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Volume 689, issue 9, 1 May 2004



www.elsevier.com/locate/jorganchem

Contents

Communication

Subhabrata Chaudhury, William A. Donaldson, Dennis W. Bennett, Daniel T. Haworth, Tasneem A. Siddiquee, Jennifer M. Kloss

J. Organomet. Chem. 689 (2004) 1437

Synthesis and reactivity of tricarbonyl(1methoxycarbonyl-5-phenylpentadienyl)iron-(1+) cation The reaction of the title cation with carbon and heteroatom nucleophiles was examined. In general, the products arise from nucleophilic attack at C5 to give E,E- or E,Zdienoate iron complexes. Addition of phthalimide anion proceeds at C2 of the cation to afford a (pentenediyl)iron complex, whose structure was confirmed by X-ray diffraction analysis.



Regular papers

Xiu Lian Lu, Jagadese J. Vittal, Edward R.T. Tiekink, Lai Yoong Goh, T.S. Andy Hor

J. Organomet. Chem. 689 (2004) 1444

Chloride substitution of [CpRu(dppf)Cl] with sulfur-containing ligands

The S-containing ligands, thiourea, 2 mercaptopyridine, ethylene and vinylene trithiocarbonates, readily displace the chloride ligand in CpRu(dppf)Cl to give S-bonded complexes.



J. Organomet. Chem. 689 (2004) 1452

Tellurium azamacrocycles: synthesis, characterization and coordination studies The metal-free condensation of bis(*o*-formylphenyl)telluride with a series of diamines affords macrocyclic tellurium ligands. The reaction of macrocyclic Schiff base **2** with Pd(II)/Ni(II) metal ions followed by NH_4PF_6 addition gives the corresponding 1:1 cationic complexes whereas, reaction with Pt(II) proceeds via novel transmetallation.



H. Lang, A. del Villar, B. Walfort, G. Rheinwald

J. Organomet. Chem. 689 (2004) 1464

Synthese und Reaktionsverhalten von Platin(II) und Kupfer(I) Koordinationspolymeren; die Festkörperstruktur von $\{trans-(Ph_3P)_2Pt[(\eta^2-C\equiv CPh)CuBr]_2\}_n$ und $trans-(Ph_3P)_2Pt[(\eta^2-C\equiv CPh)CuNO_3]_2$ The synthesis of the coordination polymer $\{trans-(Ph_3P)_2Pt[(\eta^2-C\equiv CPh)CuX]_2\}_n$ (3a, X = Cl; 3b, X = Br) and it's reaction towards bipy and [AgNO_3] is described. The solid-state structures of 3b and *trans*-(Ph_3P)_2Pt[(\eta^2-C\equiv CPh)CuNO_3]_2 are reported as well.



Bernd Schetter, Bernd Speiser

J. Organomet. Chem. 689 (2004) 1472

Reaction of ferrocenecarboxylic acid with N,N'-disubstituted carbodiimides: synthesis, spectroscopic and X-ray crystallographic analysis of N,N'-disubstituted N-ferrocenoylureas and identification of a one-pot coupling reagent for the formation of ferrocenecarboxamides in a non-aqueous solvent

N,N'-dicyclohexyl-N-ferrocenoylurea **2**, N,N'-diisopropyl-N-ferrocenoylurea **3**, N,N'-di-p-tolyl-N-ferrocenoylurea **4** and N,N'-di-tert-butyl-N-ferrocenoylurea **5** were obtained by reaction of ferrocenecarboxylic acid **1** with N,N'-dicyclohexylcarbodiimide (DCC), N,N'-diisopropylcarbodiimide (DIC), N,N'-di-tert-butylcarbodiimide **10** and N,N'-di-tert-butylcarbodiimide **11**, respectively.



Hisako Hashimoto, Kazuyoshi Kurashima, Hiromi Tobita, Hiroshi Ogino

J. Organomet. Chem. 689 (2004) 1481

The phosphido-bridged unsymmetrical diiron complex $(\eta^5-C_5Me_5)Fe_2(CO)_4(\mu-CO)(\mu-PPh_2)$ (1) was prepared by a new method. The reactions of 1 with various terminal alkynes $RC\equiv CH$ (R = 'Bu, H, CO_2Me , Ph) afforded complexes containing a ketoalkenyl or phosphinoketoalkenyl ligand on incorporating one or two molecules of alkynes and a carbonyl group as a result of C–C bond and P–C bond coupling.

