VARTANYAN, S.A.; CHUKHADZHYAN, G.A.

Chemistry of vinylacetylene. Report Mo.19: Condensation of vinylacetylenic hydrocarbons with ketones in the presence of sodium hydroxide powder. Izv.AN Arm. SSR. Khim. nauki 12 no.6:413-416 59. (MIRA 13:7)

1. Institut organicheskoy khimii AN ArmSSR.
(Hydrocarbons) (Ketones) (Condensation products)

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8

VARTANYAN, S.A.

Activity of alkoxy and acylexy groups located in various positions

in relation to the carbonyl group, and their reactions. Trudy Inst.khim.AN Azerb.SSR 17:154-163 '59. (MIRA 13:4)

1. Institut khimii AH ArmSSR.
(Alkoxy groups)

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8

SOV/79-29-2-21/71

AUTHORS: Matsoyan, S. G., Chukhadzhyan, G. A., Vartanyan, S. A.

TITLE: Chemistry of Vinyl Acetylene (Khimiya vinilatsetilena). XI. On

the Mechanism and the Direction of the Hydration of Vinyl Ethynyl Carbinol Ether (XI. O mekhanizme i napravlennosti

gidratatsii efirov viniletinilkarbinolov)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 451-457 (USSR)

ABSTRACT: In follow-up to an earlier paper by Nazarov and Matsoyan, the

authors continued the hydration of vinyl ethynyl carbinol ether in acetic acid solutions with a view to clarifying the affiliation arrangements of the water elements to the triple bond. It was found that the ethers of vinyl ethynyl carbinols, unlike their esters, are smoothly transformed into β -keto derivatives in elechal colutions in the arrangement.

in alcohol solutions in the presence of HgSO_A. Thus, for example, on heating the methyl ethers of vinyl ethynyl carbinol (I), methyl vinyl ethynyl carbinol (II) and dimethyl vinyl ethynyl carbinol (III) with 90% methanol in the presence of HgSO_A, the

corresponding β -methoxy ketones (IV)-(VI) are formed according

Card 1/3 to the scheme

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SOV/79-29-2-21/71

Chemistry of Vinyl Acetylene. XI. On the Mechanism and the Direction of the Hydration of Vinyl Ethynyl Carbinol Ether

It was thus shown that on the hydration of the vinyl ethynyl carbinol ethers under above conditions the affiliation of water to the triple bond takes place in the direction of the formation of β -keto derivatives. Hydration of both acetate and ether of methyl ethyl carbinol under above conditions was found to proceed in one direction with the formation of the β -keto derivative. It was shown that the acetate of vinyl ethynyl carbinol,

Card 2/3

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SOV/79-29-2-21/71

Chemistry of Vinyl Acetylene. XI. On the Mechanism and the Direction of the Hydration of Vinyl Ethynyl Carbinol Ether.

like the other acetates of the secondary and tertiary vinyl ethynyl carbinols is hydrated in the direction to the α-keto derivatives. It is attempted to make the above hydration direction of the ethers of vinyl ethynyl and methyl ethynyl carbinols dependent on the electrophilic affiliation arrangement of the sulfuric acid mercury (of the water elements) to the triple bend. There are 17 references 15 of which are Soviet.

ASSOCIATION:

Khimicheskiy institut Akademii nauk Armyanskoy SSR (Chemical Institute of the Asademy of Sciences, Armyanskaya SSR)

SUBMITTED:

December 7, 1957

Card 3/3

sov/79-29-3-9/61 Nazarov, I. N. (Deceased), Matsoyan, S. G., Vartanyan, S. A. 5 (3) Synthesis and Transformations of Vinyl-a-Keto Alcohols AUTHORS: (Sintez i prevrashcheniya vinil-a-ketospirtov) TITLE: Zhurnal obshchey khimii, 1959, Vol 29, Nr 3, pp 778-783 (USSR) Unsaturated α -keto alcohols are highly active owing to their PERIODICAL: functional groups and a double bond. In the work under review the authors carried out the synthesis of the vinyl- α -keto al-ABSTRACT: cohols for the purpose of further investigating the properties and transformations of the unsaturated a-keto alcohols (Ref 1). The synthesis of the unsaturated α -keto alcohols with a nonsubstituted vinyl group was carried out according to the following scheme; proceeding from the tertiary acetyl carbinols:

R c - coch methylation, R c - coch chylation, R c - coch chylation, R c - coch chylation, CH₃ cleavage, CH₃

Card 1/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8"

SOV/79-29-3-9/61

Synthesis and Transformations of Vinyl- α -Keto Alcohols

where (I) $R=R^{+}=CH_{\chi}$

 $R=R'=CH_{\chi}$ (IV)

(II) $R=CH_3$, $\hat{R}^{\dagger}=C_2H_5$

R=CH3, R'=C2H5

(III) $R_1R_1=(CH_2)_5$

 $R,R^{\dagger}=(CH_2)_5$ •

The reaction according to Mannich with the tertiary acatyl carbinols proceeded in the normal way and resulted in a yield of 70% of β -amino- α -keto alcohols, thus, for example, the compounds (I), (II) and (III) were obtained, which readily passed to the ester. Such esters may be of pharmacological importance and may serve as sources for the synthesis of physiologically active products. At 140-200 the iodine ethylates or hydrochlorides of the amino keto alcohols (I), (II) and (III) are transformed in vacuum into the corresponding vinyl- α -keto alcohols (IV), (V) and (VI). These are colorless, strong smelling, lacrimatory liquids. Unlike α -keto alcohols with a substituted vinyl group, they polymerize already at room temperature into a gelatin and then pass over to a glassy mass. On hydrogenating over a Pt-catalyst, vinyl keto alcohols absorb one mol hydrogen and form the corresponding saturated c-keto alcohols (VII), (VIII) and (IX). They affiliate water, alcohols and amines under formation of

