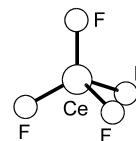


112 **CeF₄**
ED, vibrational
spectroscopy

Cerium tetrafluoride
Cerium(IV) fluoride

T_d
CeF₄

r_g	$\text{\AA}^a)$
Ce–F	2.036(5)



Reanalysis of the experimental ED data from [1]. The equilibrium Ce–F distance was estimated by a joint analysis of the ED intensities and total harmonic force field to be $r_e^h = 2.009(5) \text{ \AA}$.

The measurements were made at 1180(50) K.

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

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[1] Petrov, V.M., Girichev, G.V., Giricheva, N.I., Petrova, V.N., Krasnov, K.S., Zasorin, E.Z., Kiselev, Yu.M.: Dokl. Akad. Nauk SSSR **259** No.6 (1981) 1399; Dokl. Phys. Chem. (Engl. Transl.) **259** (1981) 765.

Replaces [II/25A\(2, 249\)](#)