

R6-Artillery
go

VIII 1674-B9

1959

Nd_2CO_3 , $\text{Cs}\text{Nd}_2\text{Cl}_4$, $\text{Rb}\text{Nd}_2(\text{NO}_3)_3$
($\gamma_{\text{u}-\text{o}}$)

Jones D.H.,

Spectrochim. acta, 1959, n6, 409-411

Prec; 1960, n16, 46268 10

$\text{RbUO}_2(\text{NCS})_3 \cdot 2\text{H}_2\text{O}$

1963

$\text{Rb}_4\text{U}(\text{NCS})_8$

БР-3048-VIII

Харитонов Д. А.
изд.

(V)

Ж. неорг. хим.,
1963, 8, 467-8



VIII-5011

1963

KUF₆, RbUF₆, NH₄UF₆ (vi)

Reisfeld M.J., Crosby G.A.

J. Molecul. Spectrosc., 1963, 10,

232-234.

PKX, 1965, 45120

● 10

err op. K

VIII 3047

1964

$(\text{NH}_4)_4\text{Th}(\text{NCS})_8 \cdot 2\text{H}_2\text{O}$, $\text{Rb}_2\text{Th}(\text{NCS})_8 \cdot 2\text{H}_2\text{O}$,
 $\text{Th}(\text{NCS})_4 \cdot 4\text{H}_2\text{O}$, $(\text{NH}_4)_3\text{Th}(\text{NCS})_7 \cdot 5\text{H}_2\text{O}$,
 $\text{Cs}_4\text{Th}(\text{NCS})_8 \cdot 2\text{H}_2\text{O}$, $\text{K}_4\text{Th}(\text{NCS})_8 \cdot 3,5\text{H}_2\text{O}$,
 $\text{Rb Th}(\text{NCS})_5 \cdot 3\text{H}_2\text{O}$. (D_i)

Харитонов И.И., Малогашева А.К.,
Бадаева А.В.,

Узб. АН ССР. Сер. хим.
1964, № 4, 618-622

10

$Rb_2^{+} UO_4^{-}$

3585 16

1965-

D. Y.

Cypranaea melanosticta
neglecta (?)

Hoekstra H. R.

J. Inorg. and Nucl. Chem., 1965, 27, n4, 801 -
- 852 (see 2)

Infrared spectra of some alkali
metal uranates.

Prepared, 1960, 20.2.74

(b)

7

Rb₂UDy₄

3585 16

1965

D. 4-0 Cuprates weermerix
negatieve (1))

Hoekstra H. R.

J. Thor. and. Nucl. Chem., 1965, 27, 14, Rot-
- 802 juun,

Infrared spectra of some alkali-
metal uranates.

?

Due guy, 1966, 22.2.77

7

(b)

Rb₂WO₂(NO₃)₃ Bp-2443-VIII

1965

Topping G.

Spectrochimica, 1965, 21
N10, 1793 - 51.

Infrared assignments and
force constants

γ_1 : $[Li_2(UO_2Cl_4), Na_2(UO_2Cl_4),$
 $K_2(UO_2Cl_4), Rb_2(UO_2Cl_4), Cs_2(UO_2Cl_4)$,
 $Li_2(UO_2Cl_4) \cdot 2H_2O; Na_2(UO_2Cl_4) \cdot 2H_2O,$
 $K_2(UO_2Cl_4) \cdot 2H_2O; Rb_2(UO_2Cl_4) \cdot 2H_2O;$
 $Cs_2[UO_2Cl_4] \cdot 2H_2O)$

Ripars R., Mizell C.

Rev. roumaine chim., 1966, 11, N7, 805-808
 Studien über Uranylechloride.
 I. Thermische Stabilität und IR-Spektren
 der Uranyl-tetrachloridcalcate
 mit Alkalimetallen.

Pec Kars, 1964, 12.5188

HO

CC76 Q.K.

Rb₂(UO₂Cl₄)·2H₂O; BP-8-6063

1966

Ripan R et.al.,

(vii)

Rev. roumaine chim, 1966

11, N^o, 805-807.

