

1444
MW

C₃H₁₂GaN

Trimethylamine – gallium hydride (1/1)

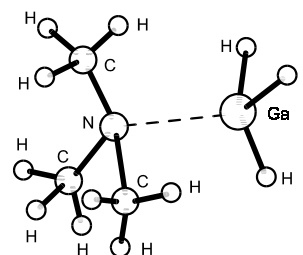
**C_{3v} (H₃Ga...NC₃
fragment)
(CH₃)₃N · GaH₃**

r_0	Å ^{a)}	θ_0	deg ^{a)}
Ga...N	2.111(2)	C–N...Ga	110.0(10)
C–N	1.476(20)	N...Ga–H	102.0 ^{b)}
Ga–H	1.59 ^{b)}	N–C–H	106.6 ^{b)}
C–H	1.095 ^{b)}		

The GaH₃ and NC₃ groups are staggered with respect to each other.

^{a)} Uncertainties were not estimated in the original paper.

^{b)} Assumed.



Durig, J.R., Chatterjee, K.K., Li, Y.S., Jalilian, M., Zozulin, A.J., Odom, J.D.: J. Chem. Phys. **73** (1980) 21.

ED, MW

r_a	Å ^{a)}	θ_α	deg ^{a)}
Ga...N	2.124(7)	C–N...Ga	109.9(5)
C–N	1.482(5)	N...Ga–H	102 ^{b)}
Ga–H	1.497(15)	N–C–H	112.7(22)
C–H	1.112(4)	τ_1 ^{c)}	0 ^{b)}
		τ_2 ^{d)}	50(10)
		tilt (CH ₃)	0 ^{b)}

The GaH₃ and NC₃ groups were assumed to be staggered with respect to each other.
The measurements were made at room temperature.

^{a)} Estimated standard errors.

^{b)} Assumed.

^{c)} Twist angle H₃Ga...NC₃ from staggered position.

^{d)} Twist angle H₃C...NC₂Ga from staggered position.

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