Reactions of $(^{i}PrO)_3M{\equiv}M(O^{i}Pr)_3$ (M = Mo, W) with low-coordinate phosphorus compounds. Formation of the first four-membered planar metallacycles, containing an *M*≡*M* triple bond.

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Rok wydania

2011

Czasopismo

Dalton Transactions

Numer woluminu

40

Strony

4814-4817

DOI

10.1039/c1dt10099h

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

The low-coordinate phosphorus compounds $(Me_3Si)_2N–PNSiMe_3$, $(Me_3Si)_2N–P(S)N^{t}Bu$ and $(Me_3Si)_2N–P(NSiMe_3)_2$ react with $(^{i}PrO)_3MM(O^{i}Pr)_3$ (M = Mo, W) to form four- and five-membered metallacycles with intact endocyclic or exocyclic MM triple bonds. The first four-membered planar metallacycles, containing an MM triple bond were obtained in reaction with $(Me_3Si)_2N–PNSiMe_3$.

Adres publiczny

http://doi.org/ 10.1039/c1dt10099Hh

Strona internetowa wydawcy

https://www.rsc.org/