



Reactivity of $[\text{WCl}(\text{SnCl}_3)(\text{CO})_3(\text{NCMe})_2]$ towards $^t\text{BuC}\equiv\text{CH}$: X-ray crystal structure of $[\text{WCl}(\text{CO})(^t\text{BuC}\equiv\text{CH})(\text{NCMe})(\text{PPh}_3)_2][\text{SnCl}_6]$.

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Streszczenie

In the reaction of $[\text{WCl}(\text{SnCl}_3)(\text{CO})_3(\text{NCMe})_2]$ with *tert*-butylacetylene the very labile bis(alkyne) complex $[\text{WCl}(\text{SnCl}_3)(\text{CO})(^t\text{BuC}\equiv\text{CH})_2(\text{NCMe})]$ has been observed as the major product by means of IR and NMR spectroscopy. The latter compound in reaction with two equivalents of PPh_3 in CH_2Cl_2 solution gives very poorly soluble purple crystals of the tungsten(II) cationic complex. The crystal structure of this compound consists of the discrete $[\text{SnCl}_6]^{2-}$ anion, two independent $[\text{WCl}(\text{CO})(^t\text{BuC}\equiv\text{CH})(\text{NCMe})(\text{PPh}_3)_2]^+$ cations and four MeCN (solvent) molecules. This is the first crystallographically characterized cationic chlorocarbonyl complex of tungsten(II) containing a terminal alkyne as ligand.

Słowa kluczowe

Crystal structures, Tungsten(II) complexes, Tin(IV) complexes,
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Adres publiczny

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