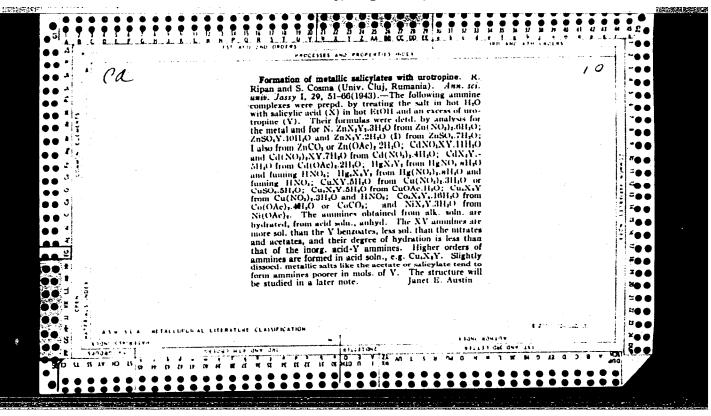
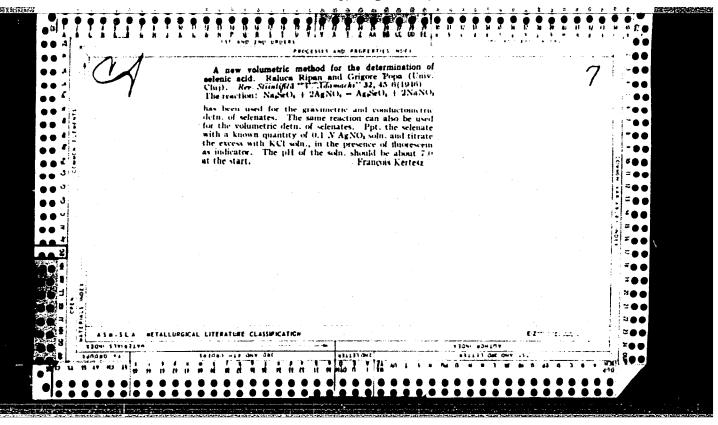


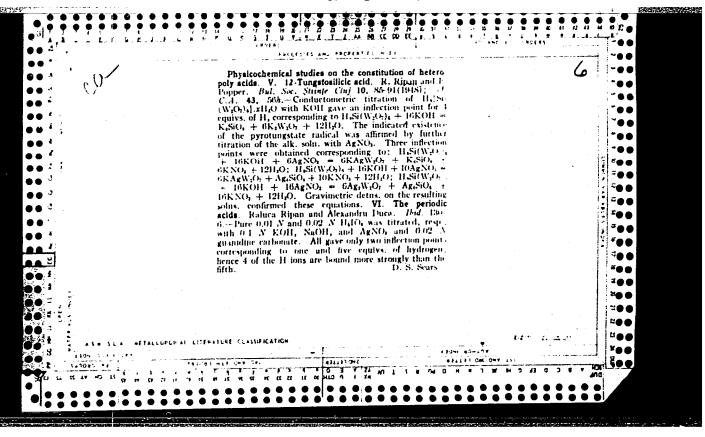
### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

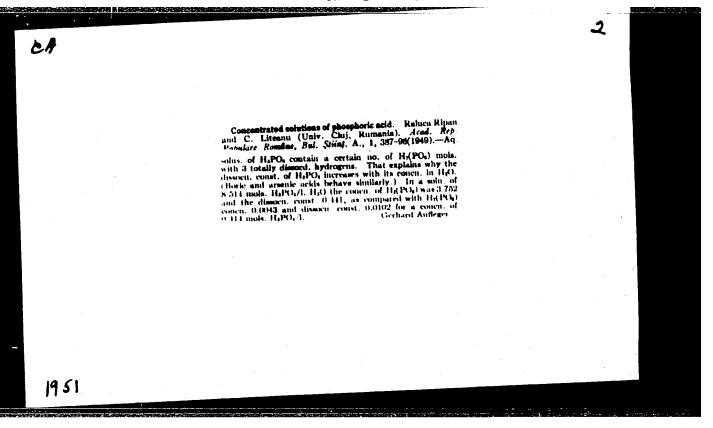
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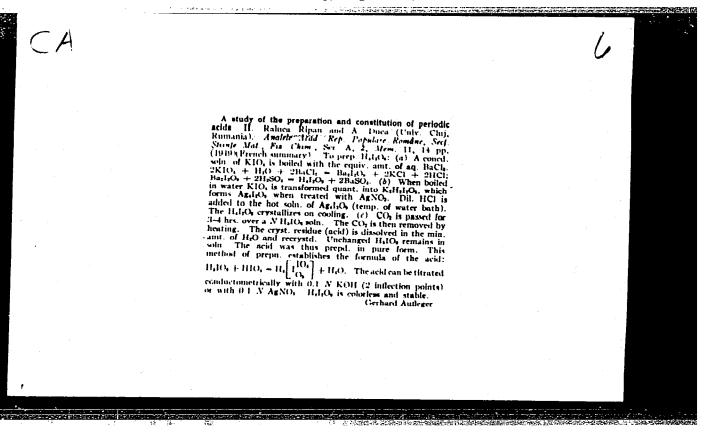


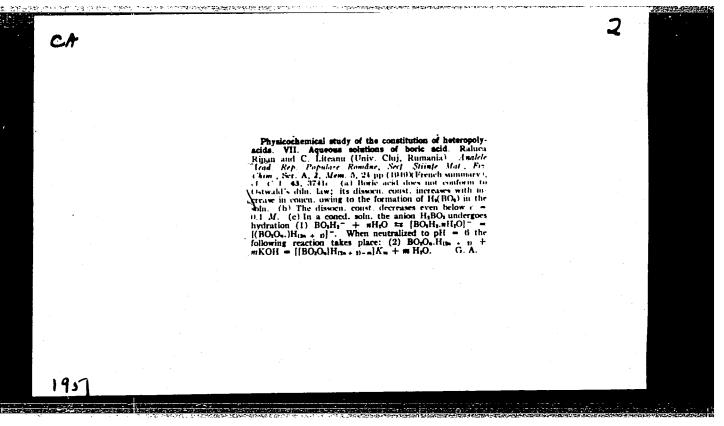


The analysis of light alloys 1. A new gravinistic method for the rapid determination of aluminum. Radia. Rippa and 1. Party (Pint. Chi.), Rumania 1. Anal. New Frighter Roman, Pint., Straft A. 1, 1027–111, 1017–112, 1017–112, 1017–113, 1017–114, 1

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RD

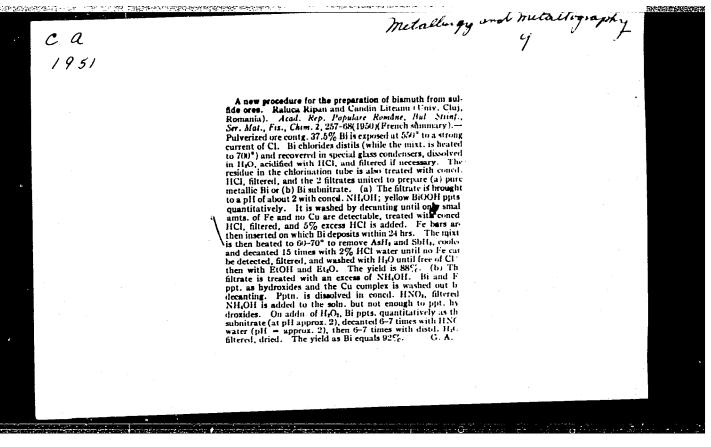
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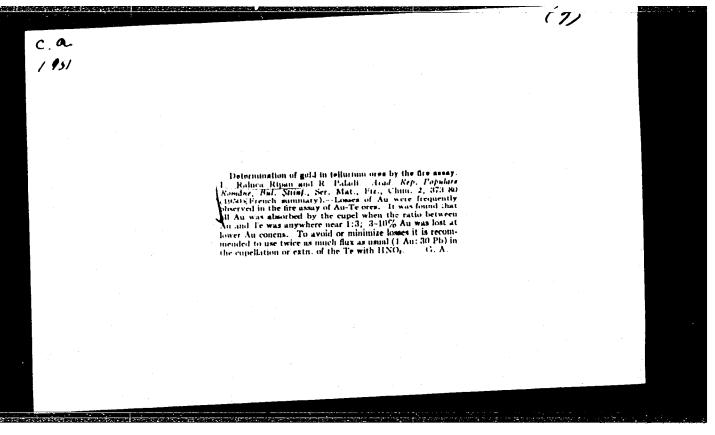
# "APPROVED FOR RELEASE: Tuesday, August 01, 2000

