

Contents

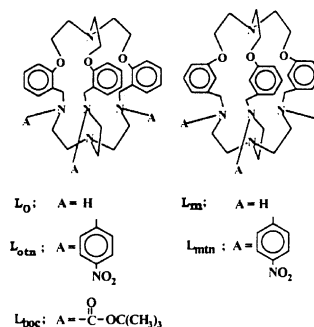
Regular papers

**Pritam Mukhopadhyay,
Parimal K. Bhargadwaj, Anu Krishnan,
Pushpendu K. Das**

J. Organomet. Chem. 689 (2004) 4877

Modulation of SHG responses via supra-
molecular association/dissociation between
two complementary cryptands

Two sets of complementary cryptands are
investigated for supramolecular nitro-amino
H-bonding interactions in solutions. The D-
 π -A cryptand and the unsubstituted cryptand
forms 1:1 H-bonded structure.

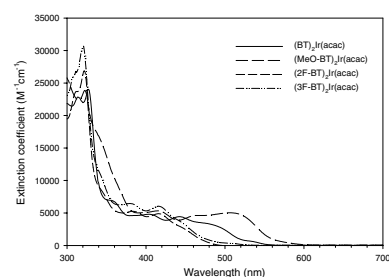


**Wei-Chieh Chang, Andrew Teh Hu,
Jiun-Pey Duan, Dinesh Kumar Rayabharapu,
Chien-Hong Cheng**

J. Organomet. Chem. 689 (2004) 4882

Color tunable phosphorescent light-emitting
diodes based on iridium complexes with
substituted 2-phenylbenzothiozoles as the
cyclometalated ligands

Several iridium complexes {iridium(III)bis[2-
(3-methoxyphenyl)-1,3-benzothiazolato-N,C^{2'}]
acetylacetonate (MeO-BT)₂Ir(acac), iridium-
(III)bis[2-(2,4-difluorophenyl)-1,3-benzothio-
zolato-N,C^{2'}] acetylacetonate (2F-BT)₂-
Ir(acac), and iridium(III)bis[2-(2,4-difluoro-
phenyl)-6-fluoro-1,3-benzothiazolato-N,C^{2'}]
acetylacetonate (3F-BT)₂Ir(acac)} having
different substituents on 2-phenylbenzothia-
zole have been synthesized.

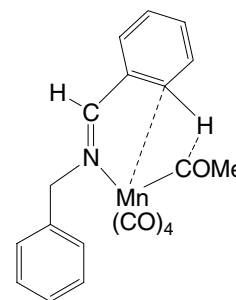


**Joan Albert, J. Magali Cadena,
Jaume Granell, Xavier Solans,
Mercè Font-Bardia**

J. Organomet. Chem. 689 (2004) 4889

Regioselective cyclomanganation of Schiff
bases. An unexpected effect of chloro
substituents

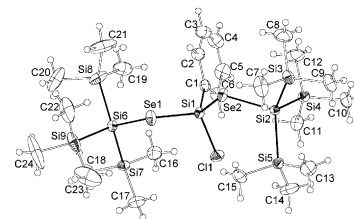
The synthesis of new metallacycles of benzyl-
benzylidene-amines by using [MnMe(CO)₅]
as metallating agent is reported. The results
described suggest that cyclomanganation
takes place by the formation of a four-
centered transition state, involving the C-H and
Mn-C_{acetyl} bonds, in the acetyl coordination
complex formed in the first step of the
reaction.



Heike Lange, Uwe Herzog, Horst Borrmann, Bernhard Walfort
J. Organomet. Chem. 689 (2004) 4897

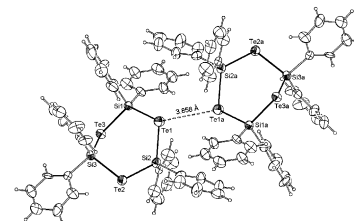
Organosilicon hypersilylchalcogenolates and related compounds