Card 2/3

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8

sov/79-29-3-9/61

Synthesis and Transformations of Vinyl-a-Keto Alcohols

 β -functional-substituted α -oxyketones; thus, for example, compound (IV) passes over to keto diol (X), (V) and (VI) into (XI) and (XII). Ketone (XIII) forms in the acetylation of (IV) where α is a solution of (IV) wh of (IV). There are 3 references, 2 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk Armyanskoy SSR

(Institute of Organic Chemistry of the Academy of Sciences,

Armyanskaya SSR)

January 27, 1958 SUBMITTED:

Card 3/3

CIA-RDP86-00513R001858710012-8" APPROVED FOR RELEASE: 08/31/2001

87227

2109,2205

s/171/60/013/001/002/005

E142/E465

15.8220

Vartanyan, S.A., Musakhanyan, G.A., Shagbatyan, Sh.L.

AUTHORS: and Ordyan, M.B.

The Synthesis of New Plasticizers Based on TITLE:

1,3-Dichloro-2-butene

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR, Khimicheskiye

nauki, 1960, Vol.13, No.1, pp.31-35

The dichloro-crotyl ester was prepared by direct synthesis from 1,3-dichloro-2-butene by heating the starting material with the sodium salt of phthalic acid in the presence of a catalyst (pyridine). A mixture of stereoisomers of di-Y-chloro-crotyl phthalates is formed (yield = 70%). The crystalline form (m.p. = 43°C) is separated, in its pure form, by crystallizing the same from benzene, the liquid isomer (b.p. = 186 to 188°C at 2 mm, 20 = 1.5355) is obtained from the mother liquor by vacuum Earlier investigations have shown that 1,3-dichloro-2-butene and compounds containing the chlorocrotyl Experimental results residue, exist in two steroisomeric forms. indicate that the crystalline as well as the liquid isomers can be used as plasticizers instead of the widely utilized dibutyl Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8"

87227

5/171/60/013/001/002/005 E142/E465

The Synthesis of New Plasticizers Based on 1,3-Dichloro-2-butene

phthalate. Results of tests, carried out on polyvinyl chloride, when using the above described plasticizer, are given in a table. Mixed esters of phthalic acid were also prepared by heating phthalic anhydride with butyl, hexyl, heptyl and octyl alcohol and subsequent addition of \(\gamma \)-chlorocrotyl alcohol and toluene sulphonic acid as catalyst. The freezing points of the individual plasticizers are of especial importance during the preparation of frost-resistant synthetic materials; it should be noted that the synthesized \(\gamma \)-chlorocrotyl ester of salicylic acid has a freezing point of -32°C. Details of the preparation and analytical data of the composition of the prepared esters are given. There are 2 tables and 3 Soviet references.

ASSOCIATION: Institut organicheskoy khimii AN ArmSSR

(Institute of Organic Chemistry, AN ArmSSR)

SUBMITTED: August 7, 1959

Card 2/2

5/171-x/60/013/002-3/003/005 E142/E435

Vartanyan, S.A. and Badanyan, Sh.O.

The Chemistry of Vinyl Acetylene. | Part XX. AUTHORS: TITLE:

Addition of Amines and Ammonia to Vinyl Acetylene Tetrahydro-4-Pyranol and Tetrahydro-4-Thiopyranol

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR,

Khimicheskiy nauki, 1960, Vol.13, No.2-3, pp.133-140

The addition of amines to vinyl acetylene alcohols containing tetrahydro-thiopyran- and tetrahydro pyran rings is described. Amino acetylene tetrahydro pyranols and -thiopyranols are active vulcanizing agents and valuable starting materials for TEXT 8 the synthesis of various physiologically-active substances. vinyl acetylene alcohols were prepared by the method described by I.N. Nazarov, A.I. Kuznetsova and A.I. Gurevich (Ref. 2). amines and the 4-vinyl ethynyl-4-tetrahydro-thiopyranols were heated with a 25% aqueous mixture of dimethylamine and vinyl acetylene tetrahydro pyranols in a closed metal bomb over a water bath for 30 to 35 hours; 4-(4'-dimethylamino-2'-butynyl)-The vinyl acetylene tetrahydro-4-thiopyranols were formed. tetrahydro-4-pyranols were prepared by an analogous process. Card 1/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8" S/171-x/60/013/002-3/003/005 E142/E435

The Chemistry of Vinyl Acetylene. Part XX. Addition of Amines and Ammonia to Vinyl Acetylene Tetrahydro-4-Pyranol and Tetrahydro-4-Thiopyranol

