As}, \text{Sb}$) exhibit isomers in which the group 15 ligand is on an Os or an Ru vertex. Evidence is presented for hydride fluxionality and EPh_3 ligand migration. These processes have been examined by variable temperature NMR studies, and the kinetic parameters estimated.

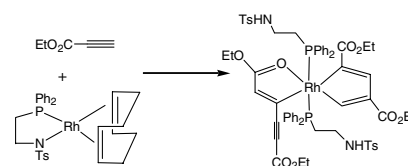


**Peng Xue, Herman S.Y. Sung, Ian D. Williams,
Guochen Jia**

J. Organomet. Chem. 691 (2006) 1945

Alkyne oligomerization mediated by rhodium complexes with a phosphinosulfonamido ligand and isolation and characterization of a rhodacyclopentadiene complex

$[\text{Rh}(\text{COD})(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{NHTs})]$ is catalytically active for polymerization of arylalkynes and for cyclotrimerization of $\text{HC}\equiv\text{CCOR}$. A rhodacyclopentadiene complex was isolated from the reaction of $[\text{Rh}(\text{COD})(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{NHTs})]$ with ethyl propiolate.

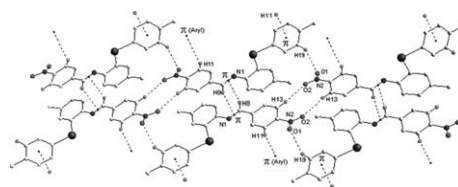


Ashok K.S. Chauhan, Anamika, Arun Kumar, Puspendra Singh, Ramesh C. Srivastava, Ray J. Butcher, Jens Beckmann, Andrew Duthie

J. Organomet. Chem. 691 (2006) 1954

Structural characterization of rare intramolecularly (1,4-Te···N) bonded diorganotellurides and their monomeric complexes with mercury(II) halides: Metal assisted C–H···X (Hg) interactions leading to supramolecular architecture

Monomeric tellurides, 4-RC₆H₄(SB)Te [SB = 2-(4,4'-NO₂C₆H₄CH=NC₆H₃-Me); R = H, **1a**; Me, **1b**; OMe, **1c**] with rare 1,4-Te···N intramolecular interactions and their monomeric 2:1 complexes with Hg(II) halides have been prepared and characterized by solution and solid-state ¹²⁵Te NMR, ¹³C NMR and X-ray crystallography. Intermolecular non-covalent weak C–H···O, C–H···π and C–H···Cl/Br interactions involving halogen atom bound to mercury with significant directionality are recognized to be responsible in the formation of supramolecular motifs.

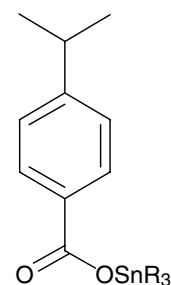


Luigi Angiolini, Daniele Caretti, Laura Mazzocchetti, Elisabetta Salatelli, Rudolph Willem, Monique Biesemans

J. Organomet. Chem. 691 (2006) 1965

Triorganotin 4-isopropylbenzoates as model transesterification catalysts for triorganotin carboxylates grafted to cross-linked polystyrene

New triorganotin 4-isopropylbenzoates (R = Me, Bu and Ph) have been prepared and tested as transesterification catalysts showing different activity according to the substituents at tin. Details related to the transesterification mechanism and the role of Lewis acidity of tin atom have been revealed by Sn NMR investigation.

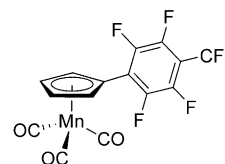


Paul A. Deck, Benjamin D. McCauley, Carla Sleboznick

J. Organomet. Chem. 691 (2006) 1973

Transition metal cyclopentadienyl complexes bearing perfluoro-4-tolyl substituents

The reaction of NaCp with C₆F₅CF₃ gives cyclopentadienes bearing one, two, three, or four perfluorotolyl substituents. Sodium salts of these cyclopentadienes serve as ligands for early and late transition metals complexes, such as the manganese tricarbonyl complex shown.

