

1257
ED

C₃H₆N₂

Dimethylcyanamide

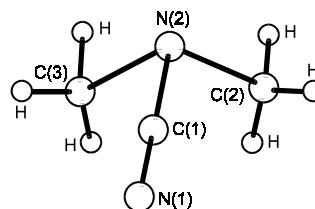
C_s assumed
N≡C–N(CH₃)₂

r_a	Å ^{a)}	θ_a	deg ^{a)}
N(2)–C(2,3)	1.463(1)	C(2)–N–C(3)	115.5(5)
N(2)–C(1)	1.338(2)	C(1)–N–C	116.0(3)
C(1)≡N(1)	1.161(2)	N–C(2,3)–H	108.6(4)
C–H	1.098(3)	ϕ ^{b)}	34.7

The N–C≡N fragment was assumed to be linear.
The temperature of the reservoir was 60 °C.

^{a)} Estimated standard errors.

^{b)} ϕ is the angle between the C(2)NC(3) plane and the central bond N–C(1) derived from other structural parameters.



Khaikin, L.S., Vilkov, L.V., Andruskaya, L.G., Zenkin, A.A.: J. Mol. Struct. **29** (1975) 171.

MW

C_s

r_0	Å	θ_0	deg
N(2)–C(2,3)	1.462 ^{a)}	C(2)–N–C(3)	116(2)
N(2)–C(1)	1.351(20)	N–C(2,3)–H	109.5 ^{a)}
C(1)≡N(1)	1.160 ^{a)}	ϕ ^{b)}	35.8(15)
C–H	1.090 ^{a)}		

^{a)} Assumed.

^{b)} Angle between C(2)N(2)C(3) plane and the C(1)≡N bond.

Li, Y.S., Durig, J.R.: J. Mol. Struct. **16** (1973) 433.