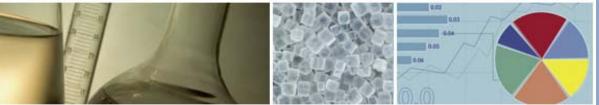
كلية العلوم College of Sciences

جامعة الملك عبدالعزيز King Abdulaziz University





> MainPage		<u>Research Details :</u>
> About College	Research Title	: Reactions of the alkyltrihydroaluminate [Li(thf)(2){AIH3[C(SiMe3)
> Files		(3)]}[(2). Crystal structures of [Li(tmen)(2)][AIH3{C(SiMe3)(3)}], [AIBr2-{C(SiMe3)(3)}]center dot thf, [AII2{C(SiMe3)(3)}]center dot thf, [Li(thf)(2)(mu-NHPh)(2)-{AIH[C(SiMe3)(3)]}] and {Li(thf)(4)] [AI(NHPh)(3){C(SiMe3)(3)}] Reactions of the alkyltrihydroaluminate [Li(thf)(2){AIH3[C(SiMe3) (3)]}](2). Crystal structures of [Li(tmen)(2)][AIH3{C(SiMe3)(3)}], [AIBr2-{C(SiMe3)(3)}]center dot thf, [AII2{C(SiMe3)(3)}]center dot
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		<u>thf, [Li(thf)(2)(mu-NHPh)(2)-{AIH[C(SiMe3)(3)]}] and {Li(thf)(4)]</u> [AI(NHPh)(3){C(SiMe3)(3)}]
Visits Of this Page: 3	Descriptipn	 The alkyltrihydroaluminate [Li(thf)(2){AlH3[C(SiMe3)(3)]}](2), (thf = tetrahydrofuran) reacted (i) with tetramethylethane-1,2-diamine (tmen) to give [Li(tmen)(2)][AlH3{C(SiMe3)(3)}], which crystallises as solvent-separated ion pairs, (ii) with HCl, HBr or Br-2, or I-2 to give, respectively, the alkylaluminium dihalides [AlX2{C(SiMe3) (3)}].thf, X = Cl, Br or I, which have been characterised spectroscopically and, when X = Br or I, by X-ray diffraction studies; and (iii) with aniline to give [Li(thf)(2)(mu-NHPh)(2)(AlH [C(SiMe3)(3)]] and [Li(thf)(4)][Al(NHPh)(3){C(SiMe3)(3)]}, which crystallise as anilide-bridged and solvent-separated ion pairs respectively.
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