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Reaction of N-Phosphoryl(thio)amides with Stannic Chloride

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Abstract

N-Dialkoxyposphinoylamides react with SnCl_4 without rupture of the NH bonds to form stable 1:1 complexes. Replacement of one or both oxygen atoms in the P=O and C=O groups of these compounds by a sulfur atom changes the composition of the complexes and may result in an ionic mechanism of complexation. Nonacylated amidophosphate and thioamidophosphate form 2:1 and 1:1 complexes, respectively.