Di ($KUO_2(NO_3)_3$; $RbUO_2(NO_3)_3$,
 $CsUO_2(NO_3)_3$; $NH_4UO_2(NO_3)_3$;
 $(C_2H_5)_4UO_2(NO_3)_3$.

VIII 36
1967

Bullock J.J.,

J. Inorg. and Nucl. Chem., 1967, 29

NG, 2257-64

Infrared spectra of some uranyl
nitrate complexes.

PX 1968
45019

20

ccTB
open

Rb₂O₃

RbSrU₂O₆F

RbBaU₂O₆F
(Kongen.)

Синкапор

Kemmler - Sack S.

Z. Anorg. Allg. Chem.,
1968, 363 (5-6),
295.

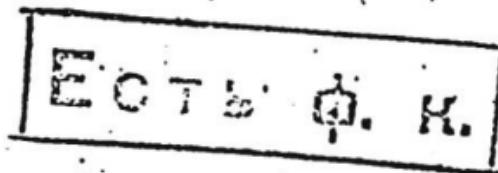
(cис. KUO₃) III

γ U-O (gadolinium coexisting) VIII 40 / 1968

MgO, MeWO_4 , $\text{Me} = \text{Rb}, \text{Cs}, \text{K}, \text{Na}, \text{Li}$, WO_2CO_3 , $\text{WO}_2\text{Cl}_2 \cdot 3\text{H}_2\text{O}$
Ohwada K., "gr."

Spectrochim. acta, 1968, A24,
N5, 595 - 99.

W.



PX 1968
205215

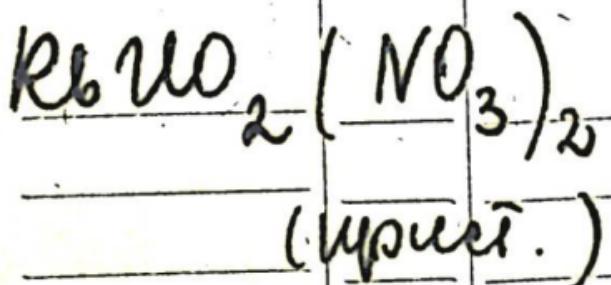
$\text{Rb}_2[\text{UO}_2(\text{NO}_3)_2](\text{NO}_3) \times$ 4540
(8i) 1988

Волгодонск 1. В., Касиевка д. 21,
Поснеговка д. 9п, Серебрени-
ковка д. 21.; д. приис.-
сийск., 1968, 8(6),
990-7

Ca 1968

10

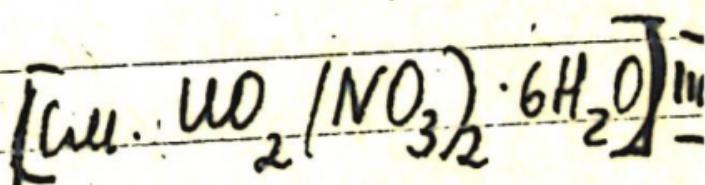
1969



Касицк А. Н.,
Валеаузько М. Б.

- смешан
- нонадисперсный

Лаб. АН БССР, Сер.
физ. - мат. н.,
N1, 115-120.



Rb-коэнергс-

Rb-U

1970

22 Б315. Инфракрасные спектры комплексов $M_2UO_2F_4 \cdot H_2O$. Sergienko V. I., Davidovich R. L.
IR-spectra of $M_2UO_2F_4 \cdot H_2O$ complexes key words: IR-spectra, uranyl fluoride complexes. «Spectrosc. Lett.», 1970, 3, № 2, 35—42 (англ.)