The vinyl acetylene pyranols were obtained by condensing the vinyl acetylene with tetrahydro-4-pyrans; the latter were synthesized by hydrating the corresponding vinyl acetylene alcohols in a 7% H₂SO₄ medium in the presence of mercuric sulphate. aqueous solutions of methyl and ethyl amines and also of dimethyl amine and piperidine are heated with the above-mentioned 4-divinyl ethynyl tetrahydro-4-pyranols, the corresponding aminoacetylene pyranols are formed. The synthesized amino acetylene tetrahydro-4-pyranols and -thiopyranols are converted in an ethyl alcohol medium, in the presence of a platinum catalyst, into the corresponding saturated compounds. Hydrogenation of 4-(1'-amino-2'-butyny1)-2, 2-dimethyl tetrahydro-4-pyranol leads to the decomposition of this amine and 4-buty1-2,2-dimethyltetrahydro-4-pyranol is formed. Difficulties experienced during the hydrogenation of thiopyranols were obviously due to the poisoning of the catalyst. The preparation of the various compounds is described in detail and physical and analytical data Card 2/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8"

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The Chemistry of Vinyl Acetylene. Part XX. Addition of Amines and Ammonia to Vinyl Acetylene Tetrahydro-4-Pyranol and Tetrahydro-4-Thiopyranol

are given. There are 1 table and 6 Soviet references.

ASSOCIATION: Institut organicheskoy khimii AN ArmSSR

(Institute of Organic Chemistry, AS ArmSSR)

SUBMITTED: December 21, 1959

Card 3/3

VARTANYAN, S.A.; BADANYAN, Sh.O.

Chemistry of vinylacetylene. Report No. 21: Synthesis and conversions of vinylacetylenic amines. Izv. AH Arm. SSR Khim. nauki 13 no.2/3:141-145 160. (MIRA 13:10)

1. Institut organicheskoy khimii AM ArmSSR.
(Butenyne) (Amines)

VARTANYAN, S.A.; TOSUNYAN, A.O.; MESROFYAN, L.O.

Chemistry of vinylacetylene. Report No. 22: Addition of Adichloroethyl ether to 2-chloro-1,3-butadiene, and conversions of the trichlorides thus produced. Izv. AN Arm. SSR Khim. nauki 13 no.2/3:147-154. '60.

(MIRA 13:10)

1. Institut organichsskoy khimii AN ArmSSR.

(Ether) (Butadiene)

87236

S/171/60/013/004/003/004 E142/E265

15.8102

Vartanyan, S. A., Vardapetyan, S. K. and Badanyan, Sh. O.

AUTHORS:

The Chemistry of Vinylacetylene. Part 23: Synthesis of Vinylacetylene Phenols and their Methyl Esters TITLE:

Izvestiya Akademii nauk Armyanskoy SSR, Khimich-PERIODICAL:

eskiye nauki, 1960, Vol. 13, No. 4, pp. 251-258

The synthesis of the above mentioned compounds, containing alkyl, alicyclic and heterocyclic radicals, is They were prepared by condensing phenol and anisole with secondary vinylacetylene carbinols in the presence of phosphoric acid and heating the mixture for 40 to 50 hours to a temperature of 60 to 65°C. The formed vinylacetylene phenols absorbs(in the presence of a platinum catalyst and in an absolute ethanol medium) three molecules of hydrogen so that saturated p-alkylphenols are obtained. Divinylacetylene enters into a similar condensation reaction with phenol, under analogous conditions. 1-Vinylethynylcyclohexan-1-ol can also be condensed with phenol and anisole and 1-vinylethynyl-1-p-alkoxy or

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8"

87236 S/171/60/013/004/003/004 E142/E265

The Chemistry of Vinylacetylene. Part 23: Synthesis of Vinylacetylene Phenols and their Methyl Esters

oxyphenylcyclohexane are formed; these are hydrogenated to the saturated alicyclic phenol or its methyl ester, respectively. The structure of the vinylacetylene phenols was proved by oxidation of the 1-p-methoxyphenyl-1-vinylethynyl cyclohexane. The alkylation of phenol and anisole with 4-vinylethynyltetra-hydro-4-pyranols proceeds in an analogous manner. Physical data, percentage composition and analytical details of the synthesised compounds are given and also set out in a 2-page table. There are 1 table and 7 references; 6 Soviet and 1 non-Soviet.

ASSOCIATION:

Institut organicheskoy khimii AN ArmSSR

(Institute for Organic Chemistry, AS ArmSSR)

SUBMITTED:

May 28, 1960

Card 2/2

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8

VARTANYAN, S.A.; MUSAKHANYAN, G.A.; OGANOVA, L.V.

Chemistry of allyl chlorides. Report No.1: Synthesis of 1-nitrilo-5-alkoxy-2-pentenes. Izv. AN Arm.SSR. Khin. nauki 13 no. 5:347-350 (MIRA 14:2)

1. Institut organicheskoy khimii AN ArmSSR. (Pentene)

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VARTANYAN, S.A.; SHAGBATYAN, Sh.L.

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C-alkylation by means of β -alkoxyketones. Izv.AN Arm.SSR.Khim. nauki 14 no.1:43-49 '61. (MIRA 15:5)

1. Institut organicheskoy khimii AN Armyanskoy SSR. (Ketones) (Alkylation)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8

VARTANYAN, S.A.; BADANYAN, Sh.O.

New possibility of synthesizing vinylacetylenic alcohols. Izv.
AN Arm. SSR. Khim.nauki 14 no.1179-80 '61. (MIRA 15:5)
(Alcohols)

S/081/62/000/017/045/102 B158/B186

AUTHORS:

Yartanyan, S. A., Vardapetyan, S. K., Badanyan, Sh. O.

TITLE:

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中国精明管理 3世代十二十二

The chemistry of vinylacetylene. Communication XXVI. Synthesis of aminoacetylene phenols and their esters

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 17, 1962, 184, abstract 17Zh118 (Izv. AN ArmSSR. Khim. n., v. 14, no. 3, 1961,

255-260 [summary in Arm.])

