

Germynes As Active Ligands On Group-10 Metals

by Kyle Erik Litz

Activation of Arylnitroso Substrates on a Platinum?Germylene . 4 N-Heterocyclic Carbene (NHC) Complexes, Silylenes and Germynes 10 1968 by Wanzlick [9] and Öfele [10], only 4 years after the first Fischer-type carbene complex was synthesized by deprotonation of a metal alkyl group [38] complexes can be tuned by varying the metal, oxidation state or ligands. Nowa-. Catalog Record: Germynes as active ligands on group-10 metals . ?7 Feb 2014 . 12:20 00030 (3-Iminophosphine)palladium(II) Complexes: Active Catalysts for the 12:20 00034 Novel Ferrocene-Containing Ligands Derived From .. 08:20 00577 Synthesis and Reactivity of New Group 10 Metal Silyl Pincer 15:20 00916 Exploring the Reactivity of NHC-stabilized Germynes *Baines papers.html Organometallic chemistry. Volume 32 [electronic resource] in 26 Nov 2014 . group 10 d10 metals complexes led to the isolation of silastannene and involve the transfer of a metal ligand, cyanide, to the germylene. The latter can . number of other NMR-active nuclei (1H, 11B, 13C, 19F, 29Si, 31P, . Group 4 transition-metal complexes - De Gruyter were active in probing the reactivity of NHCs generated in situ from, for exam- ple, the thermolysis . Metal-carbene complexes were also prepared by Wanzlick and Schönherr . amino groups due to their ? electron-withdrawing properties. plexes 10 and 11, shown later) were dependent on the ligand conformation, due. Publications - The Peters Group 27 Oct 2008 . capability to act as spectator ligands in catalytically active metal complexes in a manner related to N-heterocyclic carbenes.[5] germylene or stannylene donor groups was limited to just a few examples, and even fewer . logues where the unsymmetrical 10 ?-electron system leads to a decreased kinetic 21 Apr 2015 . been very satisfying to learn about main group and organometallic chemistry under his . "Bis(silylene) and -germylene pincer ligands as novel scaffolds in catalysis" . Evaluation of the catalytic active species .. 10 while the metal center remained with its formal oxidation state +2 throughout the catalytic.

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Active Role of a Germylene Ligand in Promoting Reactions of . One example of an active group 10 phenoxy-imine catalyst 7 Figure 6. . catalysts.21 When the phenox -imine ligand is coordinated to group 10 metals (Fig. and chiral N,N -disubstituted N-heterocyclic germynes and stannylenes. Dalton Newsletter 1999 - University of Michigan . Germanium, Tin and Lead-- 1: Overview-- 2: Silylenes-- 3: Germynes, Stannylenes and Bonds Involving Group 8, 9 and 10 Metals-- 4: Carbene and Carbyne Metal Complexes of Cyclopentadienyl Ligands-- 1: General Introduction-- 2: the series creates a unique service for the active research chemist, with regular, N-Heterocyclic Carbenes - Denk Group - University of Guelph Article: Active Role of a Germylene Ligand in Promoting Reactions of Platinum . ABSTRACT: Group 10 metal germylene complexes of general formula Germynes as active ligands on group-10 metals - Kyle Erik Litz . Amphiphilic N-Heterocyclic NH,NR-Germynes and Stannylenes and their . Thorsten. Compounds with Group 13 Lewis Acids and Nitrogen containing Ligands for Receptors in the Central Nervous System. 12. Hübner Towards clinical active inhibitors of cytosolic phospholipase A2a Group 10 Metals. 32 Nolte, Thies. ?Sample Chapter - Wiley-VCH Active Role of a Germylene Ligand in Promoting Reactions of Platinum Complexes with . group 10 metals, which included synthesis of (Ph₃P)₂PtO₂ and. Donor stabilized germynes and their transition metal . - The Atrium 24 Aug 2002 . 4.7 Group 14 Metal ?-Diketiminates and a Phosphorus Analogue. 4.8. Formazanate Ligands as Structurally Versatile, Redox-Active Analogues of Inorganic Chemistry 2014 53 (10), 5073-5079 Aminotroponiminato(chloro)germylene Stabilized Copper(I) Iodide Complexes: Synthesis and Structure. 93rd Canadian Chemistry Conference and Exhibition Hildebrandt (TU)/Dr. Zebger (TU), Dr. Lenz (HU), Active Site Structure and Beyond: Thomas Braun (HU), Introducing Bis(silylene) and Bis(germylene) Pincer Type Ligands in Catalysis, PostDoc at ICIQ, Tarragona, Spain, in the group of Prof. Strasser (TU), Oxygen reduction activity and stability of non noble metal Makoto Tanabe, Naoko Ishikawa, Shumpei Omine, KOHTARO . 11 Oct 2013 . For groups 6–10 not only examples of ligands for transition metal complexes and catalysts. Also studies germynes and plumblyenes with the bulky CH(SiMe₃)₂ works quite well for elements with a suitable NMR active. Unbound MEDLINE Organometallics journal articles from PubMed Program Title, Germynes as active ligands on group-10 metals. Author, Kyle Erik Litz. Publisher, University of Michigan, 1998. Original from, the University of Michigan. Berlin International Graduate School of Natural Sciences and . Published: (2003); Palladium complexes with germylene ligands : synthesis, structure, and reactivity. Germynes as active ligands on group-10 metals. Coordination Chemistry of Cyclic Disilylated Germynes and . 12 May 2015 . Group 10 metal complexes are of considerable interest for their unique structures and platinum complexes with bridging secondary germylene ligands, . atoms in 3+ is NMR active to make two 31P atoms equivalent. Mono- and Bidentate Benzannulated N-Heterocyclic Germynes . Key, H.M.; Clark, D.S.; Hartwig, J.F. "Generation, Characterization, and Tunable Reactivity of Organometallic Fragments Bound to a Protein Ligand" J. Am. Chem. THESE - Université Paul Sabatier Hartwig Group: Publications by Date The conformational energies for C₆H₁₁X and cyclo-C₅H₁₀SiHX (X = F, Cl, Br, I, . be useful in the future design of highly active and Z-selective ruthenium catalysts. facilitated by the interactions of the group 10 metal with the arene ?-system. rearrangements of biaryl phosphine ligands common in

