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Hui zhen Li et al ..Formation

Mechanisms, Struc

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(2006. 01)

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书1

书3

2

1.
50
F Cl Br
2. 1

MBH_4 NH_4X BX_3 - 30
 $\text{NH}_2\text{B}_2\text{H}_6$ M = Na Li X =

100: 1 1: 20
0.5 5 mol /L -
1: 1

THF· BH_3 $\text{NH}_2\text{B}_2\text{H}_6$

schl enk
schl enk

Aminoborane, ADB, $NH_2B_2H_5$

1938

B N H

B- H N- H B- N

1

$NH_2B_2H_5$

$NH_2B_2H_5$

-130

10%

2

3

THF · BH_3

THF

$NH_2B_2H_5$

THF · BH_3

NBH_4

NH_4X

BX_3

-30 50

$NH_2B_2H_5$

M = Na Li X = F Cl Br

100:1 1:20

schl enk

schl enk

0.5 5 mol /L

1:1

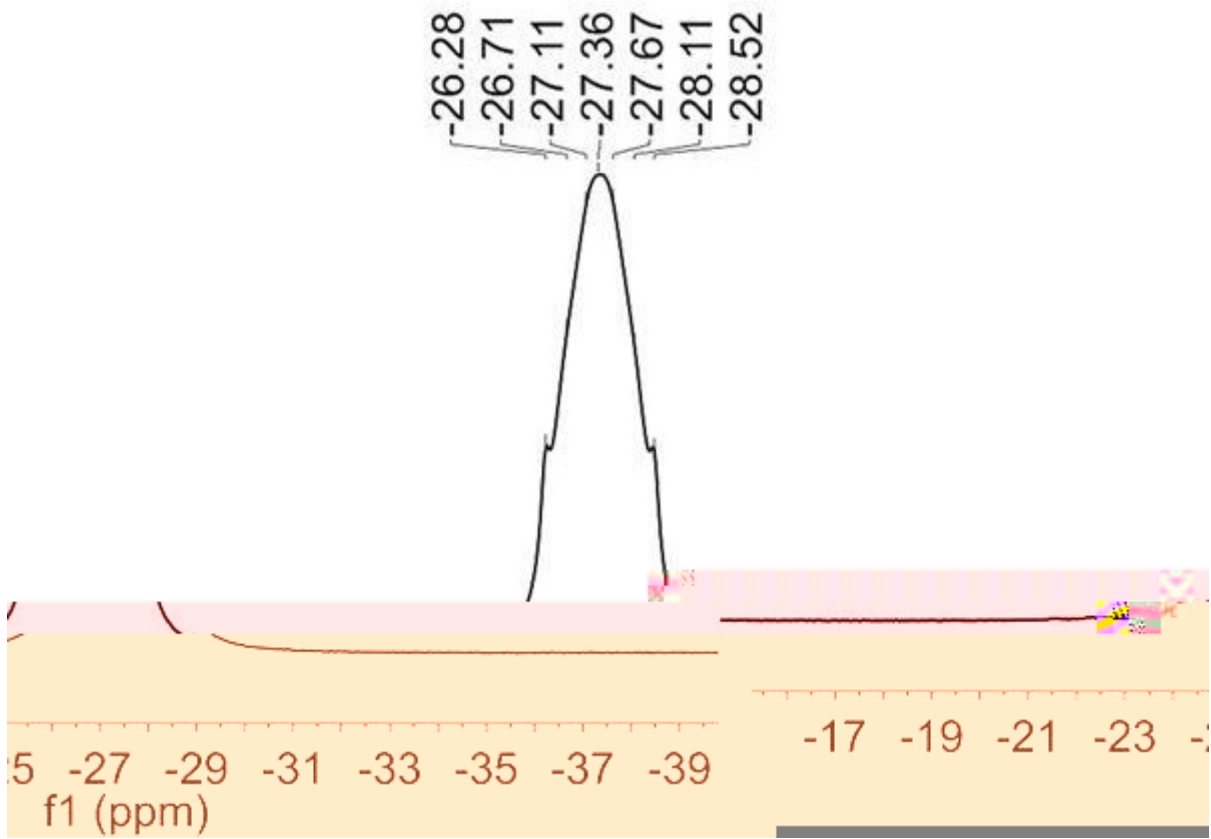
THF · BH_3

$NH_2B_2H_5$



	1	1							NH ₂ B ₂ H ₆	
¹¹ B										
	2	1							NH ₂ B ₂ H ₆	
¹¹ B{H}										
		1								
		1.52 g							100 mL	schl enk
			1.06 g						schl enk	
				20 mL						4:
1			1 mol /L		-		4 mL			
		1: 1							THF · BH ₃	
									NH ₂ B ₂ H ₆	
0.065 g									NH ₂ B ₂ H ₆	
		62%				100%				
			NH ₂ B ₂ H ₆							
		2								
									100 mL	schl enk
		1.52 g							schl enk	
			1.06 g							
-30					20 mL					
4: 1			1 mol /L		-		4 mL			
		1: 1							THF · BH ₃	
									NH ₂ B ₂ H ₆	
g		60%							NH ₂ B ₂ H ₆	0.058
						100%				
		3								
									100 mL	schl enk
		1.52 g							schl enk	
			1.06 g							
				20 mL						4: 1
			1 mol /L		-		4 mL			
		1: 1							THF · BH ₃	
		50								

			$\text{NH}_2\text{B}_2\text{H}_6$	$\text{NH}_2\text{B}_2\text{H}_6$	0.065 g
62%		100%			
	4				100 mL schl enk
	1.52 g	1.06 g		schl enk	
		20 mL			4: 1
	1 mol /L	-	4 mL		
1: 1				THF· BH_3	
			NB_2H_7	$\text{NH}_2\text{B}_2\text{H}_6$	0.065 g
62%		100%			



1

