

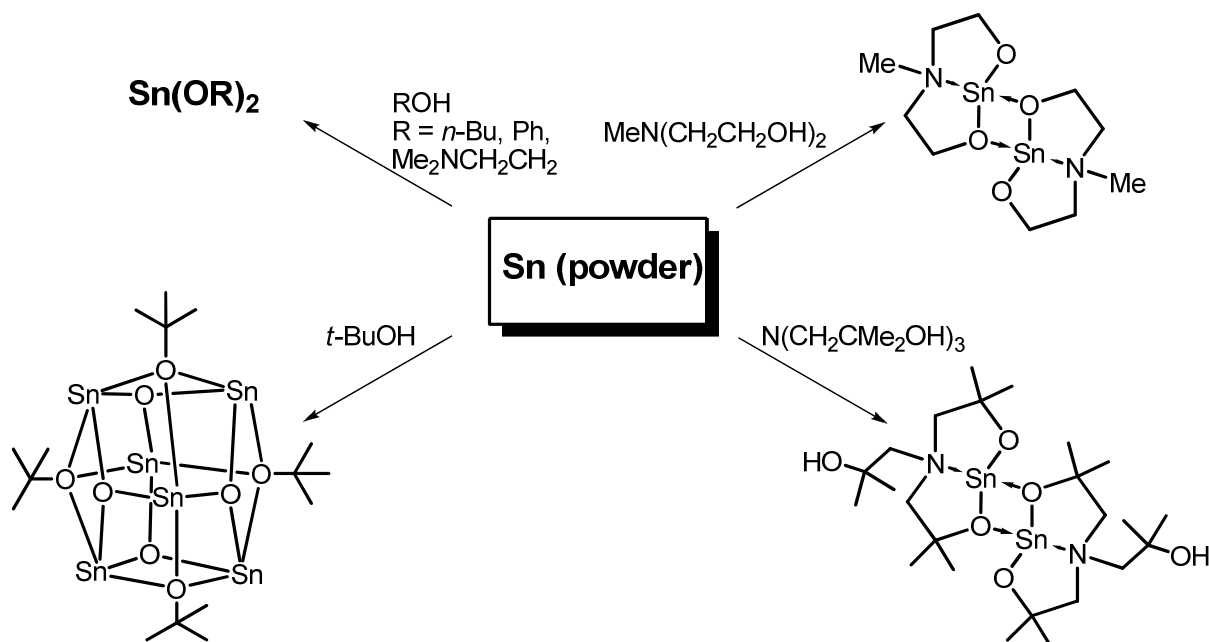
On the Reaction of Elemental Tin with Alcohols: A Convenient Approach to Tin(II) and Tin(IV) Alkoxides and Related Tin-oxo-Clusters

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Recently, we found that *inorganic, non-toxic* ethanolamine derivatives of tin are excellent *delayed action (latent)* catalysts for the formation of polyurethanes.^[1] These compounds have already been produced on a ton-scale and hold potential to substitute toxic organomercury derivatives.

This finding stimulated the search for most efficient syntheses of such tin compounds. In contrast to textbook knowledge^[2] we found that tin powder reacts with a variety of alcohols to *exclusively* give different tin alkoxides and tin-oxo-clusters in high yields.^[3]



Literature:

[1] J. Krause, S. Reiter, S. Lindner, A. Schmidt, K. Jurkschat, M. Schürmann, G. Bradtmöller, DE 021980, **2008**. [2] A. F. Holleman, E. Wiberg, N. Wiberg, *Lehrbuch der Anorganischen Chemie*, 102. Aufl., Walter de Gruyter **2007**. [3] T. Zöller, L. Iovkova-Berends, C. Dietz, T. Berends, K. Jurkschat, manuscript submitted.