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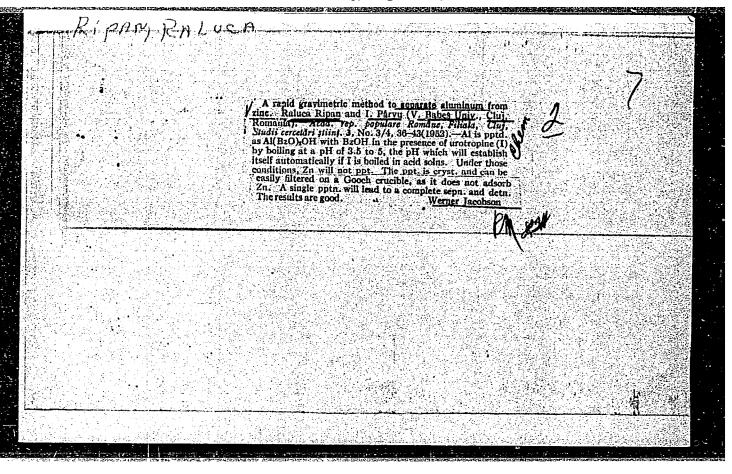
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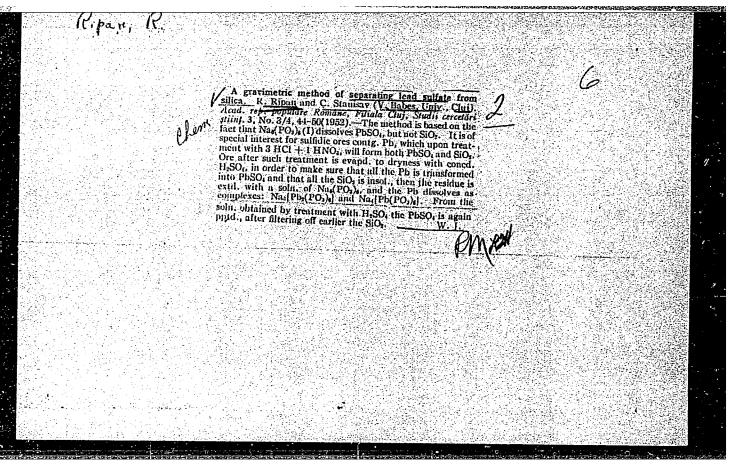
CIA-RDP86-00513R0014449



The preparation of one ammonium molybdate (NH)the mixture is then filtered through a Bachner found and MoDynall Of from domestic molybdate (NH)the mixture is then filtered through a Bachner found and NH is added, the first is sholl, the (6:1), and heated belong as a waterball.

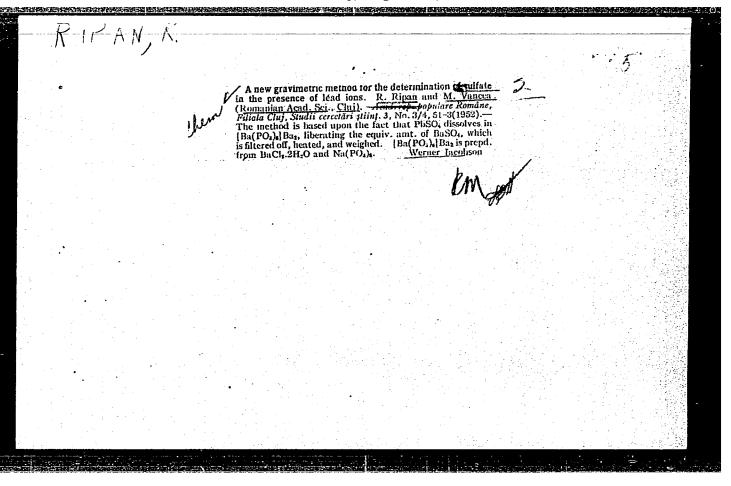
Medical Modynall Of from domestic molybdate (NH)the mixture is then filtered through a Bachner found and the Mills is added, with slaking the bodding in a waterball. NH, is added, with slaking the bodding in a waterball with the Mills is added, and the slake of the state of the slake of the state of the slake of the state of the slake of the slake





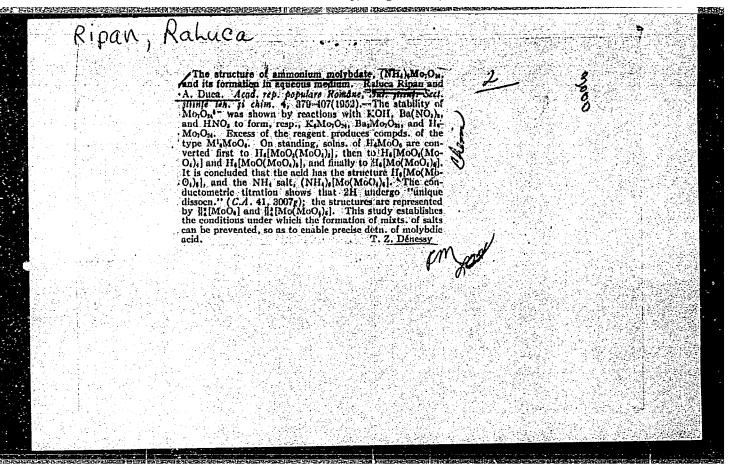
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### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

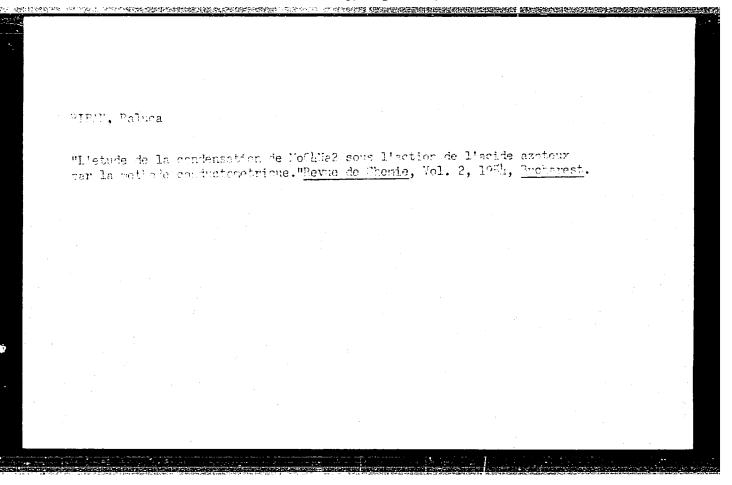
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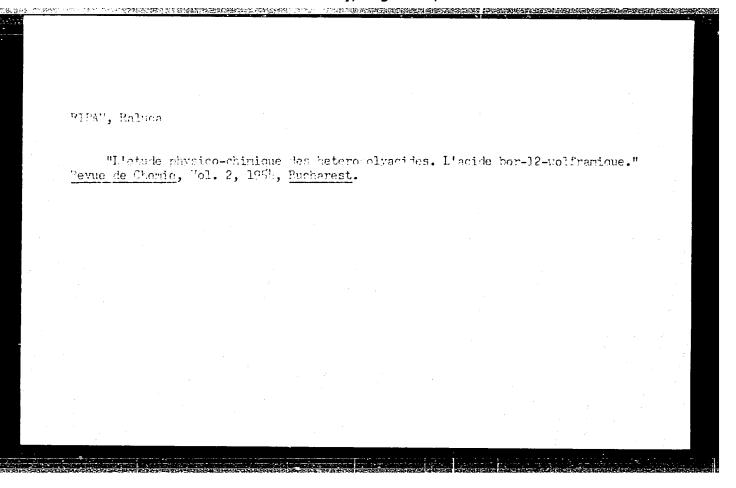


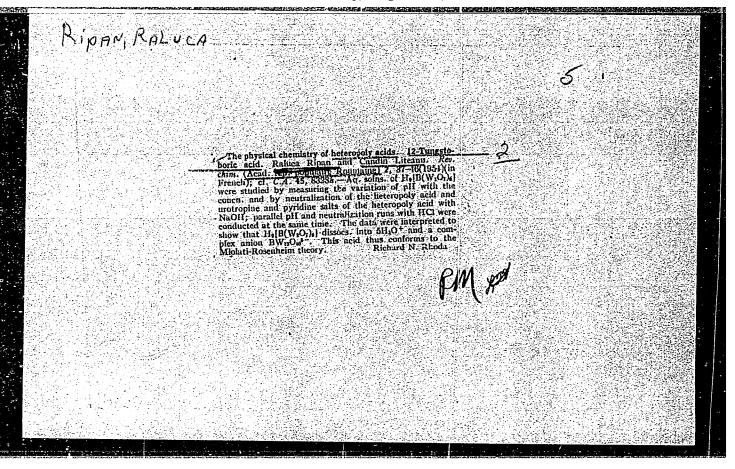
RIPAN, R.

"Physicochemical study of the constitution of hetropolyacids. Note 5.. The phospho-12 wolframic acid. p. 215. BUTETIN STIINTIFIC. VOI.4, no. 2, Feb. 1953. Bucuresti Rumania.

SO: Monthly List of East European Accesssions, L.C. Vol. 2, No.11, Nov. 1953, Uncl.