Получены ИК-спектры комплексов $M_2UO_2F_4 \cdot H_2O$ ($M=Rb, Cs$) с H_2O , D_2O и HDO в области 200—3530 cm^{-1} . Узкая полоса с частотой 814 cm^{-1} и полосы в области 879—889 cm^{-1} отнесены к симм. и асимм. кол. иона UO_2^{2+} . По этим частотам вычислена силовая постоянная связи уран—кислород (6,40 мдн/А), ее порядок (2,14) и длина (1,739 А). Полосы 288 и 281 cm^{-1} отнесены к деф. кол. UO_2^{2+} , а полосы 384, 380 cm^{-1} к вал. кол. связи уран—фтор. Высокое значение частоты OH (3530 cm^{-1}) указывает на отсутствие Н-связи.

М. А. Ковнер

X· 1970.

22

1972

2RbCl·UCl₄

131293k Binary systems containing rubidium and cesium chlorides and uranium tetrachloride. Desyatnik, V. N.; Raspopin, S. P.; Chervinskii, Yu. F. (Ural. Politekh. Inst., Sverdlovsk, USSR). *Izv. Vyssh. Ucheb. Zaved., Tsvet. Met.* 1972, 15(3), 120-1 (Russ). Melting diagrams of RbCl-UCl₄ and CsCl-UCl₄ systems were detd. by DTA. The RbCl-UCl₄ system is of a complicated eutectic type with 4 chem. compds.: 2RbCl·UCl₄ (I), which congruently m. 620°, 3RbCl·2UCl₄ (II), which incongruently m. 430°, RbCl·UCl₄ (III), which incongruently melts and exists at 330-60°, and RbCl·3UCl₄ (IV), which incongruently m. 345°. One eutectic formed by RbCl and I contg. 22.0 mole % UCl₄ m. 535° and another one formed by III and IV contg. 57.0 mole % UCl₄ m. 345°. The CsCl-UCl₄ system contains 3 chem. compds.: 2CsCl·UCl₄ (V), which congruently m. 615°, 3CsCl·2UCl₄ (VI), which incongruently m. 498°, and CsCl·UCl₄ (VII), which incongruently m. 375°. One eutectic formed by CsCl and V contg. 17 mole % UCl₄ m. 522° and another one formed by VII and UCl₄ contg. 63.0 mole % UCl₄ m. 356°.

D. B. Ocenaskova

C.A. 1972. 77, N20.



30724.8829
TEE, Ch

In Rb_nP_mLi_lF₄ 29932

1973
4-1145

*

Soga T., Ohwada K., Iwasaki M.

Far infrared absorption spectra of
rubidium uranium complex fluorides.
"J. Inorg. and Nucl. Chem.", 1973, 35, N 6,
2069-2074 (анgl.)

0921 ник

892 892 0914

ВИНИТИ

60126.6

Ph, Ch, TC

31603 Rb₃UO₂F₅(Pi) 45-11242
СХР 1975

Brusset H., Dao Nguyen Quy, Knidiri
M. Etude des composés M₃UO₂F₅ (M=K, Rb,
Cs, NH₄) par spectrophotométries d'absor-
ption infrarouge et de diffusion Raman.

I. Spectres de diffusion Raman des com-
posés M₃UO₂F₅ (M=K, Rb, Cs, NH₄)

"Spectrochim. Acta", 1975, A31, N 12,

1819-1827

(франц., рез. англ.)

И.К. спектр

60426.8408

31603

1976

Ch, Ph, TC, MGU

Rb₂UO₂F₅

ХУ-12683

Dao Nguyen Quy, Knidiri M. Etude des
composes M₃UO₂F₅ (M = K, Rb, Cs, NH₄)
par spectrophotometries d'absorption i.r.
et de diffusion Raman. II. Spectres
d'absorption i.r. "Spectrochim.acta",
1976, A 32, N 3, 481-486 (англ.)

0609 пик

584 587

ВИНИТИ

60721.1823

TC, Ch, Ph

$Rb_3 UO_2 F_5$
31603

1976

X-5-13584

Dao Nguyen Quy, Knidiri M. Etude
des composés $M_3 UO_2 F_5$ ($M = K, Rb, Cs, NH_4$)
par spectrophotométries d'absorption i.r.
et de diffusion Raman. III. Effet du cati-
on sur les fréquences de vibration de
l'ion $UO_2 F^{3-}$.
см.п.р.л. № 20

"Spectrochim. acta", 1976, A 32, N 5,
1113-1118 (Франц., рез. англ.)