TEXT: It is established that amines combine with vinylacetylene phenols and their esters to form aminoacetylene phenols and their esters according to the scheme: n-ROC₆H₄CR'(CH₃)C=CCH=CH₂ [Ia-j; in all cases aR = H, R' = R" = R" = CH₃; bR=H, R'=C₂H₅, R"=R"=CH₃; cR=H, R'=CH₃, R"=H, R*=C₂H₅; dR=H, R'=CH₃, R"+R*=(CH₂)₅; eR=H, R'=C₂H₅, R"+R*=(CH₂)₅; fR=R'=R"=R"=CH₃; gR=R"=R"=CH₃, R'=C₂H₅; hR=C₂H₅, R'=R"=R"=CH₃; iR=C₃H₇, R'=R"=R*=CH₃; jR=C₄H₉, R'=R"=R*=CH₃] + HNR"R*(IIa-j) ---> n-ROC₆H₄CR (CH₃)CH₂C=CCH₂NR"R*(IIIa-j): IIIa-b, f-g are reduced to saturated aminophenols and their Card 1/3

O.

S/081/62/000/017/045/102
The chemistry of vinylacetylene... B158/B186

esters: IIIa-b, $f_{-g} + 2H_2 \rightarrow nROC_{6}H_4CR$ (CH_3)(CH_2) $_4NR^*R^*$ (IV-VII, IVR=H, $R'=R^*=CH_3$, $VR=H, R'=C_2H_5$, $R'=C_2H_5$, $R'=CH_3$; $VIR=R'=R^*=CH_3$; $VII R=R''=R''=CH_3$; $VII R=R''=R''=CH_3$, $R'=C_2H_5$). Aminoketone is obtained from IIIe by hydration: IIIe $\rightarrow n-CH_3OC_6H_4C(CH_3)_2CH_2CO(CH_2)_2N(CH_3)_2$ (VIII). I and an aqueous solution of II are heated for 60-65 hr at $\sim 100^{OC}$ in a sealed ampoule; excess II is removed at $\sim 45^{OC}$ in a weak vacuum (IIIe-j is salted out with K_2CO_3), the residue is extracted with ether, and III is is clated by distillation (the quantity of initial I in g, II in g, reaction time in hours, the IIIa-j obtained, yield %, b.p. in OC_2 , and OC_3 are given): 50, 200, 60, a, 62, 145-146/3, 1.5426, 0.9836; 25, 150, 65, b, 50, 147/2.5, 1.5470, 0.9925 (picrate, m.p. 124-125^{OC}); 10, 33, 50, c, 15, 193/2, -, -; 10, 35, 46, d, 15, 195/3, -, -; 20, 180, 80, e, 25, 160-162/4, 1.5465, 0.9836; 30, 180, 60 f, 50, 153-154/5, 1.5258, 0.9655; 10, 120, 70, g, 30, 152/3, 1.5344, 0.9785 (picrate, m.p. 93-95^{OC}); 20, 180, 70, h, 25, 145-146/5, 1.5292, 0.9725; 20, 180, 75, i, 35, 150-151/3, 1.5150, 0.9480; 17, 170, 75, j, 35, 178-180/6, 1.5380, 0.9725. IIIa-b, f-h are hydrated in Card 2/3

The chemistry of vinylacetylene ...

8/081/62/000/017/045/102 B158/B186

an alcohol solution in the presence of Pt. The quantity of the corresponding initial IIIa-b, f-h is given in g, as well as the amount of H_2 in litres, reaction time in hours, the IV-VII obtained, yield %, b.p. in ${}^{\circ}C/mm$, ${}^{\circ}D$, ${}^{\circ}d_4$, m.p. of picrate in ${}^{\circ}C$: 3.5, 0.64, 15, IV, 78, 145-146/3.5, 1.5095, 0.9529, -; 2.5, 0.49, 22, V, 88, 147-150/5, 1.5079, 0.9332, 181-182; 1.5, 0.28, 26, VI, 79, 145/2, 1.5108, 0.9505, 118; 2, 0.41, 28, VII, 80, 0, m.p. 95-97°C, 0, 0; -. For hydration with 70 ml 10% H_2 SO₄, 2 g H_2 SO₄ and 5 g of IIIf are mixed for 8 hr at 60-65°C, salted out with K_2 CO₃, extracted with ether, dried with MgSO₄, and VIII is obtained with a m.p. of 163-164°C/5 mm, n_D^{20} 1.5172, n_D^{20} 1.0016; the semicarbazone is liquid. For Communication XXV, see RZhKh:, 1962, 13Zh56, [Abstracter's note: Complete translation.]

Card 3/3

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8

VARTANYAN, S.A.; MUSAKHANYAN, G.A.; OGANOVA, L.V.

Chemistry of allyl chlorides. Report No.3: Synthesis of alkoxy acids and their esters. Izv.AN Arm.SSR.Khim.nauki 14 no.4:337-342 '61. (MIRA 14:10)

1. Institut organicheskoy khimii AN Armyanskoy SSR. (Allyl compounds)

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8

CHUKHADZHYAN, G.A.; MELIKYAN, R.A.; BABAYAN, Sh.A.; VARTANYAN, S.A.

