

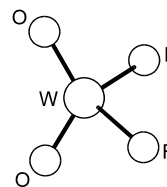
185  
ED**F<sub>2</sub>O<sub>2</sub>W****Tungsten(VI) difluoride dioxide**  
Difluorodioxotungsten(VI)**C<sub>2v</sub>**  
**WO<sub>2</sub>F<sub>2</sub>**

model I

$r_a$	$\text{\AA}^a)$
W=O	1.717(6)
W-F	1.851(6)

$r_\alpha$	$\text{\AA}^a)$
W=O	1.708(6)
W-F	1.845(6)

$\theta_\alpha$	deg <sup>b)</sup>
O=W=O	107.5(60)
F-W-F	116.9(21)



model II

$r_a$	$\text{\AA}^a)$
W=O	1.718(6)
W-F	1.851(6)

$r_\alpha$	$\text{\AA}^a)$
W=O	1.708(6)
W-F	1.844(6)

$\theta_\alpha$	deg <sup>b)</sup>
O=W=O	128.6(15)
F-W-F	94.2(39)

The mass spectrum indicated that only WO<sub>2</sub>F<sub>2</sub> molecules existed in the gas phase.  
It was impossible to choose between the two models using ED data alone.  
The temperature of the experiment was 993(10) K.

<sup>a)</sup> 2.5 times the estimated standard errors including a systematic error.

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

Petrov, V.M., Petrova, V.N., Giricheva, N.I., Girichev, G.V.: Zh. Strukt. Khim. **38** No.2 (1997) 392; J. Struct. Chem. (Engl. Transl.) **38** (1997) 318.

Replaces [II/25A\(2, 527\)](#)