

NESMEYANOV, A. N.

Isotopic exchange of phosphorus among H_3PO_2 , H_3PO_3 , and H_3PO_4 V. D. Ionin, A. F. Lukovnikov, M. B. Neiman, and An. Nesmeyanov. Doklady Akad. Nauk S.S.S.R. 67, 463-6(1949).- In equimol. mixts. $NaH_2P^*O_4 + NaH_2PO_2$, 1, 0.25, or 0.1 M ($P^* = P^{32}$), heated 80 hrs. in closed vessels, and analyzed by the Mg-NH₃ method, no isotopic exchange was detected by radio-activity measurements up to 280°, at which temp. all the $H_2PO_2^-$ was oxidized to $H_2PO_4^-$. A similar neg. result was found with $H_3P^*O_4 + H_3PO_3$ up to 280°, at which H_3P_3 disappears. Addn. of 0.0005 M NaOH accelerates oxidation of H_3PO_2 and of H_3PO_3 to H_3PO_4 considerably, oxidation being complete at 195°. On the other hand, addn. of 0.0005-0.001 M HCl increases the stability of NaH_2PO_2 which, in mixt. with $NaH_2P^*O_4$, could be detected and sepd. even after heating to 300°. However, no exchange of P* was observed even under these conditions.

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Reaction of titanium tetrachloride with alcohols in the presence of ammonia and pyridine. O. V. Nogina, R. Kh. Freidlina, and A. N. Nesmeyanov. Izvest.- Akad. Nauk S.S.S.R., Otdel, Khim. Nauk 1950, 327-30.- $TiCl_4$ does not yield $(RO)_4Ti$ in reactions with ROH unless HCl is eliminated immediately by means of alk. reagents. Slow addn. of 53 g. $TiCl_4$ to 50 g. EtOH, 85 g. pyridine, and 200 ml. C_6H_6 with ice cooling, followed by 2 hrs. at 60-70° and filtration, gave 67% $(EtO)_3TiCl$, b₂ 147.5-50.0°; possibly the pyridine-HCl remaining in the filtrate reacted with the neutral ester during distn. $(EtO)_4Ti$ (15.5 g.), 8 g. pyridine-HCl, and 95 ml. C_6H_6 heated 2 hrs. at 70-5° gave 77% $(EtO)_3TiCl$; $(BuO)_4Ti$ does not react in these conditions. Addn., with ice cooling, of 35 g. $TiCl_4$ to 200 g. BuOH, followed by passage of NH_3 to a 13.5-g. wt. gain, and heating 2 hrs. at 70°, gave after filtration 48% $(BuO)_4Ti$, b₂ 160-2°; a 60% yield is obtained with 120 g. BuOH in 250 ml. C_6H_6 treated with 60 g. $TiCl_4$, followed by NH_3 as above; reaction in C_6H_6 with pyridine as the acid-binding agent gave a 54% yield. Slow addn. of 25 g. $TiCl_4$ to 159 g. $CH_2:CHCH_2OH$ with cooling, followed by dry NH_3 (wt. gain 9.5 g.) and heating 1 hr. at 70-80° gave 38% $(CH_2:CHCH_2O)_4Ti$, b₁ 141-2°; a 42% yield is obtained when C_6H_6 is used as a diluent; the product b₂*5 156-8°. Slow addn. of 25 g. $TiCl_4$ to 150 g. EtOH with ice cooling, followed by dry NH_3 (wt. gain 9.4 g.), then heating 40 min. at 70°, filtration on cooling, concn. in vacuo, diln. with C_6H_6 to ppt. residual halide, and repeated filtration, gave 70% $(EtO)_4Ti$, b₁₋₅ 128-9°. Addn. of 16.6 g. $TiCl_4$ to 35 g. cyclohexanol in 150 ml. C_6H_6 with cooling, followed by dry NH_3 for 10 hrs. with cooling, filtration, and distn. gave 53% $(C_6H_{13}O)_4Ti$, b₁₋₅ 204-5°, b₁ 190.5-20°.

G. M. Kosolapoff

NESMEYANOV, A. N., LUTSENKO, I. F., TUMANOVA, Z. M.

Acetates

Preparation of α -mercurated aldehydes and ketones from enolacetates. Uch. zap. Mosk. un., No. 132, 1950.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

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A new synthesis of pyrazoles. A. N. Nesmeranov, N. K. Kochetkov, and M. I. Rykunskaya (M. V. Lomonosov State Univ., Moscow). *Izest. Akad. Nauk S.S.S.R., Otdel Khim. Nauk* 1950, 266-8. -- Alkyl 2-chlorovinyl ketones with NaNH_2 and arylhydrazines yield 3-alkylpyrazoles and their 1-Ph deriva. in 50-70% yields. To 25 g. AcCl and 75 g. CCl_4 was added with ice cooling over 2 hrs. 50 g. powd. AlCl_3 in a stream of C_2H_4 , continued for 6 hrs.; treatment of the product with ice yielded 55% MeCOCH:CHCl (I), b_p 40-1°, b_n 56-60°, n_D²⁰ 1.4675. EtCOCl gave 47% EtCOCH:CHCl (II), b_p 55-61°, n_D²⁰ 1.4702, n_D²⁵ 1.4590; similarly, PrCOCl gave 74.5% PrCOCH:CHCl (III), b_p 66-7°, n_D²⁰ 1.4906, n_D²⁵ 1.4640. *iso*- BuCOCl yielded 72% *iso*- BuCOCH:CHCl (IV), b_p 64.5°, n_D²⁰ 1.4117, n_D²⁵ 1.4500. $\text{Nell.} \cdot \text{HCl}$ (4 g.) and 4 g. I in 10 ml. Et_2O gave, after 24 hrs. at room temp. and 1 hr. on a steam bath, addn. of 20 ml. 40% NaOH , and extr. with Et_2O , 61% 3-methylpyrazole (V); a 63% yield was obtained by adding 21 g. NaOAc to 10 g. NaH , sulfate in the min. amt. of H_2O , filtering, treating, with

ice cooling and shaking with 4 g. I, letting stand 24 hrs., and heating 1 hr. on a steam bath, as above. V, b_p 50-6°, n_D²⁰ 1.4290, n_D²⁵ 1.4035; *picrate*, m. 141-1.5°. The 1st procedure with II gave 66.5% 3-ethylpyrazole, b_p 107.8°, n_D²⁰ 1.4618, n_D²⁵ 1.4324; *picrate*, m. 127.5-8.0°. With III the 1st procedure gave 61.5% and the 2nd 64.5% 3-propylpyrazole, b_p 225-6°, b_n 120.5-1.0°, n_D²⁰ 1.4947, n_D²⁵ 1.4675; *picrate*, m. 113-14°. IV gave 60% 3-*isobutyl*pyrazole, b_p 240-1°, b_n 124.5-5.0°, n_D²⁰ 1.4665, n_D²⁵ 1.4318; *picrate*, m. 67-8°. I (15 g.) in 30 ml. Et_2O treated with 10.5 g. PhNHNH_2 in Et_2O with cooling, let stand 24 hrs., and heated 1 hr. on a steam bath similarly yielded 42% 1-phenyl-3-methylpyrazole, b_p 255-6°, solidified on cooling; *chloroplatinate*, m. 174-4°. I (0.5 g.) and 0.9 g. *p*- $\text{H}_2\text{C}_6\text{H}_4\text{NHNH}_2$ refluxed in 15 ml. AcOH , let stand overnight, and dil. with H_2O ; gave 79% 1-(*p*-*nitrophenyl*)-3-methylpyrazole, m. 93.5-4.0°. *p*- $\text{H}_2\text{C}_6\text{H}_4\text{NHNH}_2$ gave 84% 1-(*p*-*nitrophenyl*) analog, m. 105.5-6.0° (from dil. AcOH). II gave 81% 1-(*p*-*nitrophenyl*)-3-ethylpyrazole, m. 122-2.5° (from dil. AcOH), while III gave 69% 3-*Pr* analog, m. 104.5-5.0° (from dil. AcOH), and IV gave 65% 3-*iso*- Bu analog, m. 65.6° (from dil. EtOH).

G. M. Kosolapoff

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Action of magnesium on *N*-(2-bromoethyl)-*N*-methyl-*N*-nitroso-*N*-phenylethylamine. A. N. Neimeyanov, R. Kh. Frekhtina, and E. I. Livan. *Izv. Akad. Nauk S.S.S.R., Khim. Nauk* 1950, 31-5. — Reaction of 3 g. Mg and 27 g. $\text{BrCH}_2\text{CH}_2\text{NMePh}$ in 60 ml. Et_2O in a N atm., completed by 1 hr. on a steam bath, gave 38% PhNHMe (picrate, m. 143-5°), 30% $\text{C}_6\text{H}_5\text{CHO}$ (isolated as the dibromide), and 4.8 g. ($\text{PhMe.NCH}_2\text{CH}_2\text{N}$, whose dipicrate m. 202-3° (from Me_2CO). The product from 14.6 g. $\text{BrCH}_2\text{CH}_2\text{NMePh}$ and 1.6 g. Mg in Et_2O with 6.2 g. PhCHO gave, upon aq. treatment, a yellow product, whose picrate m. 124-5°; the same product, along with some PhNHMe , was obtained by aq. treatment of EtMgBr to an equiv. molar amt. of PhNHMe . Hence, Gilman and Heck (C.A. 23, 4188), Braun, et al. (C.A. 12, 2537), erred in claiming the formation of $\text{PhNMeCH}_2\text{CH}_2\text{NMeX}$; the latter is extremely unstable and immediately cleaves to $\text{C}_6\text{H}_5\text{CHO}$ and PhMeNMeX . The picrate, m. 124-5°, has a N content corresponding to the picrate of $\text{MePh.NCH}_2\text{CH}_2\text{N(CH}_2\text{CH}_2\text{N)Ph}$, but its C and H analyses (unstated) show that it is not this compound. G. M. Kosolapoff

NESMEYANOV, A. N.

