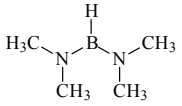
612 **$C_4H_{13}BN_2$** ***N,N,N′,N′*-Tetramethylboranediamine** **C_2**

ED, *ab initio* and DFT calculations

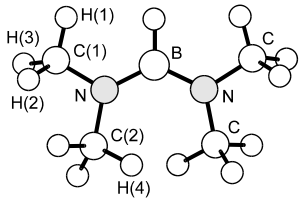
Bis(dimethylamino)borane



r_a	Å [a])
B–H	1.217 [b])
B–N	1.425(4)
N–C(1)	1.456(2)
N–C(2)	1.454 [c])
C–H [d])	1.106(1)

θ_a	deg [a])
N–B–N	127.8(5)
B–N–C(1)	119.9(3)
B–N–C(2)	127.3(2)
N–C–H(1)	110.3(2)
N–B–H	116.1(2)
C–N–C	112.7(3)
N–C–H [d])	111.4(2)
C(1)–N–B–N	–167.6(12)
C(2)–N–B–N	14.7(15)
H(1)–C(1)–N–B	–3.1 [b])
H(4)–C(2)–N–B	13.9 [b])

The nozzle temperature was 298 K.



[a]) Estimated standard errors including a systematic error.
[b]) Assumed at the value from 3PW91/6-311++G** calculations.
[c]) Difference between the N–C(1) and N–C(2) bond lengths was assumed at the value from B3PW91/6-311++G** calculations.
[d]) Average value.

Østby, K.-A., Fjeldberg, T., Gundersen, G.: J. Mol. Struct. **567-568** (2001) 247.