Condensation of formaldehyde with acatylene. Synthesis of 2-butyne-1,4-diol. Izv. AN Arm.SSR. Khim.nauki 14 no.5:445-449 '61. (MIRA 15:1)

l. TSentral'naya zavodskaya laboratoriya zavoda imeni S.M. Kirova i Institut organicheskoy khimii AN Armyanskoy SSR. (Butynediol)

VARTANYAN, S.A.; BADANYAN, Sh.O.

Chemistry of vinylacetylene. Report No.27: Hydration of vinylacetylenic phenols and their ethers. Izv. AN Arm.SSR. Khim.nauki 14 no.5:477-485 '61. (MIRA 15:1)

1. Institut organicheskoy khimii AN Armyanskoy SSR. (Phenol) (Hydration)

VARTANYAN, S.A.; TOSUNYAN, A.O.; MOSBOPYAE, L.G.

Chemistry of allyl chlorides. Report Lo.4: Cyancethylation of 1 alkoxy.3-alkane.5 of and conversions of alkoxynitriles obtained. Ist. AN Arm.SSR. Khim.nauki 14 no.5:469-475 (61. (MIRA 15:1)

1. Institut organicheskoy khimii AN Armyanskoy SSR. (Alcohols)
(Cyanoethylation)

8/081/62/000/017/046/102 B158/B186

AUTHORS:

Vartanyan, S. A., Badanyan, Sh. O.

TITLE:

The chemistry of vinylacetylene. Communication XXVII. Hydration of vinylacetylene phenols and their esters

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 17, 1962, 184-185, abstract 17Zh119 (Izv. AN ArmSSR, Khim. n., v. 14, no. 5,

1961, 477-485 [summary in Arm.])

TEXT: The hydration of vinylacetylene phenols and their esters was studied. When $ROC_6H_4C(CH_3)_2C$ CCH=CH₂ (Ia-h; here and after a R = H, $b R = CH_3$, $c R = C_2H_5$, $d R = C_3H_7$, $e R = iso-C_3H_7$, $f R = C_4H_9$, $g R = iso-C_4H_9$ h R = $iso-C_5H_{11}$) is heated in an aqueous or water-methanol solution in the presence of H2SO4 and HgSO4, ROC6H4C(CH3)2COCH=CHCH3 (IIa-h) is formed; hydration may also proceed without the addition of H2SO4, but is then considerably slower. The structure of II obtained is confirmed by ozonization, oxidation and hydrogenation of II. With prolonged hydration Card 1/6

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CIA-RDP86-00513R001858710012-8

The chemistry of vinylacetylene...

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in the presence of H₂SO₄ and HgSO₄ in CH₃OH, the lastnamed is combined with the II formed by a double bond, giving ROC₆H₄C(CH₃)₂-COCH₂CH(OCH₃)CH₃(IIIa-h); increase in R facilitates the combination of CH₃OH with II. For example, in the case of hydration of If-h, the only reaction products are IIIf-h. When III is heated in the presence of a catalytic quantity of n-CH₃C₆H₄SO₃H, the CH₃OH is separated and II is formed. A mixture of 20 g Ia (see I. N. Nazarov, A. I. Kuznetsova, Izv. AN SSSR. Otd. khim. n., 1941, 431; 1942, 392), 150 ml 90% CH₃OH, some drops of H₂SO₄ and 4 g HgSO₄ is heated and mixed for 3 hours at 60°C, the CH₃OH removed, extracted with ether, dried with MgSO₄, the ether driven off, and the product distilled in vacuum; 18.5 g IIa is obtained, b.p. 173°C/5 mm, m.p. 56-57°C, n_D^{2O} 1.5498. Without H₂SO₄ addition, the reaction described above lasts 18-20 hours to give the same yield of IIa. IIa is also obtained by heating 20 g Ia, 150 ml 5% H₂SO₄

Card 2/6

S/081/62/000/017/046/102 B158/B186

The chemistry of vinylacetylene...

Card 3/6

and 2 g HgSO $_4$ for 3 hours at 50-55°C with further processing as described above, giving a yield of 19 g. Similarly, IIb-h is obtained by heating 20-25 g Ib-h (RZhKhim, 1961, 24Zh70) for 5-6 hours at 60-65°C and mixing with 150-200 ml 90% CH₃OH and 3-4 g HgSO $_4$. (The II is given, as well as the yield %, b.p. in $^{\circ}$ C/mm, $^{\circ}$ C/m, $^{\circ}$ C/d and m.p. in $^{\circ}$ C of dinitrophenylhydrazone (DNPH): b, 87, 144/5, 1.5298, 1.0207, 137-132; c, 80, 151-152/7, 1.5262, 0.9957, 95; d, 86, 153/4, 1.5165, 0.9951, 133; e. 84, 155.5, 1.5140, 0.9956, 117; f, 79, 161/3, 1.5216, 0.9954, 86-87; g, 80, 159-160/4, 1.5198, 0.9948, -; h, 75, 167/3, 1.5110, 0.9952, does not crystallize. The yield of reaction products is lower without CH₃OH. II was obtained by extending the reaction described above to 15-20 hours at a temperature of 60-65°C and adding 4-5 ml H₂SO $_4$ to the reaction mass (the II is enumerated as above): b, 51, 155-156/2-3, 1.5083, 0.9998, 126-127; c, 50, 153/1, 1.5020, 0.9976, 103; d, 67, 163-165/2, 1.5042, 0.9970, 101; e, 64, 151-162/3, 1.5061, 0.9972, 122-123; f, 70, 182-183/4, 1.5048, 0.9963, does not crystallize; g, 75, 180-181/6, 1.5060, 0.9970, 127; h, 73, 189/6, 1.5055,

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8"

The chemistry of vinylacetylene...