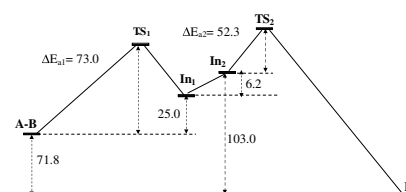


Kaichun Gu, Gang Yang, Weiping Zhang, Xiumei Liu, Zhengkun Yu, Xiuwen Han, Xinhe Bao

J. Organomet. Chem. 691 (2006) 1984

An experimental–theoretical approach to the kinetics and mechanism of Michael type addition: α,β-Unsaturated tungsten Fischer carbene complex as the substrate

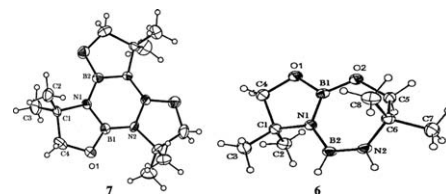
The kinetics and mechanism of Michael type addition using alkynyl carbene complex as substrate are investigated by variable-temperature ¹H and ¹³C NMR experiments and density functional calculations. The Michael type addition to β-pyrazolato-α,β-unsaturated carbene complexes contains three elementary steps including two transition states and two intermediates. The second step is conformation conversion, which is very important but ignored before.



Ofir Baum, Israel Goldberg, Morris Srebnik*J. Organomet. Chem.* 691 (2006) 1993

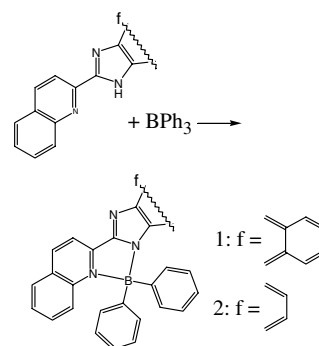
Novel boracycles from 2-amino-2-methylpropan-1-ol and borane methyl sulfide: Synthesis and X-ray crystal structures

Reacting 2-amino-2-methylpropan-1-ol with borane methyl sulfide (BMS) gave the structures **6** and **7** determined by single crystal X-ray.

**Tsun-Ren Chen, Rong-Hong Chien, Anchi Yeh, Jhy-Der Chen***J. Organomet. Chem.* 691 (2006) 1998

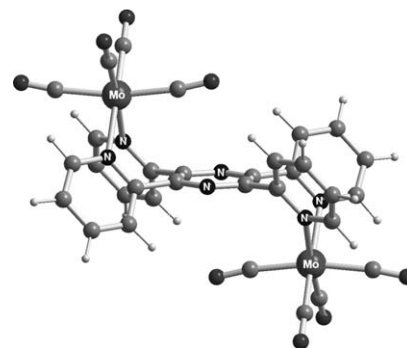
Synthesis, characterization and electro-luminescence of B(III) compounds: BPh₂(2-(2-quinolyl)naphtho[*b*]imidazolato) and BPh₂(2-(2-quinolyl)benzimidazolato)

We have demonstrated two novel luminescent boron compounds, BPh₂(2-(2-quinolyl)naphtho[*b*]imidazolato) and BPh₂(2-(2-quinolyl)benzimidazolato), which could be of interest for practical applications, especially for OLED.

