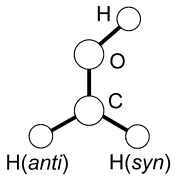
125 **CH_3O^+** **Protonated formaldehyde** **C_s**
MW Hydroxymethylium

r_0	Å [a])	θ_0	deg [a])
C–O	1.249(2)	C–O–H	115.2(3)
O–H	0.979(5)	O–C–H(*syn*)	121.9(2)
C–H(*syn*)	1.106(3)	O–C–H(*anti*)	115.9(3)
C–H(*anti*)	1.076(3)	H(*syn*)–C–H(*anti*)	122.2(3) [b])

Structural parameters were obtained by using results of MP3/6-31G* or CEPA-1 calculations as predicate observations, *i.e.*, by including *ab initio* values in the least-squares analysis as additional observations properly weighted with respect to the true experimental data.



[a]) Uncertainties were not estimated in the original paper.
[b]) Dependent parameter.

Dore, L., Cazzoli, G., Civiš, S., Scappini, F.: J. Mol. Spectrosc. **183** (1997) 107.