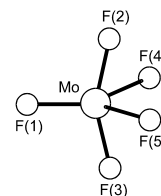


199  
ED**F<sub>5</sub>Mo****Molybdenum pentafluoride**  
Molybdenum(V) fluoride**C<sub>2v</sub>**  
**MoF<sub>5</sub>**

$r_g$	Å <sup>a)</sup>	$\theta^b$	deg <sup>c)</sup>
Mo–F(1)	1.734(5)	F(2)–Mo–F(3)	168.1(6)
Mo–F(2)	1.864(7)	F(4)–Mo–F(5)	122.6(8)
Mo–F(4)	1.841(7)		



The experimental data from [1] were reanalyzed. An analysis without consideration of pseudorotation gave the best fit to the experimental data for the molecular model with C<sub>2v</sub> symmetry, indicating the Jahn-Teller effect, in comparison with the structures with D<sub>3h</sub> and C<sub>4v</sub> symmetry. The nozzle temperature was 551(10) K.

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

<sup>b)</sup> Unidentified, possibly  $\theta_\alpha$ .

<sup>c)</sup> Estimated standard errors.

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J. Struct. Chem. (Engl. Transl.) **38** (1997) 54.

[1] Krasnova, O.G., Girichev, G.V., Giricheva, N.I., Krasnov, A.V., Butskii, V.D.: Izv. Vyssh. Uchebn. Zaved., Khim. Khim. Tekhnol. **37** 10-12 (1994) 50.

See also: Girichev, G.V., Giricheva, N.I., Krasnova, O.G.: J. Mol. Struct. **567-568** (2001) 203.

Replaces [II/25A\(2, 604\)](#)