**Rodrigo S. Bitzer, Robson P. Pereira, Ana Maria Rocco, José Guilherme S. Lopes, Paulo Sérgio Santos, Marco A.C. Nascimento, Carlos A.L. Filgueiras***J. Organomet. Chem.* 691 (2006) 2005

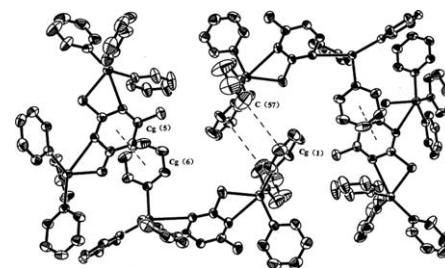
A contribution to the coordination chemistry of 2,3,5,6-tetrakis(α -pyridyl)pyrazine (TPP): Synthesis, spectroscopy, electrochemistry, and density-functional study of {[Mo(CO)₄]₂(μ -TPP)}

{[Mo(CO)₄]₂(μ -TPP)} (**1**) was synthesized in 89% yield from *cis*-[Mo(CO)₄(piperidine)₂] and 2,3,5,6-tetrakis(α -pyridyl)pyrazine (TPP) in the 3:1 (Mo:TPP) stoichiometric ratio. This bimetallic complex was characterized by several spectroscopic techniques and by cyclic voltammetry. Additionally, a theoretical study of its molecular structure and vibrational frequencies was performed at the DFT/B3LYP level of calculation.

**Chunlin Ma, Guangru Tian, Rufen Zhang***J. Organomet. Chem.* 691 (2006) 2014

New triorganotin(IV) complexes of polyfunctional S,N,O-ligands: Supramolecular structures based on $\pi \cdots \pi$ and/or C–H $\cdots \pi$ interactions

A series of new triorganotin(IV) complexes with 4-hydroxy-2-mercapto-6-methylpyrimidine (L¹H₂), 4-hydroxy-2-mercapto-pyrimidine (L²H₂), 2,4(1H,3H)-pyrimidinedithione (L³H₂) (Scheme 1) of the type R₃SnL₂SnR₃ (R = Me **1**, **4**, **7**; R = Ph **2**, **5**, **8**; R = PhCH₂ **3**, **6**, **9**) have been synthesized by reactions of triorganotin(IV) chloride and corresponding ligands. Among them, complexes **2**, **5** and **8** are also characterized by X-ray crystallography diffraction analyses. Significant $\pi \cdots \pi$ stacking, C–H $\cdots \pi$ interactions and intramolecular hydrogen bonds stabilize these structures.

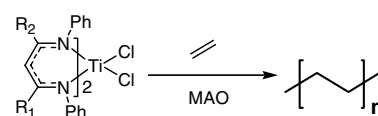


Li-Ming Tang, Yi-Qun Duan, Xiao-Fang Li, Yue-Sheng Li

J. Organomet. Chem. 691 (2006) 2023

Syntheses, structure and ethylene polymerization behavior of β -diiminato titanium complexes

A series of new titanium complexes $[(\text{Ph})\text{NC}(\text{R}_1)\text{CHC}(\text{R}_2)\text{N}(\text{Ph})_2]\text{TiCl}_2$ has been synthesized and characterized, and is shown to be active catalysts for ethylene polymerization.

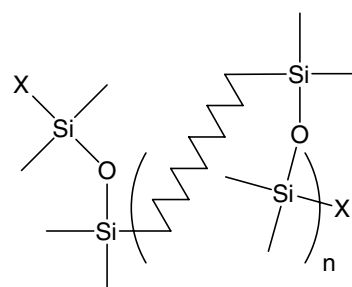


Eckhart Louis, Ibrahim Jussofie, Fritz E. Kühn, Wolfgang A. Herrmann

J. Organomet. Chem. 691 (2006) 2031

Karstedt Catalyst – Catalyzed stepgrowth copolyaddition of 1,9-decadiene and 1,1,3,3-tetramethyldisiloxane

Low to medium molecular weight “disiloxane-modified” *n*-paraffines; synthesis and characterization.



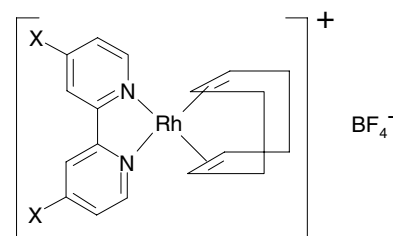
X = H, alkyl, etc.