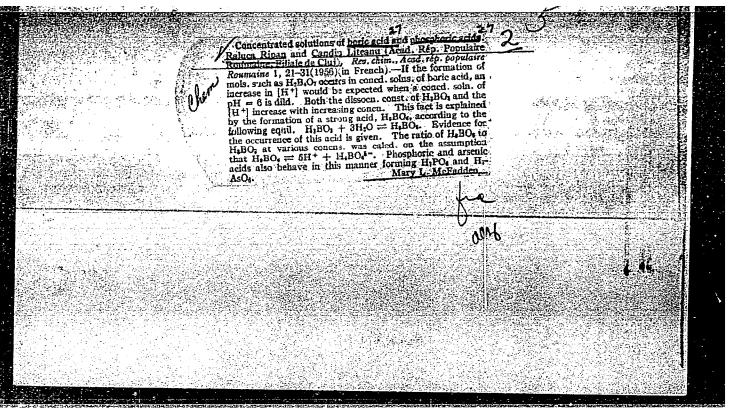


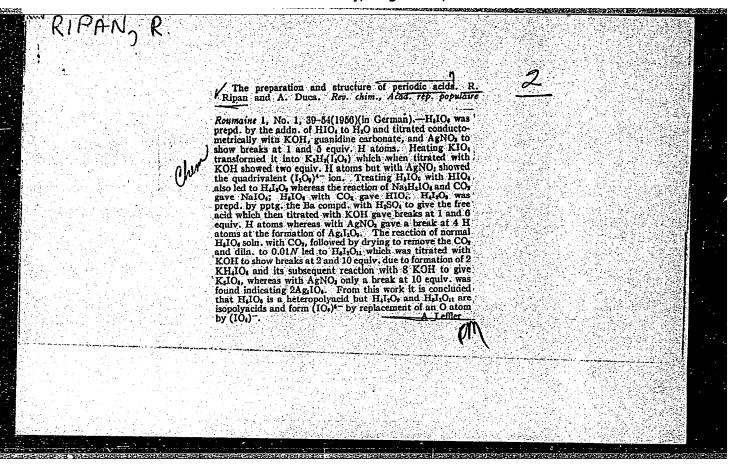
RIPAN, R.

Achievements and tasks in the field of chemistry.

p. 57 Vol. 4, no. 2, 1955 ANALELE Bucuresti

SO: "onthly List of East European Accessions (EEAL), IC, Vol. 5, no. 12



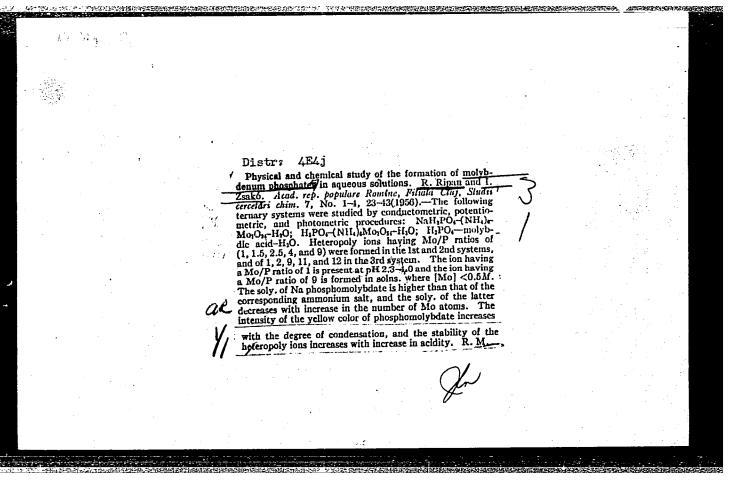


RIPAN R; MARCU,G; PASCU,N; Finding of products rich in tellurium in the nonferrous metal industry and recovery of tellurium. p.7

Vol.4 No.1/2, Jan-June 56

Bucharest

So: Monthly list of East European Accessions (EEAL), IC, Vol5 Ne.10, Oct 56



The behavior of pyrophosphoric acidivaqueous solutions.

Ripan and I. Zsako, Acad. rep. populare Romine, Filiala City, Studii cerceldrichim. 7, No. 1-4, 45-52(1956).—
From pH and hydrolysis-rate measurements, it was found that, unlike coned. solus. of orthophosphoric acid, no abnormal acidity is found when solus. of 0.25-3.0M pyrophosphoric acid were used. Measurements, performed in a N HsSO, solu. at room temp., showed that the hydrolysis rate of molybdopyrophosphoric acid is much greater than that of pyrophosphoric acid as much greater than that of pyrophosphoric and pyrophosphoric acid is a first-order reaction. The hydrolysis rate const. of pyrophosphoric acid is 4.80 × 10-4/sec. and for molybdopyrophosphoric acid is 4.80 × 10-4/sec. Thus, it was proved that the presence of Mo groups within the coordination sphere of Patons in pyrophosphoric acid results in an instability of the Po-D P bonds.

Distr: 4E4.1

Rip HM Kaluca, Virf. L.

RUMANTA/Analytical Chemistry - Analysis of Inorganic Substances.

E-2

Abs Jour

: Ref Zhur - Khimiya, No 8, 1958, 24836

Author

: Ripan Raluca, Virf, L.

Inst Title

New Method of Gravimetric Determination of Bismuth and

Its Utilization in the Analysis of Pharmaceutical Prepara-

tions.

Orig Pub

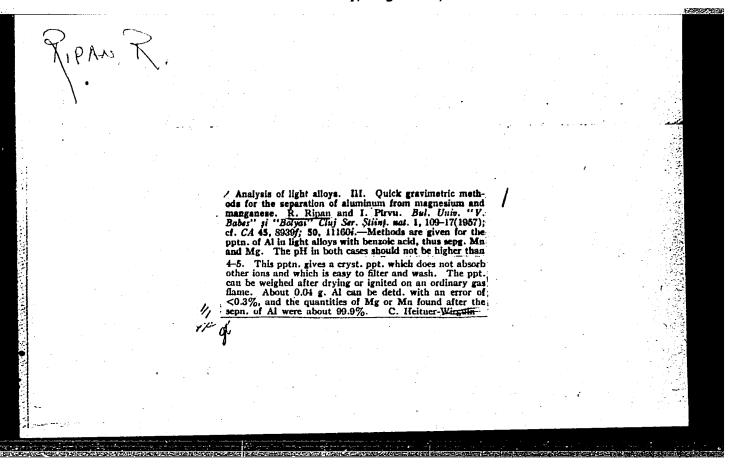
: Farmacia (Romin.), 1957, 5, No 5, 393-397

Abstract

On addition of pyridine (to pH 5-6) to a warm solution of K BiI (formed on interaction of Bi and KI) the unstable, colored Bi complexes which are formed at first, undergo hydrolysis and Bi separates quantitatively in the form of BiOI precipitate of red-brown color, which is suitable for gravimetric determination of Bi. The sample being analyzed, containing 0.04-0.06 g Bi, is dissolved in concentrated HNO, diluted with water to 150 ml, heated at

Card 1/2

18



KITIAN, MALUE.A

RUMANIA/Inorganic Chemistry - Complex Compounds.

C.

Abs Jour

: Ref Zhur - Khimiya, No 10, 1958, 31968

Author

: Raluca Ripan, Gheorghe Marcu

Inst

: Academy of Sciences of Rumania,

Title

: Study of Inorganic Compound Structure with Radioactive Isotopes, I. Structure Study of Hexamethaphosphates

With Sr90.

Orig Fub

: Commun. Acad. RPR, 1957, 7, No 3, 323-327

Abstract

: Sr hexamethaphosphate was prepared for the determination of hexamethaphosphate structure. The activity distribution was investigated by synthesis followed by analysis, and it was found that about 4% of the total activity appeared in SrSO<sub>14</sub> obtained by dissolving hexamethaphosphate in HCl and treating it with Na<sub>2</sub>SO<sub>14</sub>. This activity

Card 1/2

RUMANIA/Inorganic Chemistry - Complex Compounds.

C.

Abs Jour : Ref Zhur - Khimiya, No 10, 1958, 31968

distribution indicates that the strontium atoms produce bonds in the compound under study in a different way.

Card 2/2

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

### CIA-RDP86-00513R001444

RUMANIA/Chemical Technology. Chemical Products and Their Application. Elements. Oxides. Mineral Acids. Eases. Salts.

Abs Jour: Ref Zhur-Khim., No 2, 1959, 5246.

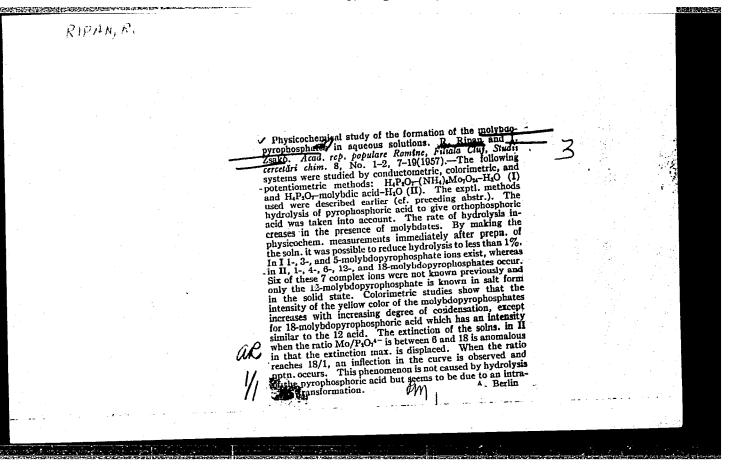
hot water, after which the solution is heated to  $80^{\circ}$  and a small excess of 12% NH<sub>4</sub>OH is added to it (with stirring for 2-3 hours). The solution is filtered, and the precipitate is washed with 5% solution of NH<sub>4</sub>OH until  $80_{4}^{\circ}$ 2- is eliminated completely. The filtrate together with the wash water is evaporated. The precipitate is boiled with 45% NaOH solution (55 ml per every 70 g of the product). Having boiled it for 15-20 min, a flow of air is passed through for 2 hours under continuous stirring in a water bath in the presence of catalysts CuO and CuSO<sub>4</sub> in order to exidize As3+ into As5+. The precipitate is filtered off and washed with water. The filtrate is treated (under stirring) with

Card : 2/3

25

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014449

H-8



В

RIPAN, R.

