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Crystallized Pb(II)- and Sn(II)-ammine complexes as intermediates from the interaction of CH₃NH₂ with BX₂ and CH₃NH₃BX₃ (B = Pb, Sn; X = I, Br, Cl)

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The reaction of CH₃NH₂ with CH₃NH₃PbI₃ leads to the formation of a yellow viscous liquid and colorless crystals. Our group was able to identify these crystals as [Pb(CH₃NH₂)₆]I₂, the first homoleptic lead-ammine complex. We herein report on the findings of the interactions of CH₃NH₂ with BX₂ and CH₃NH₃BX₃ (B = Pb, Sn; X = I, Br, Cl).

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