



Reaction of $N\equiv W(O^tBu)_3$ with $\sigma^3\lambda^5$ -phosphoranes. The [2 + 2] cycloaddition across the $W\equiv N$ triple bond results in the first representative of an inorganic four-membered metallacycle with conjugated endo- and exocyclic double bonds.

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The reactions of $N\equiv W(O^tBu)_3$ with the low-coordinate phosphorus compounds $(Me(3)Si)(2)NP(NSiMe(3))(2)$ (I) and $(Me(3)Si)(2)NPS(N^tBu)$ (II) were studied. Quantum chemical calculations were used to determine why Mo- and W-containing compounds with the same composition have different molecular structures.

Adres publiczny

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