Theory Solutions. RUMANIA / Physical Chemistry.

of Acids and Bases.

: Ref Zhur - Khimiya, No 12, 1959, No. 41711 Abs Jour

Ripan, Raluca; Marcu, Cheorghe Rumanian AS, Iasi Affiliate Author

: Determination of the Solubility of Inst Title

Dipyridine Zinc Halides and of Dipyridine Zinc Thiocyanide by means

of Radioactive Zn-65

Studii si cercetan stunt. Acad. RPR Fil. Iasi. chim, 1957, 8, No 1, 27-31 Orig Pub

Solubility and solubilization (S) of (ZnPy<sub>2</sub>)Cl<sub>2</sub>(I), (ZnPy<sub>2</sub>)Br<sub>2</sub>(II), (ZnPy<sub>2</sub>)<sub>2</sub>I<sub>2</sub> (III) and (ZnPy<sub>2</sub>). (SCN)<sub>2</sub>(IV) were determined by means of ZnO<sub>5</sub>. It was established that the solubility in moles/l and S of I, II, Abstract

Card 1/2

C RUMANIA / Inorganic Chemistry. Complex Compounds.

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 20742.

Author : Ripan, R. and Szekely, Z.

: Rumanian Academy of Sciences? : Investigation of the Formation of Isopoly Acids in Inst

Aqueous Solutions by Index of Refraction Measure-Title

ments.

Orig Pub: Studii si Cercetari Chim Acad RPR, Fil Cluj, 8, No

3-4, 187-197 (1957) (in Rumanian with French and

Russian summaries).

Abstract: The refractometric and interferometric methods were

used in measuring the index of refraction n of aqueous solutions of Na2MoO4 and Na2WO4 on the reaction with HNO3. Breaks in the curves giving the dependence of n on the concentration are taken as

Card 1/3

45

RUMANIA / Inorganic Chemistry. Complex Compounds.

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 26742.

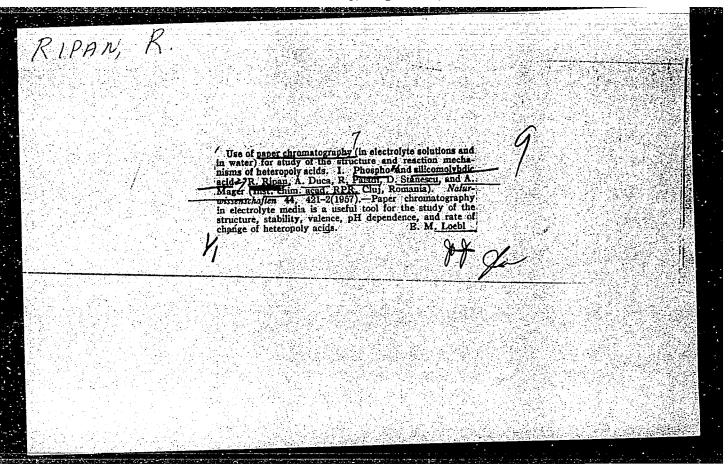
Abstract: evidence for the formation in the solutions of isopolymolybdates (I) and isopolytung stenates (II). In the case of I, the condensation of the MoO4 radicals under the action of H+ ions proceeds according to the scheme Na<sub>2</sub>O·MoO<sub>3</sub> H+ (Na<sub>2</sub>O·3MoO<sub>3</sub>) (2Na<sub>2</sub>O·3MoO<sub>3</sub>) H+ 5Na<sub>2</sub>O·12MoO<sub>3</sub> H+ 3Na<sub>2</sub>O·12MoO<sub>3</sub> H+ NoO<sub>3</sub>·xH<sub>2</sub>O. The authors have found that an equilibrium between these forms is established in solution, each form existing at a specified H+ concentration. At a H+: Mo ratio of 1.5, the polymeric molecules decompose with the production of MoO<sub>3</sub>xH<sub>2</sub>O. In the case of II, the condensation proceeds according to the scheme Na<sub>2</sub>O·Wo<sub>3</sub> H+ 5Na<sub>2</sub>O·12WO<sub>3</sub> H+ 4Na<sub>2</sub>O·12WO<sub>3</sub> H+ 3Na<sub>2</sub>O·12WO<sub>3</sub> H+ WO<sub>3</sub>xH<sub>2</sub>O. The compound 4Na<sub>2</sub>O·12WO<sub>3</sub> is completely destroyed after

Card 2/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014 RUMANIA / Inorganic Chemistry. Complex Compounds. C

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 26742.

Abstract: days. The condensation of the radicals also proceeds in the presence of other electrolytes, e.g., NaNO3. It is shown that the n of an aqueous solution of I changes with time, whereas no change is observed in the case of II. The action of HNO3 on K2XrO4 gives only K2Cr2O7.



RIPAN R

/ Application of paper chromatography (in electrolytes and in water) to the study of the structure and of the reaction mechanisms of heteropoly compounds. I. Formation of phosphe- and filicomolyhdic acids of the saturated type (I. R. 12 Mo). R. Ringh. A. Duca R. Paladi. D. Stanescu, and A. Magge (Inst. Chem., Cluj., Romania). Bull. 1964. A. Buran. A. Duca R. Paladi. D. Stanescu, chim. Truncs 1958, 1807-13.—Th. behavior of different condensed molyhdates derived from NaiMoo, (pH 8.6-0.2) was exaind. As a comparison Cro.—Cro.—Cro.—And (NH.) (Mo.Oo.) of known structure were studied. Also the formation of heteropoly compds. was studied, the jate ratios of which were IR: IMo to IR: 12Mo (R. B. Sl., P. etc.), and each ratio for the pH range 8.5-0.2. Paper chromatog raphy in the presence of electrolytes and in water enables the sepa. of different condensed forms seconding to their stability. for instance, dodecamolybdate (predominant at pH 3.8), and silicomolybdic acid (predominant at pH 3.8), and silicomolybdic acid (predominant at pH 3.7). Qual, and quant. interpretations of the chroling to the stable than phosphomolybdic acid (predominant at pH 1.7). Qual, and quant. interpretations of the chroling to the stable than phosphomolybdic acid (predominant at pH 1.7). Qual, and quant. interpretations of the chroling to the stable phosphomolybdic acid (predominant at pH 1.7). Qual, and quant. interpretations of the chroling to the phosphomolybdic acid (predominant at pH 1.7) is more stable than phosphomolybdic acid (predominant at pH 1.7). Qual, and quant. interpretations of the chroling to the stable phosphomolybdic acid (predominant at pH 1.7) is more stable than phosphomolybdic acid (predominant at pH 1.7) is more stable than phosphomolybdic acid (predominant at pH 1.7). Qual, and quant interpretations of the chroling to the phosphomolybdic acid (predominant at pH 1.7) is more stable than phosphomolybdic acid (predominant at pH 1.7). Qual, and quant interpretations of the chroling to the phosphomolybdic acid (predominan

1864. 1514-23.—Decompn. of isopolymolybdic acid, and of phospho- and silicomolybdic acids was made with KOH and Ba(OH). The ppts. were formed immediately with Ba-(OH), and after some standing with KOH. Analytical data and chromatograms obtained indicate that the degree of condensation of Mo may be Mos in silicomolybdic acid and Mo. in phosphomolybdic acid. The decompn. jteps beem to be: Mos = Mos = Mos = Mo. Hateropoly acids previously synthesized (P-12Mo and Si-12Mo) are more stable than those obtained by mixt, of components. Chromatography reveals that phospho and silicomolybdic acids are most stable at approx. pH 1.7 for the same conen, of Mg.

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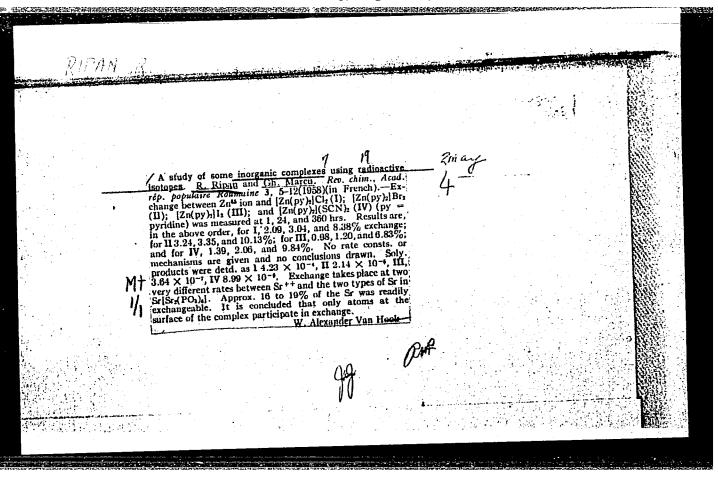
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#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001444



RUMANIA / Inorganic Chemistry. Complex Compounds.

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 7745.

: Ripen, Raluca., Marcu, Gheorghe. Author

Inst

: Rumanian Academy. : Study of Structure of Inorganic Compounds by Title

Means of Radioactive Isotopes. II. Study of the

Structure of Complex Compounds of Zinc of

(ZnPy2)X2-Type by Means of Radioactive Zinc Zn65.

Crig Pub: Comun. Acad. RPR, 1958, 8, No 3, 269-273.

