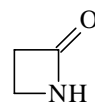


1219 C₃H₅NO

 ED, MW, *ab initio*

calculations (HF/6-31G**)

2-Azetidinone

 C_s


r_g	Å ^{a)}	θ_α	deg ^{a)}
N(1)–C(2)	1.380(2)	N(1)–C(2)–C(3)	91.1(2)
C(2)–C(3)	1.537(3)	C(2)–C(3)–C(4)	86.0(2)
C(3)–C(4)	1.553(5)	C(3)–C(4)–N(1)	87.6(1)
N(1)–C(4)	1.479(3)	C(4)–N(1)–C(2)	95.3(2)
C(2)=O(5)	1.201(1)	C(4)–N(1)–H	131.0(6)
N(1)–H	0.990(3)	C(3)–C(2)=O(5)	136.6(3)
C(3)–H ^{b)}	1.105(5)	C(2)–C(3)–H	115.1(8)
C(4)–H ^{b)}	1.105(5)	N(1)–C(4)–H	114.4(9)
		C(4)–C(3)–H	114.5(9)
		H–C(3)–H	110.0(9)
		H–C(3)–C(2)=O(5) ^{c)}	64.8(10)
		H–C(4)–N(1)–H ^{c)}	64.1(9)

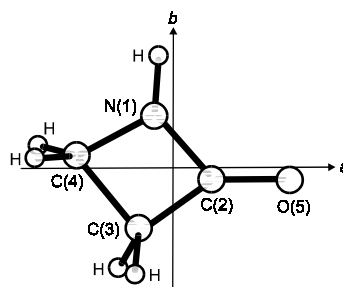
The molecule is planar (apart from the methylene group H atoms).

The nozzle temperature was ≈ 142 °C.

^{a)} Estimated standard errors.

^{b)} Assumed to be equal.

^{c)} Dihedral angle from *syn*.



Marstokk, K.-M., Møllendal, H., Samdal, S.,
Uggerud, E.: Acta Chem. Scand. **43** (1989) 351.