Isotopic exchange of phosphorus between the phosphate ion and esters of phosphoric acid. A. F. Lukovnikov, V. P. Medvedev, M. B. Neyman, An. N. Nesmeyanov, and I. S. Shaverdina. Guide to Russ. Sci. Periodical Lit. 3, 187-9 (1950) (English translation) - See C.A. 44, 43151. E. J. C.

NESMEYANOV, A. IV.
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Preparation of α -mercurated ketones by decarboxylation of mercury salts of α -keto acids. A. N. Nesmeyanov, I. V. Lutsenko, and S. N. Ananchenko. *Uchënye Zapiski Moskov. Gosudarst. Univ. im. M. V. Lomonosova* No. 132, Ser. Khim. 7, 130-43 (1950).—The following new procedure has been developed for the synthesis of α -mercurated ketones. $\text{AcCM}_2\text{CO}_2\text{Et}$ (12 g.) was slowly added to 22.5 g. NaOH in 210 ml. H_2O , the mixt. shaken 48 min., extd. with Et_2O , the aq. layer acidified to Congo red with dil. H_2SO_4 and extd. again with Et_2O , gave on evapn. of the ext. 100% $\text{AcCM}_2\text{CO}_2\text{H}$. This (46 g.) added to 115 g. $\text{Hg}(\text{OAc})_2$ in 300 ml. H_2O gave a ppt. of the Hg salt; the entire mixt. was heated until Hg ion vanished from the soln. The hot soln. was filtered, treated with 20.7 g. KCl in 150 ml. H_2O , yielding a ppt. of 74% AcCM_2HgCl , m. 124° . To this (16 g.) in 30 ml. pentane was slowly added 4 g. AcCl in 10 ml. pentane and the mixt. heated on steam bath 0.5 hr. at 20° , cooled, filtered, and the filtrate, after washing

gave 72% 3-methyl-3-chloromercuri-2-pentanone, a heavy oil. This treated under C_6H_6 with AcCl gave 60% mixed *cis-trans* isomers of 3-methyl-2-penten-3-ol acetate, bp $60-8^\circ$, n_D^{20} 1.4280, d_4^{20} 0.8027. Soaking 36 g. $\text{AcC}_2\text{Et}_2\text{CO}_2\text{Et}$ with 10 g. NaOH in 150 ml. H_2O 6 weeks gave after the usual treatment 40% $\text{AcC}_2\text{Et}_2\text{CO}_2\text{H}$. This (12 g.) treated with 20 g. $\text{Hg}(\text{OAc})_2$ in 100 ml. H_2O and heated as above gave after filtration and treatment with aq. KCl , 59% 3-ethyl-3-chloromercuri-2-pentanone, m. 77° . This treated in pentane soln. with AcCl gave 3-ethyl-3-pentanol acetate, bp $160-70^\circ$, n_D^{20} 1.4340, d_4^{20} 0.8019. Shaking 30 g. $\text{Me}_2\text{C}(\text{CH}_3)\text{C}(\text{O}^-\text{C}_2\text{H}_5)\text{CO}_2\text{H}$ with 12.6 g. NaOH in 115 ml. H_2O 15 min. gave 100% free acid, an oil. This treated as above gave 2-methyl-2-chloro-

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Isotopic Exchange of Phosphorus Between the Phosphate Ion and Phosphoric-Acid Esters. A. F. Lukovnikov, V. P. Medvedev, M. B. Neiman, A. N. Nesmeyanov, and I. S. Shaverdina. Doklady Akad. Nauk S.S.S.R. 70, 43-5 (1950) (in Russian).

A study of P exchanges between PO_4^{3-} ions and $(\text{RO})_3\text{PO}$ esters is important for the understanding of the animal phosphate assimilation. Several writers, using various esters, proved the absence of such an exchange at temperatures up to 100°C . The present authors experimented at $100\text{-}300^\circ\text{C}$. using sealed quartz ampuls. The phosphate ion was P^{32} labeled; the mixtures were heated for 20-30 hr. in the presence of absolute dioxane, the volumes used being 5 ml with a P content 0.02 to 0.03 g. The following esters were investigated: tricresyl phosphate $(\text{CH}_3\text{-C}_6\text{H}_4\text{O})_3\text{PO}$, tributyl phosphate $(\text{n-C}_4\text{H}_9\text{O})_3\text{PO}$, triisobutyl phosphate $(\text{i-C}_4\text{H}_9\text{O})_3\text{PO}$, trihexyl phosphate $(\text{C}_6\text{H}_{13}\text{O})_3\text{PO}$, and triethyl phosphate $(\text{C}_2\text{H}_5\text{O})_3\text{PO}$; the first one was heated with $\text{H}_3\text{P}^*\text{O}_4$, all the others with $\text{Na}_2\text{HP}^*\text{O}_4$. As a result, no P exchanges were observed. Consequently, the R-O bond is strong up to 290° , at which temperature the esters begin to decompose.

NESMEYANOV, A.N.: KOCHETKOV, N.K.

Acetylenic Acids

Addition of mercuric chloride to acetylenic acids and esters. Uch. zap. Mosk. un., No. 132, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 195~~8~~², Uncl.

NESMEYANOV, A.N.: FREYDLINA, R.Kh.; KOCHETKOV, A.K.

Dimethylvinyl Carbinol Acetate

1, 6-Addition of mesitylmagnesium bromide to dimethyl vinylcarbinol acetate. Uch. zap. Mosk. un., No. 132, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 195², Uncl.

NESMEYANOV, A. N.

Chemical Structure

Conjugation of simple bonds. Uch. zap. Mosk. un., no 132 '50

9. Monthly List of Russian Accessions, Library of Congress, October 195², Uncl.

NESMEYANOV, A. N.; MAKAROVA, L. G.

Onium Compounds.

Decomposition and formation of onium salts and synthesis of "element-organic" compounds via onium compounds, Uch. zap. Mosk. un., No. 132, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

NESMEYANOV, A.N.: REUTOV, O.A.

Arylazocarboxylic Salts

Decomposition of arylazocarboxylic salts. Uch. zap. Mosk. un., No. 132, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 195²~~8~~, Uncl.

NESMEYANOV, A. N.: LUTSENKO, I. F.:

Ketones

Preparation of L-Mercurated ketones by decarboxylation of mercury salts of B-ketone acids.
Uch. zap. Mosk. un., no. 132, 1950.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

NESMEYANOV, A.N., KOCHETKOV, N.K.

Mercury Haloacetylides

Properties of mercury haloacetylides. Uch. zap. Mosk. un. no. 132, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 195², Uncl.

NESMEYANOV, A. N.; BATUYEV, M. I.;
BORISOV, A. YE.

Organometallic Compounds

Raman spectrum of chlorovinyl derivatives of mercury and antimony. Uch. zap. Mosk. un.,
No. 132, 1950.

Monthly List of Russian Accessions. Library of Congress. October 1952. Unclassified.

NESMEYANOV, A. N.: BORISOV, A. YE.:

AERAMOVA, A. N.

Organometallic Compounds

Synthesis of stereoisomeric organic tin compounds with ethylenic structure from organomercury cis-trans isomers and their rearrangement in ultra-violet light. Uch. Zap. Mosk. un., No. 132, 1950.

Monthly List of Russian Accessions. Library of Congress. October 1952. Unclassified.

NESMEYANOV, A. N.; BORISOV, A. YE.; VIL'CHEVSKAYA, V.D.

Organometallic Compounds

Transformation of trans- β -chlorovinyl organometallic compounds of mercury and tin into their cis-isomers under the action of peroxides, Uch. zap. Mosk. un., No. 132, 1950.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

NESMEYANOV, A.N.; BORISOV, A. YE.; SHEPELEVA, R. I.

Thallium Compounds

Di-cis- β -Chlorovinylthallium chloride. Uch.zap.Mosk.un. No. 132 1950

9. Monthly List of Russian Accessions, Library of Congress, October 195~~0~~² Uncl.

FREYDLINA, R.Kh.; NOGINA, G.V.; NESMEYANOV, A.N.

Bromine

Effect of bromine on alkylchlorocarbonates. Uch. zap. Mosk. un., No. 132, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 195², Uncl.

NESMEYANOV, A. N.: FIDLYDLINA, R.Kh.; DAN, YE. I.

Magnesium

Effect of magnesium on B-bromoethylmethylaniline, Uch. zap. Mosk. un., no. 132, 1950

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

NESMEYANOV, A. N., KURSANOV, D. N.,
FECHERSKAYA, K. A., FARNES, Z. N.

Chemical Structure

"Effect of structural factors on con-jugation phenomena. Part I. Mobility of hydrogen atoms in cyclic ketones of varied structure." Uch. Zap. Mosk. un. no. 132, 1950.

Monthly List of Russian Accessions. Library of Congress. October 1952. UNCLASSIFIED.

NESMEYANOV, A. N., KURSANOV, D. N., SMOLINA, T. A., PARNES, Z.N.

Chemical Structure

Effect of structural factors on conjugation phenomena. Part 2. Mobility of hydrogen atoms in acetyl acetone and in cobalt and aluminum acetylacetonates. Uch. zap. Mosk. un., no. 132, ' 50.

Monthly List of Russian Accessions. Library of Congress, October 1952. UNCLASSIFIED.

NESHEYANOV, A.N.: PECHERSKAYA, K.A.: TOLSTAYA, T.P.

Chemical Structure

Effect of structural factors on conjugation phenomena. Part 4. Reactivity of the CH-bond of barious ketones. Uch. zap. Mosk. un., No. 1, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 195², Uncl.

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Effect of structural factors on conjugation phenomena.
V. Analysis of the C-C link in some compounds con-
taining the triphenylmethyl group. A. N. Nemtsov,
E. G. Puzralova, N. A. Vol'kova, and I. P. Blinova
(M. V. Lomonosov State Univ., Moscow). (Sov. Akad.