Abstract: Study of isotope exchange between compounds of

the type  $(ZnPy_2)X_2$  where  $X = C1^-$ ,  $Br^-$ ,  $I^-$ ,  $SCN^-$ , and  $Zn^{65}$  ions in homogeneous medium. It was found that very slow isotope exchange is taking place between them. This indicates stability of these corrected even in your diluted several. these compounds even in very diluted aqueous sol-

Card 1/2

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

#### CIA-RDP86-00513R001444

1.-2 : Rummania COUTER! : Analytical Chemistry. CAT GORI : RIKhim., Mo. 7, 1959. No. 23091 ABS. JOUR. : Bloam, Marcu, G.: Pasou, N. AL MOR : Humanian Academy : New Rapid Method for Determination of irrabl Tellurium CRIS. 205. : Comun. Acad. His, 1998, 8, No 5, 467-4/1 RESTRECT : A method has been worked out for determining Te(L+), which is based on its reduction with thiosemicarbazice (I) in hydrochloric acid medium, to elemental Te.
The concurrently liberated S is dissolved by treatment with CS; and C2H5CH. The results obtained are somewhat too high (of the average by 3.63%) due to the formation of a certain amount of Tes; to eliminate errors induced by the formation of TeS a correction factor is used which is 0.6448. On determining Te, there are added to the solution being analyzes, containing ~ 0.1 g Te, 10 ml 3f.6% HCl. 50 ml of a mixture (1:1) of CS2 and C2H5CH, 10 ml water, and 10 ml of 2% solution of I. The solution, with the CA.D: 1/2

C

Ripan, Ki RUMANIA / Inorganic Chomistry. Complex Compounds.

: Ref Zhur - Khimiya, No 14, 1959, No. 49000 Abs Jour

: Ripan, R. and Marcu, G. Author Inst

: Rumanian Academy of Sciences : Invostigation of the Structure of Inorganic Com-

pounds by the Use of Radioactive Isotopos. III.

Investigation of Isotope-Exchange in \*

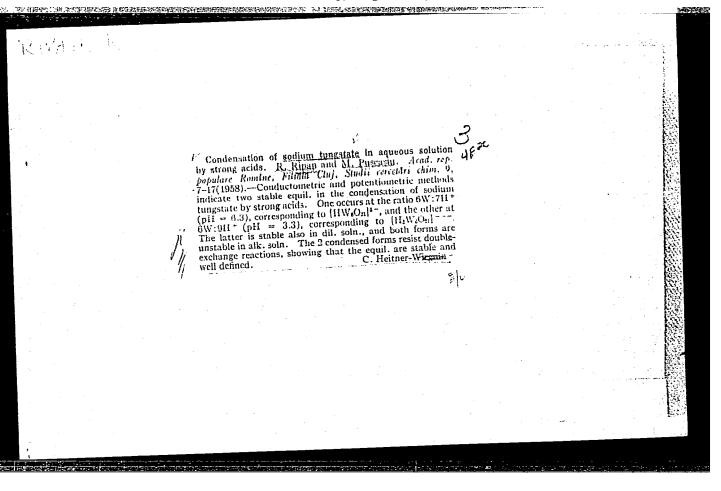
: Comun Acad RPR, 8, No 7, 655-658 (1958) Orig Pub

: The authors have investigated isotope exchange in homogeneous medium between strontium hoxamotaphosphate and  $\mathrm{Sr}^{2t}$  ions. It has been found that in the case of  $\mathrm{Sr}\left[\mathrm{Sr}_{2}^{2}\right]$  (PO<sub>3</sub>) 6 -7 +  $\mathrm{Sr}^{2t}$ Abstract

\*Homogeneous Medium Between Strontium Hexametaphosphate and Strontium Ions Using Radioactive Sr 90

Card 1/2

Title



RUMANIA/Physical Chemistry - Solution. Theory of Acids and Bases.

: Ref Zhur Khimiya, No 19, 1959, 67354 Abs Jour

: Ripan, R., Duca, A., Calu, Cleopatra. Author

: Rumanian Academy , Cluj Affiliate Inst

: Investigation of Concentrated Molybdenum Acids. Title

: Studii si cercetari chim. Acad. RFR Fil. Cluj, 1958, 9, Crig Fub

No 1-4, 19-36

: This investigation was carried out in order to determine Abstract

the maximum degree of condensation of molybdenum acid molecules as a function of concentration and solution pH by conductometric, potentiometric, gravimetric, and chromatographic methods. It was established that as the solution concentration increases, the degree of condensation, the stability of the internal sphere of molybdenum

acid complexes, and the degree of dissociation of

Card 1/2

- 30 -

RUMANIA/Physical Chemistry - Solutions. Theory of Acids and Bases. B

APPROVED FOR RELEASE KITHESHAY, AUGUST 9162000 CIA-RDP86-00513R0014

> external H/ ions increases up to a specific value. Depending on the solution concentration and pH the H6M06021 molecule may polymerize:

2H6M06021≥H12M012042. -- R. Mocharnyuk

RUMANIA/Inorganic Chemistry - Complex Compounds.

Abs Jour

: Ref Zhur Khimiya, No 19, 1959, 67499

Author

Ripan, R; Duca, A., Betanu, I.

Inst

Rumanian Academy, Cluj Affiliate

Title

: Study of the Formation of Oxalo-Molybdates in Aqueous

Solutions.

Orig Pub

: Studii sicercetari chim. Acad. RPR Fil. Cluj., 1958, 9,

No 1-4, 47-65

Abstract

The interaction in aqueous solutions of molybdates (Na<sub>2</sub>MoO<sub>4</sub>, (NH<sub>4</sub>)<sub>2</sub>Mo<sub>2</sub>O<sub>7</sub>, H<sub>6</sub>/Mo<sub>5</sub>O<sub>18</sub>/ and (NH<sub>4</sub>)<sub>6</sub>/Mo<sub>7</sub>O<sub>24</sub>/)

and oxalates was studied by conductometric, chromatographic, electrochromatographic, and polarographic methods. The formation of complex oxalo-molybdates was established.

-- Author's summary

Card 1/1

- 47 -

RATHE, R.; MLROW, GH.

Study of the structure of inorganic combinations by means of radioisotopes. In French. p. 5.

A VIE DE CHERTE. JURNAL OF MEDISTRY. (Academia Republicii Populare Romine) Enguresti, Bugania. Vol. 3, no. 1, 1058.

Monthly List of East European Accessions (EEAI) LC, Vol. 3, no. 7, July 1959.

Uncl.

## RIPAT, R., UT CHEES

Sedium bewemetaphoschate, and its repolion in quantitative analysis. In French. c. 13.

PROVE DE CHIEF. JOURNAL OF CHEMICTRY. (Academia Sepublicia Localure Romine) Propresti, Immenia. Vol. 3, no. 1, 1958.

honthly list of best percomman Accessions (LEAI) 10, Vol. 2, no. 7, July 1959.

Uncl.

: HUN TARY Char bry : Inorganic Chemistry. Complex Compounds Wregown) App. Jour. : Ref Zhur-Khim, 1959, No 5, 1/1922 : Ripan, R.; Pristavu, C. Author : Hungarian Academy of Sciences Institut. : Physicochemical Study of the Aqueous Solution of Tit.lc Metatungstic Acid H10[H2(W207)6] Orig. Pib. : Acta chim. Acad. scient. hung., 1958, 16, No 1, 83-90 : By conductometric titration of metatungstic acid Abstract (MMA) with solutions of NaOH, NHLOH, NaHCO3, guanidine, salts of Ba, Pb and TI, it was established that ITA corresponds in phenol solution to H<sub>10[H<sub>2</sub>(W<sub>2</sub>0<sub>7</sub>)6] ·xH<sub>2</sub>0. MTA is a strong hexabasic</sub> acid. The last 4 atoms of H in the outer range of MTA are characterized by considerably lower constants of ionization. In the process of neutralization, ions of pyrotungstic acid are formed from MTA .-- B. Kaplan 1/1 dand: C - 7

