Formation of Methylchloroaluminium Alkanethiolates, MeAl(SR)Cl, and Dichloroaluminium Alkanethiolates, Cl₂AlSR, from Methylaluminium Dichloride and Trimethylsilyl Alkanethiolates, Me₃SiSR

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Methylchloroaluminium Alkanethiolates, Dichloroaluminium Alkanethiolates

Depending on the reaction conditions methylaluminium dichloride, MeAlCl₂, and trimethylsilyl alkanethiolates, Me₃SiSR, give dichloroaluminium alkanethiolates, Cl₂AlSR with R = Me and Et or methylchloroaluminium alkanethiolates, MeAl(SR)Cl with R = Me, Et, and i-Pr. The reaction pathways are described and IR and ¹H NMR spectroscopic data are presented.