Intramolecularly Coordinated Heteroleptic Organostannylenes:

Amides, Phosphides, and Novel Transition Metal-substituted Derivatives

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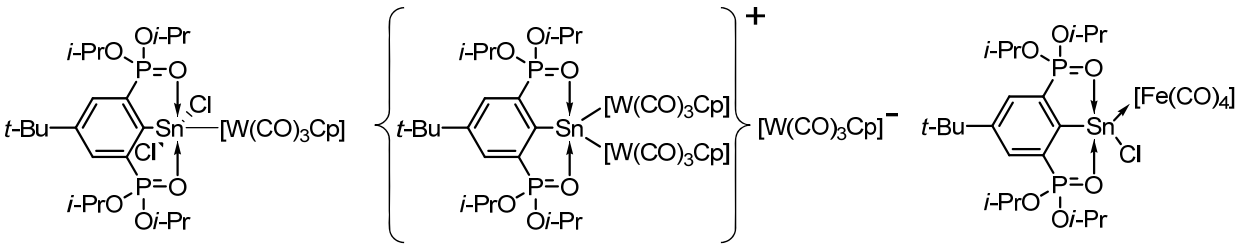
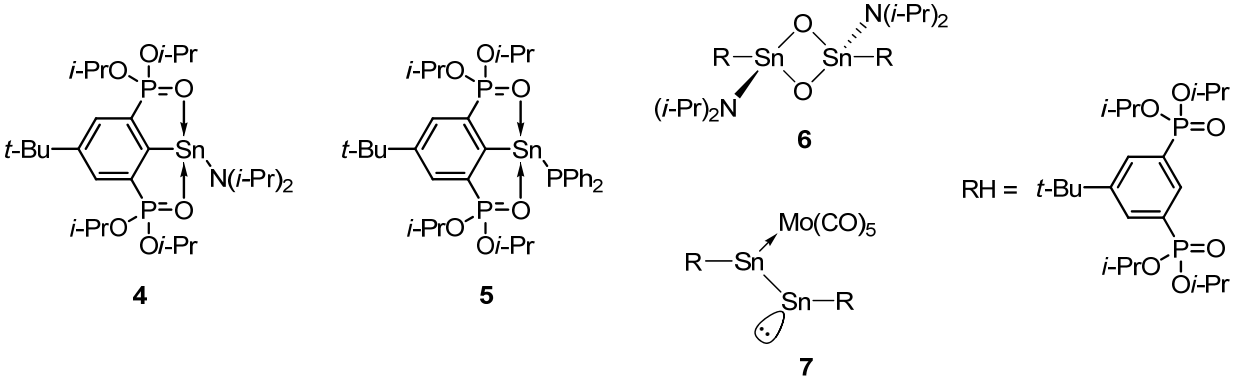
In course of ongoing systematic studies on the synthesis, structure and reactivity of heavy carbene analogues[1-3] and related derivatives[4] we present the novel transition metal-substituted compounds **1** - **3**. Most remarkably, compound **2** is the first example that contains a ditungsten-substituted organotin cation.



1 **2** **3**

We will also present the synthesis and structures of the organotin(II) amide **4** and its oxide **6**. The organotin(II) amide **4** can be used as starting material for the synthesis of a great variety of heteroleptic stannylenes as well as for the preparation of tin-element bonds such as in compounds **5** and **7**.



4 **5** **6** **7**

References:

[1] Henn, M.; Schürmann, M.; Mahieu, B.; Zanello, P.; Cinquantini, A.; Jurkschat, K. *J. Organom. Chem.* **2006**, *691*, 1560. [2] Deáky, V.; Schürmann, M.; Jurkschat, K. *Z. Anorg. Allg. Chem.* **2009**, *635*, 1380. [3] Jambor, R.; Kăsná, B.; Koller, S.G.; Strohmann, C.; Schürmann, M.; Jurkschat, K. Eur. *J. Inorg. Chem.* **2010**, 902. [4] Jambor, R.; Kăsná, B.; Kirschner, K.N.; Schürmann, M.; Jurkschat, K. *Angew. Chem. Int. Ed.* **2008**, *47*, 1650.