

86-Hal

SB-Hal

BP-5036-IV | 1935

Hal = Cl, 7

Butkov K,

член

Acta physicochim. URSS,
1935, III, N2-3, 205-218

SB Hal

Kolditz L.

1967

Halogen Chem. V. 2,
London - New York,
Acad. Press, 1967, 115-168

Галогенная химия
и сырьё



Sb Hal₆³⁻

X = Cl, Br, I

1970

(58910r) Vibrational spectra of SbX_6^{3-} and TeX_6^{2-} anions: new observations on the singular properties of some systems related to XeF_6 . Adams, Christopher John; Downs, A. John (Dep. Inorg. Chem., Univ. Oxford, Oxford, Engl.). *J. Chem. Soc. D* 1970, (24), 1699-701 (Eng). Anal. of Raman and far-ir spectra indicates that TeX_6^{2-} and SbX_6^{3-} differ from conventional octahedral systems: TeX_6^{2-} has an octahedral ground state and less symmetrical electronically excited states; SbX_6^{3-} has a distorted octahedral configuration with C_{3v} symmetry (as does the instantaneous configuration of XeF_7) and is very sensitive to environment. For TeX_6^{2-} , the ratio of intensities of ν_1 and ν_2 vibrations is much larger (~ 10 fold) than for octahedral species; the ν_3 vibration is clearly perceptible in the Raman spectrum; no feature attributable to ν_4 was detected at $> 70 \text{ cm}^{-1}$. In the region assocd. with Sb-X stretching modes, 3 Raman lines, 2 of which were polarized and coincident with ir absorptions, were obsd. FBJN

Hal =

Cl, Br, I

Di

exp-pa

C.A. 1971. 74. 12.

(+1)

☒

Sb X₆ n-

X = F, Cl, Br

n = 1, 2

Cur. n.

Rao D.V.R.A. et al. 1970

Proc. Indian Acad.
Sci., A71(1), 42

(see. P-Hal) III

70225.4617

Ph, Ch, TC

 $X = \text{Cl, Br, I}$ SbX_6^{3-} (сущ. ност. ср. ашшш, колес)

1976

*4-17079

Sanyal Nitish K., Verma D.N., Dixit L.
 Force fields and vibrational mean amplitudes of SbX_6^{3-} and BiX_6^{3-} , $X = \text{Cl, Br, and I}$. "Indian J. Phys.", 1976, 50, N 4, 483-487

(англ.)

0822 пнк

777 777

813

ВИНИТИ

$SbCl_6^{3-}$; $SbBr_6^{3-}$; SbI_6^{3-} 1976

85: 151062c Force fields and vibrational mean amplitudes of SbX_6^{3-} and BiX_6^{3-} , X = chlorine, bromine and iodine. Sanyal, Nitish K.; Verma, D. N.; Dixit, L. (Dep. Phys., Univ. Gorakhpur, Gorakhpur, India). *Indian J. Phys.* 1976, 50(4), 483-7 (Eng). A normal coordinate anal. of SbX_6^{3-} and BiX_6^{3-} where X = Cl, Br, and I, is presented using the F-G matrix method of E. B. Wilson (1955) using GVFF and MUBFF potential functions. Trends in force constants are discussed and mean amplitudes of vibration for principal distances in octahedral systems are presented to supplement the force field data. The characteristic mean amplitudes of vibration in isostructural ions were also examd.

cul.
not.

(+5) ☒



C.A. 1976. 85, N20

SVX₃

X = гамоген.

Hyde Robert G.,
Peel J. Barrie.

1977

"*Mon. Phys.*", 1977,
33, №, 887-896.

рагелі
електр.
структ.

(ан. SnX₄) III

SBX5

1979

X-220004

Drake M.C., Rosenblatt G.M.,
Raman spectroscopy in high
temperature chemistry.

CKP

10th Materials Research Sympo-
sium on characterization of
High temperature, Vapors and
Gases.

NBS Special Publication 561.
Volume 1, 1979, 609-646.
(Углерод)

SbX₃

X-ray

1979

Drake M.C., Rosenblatt G.M.,
Raman spectroscopy in high temperature chemistry.

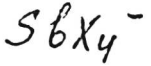
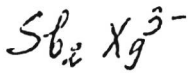
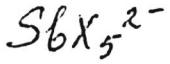
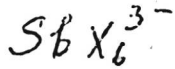
10th Materials Research Symposium on characterization of High temperature, Vapors and Gases.

NBS Special Publication 561
Volume 1, 1979, 609-646.

● (y Typbura)

CKP

1980



X = Br, I.

