

1745  
ED

**C<sub>4</sub>H<sub>8</sub>O**

**Tetrahydrofuran**

effectively C<sub>2v</sub> (pseudorotation)

$r_g$	Å <sup>a)</sup>
C–H	1.115(2)
C–O	1.4280(15)
C–C	1.5360(15)
$q$ <sup>b)</sup>	0.38(2)



The structures given by [1] and [2] are consistent. Experimental ED intensities are consistent with essentially free pseudorotation of the ring. A definite distinction between free pseudorotation and the presence of one or more static puckered conformations could not be made from ED intensities.

The nozzle was at room temperature [1].

<sup>a)</sup> Estimated standard errors.

<sup>b)</sup> The mean value of the pseudorotational puckering coordinate.

[1] Geise, H.J., Adams, W.J., Bartell, L.S.: Tetrahedron **25** (1969) 3045.

[2] Almenningen, A., Seip, H.M., Willadsen, T.: Acta Chem. Scand. **23** (1969) 2748.