Nash S.S.S.R., *Izdat. Khim. Nash* 1951, 692-3; cf.
Zhurnal Fizicheskoi Khimii, 1951, No. 7,
1410-1411; C.A. 45, 1000. Crystals violet have bp other
(12 g.) and 15 g. AcOH after 4 hrs. at 95-105° gave 41%
of 2,2,2-tris(p-dimethylaminophenyl)propanaldehyde (I), m.
121.5-2.0° (from C₆H₆-EtOH), and some 0.2 g. unknown

substance, C₂₇H₄₂N₆O, m. 220-3° (from Me₂S), which was
more sol. I from the p-nitrophenylhydrazine, decomp.
187-8° (from C₆H₆-EtOH), and crism. decomp. 200-2°.
Heating I with AcOH yields AcH (84% recovered) and the
residue after reduction with NaH₂O₂ gave 88% crystal violet
from base, m. 172-3°; similar cleavage of I occurs on
heating with other carboxylic acids. I reduced with Na₂O
contg. MgBr, similarly univalent cleavage and gave (after
reduction) 87% from base. I is essentially unchanged after
reduction with NaCl in Me₂S 4 hrs.; the same result is
observed with hot Ac₂O. Similarly was found from
EtOH 87% α-methyl-β,β,β-tris(p-dimethylaminophenyl)-
propanaldehyde, m. (92.5-70.5°); 2,4-dinitrophenylhydra-
zine, m. 165-4°. The substance is readily cleaved by
hot AcOH into AcH and the base form of crystal violet;
hot AcOH into AcH and the base form of crystal violet;
similar cleavage occurs with MgBr. MeCN:CHCHO
yields 88% 2,2,2-tris(p-dimethylaminophenyl)-2-propanol, m.
105-6°; p-nitrophenylhydrazine, m. 201-2° (contains 1
EtOH, but on crystals from C₆H₆-ligraime); sulfon, m. 194-5°
(from EtOH, contains 1 EtOH); semicarbazone, m. 219°
(contains 1 EtOH). This product also readily yields
crystal violet from base and probably MeCN:CHCHO on
heating with AcOH or MgBr. Heating crystal violet base
Me ether (0 g.) with 3 g. RNO₂ in C₆H₆ 5 hrs. gave 98%
2,2,2-tris(p-dimethylaminophenyl)-2-nitroethane, m. 105-3°
(decomps.; from C₆H₆-EtOH); this is also readily cleaved
on heating with AcOH or EtCO₂H; heating with HCO₂H,
however, is ineffective, but MgBr is still an active cleaving

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Notes. Crystal violet (21 g.) added to $CH_2ClCHClMgCl$ (from 21 g. $CH_2ClCHClCl$) gave 89% *tris*(*p*-dimethylaminophenyl)nitrobenzene, m. 122-3° (from CaH_2), which with Na_2CO_3 in Et_2O with cooling gave the decolorized, m. 172-3° (from CaH_2). The allyl deriv. decomposes in absolute Et_2O , yielding crystal violet; heating the compound with Et_2O does not yield crystal violet. The results are interpreted in terms of the conjugated system (the results are interpreted in terms of the reaction center in the reaction in 1,2-positions with a shift of the reaction center to the C-C link of the nitro group of the Ph_3C group. VI. Decoloration of the nitro group. A. N. Nesmeyanov, *Collection of the papers of the Institute of Organic Chemistry, Prague*, 1944, 699-707. N. A. Vol'kens, and E. G. Ferevalova, 1944, 699-707. Reduction of $(p-Me_2NC_6H_4)_3CC_6H_4NO_2$ (I) with $BuLi$ in HCl 2 hrs. at 100° and neutralization with NH_4OH gave *tris*(*p*-dimethylaminophenyl)nitrobenzene, m. 122-3° (from CaH_2); *tris*(*p*-dimethylaminophenyl)nitrobenzene, m. 122-3° (from $CHCl_2-EtOH$); 7,4-dinitrophenylhydrazine, m. 225-6°. The nitrobenzene heated with $AcOH$ 2 hrs. decolors. 212-15°. The nitrobenzene heated with Et_2O in HCl gave was totally uncolored; reduction with Zn dust in HCl gave 89% *tris*(*p*-dimethylaminophenyl)nitrobenzene, m. 172-3° (from CaH_2); reduction with Zn dust in $AcOH$ heated. The nitrobenzene with 2 moles $MeMgI$ in $AcOH$ heated. The nitrobenzene with 1 with cooled HCl showed no tendency to react. Reducing I with cooled HCl 12 hrs. gave *tris*(*p*-dimethylaminophenyl)nitrobenzene (II), m. 122-3° (in a sealed tube), which with Et_2O - $EtOH$ gave 89-9° (in a sealed tube), which with Et_2O - $EtOH$ gave 89-9° (in a sealed tube), which with Et_2O - $EtOH$ gave 89-9° (in a sealed tube). Reducing the acid with the Na salt, decolors. 212-15°. Reducing the acid with Et_2O - $EtOH$ and Et_2O gave the *Et* ester, m. 172-3° (from Et_2O); the ester is unchanged by hot $AcOH$ and does not

react with $EtMgBr$. Heating the free acid 2 hrs. with $NOCl_2$ gave 89% CO , while heating the residue with $EtOH$ and reduction of the violet mass with Na_2CO_3 gave 71.5% crystal violet inco base. The acid does not react with $SOCl_2$ in the cold. With $POCl_3$ in CH_2Cl_2 the acid yields 89% CO and the residue behaves as above; PCl_5 or PCl_3 also causes CO evolution and formation of crystal violet. Reducing I 2 hrs. with concd. HCl and neutralization with NH_4OH gave $(p-Me_2NC_6H_4)_3CC_6H_4NO_2 \rightarrow O$, decolors. 212-15° (from CaH_2), which, boiled with concd. HCl 10 hrs., yields *tris*(*p*-dimethylaminophenyl)nitrobenzene, m. 122-3° (from CaH_2); with Zn -3 N HCl it gave 89% *tris*(*p*-dimethylaminophenyl)nitrobenzene, m. 206-6°, also obtained from crystal violet and ECN ; reduction with $BuLi$ - HCl is similar, but no reaction takes place with Na_2CO_3 while $EtOH$ causes decolors. The nitrobenzene heated with $AcOH$ gives 87% crystal violet inco base (after the reduction step). Crystal violet with $PhMgBr$ gave 1,1,1-*tris*(*p*-dimethylaminophenyl)nitrobenzene, m. 151-3° (from $CHCl_2-EtOH$), and a larger amt. of crystal violet inco base. The base deriv. is identical with that obtained by hydrogenation of the allyl analog over $Pt-C$. (I. M. Kozlov)

NESMEYANOV, A. N.; Pecherskaya, K. A.;

Hydrocarbons

Introduction of the trichloromethyl group into an aromatic nucleus by a decarboxylation of trichloroacetic acid in the presence of aromatic hydrocarbons. Uch. zap. Mosk. un., no. 132, 1950.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

SHEVERDINA, Nataliya Ivanovna; KOCHESHKOV, Ksenofont Aleksandrovich.
Prinimala uchastiye ABRAMOVA, L.V.; NESSEYANOV, A.N.,
akademik, otv. red.; KODIKOV, A.N., red.

[Methods of the chemistry of organometallic compounds;
zinc, cadmium] Metody elementno-organicheskoi khimii; tsink
kadmii. Moskva, Nauka, 1964. 235 p. (MIRA 18:2)

HESEMAYANOV, A. Academician 600

USSR (600)

"In the Service of Peace and Progress" (By Academician A. Hesmeyanov,
President of the USSR Academy of Sciences.)

Soviet Source: Pravda, Sept 20, p. 2.

Current Digest of the Soviet Press (in [redacted] Library), Vol 3, No 38, 1951, p. 32

NESMEYANOV, A., Academician

Soviet Science Serves Cause of Peace and Public Welfare. (By Academician
A. Nesmeyanov, President of U.S. S. R. Academy of Sciences.)

Soviet Source: Izvestia, Nov. 4, p.2.

Current Digest of the Soviet Press (in ~~Library~~ Library), Vol. 3, No. 41
1951, P.3

CA.

Addition of organomagnesium compounds to 1,1-dimethylallyl acetate. A. N. Nesmeyanov, R. Kh. Friedlind, and A. K. Kochetkov. 1957. *Acad. Nauk S.S.S.R., Dokl. Khim. Nauk* 1951 273-9; cf. C.A. 46, 3620e. — (I) $\text{CH}_2=\text{CH}(\text{Me})\text{COAc}$ (I), by EtMgBr and PhMgBr react with $\text{CH}_2=\text{CH}(\text{Me})\text{COAc}$ (I), by EtMgBr and PhMgBr react with $\text{CH}_2=\text{CH}(\text{Me})\text{COAc}$ (I), by the way of 1,2- and 1,4-addition. 1,2,5-Me₃CO₂MgBr (II) adds in the 1,4-manner to $\text{Me}_2\text{C}=\text{CH}(\text{Me})\text{COAc}$ (III). All facts about addition of RMgX to allyl esters are explainable without a dissociative mechanism, but on assumption that the single link between the 3rd and 4th C atoms can conjugate with the CO and C:C links, so that 3rd, 4th, and 5th C atoms are subject to the attack by nucleophilic reagent, and by steric effects one can direct the point of reaction to the desired atom. EtMgBr (from 30 g. EtBr) in Et_2O added slowly to 30 g. I in Et_2O and refluxed 5 hrs. gave, after removal of MeCOEt as a semicarbazone, 31.5% 2-methyl-2-hexene, *bp* 96-98°, *n_D²⁰* 1.4777, *d₄²⁰* 0.7001 (osonolysis gave Me_2CO and EtCOEt). Similarly PhMgBr gave AcPh and 25% 2-methyl-4-phenyl-2-butene, isolated as the dibromide, *m.* 63.5-64.0°. II (from 35 g. EtBr) and 17 g. III gave 8.7 g. mesitylene and 4.6 g. liquid, *bp* 142.5-143.0°, *n_D²⁰* 1.5196, *d₄²⁰* 0.9042, identical as 2-methyl-4-methyl-2-butene, yielding the 2,2-dibromide, *m.* 71-71.5°. G. M. Kosolapoff.

