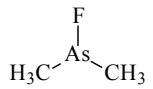
294 **C_2H_6AsF** **Fluorodimethylarsine** **C_s**

ED, *ab initio* calculations

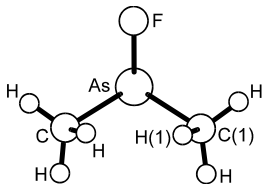
Dimethylarsinous fluoride



r_g	Å [a])
As–C	1.955(1)
As–F	1.758(1)

r_α^0	Å [a])
As–C	1.951(1)
As–F	1.754(1)
C–H	1.061(3)

θ_α^0	deg [a])
C–As–F	95.3(5)
C–As–C	96.9(8)
As–C–H	106.7(7)
τ [b])	57(11)



The harmonic force constants were calculated at the MP2/6-31G** level of theory. The nozzle was at about 293 K.

[a]) Estimated standard errors.
[b]) Torsional angle F–As–C(1)–H(1), $\tau = 0°$ for *syn* position; positive value for the anticlockwise rotation.

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.