 $\begin{array}{c} OC)_{3}Fe & Fe \\ Ph \\ Ph \\ 1 \\ R = H, CO_{2}Me, etc. \end{array}$

Craig Anderson, Margarita Crespo

J. Organomet. Chem. 689 (2004) 1496

Cyclometallated platinum complexes with heterocyclic ligands

The reactions of $[Pt_2Me_4(\mu-SMe_2)_2]$ with imine ligands that contain furane rings gave orthometallated platinum (II) complexes. The oxidative addition reactions of the orthometallated complexes with methyl iodide as well as the complexes' reactions with triphenylphosphine are also reported.



Xianmiao Qian, Jiling Huang, Yanlong Qian

J. Organomet. Chem. 689 (2004) 1503

Synthesis of new substituted cyclopentadienyl titanium monomethoxydifluorides with BF₃·OEt₂ as fluorinating reagent and their use in syndiotactic polymerization of styrene Six new substituted cyclopentadienyl titanium monomethoxydifluoride complexes $RCpTiF_2(OMe)$ (R=H (3a), Me (3b), ⁱPr (3c), Me₃Si (3d), allyl (3e), PhCH₂ (3f)) were prepared. When activated with methylaluminoxane (MAO), they can catalyze the syndiotactic polymerization of styrene. The obtained polymer exhibits higher Mw and melting point than those by RCpTi(OMe)₃, and the syndiotacticity is in the range 92.4– 97.6%. $\begin{array}{ccc} \text{RCpTiCl}_3 & \underbrace{\text{MeOH/NEt}_3}_{\text{ether}} & \text{RCpTi(OMe)}_3 & \underbrace{\text{BF}_3 \ i \ OEt_2}_{\text{ether}} & \text{RCpTiF}_2(OMe) \end{array}$

MAO styrene syndiotactic styrene

R=H (3a), Me (3b), iPr (3c), Me₃Si (3d), allyl(3e), PhCH₂ (3f)

Michael J. Sheehy, John F. Gallagher, Mashita Yamashita, Yoshiteru Ida, Jennifer White-Colangelo, Jeremi Johnson, Ron Orlando, Peter T.M. Kenny

J. Organomet. Chem. 689 (2004) 1511

Synthesis and structural characterisation of redox-responsive *N*-ferrocenoyl amino acid esters; the X-ray crystal structure of *N*-ferrocenoyl alanine methyl ester; electrochemical anion recognition and ¹H NMR complexation studies

N-Ferrocenoyl amino acid ester derivatives were prepared by coupling ferrocene carboxylic acid with the appropriate amino acid esters using the 1,3-dicyclohexylcarbodiimide (DCC), 1-hydroxybenzotriazole (HOBt) protocol. The electrochemical anion sensing behaviour of the derivatives with several anions is described, together with 1H NMR anion complexation studies. The X-ray single crystal structure of *N*-ferrocenoyl-L-alanine methyl ester has been determined.



Barbara Soro, Sergio Stoccoro, Maria Agostina Cinellu, Giovanni Minghetti, Antonio Zucca, Amaia Bastero, Carmen Claver

J. Organomet. Chem. 689 (2004) 1521

Effect of 5-Me substituent(s) on the catalytic activity of palladium(II) 2,2'-bipyridine complexes in CO/4-*tert*-butylstyrene copolymerization

The coordination of two 5-substituted-2,2'bipyridines L (L¹ = 5-methyl-2,2'-bipy, L² = 5,5'-dimethyl-2,2'-bipyridine) to palladium has been studied. The neutral complexes [Pd(L)Cl₂] and [Pd(L)(Me)Cl], and the cationic species [Pd(L)₂][BAr'₄]₂ and [Pd(L)(Me)(NCMe)][BAr'₄] (Ar' = 3,5-(CF₃)₂-C₆H₃), have been isolated and characterized. The activity of the new complexes as catalytic precursors in the CO/4-*tert*-butylstyrene copolymerization has been investigated.



Claude Grison, Antoine Thomas, Frédéric Coutrot, Philippe Coutrot

J. Organomet. Chem. 689 (2004) 1530

Lithiated anions derived from (alkenyl)pentamethyl phosphoric triamides: an accurate study of the carbanion formation mechanism A reaction between the ambident carbanion formed and the starting enephosphoramide occurred via a reversible α -reprotonation and a not reversible γ -reprotonation. A such autocatalytic process led partially to the transposed allylphosphoramid isomer. Adapted experimental conditions avoided the autocatalytic process and allowed the preparation of the lithiated anions in good yields.



