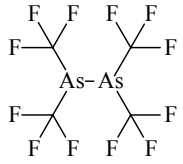
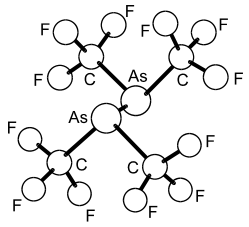
471 **$C_4As_2F_{12}$** **Tetrakis(trifluoromethyl)diarsine** **C_{2h}** assumed (*anti*)
ED, *ab initio* calculations
Tetrakis(trifluoromethyl)diarsane



r_a	Å [a])	θ_a	deg [a])
As–As	2.452(6)	As–As–C	94.6(7)
As–C	2.012(4)	C–As–C	94.5(17)
C–F	1.336(2)	F–C–F	107.2(3)
		tilt(CF_3) [b])	4.2(15)
		τ [c])	–175.7(34)

The molecule was found to exist as *anti* (100(10)%) conformer. A small amount of *gauche* conformer could not be excluded.
Local C_{3v} symmetry was assumed for the CF_3 groups.
According to results of HF/6-311+G* calculations, the *anti* conformer is lowest in the energy.



The nozzle was at room temperature.

[a]) Three times the estimated standard errors.
[b]) Angle between the C_3 axis of the CF_3 group and the As–C vector towards the lone pair of the As atom.
[c]) C–As–C–F torsional angle, $\tau = 0$ ° for the *syn* position.

Becker, G., Golla, W., Grobe, J., Klinkhammer, K.W., Le Van, D., Maulitz, A.H., Mundt, O., Oberhammer, H., Sachs, M.: Inorg. Chem. **38** (1999) 1099.