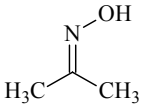
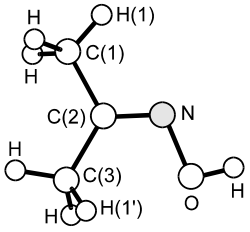
431 **C_3H_7NO** **Propanone oxime** **C_s**
ED Acetone oxime



r_g	Å [a])
C(1)–C(2)	1.490(3)
C(2)–C(3)	1.521(5)
C(2)=N	1.289(1)
N–O	1.423(2)
C–H (mean)	1.116(2)
O–H	0.993(6)

θ_α	deg [a])
C(1)–C(2)=N	116.4(2)
C(3)–C(2)=N	123.4(3)
C(2)=N–O	111.2(2)
H–C–H (mean)	107.8(4)
N–O–H	102.7 [b])
τ_1 [c])	0.0 [d])
τ_2 [e])	60.0 [d])
tilt(CH_3) [f])	0 [d])

Local C_{3v} symmetry was assumed for the methyl group.
The sample was vaporized at about 47 °C.



[a]) 2.6 times the estimated standard errors including a systematic error.
[b]) Assumed according to literature data for similar molecules.
[c]) N=C(2)–C(1)–H(1) torsional angle.
[d]) Fixed in the final refinement.
[e]) N=C(2)–C(3)–H(1') torsional angle from the *syn* position.
[f]) Tilt angle between the C_3 axis of the CH_3 group and the C–C bond direction.

Iijima, K., Suzuki, M., Sakaizumi, T., Ohashi, O.: J. Mol. Struct. **413-414** (1997) 327.