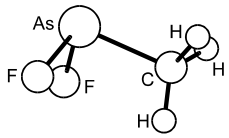
110 **CH_3AsF_2** **Difluoromethylarsine** **C_s**

ED, MW, *ab initio* calculations

Methylarsonous difluoride

$F_2As–CH_3$



r_g	Å [a])
As–C	1.949(4)
As–F	1.734(1)

r_α^0	Å [a])	θ_α^0	deg [a])
As–C	1.946(4)	C–As–F	95.2(1)
As–F	1.731(1)	F–As–F	97.0(1)
C–H	1.114(10)	As–C–H	106.5(17)

Local C_{3v} symmetry was assumed for the methyl group. The molecule was described by a model with large-amplitude torsional motion of CH_3 group about staggered conformation with respect to the AsF_2 group. The three-fold barrier to rotation was estimated to be 5.85 kJ mol^{-1} at the MP2/6-31G** level of theory.
The nozzle was at about 293 K.

[a]) Estimated standard errors.

Downs, A.J., Greene, T.M., McGrady, G.S., Townson, N., Brain, P.T., Pulham, C.R., Rankin, D.W.H., Robertson, H.E., Smart, B.A., Alberts, I.L.: Inorg. Chem. **35** (1996) 6952.

II/25B(**3**, 243)