

1822
ED

$C_4H_{10}O_2$

1,2-Dimethoxyethane

C_{2h} (skeleton) (AAA)
 C_2 (skeleton) (AGA)
 C_1 (skeleton) (AGG)
 $H_3C-O-CH_2-CH_2-O-CH_3$

r_a	\AA^a	θ_a	deg a
O-C	1.410(3)	C-O-C	110.7(14)
C-C	1.504 b	O-C-C	113.2(16)
C-H	1.109(4)	C-C-H	110.0 b
		O-C-H	110.1 b
		$\tau_1(\text{gauche})^c$	61.9(8)
		$\tau_1(\text{anti})^c$	-172(22)
		$\tau_2(\text{gauche})^d$	88.7(33)
		$\tau_2(\text{anti})^d$	152.4(60)

The best fit was obtained for a mixture composed mainly of AAA, AGA, and AGG conformers.

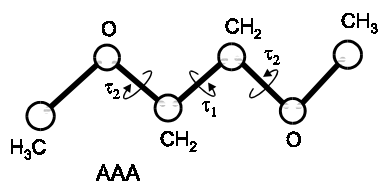
The temperature of the reservoir was 0 °C.

a) Estimated standard errors including a systematic error.

b) Assumed.

c) Dihedral angle O-C-C-O.

d) Dihedral angle C-O-C-C.



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