Joji Ohshita, Toshiyuki Iida, Masaru Ikeda, Taisuke Uemura, Nobuaki Ohta, Atsutaka Kunai

J. Organomet. Chem. 689 (2004) 1540

Synthesis of poly{[bis(diethynylphenyl)silylene]phenylene}s with highly heatresistant properties and an application to conducting materials Poly {[bis(3,5-diethynylphenyl)silylene]-pphenylene} whose TGA showed extremely high heat-resistance in N₂ (Td₅ = 791 °C, weight loss at 1000 °C = 6%), was prepared. When a polymer film on a quartz plate was heated at 1200 °C, a conducting film (9 S/cm) was obtained. H (Si-)n H

Michael Veith, Andreas Rammo, Christian Kirsch, Lucie Khemtémourian, Dominique Agustin

J. Organomet. Chem. 689 (2004) 1546

Tetraarystannanes $Sn[C_6H_4-R]_4$ carrying functional organic groups in *para* position were synthesised. All compounds (3–8) were characterised by spectroscopic means (heteronuclear NMR) or by X-ray structure determination (3). ¹¹⁹Sn NMR spectroscopy has been evaluated as a labelling tool by docking the tin moiety to amino acids.

Jaisheila Rajput, John R. Moss, Alan T. Hutton, Denver T. Hendricks, Catherine E. Arendse, Christopher Imrie

J. Organomet. Chem. 689 (2004) 1553

Synthesis, characterization and cytotoxicity of some palladium(II), platinum(II), rhodium(I) and iridium(I) complexes of ferrocenylpyridine and related ligands. Crystal and molecular structure of *trans*dichlorobis(3-ferrocenylpyridine)palladium(II) The preparation of a series of ferrocenyl nitrogen donor ligands including ferrocenylpyridines, ferrocenylphenylpyridines and 1,1'-di(2-pyridyl)-ferrocene is described. Coordination studies of the substituted pyridines were carried out with the platinum group metals and the cytotoxicity of a selection of the complexes was investigated.

Shariff E. Kabir, Noorjahan Begum, Md. Manjur Hassan, Md. Iqbal Hyder, Hani Nur, Dennis W. Bennett, Tasneem A. Siddiquee, Daniel T. Haworth, Edward Rosenberg

J. Organomet. Chem. 689 (2004) 1569

Addition of diphenyl diselenide (PhSeSePh) to the clusters $[Os_3(CO)_{10}(\mu$ -dppm)] and $[(\mu$ -H)Os_3(CO)_8{Ph_2PCH_2P(Ph)C_6H_4}]: X-ray structures of $[Os_2(CO)_4(\mu$ -SePh)_2(μ -dppm)], $[Os_3(CO)_6(\mu$ -CO)(μ -Se)_2(μ -C₆H_4)(μ -dppm)] and two isomers of $[Os_3(CO)_8(\mu$ -SePh)_2(μ -dppm)]

The reactions of PhSeSePh with the electron precise cluster $[Os_3(CO)_{10}(\mu$ -dppm)] (4) and with the electronically unsaturated $[(\mu$ -H)Os_3(CO)_8{Ph_2PCH_2P(Ph)C_6H_4}] (11) have been studied. In both cases a related series of compounds are obtained that illustrate the stepwise processes leading to Se–Se and Se–C bond cleavage. As previously noted the dppm ligand helps to maintain cluster integrity and gives a clearer picture of the activation of chalcogenide compounds at trinuclear sites.









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Zbigniew Grobelny, Andrzej Stolarzewicz, Adalbert Maercker, Stanisław Krompiec, Janusz Kasperczyk, Józef Rzepa

J. Organomet. Chem. 689 (2004) 1580

Decomposition of vinyl ethers by alkalide $K^-,\ K^+(15\mbox{-}crown\mbox{-}5)_2$ via organopotassium intermediates

The structure of vinyl ethers determines the direction of the C–O bond cleavage by alkalide K⁻, K⁺(15-crown-5)₂ **1**. Highly reactive organopotassium compounds are intermediate products formed in the system containing phenyl vinyl ether, butyl vinyl ether, ethylene glycol butyl vinyl ether or triethylene glycol methyl vinyl ether.