CA

16

Reaction of β -chlorovinyl ketones with alcohols. A. N. Nesmeyanov, N. K. Kochetkov, and M. I. Rybinskaya (M. V. Lomonosov State Univ., Moscow). *Izvest. Nauk Akad. S.S.S.R., Otdel. Khim. Nauk* 1951, 395-401. — $\text{RCOCH}=\text{CHCl}$ with alcoh. yields acetals of β -keto aldehydes. Addn. of 10 g. NaOH in 80 ml. abs. MeOH at under 15° to 20 g. $\text{MeCOCH}=\text{CHCl}$ in 25 ml. abs. MeOH , then stirring 8 hrs., gave after filtration of NaCl 70% acetoacetaldehyde di-*Me* acetal, b_p 69° , d_4^{20} 0.9978, n_D^{20} 1.4231, which decolorizes in water and gives a red color with FeCl_3 . A reaction run instead in the presence of dry HCl gave but 39.5% yield. Stirring the product with 10% HCl gave 62% triacetylbenzene, m . 162-2.5°, while treatment with $\text{Na}_2\text{S}_2\text{O}_8$ in Et_2O gave 3-methylpyrazole (52%), isolated as the picrate, m . 141°; free base, b . 204-6°. $p\text{-O}_2\text{NC}_6\text{H}_4\text{NHNH}_2$ in hot AcOH gave 44% 1-(*p*-nitrophenyl)-3-methylpyrazole (I), m . 166°. The ketone with EtOH , as above, gave 80% corresponding di-*Et* acetal, b_p 76-7°, d_4^{20} 0.9410, n_D^{20} 1.4223, while BuOH gave 60% di-*Bu* acetal analog, 66%, b_p 114-11.5°, d_4^{20} 0.9131, n_D^{20} 1.4320. Similarly EtOH with $\text{EtCOCH}=\text{CHCl}$ gave 50% β -oxoacetaldehyde di-*Et* acetal, b_p 86.5-7.0°, d_4^{20} 0.9360, n_D^{20} 1.4244; $\text{EtCOCH}=\text{CHCl}$ gave 47% butyroacetaldehyde di-*Et* acetal, b_p 84-5°, d_4^{20} 0.9228, n_D^{20} 1.4317. Addn. of 15 g. $\text{MeCOCH}=\text{CHCl}$ to 3.3 g. Na in 120 g. PhOH at $60\text{-}5^\circ$ and stirring 4 hrs. gave 31% *Me* 2-phenoxovinyl ketone, b_p 113-14°, d_4^{20} 1.0771, n_D^{20} 1.5310, and 29% acetoacetaldehyde di-*Ph* acetal (II), b_p 168-9°, m . 31-2°. When the former product is warmed with 20% H_2SO_4 it yields PhOH readily, while treatment with $p\text{-O}_2\text{NC}_6\text{H}_4\text{NHNH}_2$ in AcOH yields I. II with the same reagent gives 64% I.

G. M. Kraslapoff

1952

NESMEYANOV, A. N.
CA

Action of chlorine and bromine on alkyl orthoformates.
A. N. Nesmeyanov, R. Kh. Frekhtina, and O. V. Nagina.
Izv. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk 1981,
518-52; cf. C.A. 66, 5274g. — All work was done with ex-
clusion of atm. moisture. 27.5 g. $(\text{BuO})_2\text{Ti}$ in 30 ml.
 CCl_4 with Cl until 6 g. gain in wt. is reached, with good ice
cooling (the reaction is exothermic), letting stand 24 hrs.,
and distg. the solvent and low-boiling products gave an ex-

remely hygroscopic residue of $(\text{BuO})_2\text{TiCl}_2 \cdot \text{BuOH}$ (from
abs. Et_2O) in nearly quant. yield. Long drying over P_2O_5
yields $(\text{BuO})_2\text{TiCl}_2$. Repetition of the reaction with 70 g.
chlorine and 28.7 g. Cl (2 moles Cl per mole) FeCO_3 , possibly
volatile products some 8.9 g. (30%) FeCO_3 . Similar re-
action through the free radicals of type BuO^\cdot . Similar re-
action of $(\text{EtO})_2\text{Ti}$ gave 100% hygroscopic $(\text{EtO})_2\text{TiCl}_2 \cdot$
 EtOH (from abs. Et_2O), while $(\text{PrO})_2\text{TiCl}_2 \cdot \text{PrOH}$ was ob-
tained similarly from the Pr ester. Decomposition of $(\text{BuO})_2\text{Ti}$
below 40° gave 70% yellow $(\text{EtO})_2\text{TiBr}_2 \cdot \text{EtOH}$, decomp.
 $100-40^\circ$; the liquid fractions gave some EtOAc and EtOH .
Similarly were prepd. 46% $(\text{PrO})_2\text{TiBr}_2 \cdot \text{PrOH}$ (from Et_2O)
and $(\text{BuO})_2\text{TiBr}_2 \cdot \text{BuOH}$. Refluxing $(\text{PrO})_2\text{Ti}$ 3 hrs. with
pyridine- HCl in C_6H_6 gave 85% $(\text{PrO})_2\text{TiCl}_2$, b. $148-50^\circ$.
When 27 g. $(\text{EtO})_2\text{Ti}$ was heated with 54 g. $\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{NH}_2$
to 150° , EtOH slowly distd. over; after addn. of 54 g.
addnl. chloroform and heating with 30 g. EtOH had col-
lected, distn. gave 40% $(\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2)_2\text{Ti}$, b. $180-2^\circ$, b.
 $177-8^\circ$, as a black viscous liquid. Similar reaction of
 PrCH_2OH with $(\text{BuO})_2\text{Ti}$ at $170-90^\circ$ gave $(\text{PrCH}_2)_2\text{Ti}$,
which could not be distd. in vacuo and on heating to 280° at
2 mm. yielded $(\text{PrCH}_2)_2\text{O}$. Similar reaction of $(\text{EtO})_2\text{Ti}$ b.
with $\text{MeOCH}_2\text{CH}_2\text{OH}$ gave 96% $(\text{MeOCH}_2\text{CH}_2)_2\text{Ti}$, b.
 $182.5-3.0^\circ$, n_D^{20} 1.5077, d_4^{20} 1.1010; similarly was prepd.
88% $(\text{EtOCH}_2\text{CH}_2)_2\text{Ti}$, b. $182-8^\circ$, n_D^{20} 1.5020, d_4^{20} 1.1108.
G. M. Kostopoff

Reaction of 2-alkoxycarbonyl ketones with aliphatic diamine compounds. A. N. Nesmeyanov and N. K. Kochetkov

(M. V. Lomonosov State Univ., Moscow). *Izv. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1961, 686-91; cf. C.A. 66, 497b, 2007d. — $\text{C}_8\text{H}_{12}\text{O}_2$ (from 20 g. $\text{MeN}(\text{NO})\text{CONH}_2$) in cold Et_2O with 10 g. $\text{AcCH}_2\text{CHCl}_2$ yielded after several hrs. a ppt. of *Me*-2-pyransyl ketone *HCl* salt, yielding with Na_2CO_3 67% free ketone, m. 100-1° (from Et_2O , then C_6H_6); *p*-nitrophenylpyranyone, m. 248-9°; *o*-nitrophenylpyranyone, m. 142-3°; *isomeric* ketone, decomp. 204-6°. Treatment with hot KMnO_4 gave 2-pyransylacetic acid, m. 210-11° (sublimation). Similarly: $\text{EtCOCH}_2\text{CHCl}_2$ gave 90% *Et*-2-pyransyl ketone, m. 122-4° (*isomeric* ketone, m. 189-90°), while $\text{PrCOCH}_2\text{CHCl}_2$ gave 71% *Pr*-2-pyransyl ketone, m. 104-5° (*isomeric* ketone, m. 179-80° (decomp.)). *iso*- $\text{BuCOCH}_2\text{CHCl}_2$ gave 73% *iso*-*Bu*-2-pyransyl ketone, m. 84-5° (*isomeric* ketone, m. 187-8° (decomp.)); $\text{PhCOCH}_2\text{CHCl}_2$ gave 64% *Ph*-2-pyransyl ketone, m. 98-9° (from C_6H_6 -petr. ether) (*isomeric* ketone, m. 185-7° (decomp.)). Heating 13 g. $\text{MeCOCH}_2\text{CHCl}_2$ with 13 g. $\text{N}_2\text{CHCO}_2\text{Et}$ to 80° gave 24% *Et*-2-acetyl-6-pyransylacetyl-*N*, *m*. 112-12.5° (from H_2O) (*isomeric* ketone, m. 210-12° (from dil. EtOH)); sapon. of the ester with hot 10% NaOH gave 63% free acid, decomp. 257-60° (from EtOH - C_6H_6), oxidized with alk. KMnO_4 to 2,5-pyransylacetic acid, m. 288-9° (decomp.). G. M. Kosolapo

NESMEYANOV, A. N.

Kochetkov, N. K., Rybinskaya, M. I. and Nesmeyanov, A. N. (M. V. Lomonosov Moscow State University), The interaction of alkyl- β -chlorovinylketones and phenols, 799-802.

Akademiya Nauk S. S. S. R., Doklady Vol. 79 No. 5, 1951.

NESMEYANOV, A. N.

USSR/Academies of Sciences - Committees May 51

"Concerning Appointment of a Chairman of the Committee for Coordinating the Construction of Hydroelectric Stations, Canals, and Irrigation Systems"

"Vest Ak Nauk SSSR" No 5, p 91

Acad A. N. Nesmeyanov, Pres, Acad Sci USSR, has been selected chairman of the Committee for Coordinating the Constr of Hydroelec Stations, Canals, and Irrigation Systems. This committee is subordinate to the Presidium of Acad Sci USSR.