V; cur. noct. ($K_3^{+} UO_2 F_5$, $Rb_3 UO_2 F_5$, 1979
 $Cs_3 UO_2 F_5$, $(NH_4)_3 UO_2 F_5$) BX-1935

Ohwada K.,

Spectrochim. acta, 1979, A35, v1, 99-104
Normal coordinate analysis of
some uranyl pentfluoride complexes

Publ. No. 1979, 135184

10

(P)

1980

Rb₂WO₂Cl₄

Ohwada K.,

cuu. 10cm.

Di

Appl. Spectrosc. 1980,
34(3), 327-31.

(cu. K₂WO₂Cl₄; III)

$\text{Rb}_4(\text{UD}_2)_2\text{F}_8 \cdot 2\text{H}_2\text{O}$ Lommel 18177) 1981

Flint C.D., Tanner P.A.

енергії,
струки

J. Chem. Soc. Faraday
Trans., 1981, Part 2,
77, N12, 2339-2355.

$\text{Rb}_2(\text{UO}_2)_2$

1981

Flint C. D., et al.

J. Chem. Soc. Faraday

crekuip Trans., 1981, Part 2,
77, N 12, 2339 - 2355.

(cer. $\text{K}_2(\text{UO}_2)_2\text{F}_9$; II)

$Rb_2 UO_2 Cl_4$ 1982
Natarajan A., Soma-
Sundaram S.

Cur. noem. Indian J. Pure and
Appl. Phys., 1982, 20,
N 10, 784-786.



RbUf₆

[01. 19023]

1984

Arthers S.A., Beattie
I.R., et al.

UK crekmp.
reomēpsus J. Chem. Soc. Dal-
ton Trans. 1984,
711 - 713.

$\text{RbUO}_2(\text{NO}_3)_3$

1995

Ohwada Ken,
Ginji Fujisawa.

Yazep
exp,
II
Spectrochim. Acta,
Part A 1995, 51A(3),
309-18.

(see $\text{CsUO}_2(\text{NO}_3)_3$; III)

Rb₂ UO₄
Rb₂ U₂O₇

2001

UK CREEKPI,
KOREGAM.
CREEKPI,
CREEKPI, Di

| 135: 128948p Raman and infrared spectra of rubidium and
cesium uranates(VI) and some problems assigning diuranate site
symmetries. Volkovich, V. A.; Griffiths, T. R.; Thied, R. C. (Chemistry
Department, Radiochemistry Centre, The University of Manchester,
Manchester, UK M13 9PL). *Vib. Spectrosc.* 2001, 25(2), 223–230 (Eng),
Elsevier Science B.V. The vibrational spectra of rubidium and cesium
mono- and diuranates, M₂UO₄ and M₂U₂O₇ (M=Rb or Cs), have been
measured in the IR range, 4000–200 cm⁻¹, and the Raman shift range
of 1100–50 cm⁻¹. The Raman spectra of these uranates are reported
for the first time. The uranate ion site symmetries were assigned, based

(7)

BaUO₄,

C₂ U₂O₇

C.A. 2001, 135, 19

on the anal. of the spectra, as D_{4h} for Rb_2UO_4 , D_{2h} for Cs_2UO_4 . Assigning definite site symmetries for the diuranates presented some difficulties because it was not possible to do so unambiguously from spectral data but the likeliest for $Rb_2U_2O_7$ is C_{2h} and either C_2 or C_s for $Cs_2U_2O_7$. The electronic spectra of mols. with a center of symmetry are predicted to exhibit a greater temp. effect than acentric species. This is shown exptl. from diffuse reflectance spectra, by comparing the spectra of cesium mono- and diuranates at liq. nitrogen and room temp.; the much greater temp. effect of centrosym. over acentric species is clearly