

1213
MW

C₃H₅N

Propargylamine
2-Propyn-1-amine

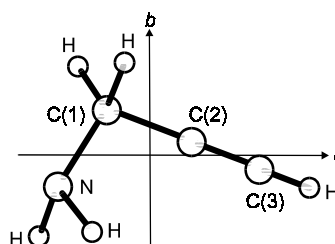
C_s (*trans*)
H₂N–CH₂–C≡CH

r_s	Å ^{a)}	θ_s	deg ^{a)}
N–H	1.0175(30)	H–N–H	105.57(12)
C(1)–N	1.4953(60)	H–N–C(1)	110.25(20)
C(1)–C(2)	1.4607(46)	N–C(1)–C(2)	113.59(10)
C(2)≡C(3)	1.1948(36)		
C(3)–H	1.0732(28)		

r_0	Å ^{a)}	θ_0	deg ^{a)}
N–H	1.016(2)	H–N–H	106.25(61)
C(1)–N	1.496(2)	H–N–C(1)	108.53(38)
C(1)–H	1.082(4)	H–C(1)–H	103.54(92)
C(1)–C(2)	1.455(2)	H–C(1)–C(2)	111.00(130)
C(2)≡C(3)	1.200(2)	N–C(1)–C(2)	114.91(15)
C(3)–H	1.061(2)		

Only one conformer was observed. Its C–C≡C–H group was assumed to be linear and *trans* to the N lone pair.

^{a)} Uncertainties are about twice those of the original data.



Cervellati, R., Caminati, W., Degli Esposti, C., Mirri, A.M.: J. Mol. Spectrosc. **66** (1977) 389.