221796

PA 19515

NESMEYANOV, A. N.

name/chemistry - Halogenated Hydrocarbons sep/oct 51

Synthesis and Properties of Certain Polyhalogen Derivatives of Propane and Propane Containing the Trichloromethyl Group, A. N. Nesmeyanov, E. M. Freydlina, V. I. Firsov, Inst of Org Chem, Acad Sci USSR

In Ak Nauk SSSR, Otdel Khim Nauk No 5, no 505-511

Action of KOM on $CCl_3CH_2CH_2Cl$ yielded $CCl_2=CHCH_2Cl$ and $CCl_3CH=CH_2$ (latter compd never before prepd). By series of reactions starting

19515

name/chemistry - Halogenated Hydrocarbons (Gentils) sep/oct 51

From these 2 compds, prepd 8 new compds contg CCl_2 and CCl_3 groups. Of compds contg CCl_3 group, 2 were Br-substituted.

PA 195T6

NESMEYANOV, A. N.

Chemistry - Oxime Ethers Sep/Oct 51

"Synthesis of o-Allyl Ethers of Oximes," A. N. Nesmeyanov, A. K. Kochetkov, R. Kh. Freydlina, Inst of Org Chem, Acad Sci USSR

"Is Ak Nauk BSSR, Otdel Khim Nauk" No 5, pp 512-517

Intercepted allylbromides (I) with ald- and ket- oximes in presence of Na ethylate to obtain good yield of o-allyl oxime ethers, easily purified by distn; but no W-allyl derive under conditions in question. Action of I on KOM (903K)2 gave

195T6

Chemistry - Oxime Ethers (Contd)

Sep/Oct 51

Good yield of o-allylhydroxylamine (II), b 97-5-98°C. Heated II with oximes to prep a number of o-allyl oxime ethers. In all, prepd 6 herbs before unknown o-allyl oxime ethers.

NESMEYANOV, A. N.

ISSUE/Chemistry - Organic Titanium Compounds Sep/Oct 51

"Action of Chlorine and Bromine on Alkylorthotitanates," A. N. Nesmeyanov, R. Kh. Freydlina, O. V. Bogdan, Inst. of Org. Chem, Acad Sci USSR

"Tr Ak Nauk SSSR, Otdel Khim Nauk" No 5, pp 518-523

Found that action of Cl₂ and Br₂ on Et, n-Pr, and Bu orthotitanates gives good yield of compts of type (NO)₂TiBr₂·NOH and that orthoalkyltitanates cause ether condensation of aldehydes according to Fieser-Chabko. Synthesized following previously unknown compts: (NO)₂TiBr₂·NOH (R = Et, Pr, Bu, resp);

1957

ISSUE/Chemistry - Organic Titanium Compounds (Contd) Sep/Oct 51

(NO)₂TiCl₂·NOH (R = Pr, Bu, resp); (PrO)₂TiCl₂ by interaction of pyridine chlorohydrate with Pr orthotitanate; and (NO)₂Ti (R = ClEt, Br, MeOEt, MeOEt, resp by re-esterification.

1957

NESMEYANOV, A. N.

PA 1974

USSR/Chemistry - Halogenated Ethers Nov/Dec 51

"Beta, Beta Prime-Dibromosubstituted Ethers,"
A. N. Nesmeyanov, V. A. Sazonova, Ye. I. Vasil'-
yeva, Moscow State U imeni M. V. Lomonosov

"Iz Ak Nauk SSSR, Otdel Khim Nauk" No 6, pp 708-
713

Investigated the reaction of ethylene oxide and
bromine with unsat'd hydrocarbons (ethylene, pro-
pane, isobutene, cyclohexene) leading to beta,
beta prime-disubstituted ethers. Vinyl-beta-bro-
moethyl ether reacts with activated magnesium or
in metal under evolution of ethylene and acety-
lene.

1974

CA NESMEYANOV, A. N.

2

Academicians N. D. Zelinski, A. N. Nesmeyanov, M.
A. Frolov, and N. S. Shinkin. *Vestnik Mosk. Univ.*
S. No. 2, Ser. Fiz.-Mat. i Estestv. Nauk No. 1, 3-8 (1951).
—Salutation on 90th birthday, with portrait. G. M. K.

CA

S. R. Dzhosha substituted others. A. N. Nevskiy, V. A. Shumov, and E. I. Vost'eva (M. V. Leningrad State Univ., Moscow). Izv. Akad. Nauk S.S.S.R., Otd. Khim. Nauk 1961, 792-13.—Treatment of 41 g. ethylene oxide simultaneously with a stream of C_2H_2 and Br (116 g.) with stirring and ice cooling over 4 hrs., followed

by aq. treatment with dil. Na_2CO_3 , gave 44% ($BrCH_2CH_2$)₂O (I), b. 74-8°, n_D^{20} 1.5180, d_4^{20} 1.5450. The residues from several runs also gave some 10% ($BrCH_2CH_2OCH_2$)₂, b. 117-18°, n_D^{20} 1.5098, d_4^{20} 1.5777, and a small amt. of ($BrCH_2CH_2OCH_2CH_2OCH_2CH_2$)₂, b. 136-8°, d_4^{20} 1.5996, n_D^{20} 1.6071. I (20 g.) heated with 19 g. powdered KOH in a 204° bath gave H_2O and 30% $BrCH_2CH_2OCH_2CH_2$, b.p. 125.5-7.0°, n_D^{20} 1.4706, d_4^{20} 1.4117, this with activated Mg in Me_2O yields C_6H_6 and C_6H_5Br , also formed with Na metal. Similar reaction of 62 g. ethylene oxide with $MeCH_2CH_2$ and 125.6 g. Br gave 58% $BrCH_2CH_2OCH_2MeCH_2Br$, b. 64-8°, n_D^{20} 1.5335, d_4^{20} 1.7228, and some 6% $BrCH_2CH_2OCH_2CH_2OCH_2MeCH_2Br$, b. 112-13°, n_D^{20} 1.6000, d_4^{20} 1.8854. The latter with $PhNH_2$ yields 65% 2-methyl-2-phenylmorpholine, b. 93-4°, n_D^{20} 1.5650, d_4^{20} 1.0850, yielding a nitrate deriv., m. 60-70° (from aq. Me_2CO), which with $NaHSO_3$ yields 2-methylmorpholine, b. 123°, n_D^{20} 1.4450. The simultaneous action of $Me_2C=CH_2$ and Br on ethylene oxide, as above, gave an unstated yield of $BrCH_2CH_2OCH_2MeCH_2Br$, b. 64-8°, n_D^{20} 1.6006, d_4^{20} 1.8264. Cyclohexane similarly gave 2-bromoethyl 2-bromocyclohexyl ether (II), 78%, b. 110°, n_D^{20} 1.5256, d_4^{20} 1.6252, while the residues gave a little 2-bromocyclohexyl 2-bromomethyl ether, b. 148°, n_D^{20} 1.5172, d_4^{20} 1.5250. II (20 g.) reduced 6.5 hrs. with 4 g. KOH in $EtOH$ gave 37% 1-ethoxymethyl cyclohexan-1-yl ether, b. 72°, n_D^{20} 1.4578, d_4^{20} 0.9445; heated with Na to 190° it yields cyclohexadiene. Similar reaction 7 days at room temp. gave an unstated yield of 1-ethoxy-2-(2-bromomethyl)cyclohexane, b. 116°, n_D^{20} 1.4706, d_4^{20} 1.3776. G. M. Kozlovskii

PA 19376

NESEMEYANOV, A. N.

USSR/Chemistry - Petroleum,
Hydrocarbons

Jan/Feb 51

"Lines of Development of Academician N. D. Zelinskiy's Work," B. A. Kazanskiy, A. N. Nesmeyanov, A. F. Plate, Moscow

"Uspekhi Khim" Vol XX, No 1, pp 18-53

General review of N. D. Zelinskiy's chem achievements in fields of synthesis of hydrocarbons, interconversions of hydrocarbons, research into the origin of petroleum, catalytic conversions of heterocyclic systems, and catalytic conversions of org S compds.

19376

(CA 48 no. 2: 414 '54)

191714

NEZMEYANOV, A. N.

USSR/Chemistry - Organometallic Compounds Sep/Oct 51

"Review of S. T. Ioffe and A. N. Nezmeyanov's Handbook of Magnesium-Organic Compounds," Volumes I-III, "Ya. T. Bydus

"Uspekhi Khim" Vol XX, No 5, pp 671, 672

Reviews in some detail this work, which is a part of the series "Synthetic Methods in the field of Organometallic Compounds" published under the general editorial supervision of Acad A. N. Nezmeyanov and K. A. Kocheshkov, Corr Mem, Acad Sci USSR. States that all references to

191714

USSR/Chemistry - Organometallic Compounds (Contd) Sep/Oct 51

reactions involving Mg-org compds and listed in "Chem Zentralblatt," 1899 - 1940, and "Chem Abstracts," 1941 - Jan 1, 1948, as well as Russian and USSR work in this fld not listed by these 2 journals (altogether more than 13,000 reactions) have been included in the handbook. According to Bydus, the handbook is well published and indexed. Published by Press Acad Sci USSR, M-L, 1950.

191714

NESMEIANOV, A. N.

The speech of the President of the Academy of Sciences of the USSR, academician A. N. Nesmeianov. P. 28.

SO: Vestnik, Messenger of the Acad. of Sci., USSR, 21, 3, (1951)

NESMEYANOV, A. N.

"Reply to E. A. Shilov." (p. 2093)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1951, Vol 21, No 11.

NESMEIANOV, A. N.

The president of the Academy of Sciences of the USSR, academician A. N. Nesmeianov.

Brief biographical sketch. P. 30.

SO: Vestnik, Messenger of the Acad. of Sci., USSR, 21, 3, (1951)

NESMEYANOV, A. N.

Peace - Congresses

Address by president of the Academy of Sciences of the U.S.S.R. , Academician A. N. Nesmeyanov, at the 3rd All-Union Conference of the Partisans of Peace., Vest. AN SSSR, 21, no. 12, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953², Uncl.

