

## Structure Data of Free Polyatomic Molecules

<b>156</b>	<b>Cl<sub>3</sub>Tm</b>	<b>Thulium trichloride</b>	<b>D<sub>3h</sub></b>
ED		Thulium(III) chloride	TmCl <sub>3</sub>

$r_g$	Å <sup>a)</sup>	$\theta_g$	deg <sup>a)</sup>
Tm–Cl	2.422(5)	Cl–Tm–Cl	116.2(14)

Only monomeric molecules were detected in the vapor by mass spectrometric method.  
 The nozzle temperature was 1123(20) K.  
 According to the results of the analysis [1], taking into account anharmonicity of out-of-plane bending vibration, the molecule is planar.

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

Giricheva, N.I., Girichev, G.V., Krasnov, A.V.: Zh. Strukt. Khim. **41** No.1 (2000) 182;  
 J. Struct. Chem. (Engl. Transl.) **41** (2000) 149.

[1] Giricheva, N.I., Zakharov, V., Shlykov, S.A., Girichev, G.V.: J. Chem. Soc., Dalton Trans. (2000) 3401.