

New coordination mode of bis(diphenylphosphine) methanide diselenide.

Synthesis and X-ray crystal structure of [(η^5 -C₅Me₅)Rh(η^3

(SePPh₂)₂CH₂)]ClO₄

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The dinuclear complexes [(η^5 -C₅Me₅)RhCl₂]₂ and [(η^6 -C₆Me₆)RuCl₂]₂ reacted with dppmSe₂

giving the cationic compounds [(η^5 -C₅Me₅)RhCl(η^2 (SePPh₂)₂CH₂)]⁺ (1) and [(η^6

C₆Me₆)RuCl(η^2 (SePPh₂)₂CH₂)]⁺ (2), which were isolated as perchlorate salts. Deprotonation

reactions of these compounds yielded the new complexes [(η^5 -C₅Me₅)Rh(η^3

(SePPh₂)₂CH₂)]ClO₄ (3) and [(η^6 -C₆Me₆)Ru(η^3 (SePPh₂)₂CH₂)]ClO₄ (4), respectively, in which

the anionic methanide diselenide ligand is acting as a tripod ligand, with a C,Se,Se⁻-donor set. The

structure of 3 has been determined by X-ray crystallography. © 1994.