Youngjin Kang, Taegweon Lee, Chul Baik, Soon W. Lee, Sang Ook Kang, Teruo Shinmyozu, Jaejung Ko

J. Organomet. Chem. 689 (2004) 1586

Synthesis and reactivity of $[(\eta^6-[3_2]-(1,3)cyclophane)Mn(CO)_3][BF_4]$

The manganese cyclophane complex, $[(\eta^{6}-[3_2](1,3)cyclophane)Mn(CO)_3][BF_4]$ **2**, was prepared by the reaction of $[[3_2](1,3)cyclophane]$ **1** with Mn(CO)₅FBF₃.



Ka-Lok Cheng, Hung-Wing Li, Dennis K.P. Ng

J. Organomet. Chem. 689 (2004) 1593

Synthesis and characterization of *meso*-ferrocenylethynyl 5,15-diphenylporphyrins

A series of four *meso*-ferrocenylethynyl (5,15-diphenylporphyrinato)nickel(II) derivatives have been synthesized by Sonogashira coupling reactions and characterized by spectroscopic methods and X-ray diffraction analysis (for compound **11**). The studies show that although the ferrocenylethynyl group can extend the π system of the central porphyrin core, the cyclopentadienyl rings of ferrocene are almost orthogonal to the porphyrin ring. This hinders ferrocene serving as a good electron donor in these systems.



Jordi García-Antón, René Mathieu, Noël Lugan, Josefina Pons Picart, Josep Ros

J. Organomet. Chem. 689 (2004) 1599

Coordination properties of N_2S (1,5-bis(3,5-dimethyl-1-pyrazolyl)-3-thiapentane) or N_2S_2 (1,8-bis(3,5-dimethyl-1-pyrazolyl)-3,6-dithiaoctane or 1,2-bis[3-(3,5-dimethyl-1-pyrazolyl)-2-thiapropyl]benzene) donor ligands toward Rh(I)

Rh(I) complexes of NSN ligand 1,5-bis(3,5dimethyl-1-pyrazolyl)-3-thiapentane (*bdtp*) have been synthesized and characterized and show hemilabile properties. However, the Rh(I) complexes with NSSN ligands 2-bis[3-(3,5-dimethyl-1-pyrazolyl)-2-thiapropyl]benzene (*bddf*) and 1,8-bis(3,5-dimethyl-1-pyrazolyl)-3,6-dithiaoctane (*bddo*) do not show hemilabile properties. Variable temperature NMR experiments and X-ray crystal structures of [Rh(CO)(bdtp)](CF₃SO₃), [Rh₂(cod)₂(bddo)](BF₄)₂ and [Rh₂(CO)₄-(bddo)](BF₄)₂.



Clifton E.F. Rickard, Warren R. Roper, Alex Williamson, L. James Wright

J. Organomet. Chem. 689 (2004) 1609

Exchange of boryl ligand substituents in $Os[B(OEt)_2]Cl(CO)(PPh_3)_2$

The OEt groups in the boryl ligand of Os[B(OEt)₂]Cl(CO)(PPh₃)₂ undergo exchange reactions with 1,2-ethanediol and 1,3-propanediol in the presence of Me₃SiCl. Crystal structure determinations of the resulting products are revealing of the nature of the Os–B bond.



Christopher Imrie, Vincent O. Nyamori, Thomas I.A. Gerber

J. Organomet. Chem. 689 (2004) 1617

Solvent-free synthesis of ferrocenylimines

A simple, convenient and environmentally sound method for the synthesis of ferrocenylimines is described involving the solventfree mixing of substituted anilines and ferrocenylaldehydes. The yields obtained were very high and purification was achieved by cold recrystallization from methanol.



Jiří Pinkas, Michal Horáček, Jiří Kubišta, Róbert Gyepes, Ivana Císařová, Nadine Pirio, Philippe Meunier, Karel Mach

J. Organomet. Chem. 689 (2004) 1623

Titanium and zirconium complexes containing the new 2,3-dimethyl-1,4diphenylcyclopentadienyl ligand. Synthesis, characterization and polymerization behavior New titanium and zirconium metallocene dichlorides comprising 2,3-dimethyl-1,4-diphenylcyclopentadienyl ligand have been prepared, characterized and in combination with methylalumoxane tested for polymerization of ethene. While the titanium complex 4 was inactive the zirconium complexes 5 and 6 showed moderate and high activity, respectively.