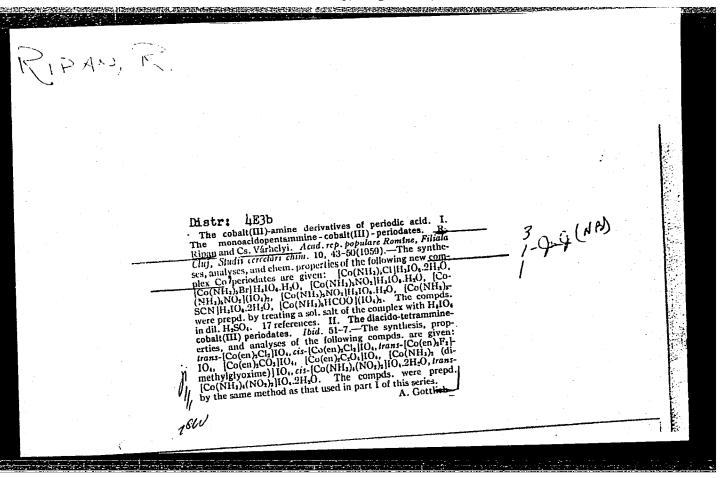
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	GOV/64-59-41/27 Deputy Chairman of the Organization Cou- Kendalayav Congress, Correspondink	neral and Applied Chemistry obshchey i prikladnoy khimil) 1959, Nr 4, pp 1-10 (USSR)	a.gnh traititional congress ace in Moore. The congress Charves of the USGR, by the Charve training. L. Mandalywas and D. L. Mandalywas and the USGR of Character cobracovaries SSR ( Ministy A. T. Mandalywas cobracovaries SSR ( Ministy A. T. Mandalywas and the USGR of Character and the USGR of Character the U	'and by the Leadmide    'Problems of the Polymer    'Problems of the Polymer    'Ag the following contributions    mayanov The Fariodic dystence    mayanov The Canadatary    "Pundaental Problems of    "Punda	A Present Name of the Problem  1 P. Alberninger "Chenical  A Monde Energy" "Chenical  1 Atomic Energy" "Chenical  1 Stands of Res Elected in the  E. Mandessen, Amenian actsuits,  The Operation of Mandessen,  Mandessen, Mandessen,  Mandessen, Mandessen,  Mandessen, Mandessen,  Mandessen, Mandessen,  Mandessen,  Mandessen, Mandessen,  Mandess	of the 3	
	Zhavozonkov, M. M., Deputy Chal attes of the Villah Mendeleyen Member of the 45 USAS	VIII, Mendeleyev Congress of Jeneral and Applied Chmistry (VIII. Mendeleyevekty styst po obstochy i prikladnoy khisti) Khisti khistoheskays progratlennost', 1959, Mr 4, pp 1-10 (USSR)	Prom March 16 to 23, 1959, the eighth traillional cond of "Bussian chamiles took place in Mescere . The computer of the computer of the condition of the Anaday of Stiences of the USSIA, Trasportung that the Mesceye obstaches two leant D. I. Wanteleyev), Conderstoon of the Consol of Ministers of the USSIA of and by the Ministers of the USSIA of Anaday by Ministers of the USSIA of Anaday by Ministers of the USSIA of Anaday of Ministers of the USSIA of Anaday of Ministers of the USSIA of The USBIA	progress of the Chesical Industry and With a cacatalican Progress of the Chesical Industry and With a cacatalican Engineers of the Chesical Industry and With a cacatalican Engineers of the Chesical Actuals of the Polymer and With a cacatalican actual and actual progress of the Polymer and Chesical Actual Actual Actual Constitutions of the Theorem of The Progress of Chesical Engineer, Actual	The state of the control of the control of the control of values and teachers and teachers and teachers and the control of the	n ale Profesor w. Lagol's made a of The Kinetice	
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RIPAN, R.

Study of the structure of inorganic compounds with the help of radioactive isotopes. IV. A radio-chromatographic study of the condensation of Na<sub>2</sub>WO<sub>4</sub> by HNO<sub>4</sub>. R. Ripar, and G. Marcu. Acad. rep. populare Romine, Frituia Citi, Studii cercelari chim. 10, 17-26(1959); cf. C.A. 53, 21073f.—H<sub>2</sub>WO<sub>4</sub> (or Na<sub>2</sub>WO<sub>4</sub>) in H<sub>1</sub>O soln. is condensed by strong acids to the isopoly acid ions (HW<sub>6</sub>-O<sub>11.24.</sub>). (hexatungstate) and (H<sub>2</sub>W<sub>6</sub>O<sub>11.24.</sub>).— (I) (paratungstate). The degree of condensation of Na<sub>2</sub>WO<sub>4</sub> in relation to pH, conen., temp., and time is detd. An ascending paper chromatographic method with W<sup>166</sup> as a radioactive indicator is used. A satd. NaCl soln. is used because it permits the migration of the uncondensed ions, whereas the condensed ions remain at the start. The radioactivity is measured with a Geiger-Müller type MST-17 counter every 0.5 cm. along the chromatographic strip and the percent condensation is detd. It appears that pH, conen., temp., and time are important factors in the formatotion of isopoly compds. The chromatographic strips are developed with a soln. of KSCN and SnCl<sub>1</sub>. Perfect.

agreement between these and the previous results is observed: Previous investigations, the methods used, and the conclusions are given. 28 references. V. A radiochromatographic study of the behavior of sodium paratungstate prepared in warm solutions. R. Ripan, G. Marcu, and V. Neagu. *Ibid.* 27-30.—A radiochromatographic study shows that freshly prepd. Na<sub>3</sub>HW<sub>2</sub>O<sub>1</sub>.aq. (I) soln. decomps. on heating: 3Na<sub>4</sub>HW<sub>2</sub>O<sub>1</sub>.aq. → 6Na<sub>7</sub>W<sub>2</sub>O<sub>4</sub> + Na<sub>4</sub>H<sub>3</sub>W<sub>4</sub>O<sub>1</sub>.aq. (\$\sqrt{\psi}\$-metatungstate). I was prepd. by acidifying N Na<sub>4</sub>WO<sub>4</sub> with N HCl at 70° using litmus as indicator. A satd. aq. soln. of recrystd. I was studied chromatographically by the technique described in part IV. Pyrotungstate migrates to the upper part of the paper and \$\sqrt{\psi}\$-metatungstate remains in the lower part. Chromatography of I prepd. from Na<sub>4</sub>WO<sub>4</sub> contg. W<sup>158</sup> shows twice as much W<sup>158</sup> in the upper part of the paper as in the lower portion. Results are similar to those of Konre [J. prakt. Chem. 27, 49(1883)] but differ from those of Souchay (C.A. 46, 9450f) and of Jander and Krüerke (C.A. 46, 3440f).

A. Gottlich.



RIPAN, R.; MIRUL, C.

The proportion of note: -cells with 0,0-disthyl-dishiophosphates. Pt. 4. Roy chimie Rown 9 no.16:560-574 0 164.

1. Department of Inorganic Chemistry of the Institute of Chemistry of the Rumanian Academy, Cluj, 59-65 Donath Street.

4E2b(e)

Studies of the structure of inorganic compounds with range 0.0-6.0. If the acids are synthesized from the compadicative isotopes. VI. Studies of the stability of phosphotungstic acid (P:12W) and of sillcotungstic acid (Si:12W) or 0.0-5.5 for Si:12W is slightly lower. VII. The photungstic acid (P:12W) and of sillcotungstic acid (Si:12W) or 0.0-5.5 for Si:12W is slightly lower. VII. The certain control of sillcotungstic acid (Si:12W) or 0.0-5.5 for Si:12W is slightly lower. VII. The certain control of sillcotungstic acid (Si:12W) or 0.0-5.5 for Si:12W is slightly lower. VII. The certain control of sillcotungstic acid (Si:12W) or 0.0-5.5 for Si:12W is slightly lower. VII. The certain control of sillcotungstic acid (Si:12W) or 0.0-5.5 for Si:12W is slightly lower. VII. The certain control of sillcotungstic acid (Si:12W) or 0.0-5.5 for Si:12W is slightly lower. VII. The certain control of sillcotungstic acid (Si:12W) or 0.0-5.5 for Si:12W is slightly lower. VII. The crange of isotopes between tungstates and polytungstates. P:12W or 0.0-5.5 for Si:12W is slightly lower. VII. The certain control of sillcotungstates acid (Si:12W) or 0.0-5.5 for Si:12W is slightly lower. VII. The crange of isotopes between tungstates and polytungstates. P:12W or 0.0-5.5 for Si:12W is slightly lower. VII. The crange of isotopes between tungstates and polytungstates. P:12W or 0.0-5.5 for Si:12W is slightly lower. VII. The crange of isotopes between tungstates and polytungstates. P:12W or 0.0-5.5 for Si:12W is slightly lower. VII. The crange of isotopes between tungstates and polytungstates. P:12W or 0.0-5.5 for Si:12W is slightly lower. VII. The relations between tungstates and polytungstates are relations between tungstates and polytungstates. P:12W or 0.0-5.5 for Si:12W is slightly lower. VII. The relations between tungstates and polytungstates are relations between tungstates and polytungstates. P:12W or 0.0-6.0-File relations between tungstates and polytungstates. P:15td 209-16.—The relations between tungstates and polytungstates. P:1

SOV/78-4-6-14/44 Popesku, R. Liteanu, S., Ripan, R., AUTHORS: Cryometric Investigation of the Neutralization of Silicon-12-tungstic- and Silicon-12-molybdic Acid With Sodium Hydroxide TITLE: in Melted Na<sub>2</sub>SO<sub>4</sub>.10H<sub>2</sub>O (Kriometricheskoye issledovaniye neytralizatsii kremne-12-vol'framovoy i kremne-12-molibdenovoy kislot yedkim natrom v rasplavlennom Na2S04.10H20) Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 6, pp 1300-1304 PERIODICAL: (USSR) Silicon-12-tungstic- and silicon-12-molybdic acid were inves-ABSTRACT:

tigated with 10 n NaOH in melted Ma2SO4.10H2O. Three samples of silicon-12-tungstic acid (Merck-preparations), one sample of silicon-12-molybdic acid (Merck-preparation), and one sample of silicon-12-molybdic acid produced according to the method of Ye. A. Mikitina (Ref 18) were investigated. The behavior of the silicon-12-molybdic acid and that of the silicon-12tungstic acid in soda lye is almost equal. The cryometric curves show four breaks which correspond to the consumption of 4, 8, 16, and 28 mols NaOH to one mol heteropoly acid. The consumption of 4 mols NaOH corresponds to the neutralization of the heteropoly acid. A consumption of 8 mols NaOH

Card 1/2

5(4)

507/78-4-6-14/44

Cryometric Investigation of the Neutralization of Silicon-12-tungstic- and Silicon-12-molybdic Acid With Sodium Hydroxide in Melted Na<sub>2</sub>SO<sub>4</sub>.10H<sub>2</sub>O

leads to the decomposition of the heteropoly acid anion in  $6 \text{NaHW}_2 \text{O}_7 + \text{Na}_2 \text{H}_2 \text{SiO}_4$ ,  $6 \text{NaHMO}_2 \text{O}_7 + \text{Na}_2 \text{H}_2 \text{SiO}_4$ , respectively. The results of the neutralization of the silicon-12-molybdic- and silicon-12-tungstic acid by soda lye in  $\text{Na}_2 \text{SO}_4$ -melts are given

in tables 1 and 3. The decomposition of the heteropoly acid into 12NaHWO4+Na4SiO4 or 12NaHMOO4+Na4SiO4 occurs in the case of a consumption of 16 mols NaOH. In the case of a consumption

of 28 mols MaOH the heteropoly acid decomposes into

 $12\text{Na}_2\text{WO}_4 + \text{Na}_4\text{SiO}_4$  or  $12\text{Na}_2\text{MoO}_4 + \text{Na}_4\text{SiO}_4$  respectively. There

are 4 figures; 3 tables and 18 references, 2 of which are Soviet.

