

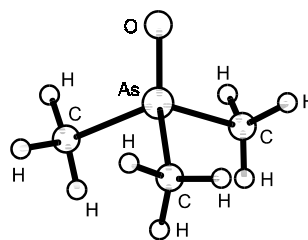
1367  
ED

**C<sub>3</sub>H<sub>9</sub>AsO**

**Trimethylarsine oxide**

**C<sub>3</sub>**  
**OAs(CH<sub>3</sub>)<sub>3</sub>**

$r_a$	$\text{\AA}^a$	$\theta_a$	$\text{deg}^a$
As=O	1.631(3)	O=As-C	112.6(13)
As-C	1.937(3)	C-As-C	106.2(14)
C-H	1.107(6)	As-C-H	106.8(9)
C...C	3.097(30)	O=As-C-H <sup>b</sup>	36.8(38)
O...C	2.973(22)		
As...H	2.518(11)		



With models simulating free rotation of the methyl groups, approximately the same parameter values were obtained. The nozzle temperature was 190 °C.

<sup>a</sup>) Twice the estimated standard errors including a systematic error.

<sup>b</sup>) From *syn* position.

Wilkins, C.J., Hagen, K., Hedberg, L., Shen, Q., Hedberg, K.: J. Am. Chem. Soc. **97** (1975) 6352.