Guo-Cang Wang, Jian Xiao, Lin Yu, Jin-Shan Li, Jing-Rong Cui, Rui-Qing Wang, Fu-Xiang Ran

J. Organomet. Chem. 689 (2004) 1631

Synthesis, crystal structures and in vitro antitumor activities of some arylantimony derivatives of analogues of demethylcantharimide A series of novel arylantimony derivatives of analogues of demethylcantharimide with the formulae $Ar_nSbL_{(5-n)}$ and $Ar_nSbL'_{(5-n)}$ were synthesized. The crystal structures of $(C_6H_5)_4SbL$, $(4-CH_3C_6H_4)_3SbL_2$ and $(3-CH_3C_6H_4)_3SbL'_2$ were determined by X-ray diffraction. The in vitro antitumor activities of all compounds against six cancer cells are reported.



Gabriele Albertin, Stefano Antoniutti, Sonia Pizzol

J. Organomet. Chem. 689 (2004) 1639

Preparation and reactivity of osmium(II) hydride complexes with phosphites and polypyridyls

Chloro-complexes $[OsCl(N-N)P_3]BPh_4$ (1,2) [N-N = 2,2'-bipyridine (bpy) and 1,10-phenanthroline (phen); $P = P(OEt)_3$ and $PPh(OEt)_2]$ were prepared by allowing $OsCl_4(N-N)$ to react with zinc dust in the presence of phosphites. Treatment of the chloro-complexes 1,2 with NaBH₄ yielded, in the case of bpy, the hydride [OsH $(bpy)P_3]BPh_4$ (4) derivatives.



Cameron Jones, Thomas C. Williams

J. Organomet. Chem. 689 (2004) 1648

Reactions of 2-arsa- and 2-stiba-1,3-dionato lithium complexes with group 4–7 metal halides

The reactions of 2-arsa- and 2-stiba-1,3-dionato lithium complexes with group 4–7 metals have been investigated. These have given rise to complexes in which the arsadionate, $[OC(Bu')AsC(Bu')CO]^-$, acts in either an η^2 -O,O- or η^1 -As-ligating mode. Several metal mediated arsadionate decomposition reactions are also reported to give a range of products, including the known arsaalkyne tetramer, $As_4C_4Bu'_4$. The X-ray crystal structures of six of the prepared complexes are discussed.



Yannick Ortin, Kirsten Ahrenstorf, Paul O'Donohue, Daniel Foede, Helge Müller-Bunz, Patrick McArdle, Anthony R. Manning, Michael J. McGlinchey

J. Organomet. Chem. 689 (2004) 1657

An NMR study of the rotational barriers in cobalt-stabilized carbocations: X-ray crystal structures of $(\eta^4-C_4Ph_4)Co-(\eta^5-C_5H_4R)$, where R is CH₃C=O, CH=O, CH(^tBu)OH

Protonation of the secondary alcohols $(\eta^4-C_4Ph_4)Co(\eta^5-C_5H_4-CH(R)OH)$, where R = tert-butyl or phenyl, at -80 °C furnishes the deep purple, cobalt-stabilized cations which exhibit restricted rotation about the external C₅H₄-CHR⁺ linkage on the NMR time-scale. These data indicate a *minimum* value for the barrier to rotation of 15 kcalmol⁻¹, indicating a considerable degree of C-C double bond character.



Kazuyasu Tani, Hidehiro Sakurai, Hiroyuki Fujii, Toshikazu Hirao

J. Organomet. Chem. 689 (2004) 1665

Synthesis of Re(I) complexes bearing tridentate 2,6-bis(7'-azaindolyl)phenyl ligand with green emission properties

The Re(I) complexes bearing 2,6-bis(7'azaindolyl)phenyl group as a tridentate ligand were synthesized. The structures of the complexes were confirmed by X-ray crystallography. Green emission ($\lambda_{em} = 510$ nm) was observed in THF solution at room temperature, which is considered to be attributable to MLCT (dz²(Re) $\rightarrow \pi^*$ (7'azaindolyl group)) transition.