ASSOCIATION: Universitet imeni Viktora Babesha, Kafedra neorganicheskoy i

analiticheskoy khimii, Rumyniya (University imeni Viktor Babesh -

Chair of Inorganic and Analytical Chemistry of Roumania)

SUBMITTED: November 25, 1958

Card 2/2

RIPAN, Raluca, acad.; CALU, C.

A physicochemical study of the aqueous solutions of the metatungstic acid. Studii cerc chimie (luj 10 no.2:217-226 \*59. (EEAI 9:9)

\$/081/62/000/005/025/112 3149/8101

AU PHORS:

Ripan, Raluca, Kiss, Gabriela, Szekely, Z.

TIPLE:

The spectrophotometric determination of hexavalent uranium

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 5, 1962, 153, abstract 5006 (Studii si cercetári chim. Acad. RPR Fil. Cluj, v. 11,

no. 2, 1960, 259-266)

TEXT: A spectrophotometric method for the determination of U<sup>6+</sup> in the form of an orange-colored complex with salicylaldoxime (I) (molar ratio U:I=1:1) has been worked out. The optimum pH is 8.50-9.50. The color intensity increases it the concentration of I is increased up to a 20-fold excess, thereafter becoming stable. The color develops during 20 min remains stable for as long as a day. Maximum light absorption of the complex is at 400 mm; at this wave length the reagent absorbs a considerable amount of light. Beer's law is satisfied at a U concentration of 10-60 /ml and 450 mm (at the latter wave length I does not absorb, but the sensitivity of the determination is somewhat lower). 5 ml of freshly prepared

Card 1/2

The spectrophotometric...

s/081/62/000/005/028/112 3149/3101

4.2·10<sup>-2</sup> M solution of I (34-fold excess), and 7 ml of 0.05 M solution of borax (to ensure pH = 9.18) are added to the neutral or slightly acid solution of US+ (up to 1900  $\times$ U). The mixture is diluted with water to 25 ml and examined spectrophotometrically at 400 m $\mu$ . An analogous solution of I in used as a blank. Fe<sup>5+</sup>, V<sup>9+</sup>, ON<sup>-</sup>, OO<sub>2</sub><sup>2+</sup>, citrates and turtrates interfere with these determinations, whilst the following do not: (in  $\pi/m$ ), with U content = 50  $\pi/m$ 1) SO<sub>4</sub><sup>2+</sup> 6000, Cl<sup>-</sup> 3000, F<sup>-</sup> and CH<sub>3</sub>COC 2000 and Th 500. To prepare the reagent 0.5756  $\pi$  I are dissolved in 3-4 ml of ethanol heated in water at 60°C, kept warm until I is completely dissolved (without stirring), made up to 100 ml and filtered. [Abstracter's note: Complete translation.]

Card 3/2

RIPAN, RAIDCA; EGER, I.; BOJAN, N.

Contributions to the determination of uranium and accompanying elements. Pt.1. Studii cero chim 13 no.12:873-877 D.164.

1. Institute of Chemistry of the Rumanian Academy, Cluj Branch 59-05 Donath Street.

High, through the fire determination of treation and its are mpanelly through the fire of the form (fire 12:22-23) B Man.

Limitate of Chemistry of the Jumenian Audony, Jul Branch, 59-65 Somath Street. Sugnit of Coly 10, 1862.

MYPAN, Malmon; MARON, M.; OCHDIS, ...

Contributions to gold dosing in industrial cyanic solutions. Hev chimie Min petr 15 no.11:684-685 N '64.

RIPAN, Raluca, acad.; VARHELYI, Cs.; URMOSI, J.

New amine dimethylglyoxymates of cobalt (III). Pt.8. Studii cerc chimie Cluj 14 no.2:215-226 '63.

l. Chair of Inorganic and Analytical Chemistry, "Babes-Bolyai" University, Chaj.

s/051/62/000/005/030/112 3149,3101

AUTHORS:

Ripan, Raluca, Pascu, N., Marcu, G.

TITLE:

A new gravimetric method for the determination of selenium

PERIODICAL:

Referativny; churnal. Khimiya, no. 5, 1962. 158, abstract pD115 (Studii și percetări chim. Acad. RPR Fil. Cluj, v. 11,

no. 2, 1960, 277-279)

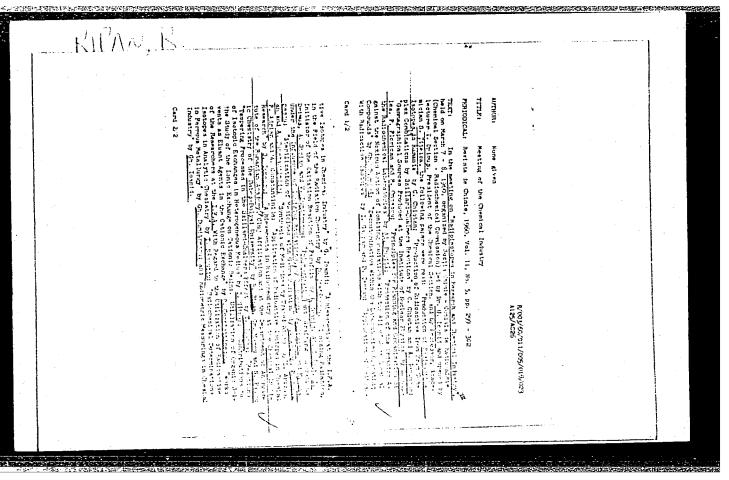
TEMT: The method (published earlier) for the determination of Te by reduction to the elementary state with thiosemicarbazide (I) in an HCl medium (RZhKhim, no. 7, 1659, 23091) has been applied to a gravimetric determination of Se: 58.51 ml of 37 % HCl are added to 20 ml of the solution to be analyzed (appr. 0.2 g Na<sub>2</sub>SeO<sub>3</sub>), the mixture is heated to  $40-45^{\circ}$ C and 79 ml of the precipitating solution (10 ml 1 % I + 69 ml water), heated to the same temperature, are then added, drop by drop with constant stirring. The precipitate is filtered through a glass filter  $G_4$ , washed with water, ethanol and ether, dried in a vacuum desiccator for 15 min, and weighed. The time needed for the determination is 25-30 min;

Card 1/2

S/081/62/000/005/030/112 B149/B101

A new gravimetric method for the ...

the error is I 0.42 %. The sensitivity of the determination is 7 / Se in 1 ml solution. Te, Au, Cu, Bi interfere with the analysis. [Abstracter's note: Complete translation.]



## "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001444

EIPAM, Raluca outstand (in caps); Given Names

Country: Rumania

Academic Degrees: Academician

Affiliation: \_\_

Source: Bucharest, Comunicarile Academiei Republicii Porrilare Romina, No 4, 1961, pp 409-444.

Data:

" A New Radiochamical Method for the Quantitative Determination of Potassium." Co-authors:

MARCU, Gheorghe, Academician, COSMA, Minerva, Academician.

RIPAN, R., acad.; DUCA, A.; MAGER, A.

Paper-chromatographic studies on the behavior of the hydrogen ions of silicowolframic acids. Rev chimie 6 no.1:51-56 '61.

- 1. Institut fur Chemie, Cluj, Akademie der Rumanischen Volksrepublik. 2. Membre du Comite de redaction "Revue de chimie" (fer Ripan).

CIA-RDP86-00513R001444

MIPAR, R.; LITHANU, R.; MHARU, V.; POPLEKU, R.

Cryometric neutralization of 12-phosphonolybdic acid and 12-phosphotungstic acid with sodium hydroxide. Zhur. neorg. khim. 6 no.1:246-249 '61. (MIM 14:2)

1. Kluzhskiy universitet im. V.Babesh-Bolyay. Khizicheskiy fakulitet, kafedra neorganicheskoy i analiticheskoy khizii. (Rumynska z. Parodnaya Respublika).

(Phosphotolybiic acid) (Phosphotungstic acid) (Sodium hydroxide)

hipan, h.; Liteanu, k.; hiagu, v.

Cryometric neutralization of metatungstic acid and 12-borotungstic acid with sodium hydroxide. Zhur. neorg. khim. 6 no.1:249-251 '61. (MIPA 14:2)

1. Kluzhskiy universitet im. Babesh-Bolyay. Khimicheskiy fakul tet, kafedra neorganicheskoy i analiticheskoy khimii (Aumyanshaya Marodnaya Respublika).