CA

10

Syntheses in the heterocyclic series based on 2-chlorovinyl ketones. A. N. Nemeyanov and N. K. Kochetkov (M.V. Lomonosov Moscow State Univ.). *Doklady Akad. Nauk S.S.S.R.* 77, 65-6 (1951); cf. *C.A.* 45, 1862b. — $\text{MeCOCH}=\text{CHCl}$ with hydrazines, diazalkanes, org. azides, hydroxylamines, give a variety of heterocyclic compds. in satisfactory yields. Thus, 10 g. $\text{MeCOCH}=\text{CHCl}$ in 20 ml. Et_2O added to a cooled soln. of CH_3N_3 (from 20 g. $\text{Me}(\text{NO})\text{NCONH}_2$) in 250 ml. Et_2O , gave a cryst. ppt. in 1 hr.; treating this with 5% Na_2CO_3 , extg. the soln. with Et_2O , and evapg. the Et_2O gave 67.5% 1-acetylpyrazole, m. 100-1° (from C_6H_6), sol. in H_2O , Et_2O , Me_2CO , EtOH , poorly sol. in petr. ether; *p*-nitrophenylhydrazone, m. 248-9°; oxime,

m. 142-3°; semicarbazone, m. 204-5° (from H_2O ; decomp.). Refluxing 3.5 g. PhN_3 and 3 g. $\text{MeCOCH}=\text{CHCl}$ in 10 ml. C_6H_6 10 hrs. and concg. gave 38% 1-phenyl-6-acetyl-1,2,3,4-tetrahydropyridine, m. 108-9° (from dil. EtOH), sol. in Me_2CO , hot EtOH ; semicarbazone, m. 222-3° (from EtOH); oxidation with alk. $\text{K}_2\text{Cr}_2\text{O}_7$ yields an acid, m. 140-51°. Refluxing 11.3 g. NH_4OAc and 18 g. $\text{MeCOCH}=\text{CHCl}$ 3 hrs. in 200 ml. MeOH , treating the hot soln. with 100 g. CdCl_2 in hot satd. aq. soln., and letting stand several days gave the Cd complex of methylisoxazole, which on moistening with H_2O and thermal decomp. (distn.) and purification by Et_2O , gave 8.3 g. pure methylisoxazole, b. 119.5-20.0°, d_4^{20} 1.0286, n_D^{20} 1.4380; treatment with EtONa (Claisen, *C.A.* 3, 883) showed the presence of 54% 5-isomer. $\text{MeCOCH}=\text{CHCl}$ (22 g.) and 40 g. $\text{AcCH}_2\text{CO}_2\text{Et}$ in 75 ml. EtOH satd. with NH_3 , kept 1 hr. at room temp. and refluxed 3 hrs. gave upon filtration and distn. 50% *Et* 2,6-dimethylisoximate, bp 111-17°, b_m 130-1°, d_4^{20} 1.0565, n_D^{20} 1.5070; *pyruvate*, m. 137°; *pyruvate*, m. 142.5°.

G. M. Kosolapoff

NESMEYANOV, A-N.

NASMEIANOV, A. N.

From the Russian for Mr. G. O. Doak

Doklady Akademii Nauk SSSR, 78 (4): 709-712; 1951.

A New Method for Obtaining Primary Aryl Phosphinic Acids

by

B. M. Mikhailov and N. F. Kucherova

(Article was presented by Academy Member A. N. Nasmelianov March 20, 1951).

Translated at the National Institute of Standards and Technology, Gaithersburg, Maryland
Full translation available in [redacted]

Synthesis of pyridine derivatives using β -chlorovinyl ketone. N. K. Kochel'kov, A. Gonsales, and A. N. Nezmerann (M. V. Lomonosov State Univ., Moscow). *Dokl. Akad. Nauk S.S.S.R.* 79, 603-12 (1951); cf. C.A. 46, 407A, 3907d. — MeC(NH₂):CHCO₂Et (15.0 g.) and 7.0 g. MeCOCH:CHCl are kept 1 hr. at room temp., heated 4 hrs. on a steam bath, 25 ml. 20% H₂SO₄ added, the mixt. heated an addnl. 2 hrs., cooled, neutralized with 40% NaOH, and extd. with ether and the ext. dried over K₂CO₃ and dist. to give 75% Et 2- β -dimethylnicotinate, b_n 125-6°, n_D²⁰ 1.5070. Similarly adding 30 g. AcCH₂CO₂Et in 100 ml. satd. NH₄EtOH to 25 g. AmCOCH:CHCl gives Et 2-methyl- β -amyl-nicotinate, b_n 157-8°, d₄ 0.9960, n_D²⁰ 1.4805 (45% yield). Et 2-methyl- β -propylnicotinate b_n 138-9°, d₄ 1.069, n_D²⁰ 1.5010. 3-Acetyl-2,6-dimethylpyridine b_n 114-16°, m. 34-5°. Et 2,4-dimethylnicotinate (from H₂NCH:CHCOMe) b_n 115-10°, d₄ 1.1100, n_D²⁰ 1.5325. 2,4-Dimethylpyridine b_n 157-9°, n_D²⁰ 1.5025; picrate, m. 182.5-3°. M. D.

Handwritten marks: a circled '2', a signature, and other scribbles.

NECMYANOV, A.N.

Mechenye atomy [Marked atoms]. Izd. 2-e, Gostekhizdat, 1952. 63 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 2, May 1953

NESMEYANOV, A.N., akademik, otvetstvennyy redaktor; BOBROV, P.A., doktor khimicheskikh nauk, otvetstvennyy redaktor; YELIZAROVA, A.N., kandidat khimicheskikh nauk, chlen redaktsionnoy kollegii; KAPLAN, Ye.P., kandidat khimicheskikh nauk, sekretar'; LIBERMAN, A.L., kandidat khimicheskikh nauk, chlen redaktsionnoy kollegii; NAGIBINA, T.D., kandidat khimicheskikh nauk, chlen redaktsionnoy kollegii; MEJENKO, V.A., kandidat khimicheskikh nauk, zamestitel' otvetstvennogo redaktora; BYDUS, Ya.T., doktor khimicheskikh nauk, chlen redaktsionnoy kollegii.

[Syntheses of organic compounds] Sintezy organicheskikh khimii. Moskva, Izd-vo Akademii nauk SSSR. Vol.2. 1952. 190 p. (MLRA 6:5)

1. Akademiya nauk SSSR, Institut organicheskoy khimii.
(Chemistry, Organic)

NOGINA, O.V.; FREYDLINA, R.Kh.; HEVMEYANOV, A.N.

Synthesis of trialkoxytitanium chlorides. Bull. Acad. Sci. U.S.S.R., Div.
Chem. Sci. '52, 81-5 [Engl. translation].

(CA 47 no.19:9911 '53)

NESMEYANOV, A.N.; SAZONOVA, V.A.; VASIL'YEVA, Ye.I.

Stereoisomeric sodium enolates. Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci. '52, 87-95 [Engl. translation].
(CA 47 no.19:9912 '53)

KOCHETKOV, N.K.; NISMEYANOV, A.N.; SEMENOV, N.A.

Synthesis of isoxazoles from 2-chlorovinyl ketones. Bull. Acad. Sci.,
Div. Chem. Sci. '52, 97-102 [Engl. translation].
(CA 47 no.19:9964 '53)

NESMEYANOV, A. Academician

Great Force of Creative Cooperation. By Academician A. Nesmeyanov, President of U.S.S. R. Academy of Sciences.

Soviet Source: Pravda, Feb. 29, pp-2-3

Current Digest of the Soviet Press (in LIBRARY), Vol. 4, No. 9, 1952 p. 32.

NESMEYANOV, A. N.

4

③ Chem

Preparation of alkoxytitanium trichlorides from titanium tetrachloride and alcohols. A. N. Nesmeyanov, R. Kh. Freidlin, and O. V. Nordin. *Bull. Acad. Sci. U.S.S.R. Div. Chem. Sci.* 1952, 907-9 (Engl. translation).—See *C.A.* 48, 887c. H. L. H.

Chemical Abst
Vol. 48 No. 9
May 10, 1954
Organic Chemistry

ИЭСМЕЯНОВ, Н.-В.

Chem Abs V48
1-25-54
Organic Chemistry

Preparation of alkyltitanium trichlorides from titanium tetrachloride and alcohols. A. N. Nosovyanov, R. Kh. Freidling, and O. V. Nostina. *Izv. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1952, 1037-40; cf. Jennings, et al., *C.A.* 30, 5180. — Reaction of $TiCl_4$ with small proportions of ROH yields $ROTiCl_3$ as the sole product. The reagents thoroughly dry and the reaction must be protected against atm. moisture. To 142.5 g. $TiCl_4$ and 200 ml. petr. ether (b. 50-80°) was gradually added 30 g. $PrOH$ in 200 ml. petr. ether, the mixt. was refluxed 3 hrs., concd., and chilled, yielding a ppt. which was sepd. and distd. giving after 2 distns. 98.5% $PrOTiCl_2$, b. 83-5°, b.p. 100-2°, m. 65-6°. Similarly 142 g. $TiCl_4$ and 23 g. $EtOH$ in petr. ether gave, after 8 hrs. reflux, decantation from a ppt. concn. of the soln., and chilling, 87.5% $EtOTiCl_2$, b. 185-6°. $TiCl_4$ (95 g.) and 24.7 g. $iso-BuOH$ in 225 ml. CCl_4 gave after 9 hrs. reflux and chilling, nearly 100% $iso-BuOTiCl_2$, b. 92-4°, m. 81-3°. $iso-AmOH$ (44 g.) and 142.5 g. $TiCl_4$ in petr. ether gave after 8 hrs. reflux 95.5% $iso-AmOTiCl_2$, b. 110-11°, m. 50-60°; C_6H_5OH and $TiCl_4$ similarly gave after 3 hrs. reflux nearly 100% $C_6H_5OTiCl_2$, b. 120-2°, m. 47.5-9.0°. $MeOCH_2CH_2OH$ (38 g.) and 142.5 g. $TiCl_4$ in 275 ml. CCl_4 gave after 4 hrs. reflux nearly 100% $MeOCH_2CH_2OTiCl_2$, which sublimed slowly at 180-80° at 5 mm., and the sublimed product, m. 164-6°; it was insol. in petr. ether, CCl_4 , C_6H_6 , or Et_2O . O. M. Kosolapoff

NAF
7-28-54

NESVETIANOV, A. N.

