

1221
ED

C₃H₅NO₂

(E)-Hydroxyimino-2-propanone
(E)-Pyruvaldehyde oxime

C_s (heavy-atom skeleton)
H₃C–C(O)–CH=N–OH

r_{α}	Å ^{a)}	θ_{α}	deg ^{a)}
C–C (average)	1.496(5)	C(1)–C(2)–C(3)	118.4(3)
$\Delta(\text{C–C})$ ^{b)}	0.03(1)	C(1)–C(2)=O	118.4(4)
C=O	1.212(3)	C(2)–C(1)=N	120.5(5)
C=N	1.260(4)	C(1)=N–O	112.3(4)
N–O	1.382(4)	N–O–H	104.3(35)
O–H	0.962(15)	C(2)–C(1)–H	123.1 ^{c)}
C(1)–H	1.076(9)	C(2)–C(3)–H	109.4(29)
C(3)–H	1.079(9)	τ ^{d)}	36.5(63)

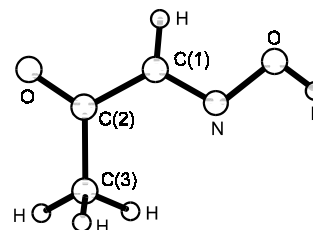
The molecule exists in the *syn s-trans* form.
The nozzle temperature was 85 °C.

^{a)} Estimated standard errors.

^{b)} $\Delta(\text{C–C}) = [\text{C}(2)–\text{C}(3)] - [\text{C}(1)–\text{C}(2)]$.

^{c)} Fixed.

^{d)} Dihedral angle H–C(3)–C(2)–C(1).



Alderliesten, P., Almenningen, A., Strand, T.G.: Acta Chem. Scand. Ser. B **29** (1975) 811.