Cs – Be

Cs_2BeF_4 А.И. Григорьев [1963]

Ю.В. Оробец и др.

ДАН СССР 152, N1, 184

Колебат. спектры

фторобериллатов щелочн.

металлов M_2BeF_4

III Li_2BeF_4

CsBeF3

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). $CsBeF_3$ crystallizes in space group *Pnma* with $a = 4.828$, $b = 6.004$, $c = 12.794$ A. 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 A. The Be^{2+} ions have four nearest neighbor F^- ions at the corners of a tetrahedron. The Be^{2+}–F^- distances are 1.50 to 1.62 A. The structure of this compd. is similar to that of the high-temp. form of $BaGeO_3$. The repulsion of the doubly charged Be^{2+} ions increases the Be–F distances where the F^- ions are shared between two tetrahedra. This accounts for the unusually long (1.62 A.) Be^{2+}–F^- distances. RCZS

C. A. 1968. 69. 8

$Cs_2Be(ClO_4)_4$ 1972.

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 $M_2Be(ClO_4)_4$ (M = Cs, Rb), $KBe(ClO_4)_3$ and their dihydrates were measured in the 200–4000-cm^{-1} region as Nujol mull. The obsd. absorption bands were assigned. V. Bekarek

(Vi)

(+2) $Rb_2Be(ClO_4)_4$
$KBe(ClO_4)_4$

C. A. 1973. 78. N2.

$CsBeF_3$ (Ф*, S, $H_T - H_0$) X 8429/1974

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Ю

есть ф-к

$CsBeF_3$ gaz 1974

Giricheva N. I. et al.

M. n.

Zh. Fiz Chim 1974
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(all $LiBeF_3$, III)