"Tenth Session on Coordination of Scientific Activity of the Academies of Sciences of the Union Republics (6 Dec 51). Introductory Remarks by Chairman of the Council for Coordination," Vest AK nauk SSSR, No 1, pp 13-15, Jan 52.

Six academies were present at first session in 1945. Since then, scientific progress of USSR is reflected in the fact that 12 out of 16 republic academies with affiliates in other republics participated. The purpose is to combine all efforts in order to surpass technical and scientific accomplishments of capitalistic countries.

251766

KOCHETKOV, N. K., NESMEYANOV, A. N., SEMENOV, N. A.

Isoxazoles

Synthesis of isoxazoles from β -vinyl chloride ketones. Izv. AN SSSR. Otd. Khim. nauk no. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. Unclassified.

NEZHEKIANOV, A.N.; SAZONOVA, V.A., VASIL'YEVA, Ye. I.

Enolates

Stereoisomeric sodium enolates. Izv. AN SSSR otd. khim. nauk no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 19~~73~~⁷², Uncl.

NESMEYANOV, A. N.

USSR/Chemistry - Titanium Compounds

Jan/Feb 52

"A New Method for Synthesizing Trialkoxytitanium Chlorides," O. V. Nogina,
R. Kh. Freydlina, A. N. Nesmeyanov; Inst of Org Chem, Acad Sci USSR

"Iz Ak Nauk, Otdel Khim Nauk" No 1, pp 74-77

The new synthesis is based on the re-etherification of thiethoxy titanium chloride, and proceeds as follows:



A number of heretofore unknown compds was synthesized by this method, which is quick and gives an almost quant yield.

PA 208T6

NESMEYANOV, A. N.

USSR/Chemistry - Structural Theory Jan/Feb 52

"Concerning 'Contact Bonds' and 'The New Structural Theory,'" A. N. Nesmeyanov

"Iz Ak Nauk SSSR, Otdel Khim Nauk" No 1, pp 196-200

Criticizes G. V. Chelintsev's structural theory, particularly his concept of homopolar contact bonds. States that Chelintsev, in assuming localization of bonds in molecules of the type A'A' leaves entirely the ground of natural science and indulges in purely legalistic casuistry. Says

208716

USSR/Chemistry - Structural Theory Jan/Feb 52
(Contd)

further that while USSR chemistry should ought to be cleansed from harmful influences of decadent bourgeois philosophy and science, homemade vulgarizations of science must be also eliminated.

208716

Chem Ab. V48
1-25-54
organic chemistry

~~Vinyl Chloride. A. N. Nesmeyanov
and A. P. Borisov. *Ann. N.Y. Acad. Sci.* 1952, 44, 3881c. Heating with stirring 8 hrs. at 90-6°
a mixt. of 10 g. *trans*-CHCl:CH₂Cl, 25 ml. dry xylene and
0.2 g. Bz₂O₂, filtration while hot, and cooling the filtrate
gave 85-95% *cis* analog, m. 78-9° (some 1.5-2 g. being re-
distn. of some xylene).
G. M. Kosolapoff~~

MF
7-28-54

NESEMYANOV, A.N., Academician

Academy of Sciences of the U.S.S.R.

Yearly meeting of the Academy of Sciences of the U.S.S.R. (Feb.1,1952).

Introductory speech by the President of the Academy of Sciences of the U.S.S.R.

Izv. AN SSSR Otd. tekhn. nauk. No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, OCTOBER 1952 ~~1953~~, Uncl.

NESMEYANOV, A. N., Academician -

Creative Cooperation Between Scientist and Builders. Interview with
Academician A. N. Nesmeyanov, President of the U.S.S. R. Academy of Sciences

Soviet Source: Izvestia, Dec. 25, P. 1.

Current Digest of the Soviet Press (in Library), Vol, 3, No. 52
1952. P. 28

USSR/Chemistry - Medicine

Apr 52

"Science to the People," Acad A. N. Kosenyakov,
Press, Acad Sci USSR

"Priroda" No 4, pp 3-6

In connection with 1951 Stalin Prize awards, it
draws parallels between peaceful endeavors in the
USSR and scientific activity in the US which led
to "dropping by US armed forces over Korea and
China of fleas, grasshoppers, sandflies, birds,
and bats infected with bacteria of plague, cholera,
and typhus." As outstanding new USSR achievements,
mentions new syntheses of emetine and plicoungine

21717

(by M. A. Pecherzhanskiy), synthesis of prosofol
(anesthetic which is much more effective than mor-
phine and less toxic), conquest of smallpox,
plague, cholera, syphilis, malaria, and tsetse
tick-born encephalitis, V. A. Negovskiy's work
on reviving dead people by intracardial trans-
fusion of blood contg glucose and adrenalin
(accompanied by intravenous blood transfusion and
artificial respiration), etc.


21717

NESMEYANOV, A.N. (Pres)

NESMEYANOV, A. Academician

SOVIET SCIENCE SERVES THE PEOPLE. (By Academician A. Nesmeyanov,
President of the U.S.S.R. Academy of Sciences.

Soviet Source: Pravada, March 13, p. 3

Current Digest of the Soviet Press (in  Library), Vol, 4, No. 11
1952, p. 16

1. NESMEYANOV, A., Academician

2. USSR (600)

TAKE FIRST PLACE IN WORLD SCIENCE. (By Academician A. Nesmeyanov, President of the U.S.S.R. Academy of Sciences.

9. Soviet Source: Pravda, Oct. 23, p. 2

9a. Current Digest of the Soviet Press (in [redacted] Library), Vol. IV, No. 41, 1952, P. 24

1. A.N. NESMEYANOV, R. K. FREYDLINA, O. V. NOGINA

2. USSR (600)

4. Alcohols

7. Preparation of alkoxytitanium trichlorides from titanium tetrachloride and alcohols. Izv. AN SSSR. Otd. khim, nauk no. 6. 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

NESMEYANOV, A. N.

Science

Opening address, President of the Academy of Sciences of the U.S.S.R. Vest
AN SSSR 21 no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 195²~~6~~, Uncl.

NESMEIANOV, A. N.

Scientific Societies

Introductory speech by the chairman of the Council for Coordination, Vest.
AN SSSR 22 No. 1, 1952

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

NESMEYANOV, A. N., Acad.

Science

Great power of creative cooperation, Vest. AN SSSR, 22, No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, OCTOBER 195~~3~~², Uncl.

НЕСМЕЯКОВ, А. Н.

USSR (600)

Natural History

Transformation of nature., Priroda, 41, no.1, 1952

9. Monthly List of Russian Accessions, Library of Congress, May 1954, 2 Unclassified.

NESMEYANOV, A. N.

USSR/Chemistry - Radioactive Isotopes Mar 52 |

"Tracer Atoms," A. N. Nesmeyanov

"Priroda" Vol 41, No 3, pp 28-40

Nesmeyanov gives a general and rather elementary review of the subject, without differentiating too precisely between USSR and foreign work.

23073

NES EYANOV, A.N.

Science

Science for the people. Priroda 41 no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 1952 ~~1953~~, Uncl.

NESMEYANOV, A.N.; KOCHETKOV, N.K.; KARPEYSKIY, M. Ya.; ALEKSANDROVA, G.V.

Diene synthesis with 2-chlorovinyl ketones. Condensation with cyclopentadiene. Doklady Akad. Nauk S.S.S.R. 82, 409-12 '52. (MLBA 5:3) (CA 47 no.14:6876 '53)

I. M.V.Lomonosov State Univ., Moscow.

NESMEYANOV, A.N.; BRAYNINA, E.M.; FREYDLINA, R.Kh.

Hydrolysis and polycondensation of ethyl orthotitanate. Doklady
Akad. Nauk S.S.S.R. 85, 571-3 '52. (MLBA 5:8)
(CA 47 no.15:7433 '53)

NESMEYANOV, A. N.

PA 245T10

USSR/Chemistry - Organometallic Compounds 21 Nov 52

"Synthesis of Aromatic Thallium Compounds by the Way of Diazo Compounds," Acad. A. N. Nesmeyanov and L. G. Makarova, Inst of Organic Chem, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol 87, No 3, pp 417-420

Organothallium compounds can be prepared by reacting arylidiazonborofluorides with thallium sodium alloys or powdered metallic thallium in acetone. Using this method, the following

245T10

thallium diaryl chlorides were obtained in low yields (10-20% of theoretical): diphenyl, diparatolyl, diorthoethyl, diparachlorophenyl, diparamethoxyphenyl, diorthomethoxyphenyl, diparacethoxyphenyl, and diparacarbethoxyphenyl.

True translation in / M

245T10

PA 245T11

NESMEYANOV, A. N.

21 Nov 52

USSR/Chemistry - Organometallic Compounds

"Synthesis of Aromatic Tin Compounds by Means of Aryldiazonium Borofluorides," Acad A. N. Nesmeyanov and L. G. Makarova, Inst of Organic Chem, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol 87, No 3, PP 421-422

Organo-tin compounds are obtained in yields up to 40% by the interaction of aryldiazonium borofluorides with tin chloride and zinc dust in acetone. The main product is diaryltin dichloride, but some triaryl and monoaryl chlorides are also obtained. The method

245T11

gives good results with simple aromatic radicals such as phenyl, its homologs, and halogen substituted products. Other radicals require special conditions which will have to be worked out.

MIH translation - M.

(CN 48no. 2:623 '54)

245T11

USSR/Chemistry Synthesis

Card : 1/1

Authors : Nesmayanov, A. N., Reutov, O. A., and Knol', P. G.