(Tungstic acid) (Tungstoboric acid)
(Sodium hydroxide)

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001444

L 34626-66 EWP(5) RM	
ACC NR: AP6026171 SOURCE CODE: GE/0063/65/341/01-/0103/0110	
AUTHOR: Ripan, R.; Varhelyi, C.; Nyeso, A.	
ORG: Department of Chemistry, Babes-Bolyai University, Cluj, Rumania	
TITLE: New cobalt (III) chelate compounds with ethylenediimino-bis-acetylacetone	
SOURCE: Zeitschrift fur anorganische und allgemeine Chemie, v. 341, no. 1-2, 1965, 103-110	
TOPIC TAGS: cobalt compound, chelate compound, acetone, Schiff base, molecular structure, chemical decomposition, IR spectroscopy, UV spectroscopy	
ABSTRACT: Twenty-two new cobalt(III) ammine complexes of as yet unknown types [Co ec(β-picoline) <sub>2</sub> ]X and [Co ec (γ-picoline) <sub>2</sub> ]X (where ec stands for the coordinated Schiff base athylenediimino-bis-acetylaceton) have been obtained by double decomposition of [Co ec(β-picoline) <sub>2</sub> ]Cl and [Co ec(γ-picoline) <sub>2</sub> ]Cl. X represents I, NCS, BF4, ClO4, picrate, 1/2Cr <sub>2</sub> O <sub>7</sub> , 1/2S <sub>5</sub> O <sub>6</sub> , [Co(DH) <sub>2</sub> (NCS) <sub>2</sub> ], [Cr(NH <sub>3</sub> ) <sub>2</sub> (NCS)4], [Co(NH <sub>3</sub> ) <sub>2</sub> (NO <sub>2</sub> )4], 1/3[Cr(NCS)6], 1/3 [Co(NO <sub>2</sub> )6]. From spectroscopical investigations in the UV and IR regions some structural problems were resolved and discussed. Orig. art. has: 4 figures. [JPRS: 34,669]	
SUB CODE: 07, 20 / SUBM DATE: 05Apr65 / OTH REF: 012	
Card 1/1 10	
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L 00092-66 EWP(t)/EWP(b) DIAAP/IJP(c) JD/JG
ACCESSION NR: AP5025537 RU/0027/65/010/001/0155/0165

AUTHOR: Pascu, N.; Ripan, R. (Academician ARPR); Buturca, F.

TITIE: Determination with the aid of radioactive gold 198 of the crushing and flotation time of auriferous minerals at Rosia Montana, the distribution of gold in the crushed mass and the gold losses in the final sterile

SOURCE: Studii si cercetari de metalurgie, v. 10, no. 1, 1965, 155-165

TOPIC TAGS: radioisotope, gold, mining engineering, radiometry

ABSTRACT: The authors used radioactive gold to mark the technological flux in the ore-processing plant and determined radiometrically the following parameters: grinding time, speed of movement through the mill and the crusher, flotation time, districution of gold in the agitation mass, and gold losses in the final sterile. Orig. art. has: 1 figure, 1 formula, 13 graphs.

ASSOCIATION: Institutul de chimie, Academia R. P. R., Cluj (Institute of Chemistry, RPR Academy)

SUBMITTED: 07Dec64

ENCL: 00

SUB CODE: GO, NP

NR REF SOV: OOO

OTHER: 004

**JPRS** 

Card 1/1 1/2

CCFSSION NR: AP5023464	/g₁p(t) — IJP(c) — JD ı	DII /0003/64/015/011/0684/0685
UTHOR: Ripan, Raluca;	Marcu, M.; Cordis, V.	.10,000,000,000,000,000,000,000,000,000,
TITLE: Contributions to	the determination of	gold in industrial cyanic solutions
SOURCE: Revista de chim	ie, v. 15, no. 11, 196	54, 684-685
COPIC TAGS: gold, solut	ion property, cyanoge	o compound, spectroscopy, analytic
gold in cyanic solution of its adsorption of sold in the	emical method for the lone. The extraction coal gives a relation manner for specta	the determination of on of cyanauric acid atively large concentr- al determination and
omores interfering	immurities. The me	thod may be used for 2 x 10-5; the error

64949-65			
ACCESSION NR: AP5023464			0
ASSOCIATION: none			
SUBMITTED: 00	ENCL: 00	SUB CODE: IC, GC	
NR REF SOV: 000	OTHER: 003	JPRS	
전하다. 그 등로 전하는 사람이 하다고 한 경기를 받는다. 그것은 하는 사람들은 경우를 하는데 하는 것은 하는 것을 받는다.			
스러 보고 그렇게 되면하면 되고 있는 것들이 없었다. 되고 그 이 반에, 그리는 이의 사이 있을 보다.			
2/2			

RIPAN, Raluce, acad., VARHELYI, Cs.; SIMON, L.

New isomers of position in cobaltic dimethylglyeximates. Studii cera chimie Cluj 14 no.1:31-40 '63.

1. Chair of Analytic and Inorganic Chemistry, "Babes-Bolyai" University, Cluj.

RIPAN, Raluza, acad., EGER, I., MIREL, C.

Contributions to the study of the properties of schools salts of 0,0-diethyl ester chimie Cluj 14 no.1:49-60 '63.

1. Institute of Chemistry, Rumanian Academy, Cluj Branch.

First, h., send.; CADE, N.

Fo aregraphic study on silico-12 nolymbic acid. Studia Univ 6-B
S. Chem 7 no.2:31-37 '62.

Folarcgraphic study on the phospho-12 molybdic acid. Ibid.:39-45

Revall, Selven, acad.; ValHELY), cs.; MEREDY, E.

Revivatives of sobultic bis-dimethylayoxidate-bis-\$-piccline.

Studia Univ R-B S. Chem 7 no.2:89-98 % %.

RIPAN, R., acad; NEACH, V.

Physicochemical study or sodium paramolyhdate. Pt.1. Studia Univ B-B S Chem 8 no.1879-85 \*63

1. "Babes-Bolyai" University, Cluj.

RIPAN, Raluca, acad.; VARHELYI, Ca.; SIMON, L.

New isomers of position in cobaltic dimethylglyarymates. Pt.2. Studia Univ B-H S Chem 8 no.1:123-130 163

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1. "Babes-Elyai" University, Cluj.

RIPAN, Raluca, acad,; TODORUT, I.

Physicochemical study of the class of wolfram and cobalt heteropolycombinations. Studii cerc chimie Gluj 14 no.1; 9-16 '63.

1. Institute of Chemistry, Rumanian Academy, Cluj Branch.

RIPAN, Reluca, scad., PASCU, N.

Contributions to the study of zinc thicoyanamines with pyridine. Studii cerc chimie Cluj 14 no.1:17-30 '63.

1. Institute of Chemistry, Remanian Academy, Cluj Branch.

RIPAN, Baluca, acad.; MARC, Maria

Behavior of tetravalent tellurium in medium of hydrochloric acid. Studii cerc chimie Sluj 14 no.1:41-47 163.

1. Institute of Chemistry, Rumanian Academy, Cluj Branch.

RIPAN, H.; MIREL, C.

Contributions regarding the properties of some salts of the 0,0-diethyl ester of the dithicphosphoric acid. Pt.4. Studii cerc chim 13 no.10:609-618 0 '64.

1. Laboratory of Inorganic Chemistry, Institute of Chemistry of the Rumanian Academy, Cluj, 59-65 Donath Street.

RIPAN, Raluca, acad.; VARHELYI, Cs.; HAMBURG, Erica

On the  $\mathcal{L}$  -dioxymates of transitional metals. Pt. 11. Studii cerc chimie Cluj 14 no.2:227-241 '63.

1. Chair of Inorganic and Analytical Chemistry, "Babes-Bolyai" University, Cluj, and the Institute of Chemistry, Rumanian Academy, Cluj Branch.

RIPAN, Raluca, acad. prof.

Rumanian Scientific Session of Chemistru of the Higher Education Teaching Staff. Studia Univ B-B S. Chem 8 no.1:13-15 \*63

RIPAN, Raluca, acad.; MARCU, Gheorghe; TOMUS, Minerva

Study on the formation of the **berabasic** salts of silico-12-wolframic acid and substitution of the metallic ions by the aid of <sup>24</sup>Na, <sup>42</sup>K, <sup>134</sup>Cs, and <sup>110</sup>Ag radioisotopes. Studia Univ B-B S Chem 8 no.1:87-91 •63

Study of the decomposition of the silico-12-wolframic acid by the radiochromatographic method. Ibid.:93-95

1. "Babos-Bolyai" University, Cluj.

Ł

RIPAN, R., acad.; STANISLAV, C.

Behavior of metallic polyphosphates in the presence of ion

exchangers. Pt.1. Studia Univ B-B S Chem 8 no.1:131-137 '63

1. "Habes-Holyai" University, Cluj.

RIPAN, Raluca, acad.; CALU, N.

Polarographic study on the formation of silico-12 molybdic acid. Studia Univ B-B S Chem 8 no.1:501-502 163

Polarographic study on the formation of poospho-12 molybdic acid. Tbid.:503

1. "Babes-Holyai" University, Cluj.

RIPAN, R., acad.; VARHELTI, Cs.

New cots':=(III)-amine dimethylglyoximates with orthodianisidine (IX). Studia Univ B-B S. Chem 9 no. 1:7-12

164.

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