Paulo E.A. Ribeiro, Claudio L. Donnici, Eduardo N. dos Santos

J. Organomet. Chem. 691 (2006) 2037

Cationic rhodium(I) complexes containing 4,4'-disubstituted 2,2'-bipyridines: A systematic variation on electron density over the metal centre

A series of cationic rhodium(I) complexes containing 4,4'-disubstituted 2,2'-bipyridines were synthesized. The electron density over the metal varies largely with X with virtually no change on its steric environment. The complexes were evaluated on the hydroformylation of terpenes.



X = OCH₃, CH₃, H, Cl, NO₂

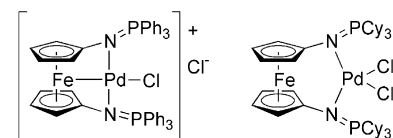
Notes

Costa Metallinos, Deanna Tremblay, Fred B. Barrett, Nicholas J. Taylor

J. Organomet. Chem. 691 (2006) 2044

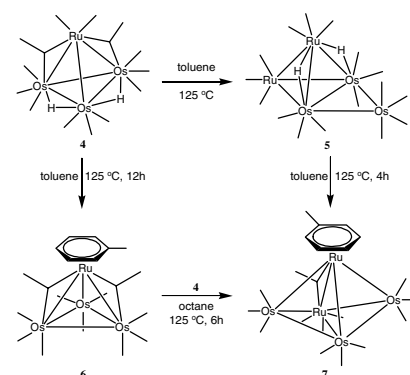
1,1'-Bis(phosphoranylidenamino)ferrocene palladium(II) complexes: An unusual case of dative Fe → Pd bonding

Subtle differences in the electron-richness of nitrogen atoms in 1,1'-bis(phosphoranylidenamino)ferrocenes can change the coordination geometry of their palladium(II) complexes from *cis* to *trans*. *Trans* complexation results in concomitant formation of a relatively short dative Fe–Pd bond of 2.67 Å.



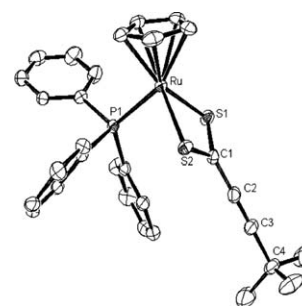
Yong Leng Kelvin Tan, Weng Kee Leong*J. Organomet. Chem.* 691 (2006) 2048Reaction of the heteronuclear cluster $\text{RuOs}_3(\mu\text{-H})_2(\text{CO})_{13}$ with toluene

The heteronuclear cluster $\text{RuOs}_3(\mu\text{-H})_2(\text{CO})_{13}$ (**4**) reacts with refluxing toluene to form the clusters $\text{Ru}_2\text{Os}_3(\mu\text{-H})_2(\text{CO})_{16}$ (**5**) $\text{RuOs}_3(\text{CO})_9(\mu\text{-CO})_2(\eta^6\text{-C}_6\text{H}_5\text{Me})$ (**6**) and $\text{Ru}_2\text{Os}_3(\text{CO})_{12}(\mu\text{-CO})(\eta^6\text{-C}_6\text{H}_5\text{Me})$ (**7**). Cluster **5** exists as a mixture of five isomers. The inter-relationship among the clusters has also been investigated.

