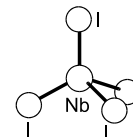


292	I₄Nb	Niobium tetraiodide	T_d (see comment)
ED		Niobium(IV) iodide	NbI ₄

$$\frac{r_g}{\text{Nb-I}} \quad \text{\AA}^{\text{a)}} \\ 2.623(6)$$

$$\frac{\theta_g}{\text{I-Nb-I}} \quad \text{deg}^{\text{a)}} \\ 108.1(3)$$

$$\frac{r_\alpha}{\text{Nb-I}} \quad \text{\AA}^{\text{a)}} \\ 2.604(6)$$



NbI₄, NbOI₃ and I₂ molecules were detected in the vapor over NbI₄ by a combined analysis of ED and mass spectrometric data. In the ED analysis, their amounts were estimated to be 78, 7 and 15 mol%, respectively. Molecular models of C_{2v}, C_{3v}, D_{2d} and T_d symmetry were tested, and the T_d structure was preferred.

The temperature of measurements was 444(10) °C.

^{a)} 2.5 times the estimated standard error including a systematic error.

Giricheva, N.I., Girichev, G.V.: J. Mol. Struct. **484** (1999) 1.

Replaces [II/25A\(2, 803\)](#)