Title : ~~Synthesis~~ of arylstibine acids from binary diazonium salts of antimony pentachloride

Periodical : Izv. AN SSSR, Otd. Khim. Nauk., 3, 410 - 417, May - June 1954

Abstract : The formation of arylstibine acids, resulting from the decomposition of binary diazonium salts of antimony pentachloride with cuprous chloride in a medium of organic solvents, was investigated. The homolytical, but not a free-radical nature of the reaction leading to the formation of arylstybine acids, was established by the nature of the secondary reaction products. The three stages bringing about the formation of arylstibine acid are described. Nine references: 6 USSR, 2 German, 1 USA. Tables.

Institution : The M. V. Lomonosov State University, Moscow

Submitted : July 1, 1953

USSR/ Chemistry Organic chemistry

Card : 1/1 Pub. 40 - 4/27

Authors : Nesmeyanov, A. N., Zakharkin, L. I., Kost, V. N., and Freydina, R. Kh.

Title : Allyl regrouping in polychlorobutenic acids and about certain errors made by Auwers and Wissebach in their work regarding allyl regrouping

Periodical : Izv. AN SSSR, Otd. khim. nauk 4, 604 - 609, July - August 1954

Abstract : The relation of $\text{CHCl}_2 - \text{CH} = \text{CH} - \text{CO}_2\text{H}$ and $\text{CCl}_2 = \text{CH} - \text{CH}_2\text{CO}_2\text{H}$ acids and the corresponding relation of their derivatives to prototropic allyl regrouping, was investigated. The errors made by two German chemists, K. A. Auwers and H. Wissebach, in two-stage reduction of gamma,gamma,gammatrichlorocrotonic acid into plain crotonic acid through double isomerization, are pointed out. Seven references: 3 USSR; 2 USA and 2 German (1923 - 1954).

Institution : Acad. of Sc. USSR, Institute of Organic Chemistry

Submitted : August 23, 1953

USSR/Chemistry Synthesis

Card : 1/1 Pub. No - 5/27

Authors : Anisimov, K. N., and Nesmeyanov, A. N.

Title : Investigation of phosphinic acid derivatives. Part 1.- Synthesis of beta-alkoxy (phenoxy)-phosphinic acid chlorides

Periodical : Izv. AN SSSR. Otd. khim. nauk 4, 610 - 613, July - August 1954

Abstract : The addition of phosphorpentachloride to alkyl(aryl)vinyl ethers and the chemical properties of the addition products obtained, were investigated. A simple and convenient method for the synthesis of dichloroanhydrides of beta-alkoxy(phenoxy)-vinylphosphinic acids, is described. The effect of carboxylic acids and water on the yield of addition products, is explained. Nine references: 2 USSR; 4 USA and 3 German (1876 - 1948). Table.

Institution : Acad. of Sc. USSR, Institute of Organic Chemistry

Submitted : August 23, 1953

NESMEYANOV, A. N.

USSR/Chemistry Physical Chemistry

Card : 1/1

Authors : Nesmeyanov, A. N., Kochetkov, N. K., and Rybinskaya, M. I.

Title : Regrouping of beta-phenoxyvinyl ketones

Periodical : Izv. AN SSSR, Otd. Khim. Nauk., 3, 418 - 426, May - June 1954

Abstract : The factors leading to the regrouping of the beta-phenoxyvinyl ketones, connected with the displacement of the keto-vinyl group into ortho- and para-positions are explained. The products

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001136620

Eight references: 3 USSR, 3 German, 2 USA.

Institution : The M. V. Lomonosov State University, Moscow

Submitted : July 8, 1953

NESMEYANOV, A. N., President, Acad. of Sci. USSR

"Freedom of Scientific Creation," mentioned in 17 Dec 53 Pravda. The article appeared in Issue 24 of bi-weekly magazine News.

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001136620

NESEMYANOV, A.N., akademik, redaktor; TOPCHIN, A.V., akademik,
redaktor; TRAKOVA, O.V., redaktor; LIKHTEKHTSYN, YE.S., redaktor.

[Nikolai Nikolaevich Kachalov] Nikolai Nikolaevich Kachalov.
Vstup. stat'ia V.P. Barsakovskogo. Bibliografiia sostavlena
R.V. Belovoi. [Glav. redaktor A.N. Nesmeianov] Moskva, 1953. 42 p.
(Materialy k biobibliografii uchenykh SSSR. Seriya khimicheskikh
nauk, vyp. 18) (MLA 7:8)

1. Akademiya nauk SSSR.
(Kachalov, Nikolai Nikolaevich, 1883-)

NE SMRYANOV, A.N.

SOBOL', S.L.; SMIRNOV, G.D.; ISAKOVA, O.V.; NE SMRYANOV, A.N., akademik,
redaktor; TOPCHIEV, A.V., akademik, redaktor.

[Khachatur Sedrakovich Koshtoiants] Vstup.stat'ia S.L.Sobolia i
G.D.Smirnova. Bibliografiia sostavlena O.V.Isakovo. Moskva, 1953.
59 p. (Materialy k biobibliografii uchennykh SSSR. Seria biologicheskikh
nauk: Fiziologiya, vyp.5) (MLRA 7:3)

1. Akademiya nauk SSSR.

(Bibliography--Koshtoiants, Khachatur Sedrakovich, 1900-)
(Koshtoiants, Khachatur Sedrakovich, 1900- --Bibliography)

NESMEYANOV, A. N.

Markierte Atome. Berlin, Aufbau, 1953.

77 p. Illus., Diagr., Tables.

Translation from the Russian, "Mechenyye Atomy".

N/5

613.8

.N4

GLUSHCHENKO, I.Ye.; YEPIFANOVA, A.P.; NESMEYANOV, A.N., akademik,
redaktor; TOPCHILYEV, A.N., akademik, redaktor.

Trofim Denisovich Lysenko. Moskva, 1953. 128 p. (MIRA 7:2)

1. Akademiya nauk SSSR.

(Lysenko, Trofim Denisovich, 1898-)

(Bibliography--Lysenko, Trofim Denisovich, 1898-)

(Lysenko, Trofim Denisovich, 1898- --Bibliography)

NE SMELYANDU, A. N.

055K.

1954, No. 8

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Apparatus, Plant Equipment,
and Unit Operations

In memory of academician ~~Viktor Dmitriyevich Zelinskiy~~
~~A. M. Kuznetsov, A. V. Troshin, B. A. Kazanskiy, and~~
~~M. I. Gurevich.~~ *Izvest. Akad. Nauk S.S.S.R., Otdel. Khim.*
Numb 1953, 765-74.—Obituary (1881-1953) with portrait
G. M. Kosolapoff.

NO STREY ANDG, HIN

NESMEYANOV, A. N.

"Achieve First Place in World Science," (leading article, Elektrichestvo, No 1, pp 3-6, Jan 53.

Discusses official Soviet edicts on need for USSR to achieve first place in world science and ways to attain this goal. Mentions A.N. Nesmeyanov's remarks to effect that: (a) ties between academic and industrial insts are not close enough; (b) co-operative work in applying ideas and achievements of Soviet scientists is often accidental and not free of elements of secret rivalry, which are harmful to Soviet society.

253T113

NESMEYANOV, A.N., akademik; TOPCHIYEV, A.V., akademik.

Telegram of the Presidium of the Academy of Sciences of the U.S.S.R. to the Czechoslovak Academy of Sciences expressing condolence on the death of Klement Gottwald, President of the Czechoslovak Republic. Chekh.biol. 2 no.1:4 Ap '53. (MIRA 7:2)

1. Prezident Akademii nauk SSSR (for Neameyanov). 2. Glavnyy uchenyy sekretar' Prezidiuma Akademii nauk SSSR (for Topchiyev). (Gottwald, Klement, 1896-1953)

NESMEYANOV, A.N.; GIPP, N.K.; MAKAROVA, L.G.; MOZGOVA, K.K.

Use of the salt $(C_6H_5N_2Cl)_2 \cdot SbCl_3$ in the double diazonium salt method.
Izv. AN SSSR. Otd. Khim. nauk. no. 2:298-302 Mr-Apr '53. (MLRA 6:5)

1. Institut organicheskoy khimii Akademii nauk SSSR. (Salts, Double)

NIH trans. in M.

NESMEYANOV, A.N.; KOCHENKOV, N.K.; RYBENSKAYA, M.I.

Synthesis of 2-alkyl naphtho- and 2-alkyl benzopyrylium salts on the basis
of β -chlorovinyl ketones. Izv. AN SSSR Otd.khim.nauk no.3:479-483 Ky-Je '53.
(MLBA 6:8)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
(Benzopyrylium compounds)

MESMEYANOV, A.V.

MESMEYANOV, A.M., akademik; TOPCHIIYEV, A.V., akademik.

~~XXXXXXXXXXXX~~
Telegram of condolence sent by the President's Council of the Academy of Sciences of the U.S.S.R. to the Czechoslovak Academy of Sciences on the death of the President of the Czechoslovak Republic Klement Gottwald [in Russian and English]. *Chek.h.fiz.stur.* 3 no.1:4,8 Nr '53. (MIRA 7:6)

1. President of the Academy of Sciences of the USSR (for Mesmeyanov).
2. Chief Scientific Secretary of the President's Council of the Academy of Sciences of the USSR (for Topchiyev).
(Gottwald, Klement, 1896-1953)

1. NESMEYANOV, Acad. A.
2. USSR (600)
4. Science and State
7. In Stalin's footsteps. Tekh. molod. No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

NESMEYANOV, A.N., akademik; TOPCHIYEV, A.V., akademik.

Resolution of the Presidium of the Academy of Sciences of the U.S.S.R.
on the 300th anniversary of the reunion of the Ukraine with Russia.
Sov. etn. no. 4:125-127 '53. (MLRA 6:12)

1. Prezident Akademii nauk SSSR (for Nesmeyanov).
2. Glavnyy uchenyy sekretar' Prezidiuma Akademii nauk SSSR (for Topchiyev).
(Academy of Sciences of the U.S.S.R.) (Ukraine--History)