(2i)

94: 9404h Low-frequency vibrational spectra of bromo- and iodoantimonates. Jagodzinski, Paul W.; Laane, Jaan (Dep. Chem., Texas A and M Univ., College Station, TX 77843 USA). *J. Raman Spectrosc.* 1980, 9(1), 22-7 (Eng). The Raman and far-IR spectra of antimony halide complexes of formula SbX_6^{3-} , SbX_5^{2-} , $\text{Sb}_2\text{X}_9^{3-}$ and SbX_4^- were recorded and analyzed for X = Br and I. The stretching frequencies for the bromo complexes range from ~ 135 to 220 cm^{-1} for external bonds and from ~ 110 to 130 cm^{-1} for bridging bonds. For the iodo complexes, the ranges obsd. are 138 - 174 cm^{-1} (external) and 87 - 127 cm^{-1} (bridging). Approx. force consts. were calcd. for the anions, and these were compared to values previously detd. for halobismuthates. In general, the ordering of the force consts. was $\text{Sb-Br} > \text{Sr-I} \sim \text{Bi-Br} > \text{Bi-I}$. As was found for the Bi complexes, the stretching force consts. were greatest for bonds in the anions in which the largest no. of other bonds were to bridging halogens.

C.A., 1981, 9412

1980

SbX_6^-
(см. прим.)
М.П.

$X = \text{галоген}$

(см. SiX_6^{--} ; III)

Sarkar P.C., et al.,
Indian J. Pure Appl.
Phys. 1980, 18 (7), 516-23

SB Y₆

1982

У-замок

Mohar S., Mukunt-
han A.

Proc. Indian Natl.
Sci Acad., Part A. 1982,
48 (2), 161-166.

(cur. Ge Y₆; III)

SbH_3-MX

[OM-21276]

1984

$X=F, Cl$

Arlinghaus R.T.,
Andrews L.,

УК спектр
в газовой фазе.

J. Chem. Phys., 1984, 81,
N 10, 4341-4351.

SbX₃

1984

X-элемент.

Grodzicki Michael,
Walther Horst, et al.

оромо-

Z. Naturforsch., 1984,

электрон.

B 39, N 10, 1319-1330.

спектры


(см. NX₃; III)

SBX₃

1984

X = F, Cl, Br.

Xin Min, Chow Chiu
Yue-Yung, et al.

γ, cēppek-
mupa.

J. Electron. Spectrosc.
and Relat. Phenom.,
1984, 33, N2, 93-105.

(cēp. NX₃; III)

Талоченко Св

1986

Кузнецов Р. П.;

Харитонов Ю. Я.

Исх. меморанд. № 11111111,

1986, 31, N 7, 1716-1722

(см. Талоченко Р; III)

Таловенгоз Sб

1986

Kuznetsov S. L.,

Vi, етрукт. Kharitonov Yu. Ya.

нарае.,

Zh. Neorg. Khim.

сел.

носе.

1986, 31 (7), 1716-22.

(сел. Таловенгоз Р; III)

SbX_3

(om. 31 177)

1988

$X = F, Cl, Br,$
 g

Sakai Y., Miyoshi E.,

reocemp,
M, meopern.
pocern.

J. Chem. Phys. 1988,
89, N 7, 4452-4453.



$[SbX_6]^{n-}$

1991

$n = 1, 2, 3$

X - 2aueueu

116: 70739k Calculation of force constants and vibrational frequencies of octahedral metal halide (MX_6) molecules. Hann, Egbert; Heibisch, Ralph (Anal. Cent., Cent. Inst. Phys. Chem., 1199 Berlin, Germany). *Spectrochim. Acta, Part A* 1991, 47A(8), 1097-101 (Eng). The vibrational frequencies of some octahedral species ($[SbX_6]^-$, $[SbX_6]^{2-}$, $[NbX_6]^-$, $[NbX_6]^{2-}$, $[TaX_6]^-$, $[TaX_6]^{2-}$; X = F, Cl, Br, I) were calcd. by means of 6 extrapolated mol. force consts. using some linear relations between the force consts. and the reciprocal radii of the ligands. A statistical treatment of these correlations allowed the calcn. of error limits for a probability of 90%. The computations of the force consts. and vibrational frequencies were based on the GF-matrix method.

Calc. 100cm

(72) $\square$

C.A. 1992, 116, N 8

1992

SBX_3

SBX_5

$X = F \div J$

Breidung J., Thiel W.,

J. Comput. Chem. 1992,

13 (2), 165-76

ab initio
pariem

(all.



PX_3, PX_5 $X = F \div J$)

86/3

1011 · 369391

1992

$\Gamma = F, U, V, J$

Ежов Ю. С.,

ж. физ. химии, 1992, 66,
N 12, 3258-3263.

сим. пост.
структура

Симметричные постоянные, кон-
станты Корнелисова вза-
имодействия и особенности

строения триагольников
росдора, лямбда и сурбм.б.