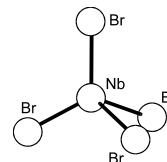


107	Br₄Nb	Niobium tetrabromide	T_d (see comment)
ED		Niobium(IV) bromide	NbBr ₄

r_g	Å ^{a)}	θ_g	deg ^{a)}
Nb–Br	2.418(5)	Br–Nb–Br	108.3(8)
r_a	Å ^{a)}		
Nb–Br	2.394(5)		



NbBr₄ and NbOBr₃ were detected in the vapor by a combined analysis of mass spectrometric and ED data. According to ED, the amount of NbOBr₃ was 18(4) mol% at the temperature of the measurements, 496(10) °C. Molecular models of C_{2v}, C_{3v}, D_{2d} and T_d symmetry were tested, and the T_d structure was preferred.

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

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

See also: Belova, I.N., Giricheva, N.I., Girichev, G.V., Shlykov, S.A.: Zh. Struct. Khim. **37** No.2 (1996) 265; J. Struct. Chem. (Engl. Transl.) **37** (1996) 232.