

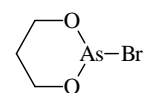
1233  
ED

**C<sub>3</sub>H<sub>6</sub>AsBrO<sub>2</sub>**

**2-Bromo-1,3,2-dioxarsenane**

**C<sub>s</sub>**

$r_a$	Å <sup>a)</sup>	$\theta_a$	deg <sup>a)</sup>
C–H	1.099(12)	C–C–C	110.5(27)
C–O	1.444(6)	$\alpha$ <sup>b)</sup>	49.5(43)
C–C	1.539(15)	O–As–O	100.9(16)
As–O	1.733(3)	$\beta$ <sup>c)</sup>	32.4(18)
As–Br	2.351(2)	O–As–Br	97.8(8)
		$\tau(\text{C–C–C–O})$ <sup>d)</sup>	56.4 <sup>e)</sup>
		$\tau(\text{C–C–O–As})$ <sup>d)</sup>	–51.6 <sup>e)</sup>
		$\tau(\text{C–O–As–O})$ <sup>d)</sup>	38.1 <sup>e)</sup>
		$\tau(\text{C–O–As–Br})$ <sup>d)</sup>	61.4 <sup>e)</sup>



The molecule has the chair conformation with axial orientation of the Br atom.  
The nozzle temperature was 90(10) °C.

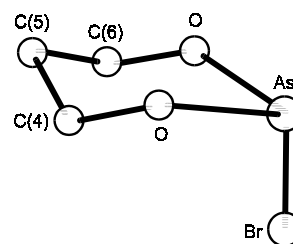
<sup>a)</sup> Three times the estimated standard errors.

<sup>b)</sup> Dihedral angle between the CCC and C(4)C(6)OO planes.

<sup>c)</sup> Dihedral angle between the OAsO and C(4)C(6)OO planes.

<sup>d)</sup> Torsional angle.

<sup>e)</sup> Dependent parameter.



Zaripov, N.M., Khusnutdinov, R.G., Naumov, V.A.: Zh. Strukt. Khim. **30** No.5 (1989) 55;  
Russ. J. Struct. Chem. (Engl. Transl.) **30** (1989) 743.