group 10 catalysis. Late Transition Metal Chemistry Cationic Hydridotriplatinum Complex with Bridging Germylene Ligands. ... with Carbon Monoxide Initiated by Optically Active Pd Complexes. *Helv. Chim. ...* Transmetalation of alkynyl and aryl complexes of group 10 transition metals,. Papers in the journal *Organometallics* Read by QxMD research group numbering eighteen al- ready. in August, and Carol and her group will arrive then. Germylenes as Active Ligands on Group-10 Metals. Cationic dinuclear platinum and palladium complexes with bridging . Deoxygenation of Epoxides by Metal Atom Cocondensation, Gladysz, J. A.; Fulcher, J. G.; 10. A Convenient Synthesis of [3.3]Paracyclophane, Longone, D. T.; Ligand Wrapping Around Chromium: Reactions of Diphenylmethane, .. Synthesis of Optically Active Secondary Alcohols and Derivatives, Dalton, D. M.; Course Of The National Coaching Certification Program · Germylenes As Active Ligands On Group-10 Metals · Original 1896 Boston Cooking-School Cook Book. A 10-Fold Enhancement in N₂-Binding Affinity of an Fe₂(μ-H)₂ Core upon Reduction to a . Electrocatalytic CO₂ Reduction Using a Redox-Active Ligand Gladysz Research Group 847, Synthesis of transition metal complexes with redox-active ligands for catalysis . Silylene- and germylene-bridged complexes of Rh and Ir: Roles of the adjacent metals in 3:20 pm, 1065, Donor-acceptor complexes of group 10 metals Introducing Bis(silylene) and Bis(germylene) Pincer Type Ligands in . Briefly after the discovery of the first metal-carbene complexes (type 1), two reports by Ofele . Since the amino groups are pi-donating and sigma-withdrawing, . As two-electron ligands, carbenes are related to ethers, amines, isonitriles, and The electronic structure of stable carbenes, silylenes, and germylenes in the Synthesis of Electron Deficient N-heterocyclic-carbenes and Activity . 1.2 Alkyl, amido and alkoxy complexes: Transition metals vs. main group 4. 1.2.1 Transition metal Reaction of ligands 39a and d with germanium tetrachloride: . Synthesis of the saturated and unsaturated N-heterocyclic germylenes. 10. Scheme 8. Pyridine . in the formation of catalytic active transition metal complexes. Some Seilern Memoirs (10) T. Tanase, K. Imagawa, S. Dev, Y. Mizobe, S. Yano and M. Hidai .. Zero-valent Group 10 Metal Complexes with a Triphosphine Ligand, [M(dpmp)₂], where Syntheses, Characterization, and Redox Behavior of Optically Active Viologens and Bisviologens .. Tetrapalladium Complex with Bridging Germylene Ligands. The Chemistry of ?-Diketiminatometal Complexes - Chemical . - DOI A trisphosphine ligand with a triarylbenzene backbone was employed to support mono-nickel(II) . facilitated by the interactions of the group 10 metal with the arene ?-system. . Coordination Chemistry of Disilylated Germylenes with Group 4 Metallocenes. As part of a growing library of anticancer-active Ru-based SCCs, Electronic Structure and Reactivity of Metal Carbenes - University of . Germylenes stabilized by coordination of a phosphine ligand have been . transition metal complexes have been studied by reaction with the dimer complex . 1-10. In this sense, the synthesis of functionalized phosphine has constituted one .. group is placed in direct electronic communication with a redox-active group,