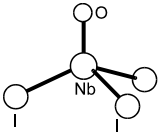


| | | | | | |
|-----------|-------------------------|-----------------|-------------------------------|-------------------|--|
| 286 ED | I₃NbO | | Triiodo(oxo)niobium(V) | | C_{3v} assumed NbOI ₃ |
| | | | Niobium(V) triiodide oxide | | |
| | <i>r_g</i> | Å ^{a)} | | | |
| | Nb=O | 1.706(16) | | | |
| | Nb-I | 2.650(6) | | | |
| | <i>r_α</i> | Å ^{a)} | <i>θ_α</i> | deg ^{a)} | |
| | Nb=O | 1.686(18) | O=Nb-I | 107.8(6) | |
| | Nb-I | 2.637(6) | I-Nb-I | 111.1(7) | |



NbOI₃, NbI₄ and I₂ molecules were detected in the vapor over NbOI₃ by a combined analysis of ED and mass spectrometric data. According to the ED data the amounts of NbOI₃, NbI₄ and I₂ were 76, 21 and 3 mol%, respectively. The molecular parameters of I₂ were assumed at the values calculated from spectroscopic data.

The temperature of the measurements was 427(2) °C.

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

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

See also: Giricheva, N.I., Girichev, G.V., Shlykov, S.A., Pavlova, G.Yu., Sysoev, S.V., Golubenko, A.N., Titov, V.A.: Zh. Struct. Khim. **33** No.4 (1992) 44; J. Struct. Chem. (Engl. Transl.) **33** (1992) 517.

Replaces [II/25A\(2, 795\)](#)