Organogallium Amides: Synthesis and Crystal Structures of $[^{i}Pr_2GaN(H')Bu]_2$ and $[Mes(Cl)GaN(H')Bu]_2$

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$[^{i}Pr_2GaN(H')Bu]_2$ (1) and $[Mes(Cl)GaN(H')Bu]_2$ (2) can be synthesized by the metathesis reaction of $^{i}Pr_2GaCl$ and MesGaCl$_2$ with one equivalent of LiN(H')Bu, 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$_2$N$_2$ skeleton. According to cryoscopic measurements in benzene, both amides are dimeric in solution, too.

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