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Supporting Information

Sodium Borohydride Hydrazinates: Synthesis, Crystal Structures, and Thermal Decomposition Behavior

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Table S1. Experimental structural parameters of the as-prepared $NaBH_4$-$2NH_2NH_2$.

Atom	Site	x	y	z
Na1	4	0.742053(80)	0.07764(51)	0.94195(13)
N1	4	109.5868	110.579	-14.29054
N2	4	109.4054	110.5852	-14.33902
H1	4	109.63	110.6457	-14.26466
H2	4	109.6476	110.5262	-14.22551
H3	4	109.3789	110.6186	-14.45992
H4	4	109.3598	110.6112	-14.2384
N1a	4	93.93489	129.5682	-133.8614
N2a	4	94.09957	129.6015	-133.7449
H1a	4	93.93368	129.5158	-133.9562
H2a	4	93.88415	129.5198	-133.796
H3a	4	94.08598	129.6417	-133.6367
H4a	4	94.16396	129.6301	-133.822
B11	4	-289.4714	-168.2528	694.1873
H11a	4	-289.5277	-168.1908	694.0477
H11b	4	-289.3435	-168.283	694.1553
H11c	4	-289.464	-168.2013	694.3476
H11d	4	-289.5557	-168.3338	694.1908

Table S2. Interatomic distances (Å) in crystal structure of $NaBH_4$-$2NH_2NH_2$ at room temperature.

Na1-	N1	2.3461
	N2a	2.6082
	N2	2.6200
	N1a	2.7623
	B11	2.9782
	B11	3.3544
Na1-	H2a	2.2163
	H11a	2.3561
	H1	2.3985
	H11b	2.4794
	H2	2.4929
	H3	2.6016
	H3a	2.8925
	H11d	2.9362
	H4a	2.9781
	H4	3.0703