

1403
MW

C₃H₉NO

3-Amino-1-propanol

C₁
H₂N-CH₂-CH₂-CH₂-OH

r_0	Å ^{a)}	θ_0	deg ^{a)}
C-O	1.43 ^{b)}	C-O-H	107.0 ^{b)}
C-C	1.54 ^{b)}	H-C-H	109.5 ^{b)}
C-N	1.48 ^{b)}	O-C-C	112.6 ^{b)}
O-H(1)	0.97 ^{b)}	C-C-C	109.5 ^{b)}
N-H(2,3)	1.00 ^{b)}	C-C-N	109.0 ^{b)}
		C-N-H(2,3)	109.5 ^{b)}
		H(2)-N-H(3)	109.5 ^{b)}
		τ_1 ^{c)}	-42.0(20)
		τ_2 ^{d)}	76.6(20)
		τ_3 ^{e)}	-68.9(20)
		τ_4 ^{f)}	-66.5(20)
		τ_5 ^{g)}	173.5(20)

Atom	a_s [Å] ^{a)}	b_s [Å] ^{a)}	c_s [Å] ^{a)}
H(1)	0.422	1.333	0.092
H(2)	-2.181	1.315	-0.468
H(3)	-1.567	1.075	1.022

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

^{b)} Assumed.

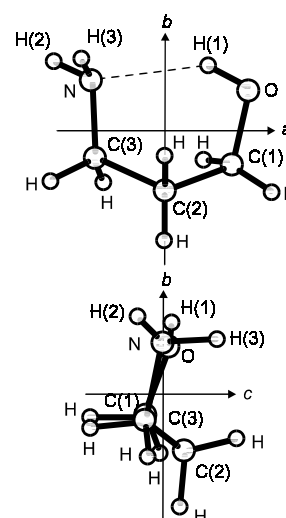
^{c)} Dihedral angle H(1)-O-C(1)-C(2).

^{d)} Dihedral angle O-C(1)-C(2)-C(3).

^{e)} Dihedral angle C(1)-C(2)-C(3)-N.

^{f)} Dihedral angle C(2)-C(3)-N-H(3).

^{g)} Dihedral angle C(2)-C(3)-N-H(2).



McMahan, M.A., Sharma, S.D., Curl, R.F.: J. Mol. Spectrosc. **75** (1979) 220.