S/081/62/000/017/046/102 B158/B186

0.9958, does not crystallize. Heating (100-120°C, 15-20 min, weak vacuum) 10 g III with \sim 0.1 g n-CH₃C₆H₄SO₃H gives an 80-90% yield of II; the constants agreed with those of II obtained by hydrating I. The structure of II was confirmed by synthesizing IIc and IId from IIa. 10 g IIa, 3 g NaOH, 5-10 g of the corresponding alkyl halid and 80 ml water are heated for 10-15 hours, extracted with ether, washed with water, dried with ${
m MgSO}_A$, the ether drives off, and the product distilled in vacuum; the yield is 80%; the products are identical with the IIc and IId obtained by hydrating Ic and Id. Ozonized oxygen $(5\% O_3)$ is passed through a solution of 45 g IIb in 30 ml anhydrous CHCl3 for 3.5 hours; this is stood for \sim 12 hours, 30 ml 5 % $\rm H_2O_2$ is added, heated and mixed for 5 hours at 50°C neutralized with a solution of 10 g Na2CO3, extracted three times with ether, dried with MgSO₄ and distilled in vacuum; 0.18 g n-CH₃OC₆H₄C(CH₃)₂COH (IV), DNPH (m.p. 173° C (from alcohol)), and 1 g IIb, b.p. 145° C/1 mm, n_{D}^{20} 1.5075, are obtained. The residual aqueous solution is evaporated to Card 4/6

S/L81/62/000/017/046/102 B158/B186

The chemistry of vinylacetylene...

Card 5/6

dryness, acidified with conc. HCl, extracted with ether, dried with MgSO₄, the ether driven off, and crystals of n-CH₃OC₆H₄C(CH₃)₂COOH (V) are isolated - yield 0.8 g, m.p. 88°C (from alcohol), mol. wt. 193. 18.5 g KMnO₄ (powder) is added to a mixture of 7.6 g IIb and 200 ml water and mixed thoroughly for 3 hours. The MnO₂ precipitate is filtered off, the mixture washed with hot water, the aqueous solutions extracted with ether, dried with MgSO₄, giving crystals of IV and DNPH, m.p. 173°C (from alcohol). The aqueous solution is processed as in the previous experiment; V, m.p. 88°C (from alcohol) is obtained. With the previous sample, it does not cause any drop in the melting point. 3 g IIa in 10 ml alcohol is hydrated in the presence of a small quantity of Pt catalyst, the alcohol driven off, the residue distilled in vacuum, and 2.7 g n-HOC₆H₄C(CH₃)₂COCH₂CH₂CH₃, C₁₃H₁₈O₂ obtained, b.p. 167°C/5 mm, n_D²⁰ 1.5245, d²⁰ 1.0363, and DNPH, m.p. 146-147°C (from alcohol). Similarly, hydration

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S/081/62/000/017/046/102

The chemistry of vinylacetylene...

of 3 g IIf gave 2.5 g n-C₄H₉OC₆H₄C(CH₃)₂COCH₂CH₂CH₃, C₁₇H₂₆O₂, b.p.

156-157°C/5 mm, n_D²⁰ 1.5030, d₄²⁰ 0.9863, and DNPH, m.p. 110°C (from alcohol).

[Abstracter's note: Complete translation.]

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8"

Chemistry of vinylacetylene,

S/171/61/014/006/005/005 E075/E136

was synthesized by condensing acetylene with 2,2-dimethyltetrahydropyran-4-on. The compound (I) reacted readily with ketones in the presence of powdered KOH without a solvent and gave carbinols of general formula

$$\begin{array}{c} CH_{3} \\ CH_{3} \\ \end{array} \qquad \begin{array}{c} -C \cong C - C \stackrel{R}{\sim} \\ OH \end{array} \qquad (II - XI)$$

Hydrogenation of the carbinols in which

in ethyl alcohol solution in the presence of Pt catalyst gave the corresponding unsaturated alcohols when the carbinols with

$$R = \bigcirc$$
, CH_3 and $R = CH_3$ were heated in

Card 2/3

Chemistry of vinylacetylene

S/171/61/014/006/005/005 E075/E136

CH30H solution in the presence of acidic mercuric sulphide. The resulting compounds were the expected unsaturated ketones, Hydration of carbinol IX in the solution of 10% H2SO4 in the presence of acidic mercuric sulphide gave compound XIX:

Heating of the unsaturated ketones with NH4OH gave 4-piperidones containing the tetrahydropyran ring. ASSOCIATION: Institut organicheskoy khimii AN ArmSSR There is 1 table. (Institute of Organic Chemistry, AS Arm.SSR)

SUBMITTED: July 15, 1961

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Card 3/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8" VARTANYAN, S.A.; TOSUNYAN, A.O.

Synthesis of ethers of some 1, 2- and 1, 5-glycols. Zhur.ob.khim.
31 no.5:1624-1628 My 161. (MIRA L4:5)

1. Institut organicheskoy khimii Akademii nauk Armyanskoy SSR. (Glycols)

VARTANYAN, S.A.; PIRENYAN, S.K.; MANASYAN, N.G.

