

(19)



(12)

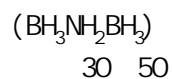
(10)

(45)

(21) 201810333242.0 CN 102167349 A, 2011.08.31
 (22) 2018.04.13 CN 103382017 A, 2013.11.06
 (65) CN 107416856 A, 2017.12.01
 Scott R. Daly et al. . Synthesis, Characterization, and Structures of Divalent Europium and Ytterbium N,N-Dimethylamino boranates. Inorganic Chemistry. 2010, 49 (10),
 (43) 2018.10.09 Hui zhen Li et al. . Formation Mechanisms, Structure, Solution Behavior, and Reactivity of Aminoborane. Journal of the American Chemistry Society. 2015,
 (73) 453007 () 41139 137
 46 . N-
 (72)
 (74)
 (51) Int.Cl. . 2018, (2),
 C01B 6/13 (2006.01)
 C01B 35/14 (2006.01)
 (56)
 CN 107660209 A, 2018.02.02

(54)

(57)



M =

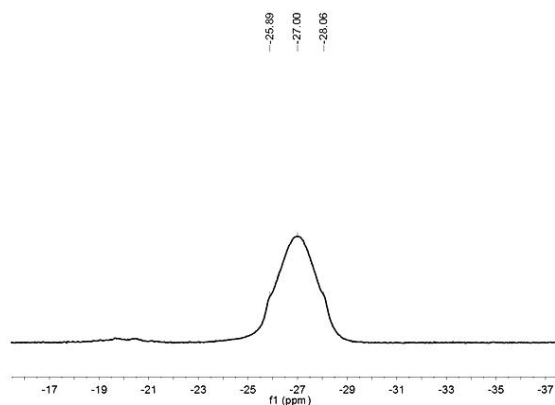


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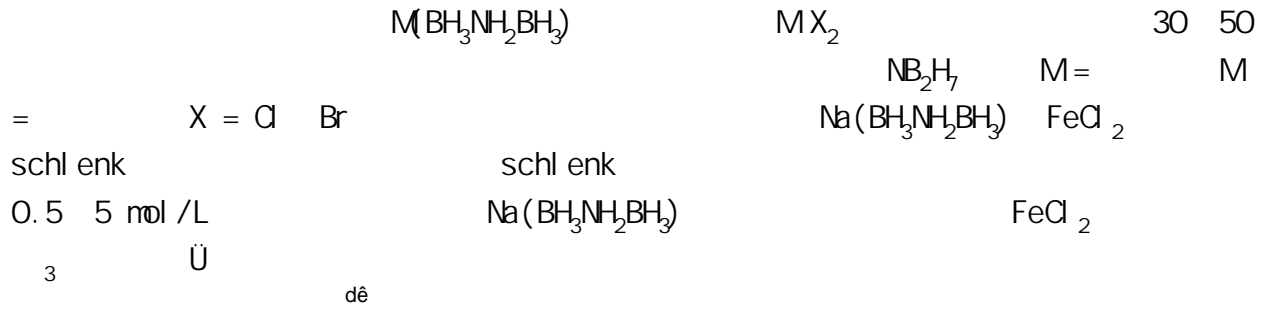


M

X = Cl Br



1.



NB_2H_7						
[0010]				NB_2H_7		
[0011]	$\text{Na}(\text{BH}_3\text{NH}_2\text{BH}_3)$	$+$	FeCl_2	$2\text{NB}_2\text{H}_7$	$+$	$\text{Fe} + 2\text{NaCl} + \text{H}_2$
[0012]						
[0013]	1	1		NB_2H_7		^{11}B
[0014]	2	1		NB_2H_7		$^{11}\text{B}\{\text{H}\}$
[0015]						
[0016]	1					
[0017]						50 mL
schl enk		1.005 g	$\text{Na}(\text{BH}_3\text{NH}_2\text{BH}_3)$	0.951 g	FeCl_2	schl enk
				(THF· BH_3)	10 mL	$\text{Na}(\text{BH}_3\text{NH}_2\text{BH}_3)$
		FeCl_2			2	
				NB_2H_7	NB_2H_7	0.050 g
	62%		100%			
[0018]	2					
[0019]						50 mL
schl enk		0.670 g	$\text{Na}(\text{BH}_3\text{NH}_2\text{BH}_3)$	0.634 g	FeCl_2	schl enk
				8 mL	$\text{Na}(\text{BH}_3\text{NH}_2\text{BH}_3)$	
		FeCl_2			2	
				NB_2H_7	NB_2H_7	0.048 g
	60%		100%			
[0020]	3					
[0021]						50 mL schl enk
		1.005 g	$\text{Na}(\text{BH}_3\text{NH}_2\text{BH}_3)$			schl enk
		50 mL	schl enk	0.9744 g	CoCl_2	
10 mL		$\text{Na}(\text{BH}_3\text{NH}_2\text{BH}_3)$		CoCl_2		
5				NB_2H_7	NB_2H_7	0.045 g
	58%		100%			
[0022]						

