

Cs - Be

G₂ BeF₄ А.И. Гинзбург 1965
Ю.В. Дридзе и др.

ДАН. СССР 152, 11, 184

Комбат. элемент

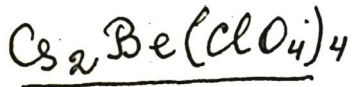
отображенности реперов.
металлов M₂BeF₄

III Li₂BeF₄

1968

31042u The crystal structure of cesium trifluoroberyllate. Steinfink, H.; Brunton, G. D. (Univ. of Texas, Austin, Tex.). *Acta Crystallogr., Sect. B* 1968, 24(Pt. 6), 807-10 (Eng). CsBeF₃ crystallizes in space group *Pnma* with $a = 4.828$, $b = 6.004$, $c = 12.794$ Å. The x-ray d. is 3.55 and $Z = 4$. Nine positional parameters and 16 anisotropic temp. factors were detd. from reflections measured on a Norelco PAILRED automatic crystal data collector and a General Elec. single-crystal orienter. The parameters were refined by least sqs. to an R of 0.067 for 267 reflections $> \sigma$. Each Cs⁺ ion is surrounded by 8F⁻ nearest neighbors with bond distances of 2.96 to 3.40 Å. The Be²⁺ ions have four nearest neighbor F⁻ ions at the corners of a tetrahedron. The Be²⁺-F⁻ distances are 1.50 to 1.62 Å. The structure of this compd. is similar to that of the high-temp. form of BaGeO₃. The repulsion of the doubly charged Be²⁺ ions increases the Be-F distances where the F⁻ ions are shared between two tetrahedra. This accounts for the unusually long (1.62 Å.) Be²⁺-F⁻ distances. RCZS

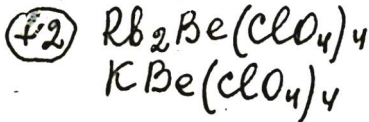
C.A. 1968. 69. 8



1972.

(Vi)

9662k Infrared spectra of cesium, rubidium, and potassium perchloratoberyllates. Serezhkina, L. B.; Grigorovich, Z. I.; Karelin, A. I.; Tamm, N. S.; Novoselova, A. V. (Mosk. Gos. Univ. im. Lomonosova, Moscow, USSR). *Dokl. Akad. Nauk SSSR* 1972, 206(3), 634-7 [Chem] (Russ). The ir spectra of $\text{M}_2\text{Be}(\text{ClO}_4)_4$ ($\text{M} = \text{Cs}, \text{Rb}$), $\text{KBe}(\text{ClO}_4)_4$ and their dihydrates were measured in the $200-4000\text{-cm}^{-1}$ region as Nujol mull. The obsd. absorption bands were assigned. V. Bekarek



C. A. 1973. 7.8. N2.



Сз Ве F₃ (Ф*, З, Нт-Н₀) № 8429/1974

Тиршова Н.И., Бобкова В.А.,
Миронова З.В., Краснов К.С.,
Данилова Т.Г.,
Редакционный "М. физ. химии",
АН СССР. М., 1974 15с. Рукопись
ген. в ВШМТ 5/III.74 N 515-74 ден

Ю

ссть ср-к

Cs Be F₃ rag

1974

Giricheva N. I. et al.

u.n.

Zh. Fiz. Khim 1974
48(6) 1611-12 (Russ)

(on Li Be F₃; III)