Liquid phase hydration of acetylene with a copper catalyst.
Zhur.ob.khim. 31 no.7:2336-2337 Jl '61. (MIRA 14:7)

1. Institut organicheskoy khimii AN Armyanskoy SSR. (Acetylene)

VARTANYAN, S.A.; CHUKHADZHYAN, G.A.; MELIKYAN, R.A.; BABAYAN, Sh.A

Laboratory method of preparing primary-secondary and primary-tertiary acetylenic glycols. Izv.AN Arm.SSR.Khim.nauki 15 no.1:45-51 '62. (MIRA 15:7)

1. TSentral naya zavodskaya laboratoriya zavoda imeni S.M. Kirova i Institut organicheskoy khimii AN Armyanskoy SSR. (Glycols)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8"

。 1911年 - 1915年 - 191

VARTANYAN, S.A.; CHUKHADZHYAN, G.A.

Chemistry of vinylacetylene. Report No.29: Synthesis and conversions of dialkyl- 1/2 plopentenylethymylcarbinols. Izv.AN ArmSSR.Khim.nauki 15 no.1:53-61 62. (MIRA 15:7)

1. Institut organicheskoy khimii AN Armyanskoy SSR. (Butenyne) (Alcohols)

VARTANYAN, S.A.; GEVORKYAN, Sh.A.; DANGYAN, F.V.

Chemistry of allyl chlorides. Report No.5: Synthesis and conversions of 1-chloro-5-alkoxy-3-chloro(methyl)-2-alkenes. Izv.AN Arm.SSR.Khimnauki 15 no.1:63-71 162.

Institut organicheskoy khimii AN Armyanskoy SSR. (Olefins)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710012-8"

AND THE SELECTION OF T

VARTANYAN, S.A.; TOSUNYAN, A.O.

Vinylacetylene chemistry. Report No.33: Synthesis and transformations of 1-chloro-4-methoxymethyl-2,3-heptadiene and 1-chloro-5-methoxy-2,3-pentadiene. Izv.AN Arm.

SSR. Khim.nauki 15 no.4:337-345 '62. (MIRA 15:11)

1. Institut organicheskoy khimii AN Armyanskoy SSR.
(Butenyne) (Heptadiene) (Pentadiene)

VARTANYAN, S.A.; VARDAPETYAN, S.K.; BADANYAN, Sh.O.

- Vinylacetylene chemistry. Report No.34: Hydration of vinylacetylene compounds centaining a substituted benzene nucleus. Izv.AN Arm. SSR. Khim.nauki 15 no.4:347-352 (MIRA 15:11)
 - 1. Institut organicheskoy khimii AN Armyanskoy SSR.

 (Butenyne) (Hydration)

 (Benzene derivatives)

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VARTANYAN, S.A.; ZHAMAGORTSYAN, V.N.

Vinylacetylene chemistry. Report No.35: Some transformations of 2,2-dimethyl-4-ethynyltetrahydropyran-4-ol. Izv.AN Arm. SSR. Khim.nauki 15 no.4:353-362 '62. (MIRA 15:11)

1. Institut organicheskoy khimii AN Armyanskoy SSR. (Butenyne) (Pyranol)

s/171/62/015/005/004/008 E075/E592

AUTHORS:

Vartanyan, S.A. and Dangyan, F.V.

TITLE:

Addition of a-chloroalkyl ethers to styrene and the conversions of the obtained 1-phenyl-1-chloro-3methoxybutane

rERIODICAL: Akademiya nauk Armyanskoy SSR. Izvestiya. Seriya khimicheskikh nauk. v.15, no.5, 1962, 443-447

Synthesis of aromatic γ -chloroethers, which could serve as starting materials for numerous organic syntheses is described. It was established that y-chloroalkyl ethers combine with styrene in the presence of ZnCl2 in ether to give C6H5CHCCCH2CH(OCH3)R (I). The yields were 63.4% and 86.5% for (I) chloride, R = CH, reacted $R = CH_3$ and iso- C_4H_9 , respectively. with sodium acetate in acetic acid yielding C6H5CH(OCOCH3)CH2 The hydrolysis of (II) in aq NaOH for 50 hours at 95°C gave alcohol C6H5CH(OH)CH2CH(OCH3)CH3, identical with the alcohol resulting from the saponification of chloride (I),R = CH3). Card 1/2

Addition of a-chloroalkyl ...

S/171/62/015/005/004/008 E075/E592

Heating the latter at 65° - 70°C for 12 hours, with ethanol in the presence of solid kOH, gave 1-methoxy-1-phenyl-3-ethoxybutane. (I) chloride reacted with aniline to give γ -aminoether CH₃CH(OCH₃)CH₂CH(NHC₆H₅)C₆H₅.

ASSOCIATION:

Institut organicheskoy khimii AN ArmSSR

(Institute of Organic Chemistry AS ArmSSR)

SUBMITTED:

June 19, 1962

Card 2/2

S/171/62/015/005/005/008 E071/E592

AUTHORS: Vartanyan, S.A., Zhamagortsyan, V.N. and Badanyan, Sh.O.

