

112
MW

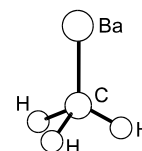
CH₃Ba
Methylbarium
C_{3v}
CH₃Ba

r_0	Å	θ_0	deg
C–H	1.09 ^{a)}	H–C–H	105.5(25) ^{b)}
C–Ba	2.564(7) ^{b)}		

The pure rotational spectrum of CH₃Ba in the ground vibrational state of the \tilde{X}^2A_1 electronic state has been recorded.

^{a)} Assumed.

^{b)} The change in H–C–H of $\pm 2.5^\circ$ affects C–Ba by ± 0.007 Å.



Xin, J., Robinson, J.S., Apponi, A.J., Ziurys, L.M.: J. Chem. Phys. **108** (1998) 2703.