

462 **C₃H₁₂GaN**
ED, MW,
ab initio calculations

Trimethylamine – gallium trihydride (1/1) **C_{3v} assumed**
N,N-Dimethylmethanamine – gallium trihydride (1/1)
(CH₃)₃N · GaH₃

r_a	Å ^{a)}	θ_a^0	deg ^{a)}
Ga–H	1.522(13)	C–N...Ga	108.8(2)
Ga...N	2.139(4)	N...Ga–H	99.3(8)
N–C	1.479(3)	N–C–H	111.7(13)
C–H	1.111(4)	τ_1 ^{b)}	60 ^{c)}
		τ_2 ^{d)}	60 ^{c)}

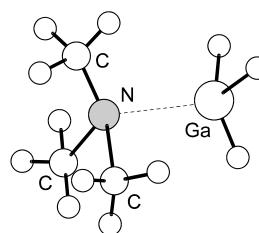
ED data from [1] were reanalyzed. Local C_{3v} symmetry and no tilt were assumed for the CH₃ groups. Results of MP2/6-31G(d), *etc.* calculations guided the determination of some parameters. The measurements were made at room temperature.

^{a)} Estimated standard errors.

^{b)} H–Ga...N–C torsional angle from the *syn* position.

^{c)} Assumed.

^{d)} H–C–N...Ga torsional angle from the *syn* position.



Brain, P.T., Brown, H.E., Downs, A.J., Greene, T.M., Johnsen, E., Parsons, S., Rankin, D.W.H., Smart, B.A., Tang, C.Y.: J. Chem. Soc., Dalton Trans. (1998) 3685.

[1] Baxter, P.L., Downs, A.J., Rankin, D.W.H.: J. Chem. Soc., Dalton Trans. (1984) 1755.

Replaces [II/25C \(3, 1444\)](#), ED