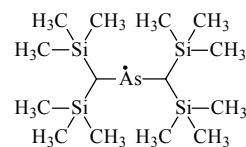


925 **C₁₄H₃₈AsSi₄**ED, *ab initio* and

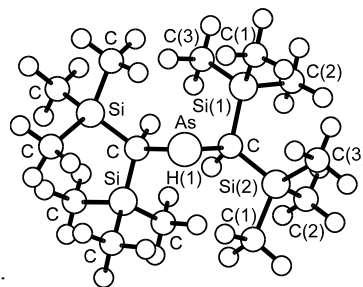
DFT calculations

Bis[bis(trimethylsilyl)methyl]arsino**C₂**

r_a	Å ^a	θ_a	deg ^a
As–C	1.986(8)	C–As–C	101.2(10)
C–Si(1)	1.893(2)	As–C–Si(1)	111.8(6)
C–Si(2)	1.891(2)	As–C–Si(2)	112.1(6)
Si(1)–C(1)	1.873(2)	As–C–H	106.4(12)
Si(1)–C(2)	1.873(2)	Si–C–Si	117.3(3)
Si(1)–C(3)	1.871(2)	Si(1)–C–H(1)	104.1(6)
Si(2)–C(1)	1.869(2)	Si(2)–C–H(1)	104.0(6)
Si(2)–C(2)	1.873(2)	C–Si(1)–C(3)	111.7(3)
Si(2)–C(3)	1.875(2)	C–Si(1)–C(1)	110.5(3)
		C–Si(1)–C(2)	111.8(3)
		C(3)–Si(1)–C(1)	108.7(3)
		C(3)–Si(1)–C(2)	107.2(3)
		C(1)–Si(1)–C(2)	106.9(3)
		C–Si(2)–C(1)	113.3(3)
		C–Si(2)–C(2)	110.4(3)
		C–Si(2)–C(3)	110.7(3)
		C(1)–Si(2)–C(2)	108.2(3)
		C(1)–Si(2)–C(3)	106.4(3)
		C(2)–Si(2)–C(3)	107.7(3)
		τ^b	–25.3(9)



The radical exists as a *syn-syn* conformer. Local C_{3v} symmetry was assumed for the methyl groups. Differences between similar parameters were restrained to the values from quantum chemical calculations. The nozzle temperature was 425 K.



^a) Estimated standard errors.

^b) Torsional angle H–C–As–C from the *syn* position.

Hinchley, S.L., Morrison, C.A., Rankin, D.W.H., Macdonald, C.L.B., Wiacek, R.J., Voigt, A., Cowley, A.H., Lappert, M.F., Gundersen, G., Clyburne, J.A.C., Power, P.P.: J. Am. Chem. Soc. **123** (2001) 9045.