Chunlin Ma, Yinfeng Han, Rufen Zhang

J. Organomet. Chem. 689 (2004) 1675

Synthesis, characterizations and crystal structures of di-*n*-butyltin(IV) complexes with heteroatomic (N, O or S) acid

Two types of di-*n*-butyltin(IV) complexes $\{l^n Bu_2 Sn(O_2 CR)]_2 O\}_2 \cdot L$ **1–4** and ^{*n*}Bu_2 Sn(O_2 CR)_2 Y **5–8** (when L = H₂O, R = 2-pyrazine **1**; L = 0, R = 2-pyrimidylthiomethylene **2**, 1-naphthoxymethylene **3**; L = C₆H₆, R = 2-naphthoxymethylene **4**; when Y = H₂O, R = 2-pyrazine **5**; Y = 0, R = 2-pyrimidylthiomethylene **6**, 1-naphthoxymethylene **7**, 2-naphthoxymethylene **8**) have been prepared in 1:1 or 1:2 molar ratios by reactions of di-*n*-butyltin oxide with the acids.

 $4^{n}Bu_{2}SnO + 4RCOOH \xrightarrow{C_{6}H_{6}} {[}^{n}Bu_{2}Sn(O_{2}CR)]_{2}O_{2}L$ 1-4



Jarosław Lewkowski, Monika Rzeźniczak, Romuald Skowroński

J. Organomet. Chem. 689 (2004) 1684

 α -(Ferrocenyl)-aminomethanephosphonous acids. First synthesis and preparation of their esters with cholesterol and adenosine

The series of aminophosphonous acids bearing the ferrocenyl moiety was obtained by the addition of hypophosphorous acid to Schiff bases of ferrocenecarboxaldehyde. They were subsequently condensed with cholesterol and adenosine to form their cholesteryl and adenosinyl esters. The concurrence reaction of DCC with an amine nitrogen atom was observed.



Corry Decker, William Henderson, Brian K. Nicholson

J. Organomet. Chem. 689 (2004) 1691

Reactions of isonitriles with $[Fe_3(CO)_{12}]$ and $[Ru_3(CO)_{12}]$ monitored by electrospray mass spectrometry: structural characterisation of $[Fe_3(CO)_{10}(CNPh)_2]$ and $[Ru_4(CO)_{11}(\mu_3-\eta^2-CNPh)_2(CNPh)]$

The substitution reactions of $[M_3(CO)_{12}]$ by RNC have been investigated by electrospray mass spectrometry showing up to six COs can be replaced. $[Fe_3(CO)_{10}(CNPh)_2]$ has both PhNC axially on the same Fe atom, and $[Ru_4(CO)_{11}(\mu_3-\eta^2-CNPh)_2(CNPh)]$ has a spiked-triangular cluster core with two PhNC ligands in an unusual coordination mode.



Maria Jaworska, Zofia Stasicka

J. Organomet. Chem. 689 (2004) 1702

Structure and UV-Vis spectroscopy of nitrosylthiolatoferrate mononuclear complexes

Density functional calculations for the $[(RS)_xFe(NO)_{4-x}]^-$ (R = CH₃) compounds are carried out using the DFT method with the B3LYP functional.



Mingzhong Cai, Wenyan Hao, Hong Zhao, Jun Xia

J. Organomet. Chem. 689 (2004) 1714

Stereoselective synthesis of (E)-αaryltellurenylvinylsilanes via hydromagnesiation reaction of alkynylsilanes

(E)- α -Aryltellurenylvinylsilanes 4 have been synthesized stereoselectively via the hydromagnesiation of alkynylsilanes 1, followed by the reaction with aryltellurenyl iodides 3. (E)-\alpha-Aryltellurenylvinylsilanes can undergo the cross coupling reaction with Grignard reagents in the presence of Ni(PPh₃)₂Cl₂ catalyst to afford (Z)-1,2-disubstituted vinylsilanes in good yields.



Note

Davood Azarifar, Martyn P. Coles, Salima M. El-Hamruni, Colin Eaborn, Peter B. Hitchcock, J. David Smith

J. Organomet. Chem. 689 (2004) 1718

An alkylzinc bromide and a lithium alkyldibromozincate containing tris(organosilyl)methyl groups

Reaction between the compounds $LiC(SiMe_3)_2(SiMe_2NMeR')$ (R' = Me or Ph) and a molar equivalent of ZnBr2 gives an alkylzinc bromide or a lithium alkyldibromozincate, depending on the basicity of the amino substituent.



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