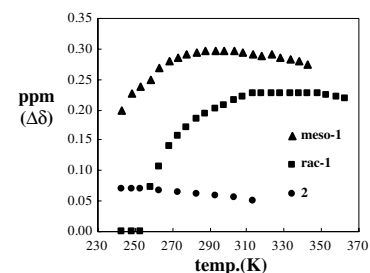
**Mohammad El-khateeb, Helmar Görts, Wolfgang Weigand***J. Organomet. Chem.* 691 (2006) 2055

Cyclopentadienyl ruthenium alkyndithio-carboxylate complexes

Treatment of the ruthenium chloride, $\text{CpRu}(\text{PPh}_3)_2\text{Cl}$, with $\text{RC}\equiv\text{CCS}_2^-$, in refluxing THF affords $\text{CpRu}(\text{PPh}_3)(\kappa^2\text{S}_2\text{S}_2\text{CC}\equiv\text{CR})$ (**1**). The X-ray structure of $\text{CpRu}(\text{PPh}_3)(\kappa^2\text{S}_2\text{S}_2\text{CC}\equiv\text{Cbu}')$ (**1a**) was determined. The room temperature reaction of $[\text{CpRu}(\text{PPh}_3)_2(\text{NPh})]^+$, with $\text{RC}\equiv\text{CCS}_2^-$, produces the chelate complexes **1** and the mono-coordinated complexes $\text{CpRu}(\text{PPh}_3)_2(\kappa\text{S-S}_2\text{CC}\equiv\text{CR})$ (**2**). Complexes **2** are converted to **1** in solution so that they were characterized spectroscopically.

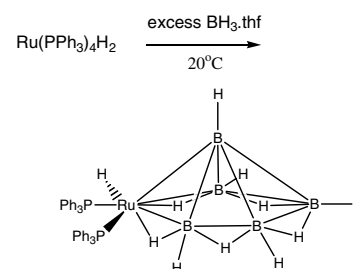
**Hyeon Mo Cho, Doo Jin Kang, Myong Euy Lee***J. Organomet. Chem.* 691 (2006) 2060Variable temperature ^1H and ^{29}Si NMR of diastereomeric 1,3-dihydroxy-1,3-bis[(2-dimethylaminomethyl)phenyl]-1,3-divinylsiloxanes

Variable temperature NMR experiments of diastereomeric 1,3-dihydroxy-1,3-bis[(2-dimethylaminomethyl)phenyl]-1,3-divinylsiloxanes, *meso*-**1** and *rac*-**1** having intramolecular hydrogen bondings were carried out. As temperature increased, the ^1H NMRs of hydroxy groups of **1** were shifted to a low frequency. Interestingly, the ^1H NMR of two benzylic protons was split more widely ($\Delta\delta = |\delta$ of benzylic $\text{H}_a - \delta$ of benzylic $\text{H}_b|$) as temperature increased.

**Malcolm L.H. Green, John B. Leach, Malcolm A. Kelland***J. Organomet. Chem.* 691 (2006) 2063

Reactions of small boranes with ruthenium phosphine hydrides: Oligomerisation of monoborane-tetrahydrofuran to a nido-hexaruthenaborane

Reaction of $[\text{Ru}(\text{PPh}_3)_4\text{H}_2]$ with $\text{BH}_3 \cdot \text{thf}$ at room temperature gives borane oligomerisation with the formation of *nido*-2- $[\text{Ru}(\text{PPh}_3)_2(\text{H})\text{B}_5\text{H}_{10}]$ (**1**). This cluster is also formed by reaction of $[\text{Ru}(\text{PPh}_3)_4\text{H}_2]$ with *nido*- B_5H_9 . In contrast to $[\text{Ru}(\text{PPh}_3)_4\text{H}_2]$ reaction of $[\text{cis-Ru}(\text{PMe}_3)_4\text{H}_2]$ with excess $\text{BH}_3 \cdot \text{thf}$ gives *nido*-2- $[\text{Ru}(\text{PMe}_3)_3\text{B}_4\text{H}_8]$ (**3**). Reaction of $[\text{cis-Ru}(\text{PMe}_3)_4\text{H}_2]$ with *nido*- B_5H_9 also gives (**3**) and *nido*-2- $[\text{Ru}(\text{PMe}_3)_3\text{B}_9\text{H}_{13}]$ (**4**).



Erratum 2069