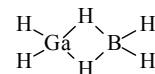
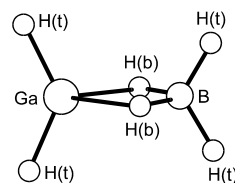


66 **BGaH₆**ED, vibrational spectroscopy,
ab initio and DFT
calculations**Dihydrido[tetrahydroborato- κ H, κ H']gallium**Di- μ -hydrido-[dihydroboron(III)][dihydridogallium(III)]**C_{2v}**

r_{α}	Å ^{a)}	θ_{α}	deg ^{a)}
Ga...B	2.197(3)	H(t)–B–H(t)	120.8(9) ^{b)}
Ga–H(b)	1.800(6)	H(t)–Ga–H(t)	130.1(9) ^{b)}
Ga–H(t)	1.555(6)	H(b)–Ga–H(b)	71.6(4)
B–H(b) ^{c)}	1.286(7)	H(b)–B–H(b)	110.0(5)
B–H(t) ^{c)}	1.189(7)		



The molecular structure from [1] was reinvestigated.
The nozzle temperature was 244...258 K.

^{a)} Estimated standard errors.^{b)} Restrained to the value from
B3PW91/6-311++G(2d,2p) calculations.^{c)} Difference between the B–H(b) and B–H(t) bond lengths was restrained to the value from
B3PW91/6-311++G(2d,2p) calculations.

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[1] Pulham, C.R., Brain, P.T., Downs, A.J., Rankin, D.W.H., Robertson, H.E.: J. Chem. Soc.,
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Replaces [II/25A\(2, 93\)](#)