Reaction of potassium hypersilylchalcogenolates $(\text{Me}_3\text{Si})_3\text{SiEK}$ ($\text{E} = \text{S}, \text{Se}, \text{Te}$) with organochlorosilanes $\text{R}_{4-x}\text{SiCl}_x$ ($\text{R} = \text{Me}, \text{Ph}$; $x = 1-4$) and methylchlorosilanes ($\text{Si}_2\text{Me}_2\text{Cl}$, 1,2- $\text{Si}_2\text{Me}_4\text{Cl}_2$) yields organosilicon hypersilylchalcogenolates $[(\text{Me}_3\text{Si})_3\text{SiE}]_x\text{SiR}_{4-x}$ ($x = 1-4$) and $[(\text{Me}_3\text{Si})_3\text{SiE}]_x\text{Si}_2\text{Me}_{6-x}$ ($x = 1, 2$). A partial substitution product, $[(\text{Me}_3\text{Si})_3\text{SiSe}]_2\text{SiPhCl}$ (**2**) has been obtained by reaction of PhSiCl_3 with 1.5 equivalents $(\text{Me}_3\text{Si})_3\text{SiSeK}$. Besides characterization by ^1H , ^{13}C , ^{29}Si , ^{77}Se and ^{125}Te NMR spectroscopy the compounds $[(\text{Me}_3\text{Si})_3\text{SiTe}]_2\text{SiPh}_2$ (**1**), $[(\text{Me}_3\text{Si})_3\text{SiSe}]_2\text{SiPhCl}$ (**2**) and $[(\text{Me}_3\text{Si})_3\text{SiSe}]_2\text{Si}_2\text{Me}_4$ (**3**) have also been analyzed by crystal structure analyses.


Uwe Herzog, Heike Lange, Horst Borrmann, Bernhard Walfort, Heinrich Lang
J. Organomet. Chem. 689 (2004) 4909

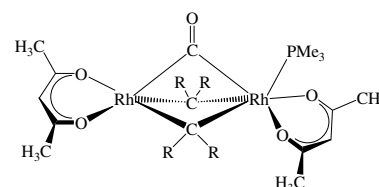
 Dimeric and trimeric diorganosilicon chalcogenides $(\text{PhRSiE})_{2,3}$ ($\text{E} = \text{S}, \text{Se}, \text{Te}$; $\text{R} = \text{Ph}, \text{Me}$)

Ph_2SiCl_2 and PhMeSiCl_2 react with Li_2E ($\text{E} = \text{S}, \text{Se}, \text{Te}$) under formation of trimeric diorganosilicon chalcogenides $(\text{PhRSiE})_3$ ($\text{R} = \text{Ph}$: **1a-3a**, $\text{R} = \text{Me}$: *cis/trans*-**4a** ($\text{E} = \text{S}$), *cis/trans*-**5a** ($\text{E} = \text{Se}$)). In case of $\text{E} = \text{S}, \text{Se}$ dimeric four-membered ring compounds $(\text{PhRSiE})_2$ ($\text{R} = \text{Ph}$: **1b-2b**, $\text{R} = \text{Me}$: *cis/trans*-**4b** ($\text{E} = \text{S}$), *cis/trans*-**5b** ($\text{E} = \text{Se}$)) have been observed as by-products. **1a-5b** have been characterized by multinuclear NMR spectroscopy (^1H , ^{13}C , ^{29}Si , ^{77}Se , ^{125}Te). Four- and six-membered ring compounds differ significantly in ^{29}Si and ^{77}Se chemical shifts as well as in the value of $^1J_{\text{SiSe}}$.


Note
Ulrich Herber, Kerstin Ilg, Helmut Werner
J. Organomet. Chem. 689 (2004) 4917

Preparation and molecular structure of a dinuclear rhodium complex having an unbalanced (15+17)-electron count

On stepwise reaction of $[\text{Rh}_2(\text{acac})_2\{\mu\text{-C}(p\text{-tol})_2\}_2\{\mu\text{-Sb}^t\text{Pr}_3\}]$ (**1**) with PMe_3 and CO the unsymmetrical dinuclear complex $[\text{Rh}_2(\text{acac})_2(\text{PMe}_3)\{\mu\text{-C}(p\text{-tol})_2\}_2\{\mu\text{-CO}\}]$ (**3**) is formed, which owing to the X-ray crystal structure contains the CO in a bridging and the phosphine ligand in a terminal position.



Book review	4921
Author Index of Volume 689	4922
Subject Index of Volume 689	4933
Contents of Volume 689	5001

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