Organogalliumamide: Synthese und Kristallstrukturen von $[^iPr_2GaN(H)^tBu]_2$ und $[Mes(Cl)GaN(H)^tBu]_2$

Organogallium Amides: Synthesis and Crystal Structures of $[^iPr_2GaN(H)^tBu]_2$ and $[Mes(Cl)GaN(H)^tBu]_2$

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Gallium Compounds, Organogallium Amides, Crystal Structure

$[^iPr_2GaN(H)^tBu]_2$ (**1**) and $[Mes(Cl)GaN(H)^tBu]_2$ (**2**) can be synthesized by the metathesis reaction of $^iPr_2GaCl$ and $MesGaCl_2$ with one equivalent of $LiN(H)^tBu$, respectively. **1** and **2** were characterized by NMR, IR and MS techniques as well as by X-ray structure analyses. **1** and **2** consist of centrosymmetric dimeric molecules with a Ga_2N_2 skeleton. According to cryoscopic measurements in benzene, both amides are dimeric in solution, too.

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