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Contents

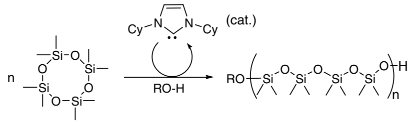
Communication

Marta Rodriguez, Sebastien Marrot, Tsuyoshi Kato, Sébastien Stérin, Etienne Fleury, Antoine Baceiredo

J. Organomet. Chem. 692 (2007) 705

Catalytic activity of N-heterocyclic carbenes in ring opening polymerization of cyclic siloxanes

Taking advantage of the strong nucleophilic properties of NHC 1a, the efficient catalytic (anionic-like) ROP of cyclotetrasiloxane D_4 was achieved in mild conditions. Of particular interest, with this NHC/ROH system the molecular weight of the silicone polymers can be regulated simply by varying the quantity of neutral alcohol initiator.



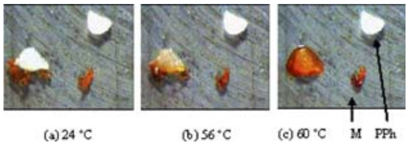
Review

Muhammad D. Bala, Neil J. Coville

J. Organomet. Chem. 692 (2007) 709

Organometallic chemistry in the melt phase

In this review organometallic chemistry reactions in the *melt phase* are described. Examples from the literature highlight procedures used to generate melts and results that have been obtained in this area of synthesis are described.



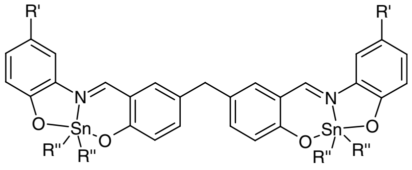
Regular Papers

Victor Barba, Edgar Vega, Rolando Luna, Herbert Höpfl, Hiram I. Beltrán, Luis S. Zamudio-Rivera

J. Organomet. Chem. 692 (2007) 731

Structural and conformational analysis of neutral dinuclear diorganotin(IV) complexes derived from hexadentate Schiff base ligands

The structural and conformational analysis of seven dinuclear diorganotin (IV) compounds is reported, which have been prepared from hexadentate Schiff base ligands having a twofold ONO donor system. The spectroscopic analyses showed that in solution the compounds have a distorted trigonal bipyramidal coordination geometry for the tin atoms and are apparently involved in a fast equilibrium between two molecular conformations. In the solid state a distorted octahedral geometry can be favored through Sn···O intermolecular interactions and a molecular conformation that is intermediate between the *cis*- and *trans*-isomer, having mirror and C_2-symmetry, respectively.



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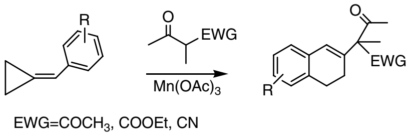
Wei-Jun Fu, Xian Huang

J. Organomet. Chem. 692 (2007) 740

Mn(III)-based oxidative tandem free-radical cyclizations of methylenecyclopropanes with substituted dicarbonyl compounds

Manganese(III) acetate-mediated tandem radical cyclization reactions of methylenecyclopropanes with methyl substituted dicarbonyl compounds in acetic acid give dihydronaphthalene derivatives in moderate yields under mild conditions.

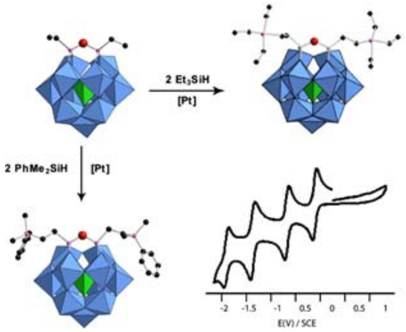


Dominique Agustin, Jérôme Dallery,
Cristina Coelho, Anna Proust, René Thouvenot

J. Organomet. Chem. 692 (2007) 746

Synthesis, characterization and study of the chromogenic properties of the hybrid polyoxometalates $[PW_{11}O_{39}(SiR)_2O]^{3-}$ (R = Et, $(CH_2)_nCH{=}CH_2$ (n = 0, 1, 4), $CH_2CH_2SiEt_3$, $CH_2CH_2SiMe_2Ph$)

The hydrosilylation reactions of the terminal vinylic functions of $[PW_{11}O_{39}(Si–CH{=}CH_2)_2O]^{3-}$ towards Et_3SiH and $PhSiMe_2H$ have been achieved. These compounds are the first examples of hydrosilylation on a hybrid tungstophosphate core. The chromogenic behaviour of these species has been demonstrated in solution.

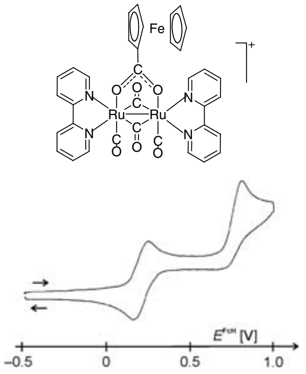


Mathieu Auzias, Bruno Therrien,
Georg Süss-Fink, Petr Štěpnička, Jiří Ludvík

J. Organomet. Chem. 692 (2007) 755

Synthesis, structure and electrochemistry of cationic diruthenium complexes of the type $[(N{\cap}N)_2Ru_2(CO)_2(\mu\text{-}CO)_2(\mu\text{-}OOCFc)]^+$ containing a ferrocenecarboxylato bridge and two chelating aromatic diimine ligands

The cationic diruthenium complexes $[(N{\cap}N)_2Ru_2(CO)_2(\mu\text{-}CO)_2(\mu\text{-}OOCFc)]^+$ containing a ferrocenecarboxylato bridge and diimine chelates have been synthesised from $Ru_2(CO)_4(\mu\text{-}OOCFc)_2(py)_2$ and the corresponding aromatic diimine N∩N. Cyclovoltammetry of the hexafluorophosphate salts in dichloromethane shows a reversible oxidation of the ferrocenyl substituted followed by the irreversible oxidation of the diruthenium core.



Clarite Azerraf, Olga Grossman,
Dmitri Gelman

J. Organomet. Chem. 692 (2007) 761

Rigid *trans*-spanning triptycene-based ligands: How flexible they can be?

A series of transition metal complexes bearing the strongly triptycene-based ligand have been prepared and fully characterized. Their structural features and coordination preferences were studied and compared to the previously reported structurally related compounds.