

1164 **C₃H₄O₂**
ED, MW, IR, *ab initio*
calculations (4-21G)

Vinyl formate

C_s
H₂C=CH–O–C(O)H

r_g	\AA^a	θ_α^0	deg^a
C(1)=C(2)	1.331(15)	C(1)=C(2)–O(3)	121.0(3)
C(2)–O(3)	1.397(15)	C(2)–O(3)–C(4)	117.0(3)
O(3)–C(4)	1.350(15)	O(3)–C(4)=O(5)	127.2(3)
C(4)=O(5)	1.193(15)	C(2)=C(1)–H(6)	118.2(3)
C(1)–H(6)	1.087(15)	C(2)=C(1)–H(7)	116.9(3)
C(1)–H(7)	1.087(15)	C(1)=C(2)–H(8)	122.9(3)
C(2)–H(8)	1.087(15)	O(5)=C(4)–H(9)	128.1(3)
C(4)–H(9)	1.092(15)	C(1)=C(2)–O(3)–C(4)	180.0(3)
		O(5)=C(4)–O(3)–C(2)	0.0(3)

All experimental and theoretical data are in accord with a planar heavy-atom skeleton in the (*sp*, *ap*) conformation, see figure.

The nozzle temperature was 300 K.

^a) Estimated standard errors.

Pyckhout, W., van Alsenoy, C., Geise, H.J., van der Veken, B.,
Coppens, P., Trætteberg, M.: J. Mol. Struct. **147** (1986) 85.