TITLE: Chemistry of vinylacetylene. Communidation 36:

Condensation of vinylacetylene and isopropenylacetylene with aldehydes and ketones in the presence of powdered

potassium hydroxide without a solvent

PERIODICAL: Akademiya nauk Armyanskoy SSR. Izvestiya. Seriya khimicheskikh nauk. v.15, no.5, 1962, 449-454

TEXT: The possibility of condensation of vinylacetylene and isopropenylacetylene with ketones of aromatic, alicyclic, and heterocyclic series, as well as with ketones containing functional groups, e.g. hydroxy-; alkoxy- etc., was investigated. The method consists of cooling powdered potassium hydroxide (in a three-necked flask) with ice and salt, adding the required hydrocarbon followed by an aldehyde or ketone at such a rate that the temperature does not exceed -5°C. It was found that using this method vinylacetylene condenses with α -ketols, also with α - and γ -alkoxyketones, but not with β -alkoxyketones; isopropenylacetylene condenses with aldehydes and ketones forming corresponding vmylacetylene alcohols; alicyclic and heterocyclic ketones condense Card 1/2

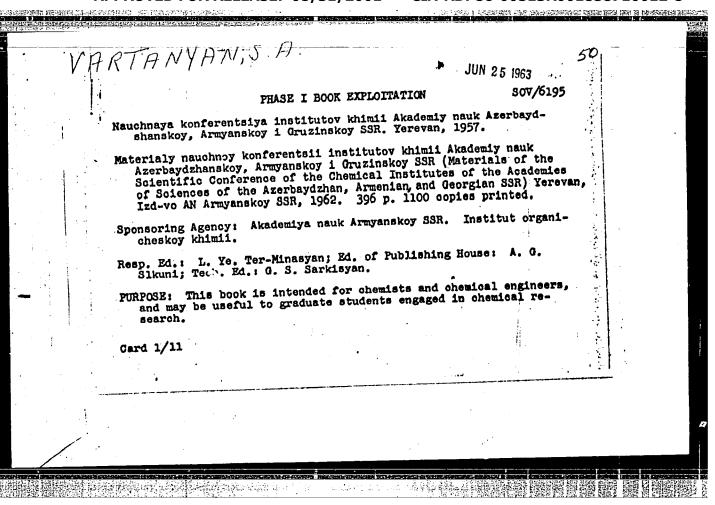
Chemistry of vinylacetylene ... S/171/62/015/005/008 E071/E592

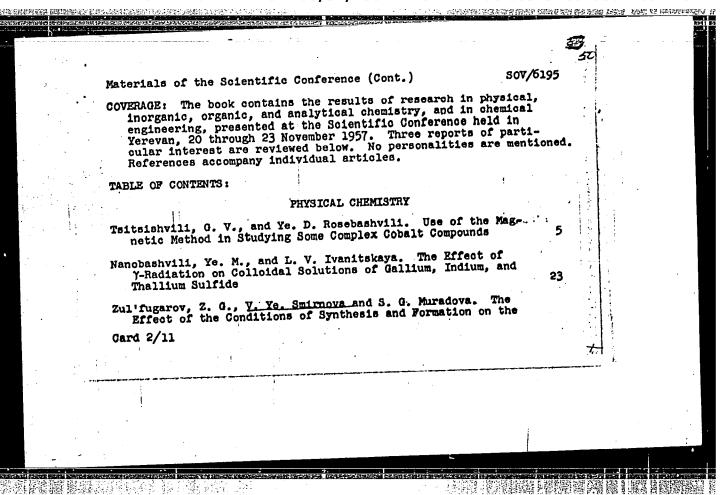
similarly with isopropylacetylene with the formation of corresponding carbinols, acetophenone and benzophenone condenses with vinylacetylene and isopropenylacetylene with the formation of the corresponding carbinols. Boiling points, refractive indexes, densities, yields and elementary analyses of the newly synthesized alcohols are given. There are 2 tables.

ASSOCIATION: Institut organicheskoy khimii AN ArmSSR (Institute of Organic Chemistry AS ArmSSR)

SUBMITTED: August 10, 1962

Card 2/2





SOV/6195 Materials of the Scientific Conference (Cont.) silicate mineral) as a catalyst carrier have been determined. The study was of interest because this petroleum fraction is used as diesel and jet fuel and is degraded for these purposes by the presence of n-alkanes. conversion conditions were obtained with hydrogenation under 30 atm. H in a flow reactor at 450°C with a hydrogen/hydrocarbon molar ratio of 3: 1 and a hydrocarbon space velocity of 0.5 hr -1. Catalysis with 0.5% of Pt or Pd on Al, O, or "gumbrin" caused an extensive conversion of normal undecane and dodecane and improved the motor properties of hydrogenation-cracking products by increasing their heating efficiency by 80 kcal/kg and reducing their pour points by 16 to 48.5°C. Mamedaliyev, Yu. G., M. A. Dalin, and T. I. Mamedov. Catalytic Dehydrogenation of the Isopentane Fraction Vartanyan, S. A., V. N. Zhamagortsyan, and Sh. O. Badanyan.
Synthesis and Investigation of Aminoacetylenic and α-Alko-336 xyvinylacetylenic Alcohols Card 9/11

CIA-RDP86-00513R001858710012-8 "APPROVED FOR RELEASE: 08/31/2001

sa kan pengangan kerapangan pengangan pengangan pengangan pengangan pengangan pengangan pengangan pengangan pe VARTANYAN, S.A. Chemistry of vinylethynylcarbinols. Usp.khim. 31 no.10:1137-1164 0 '62. (MIRA 15: (MIRA 15:11) 1. Institut organicheskoy khimii AN Armyanskoy SSR. (Unsaturated compounds) (Methanol)

> CIA-RDP86-00513R001858710012-8" APPROVED FOR RELEASE: 08/31/2001

s/079/62/032/010/003/008 D204/D307

AUTHORS:

Vartanyan, S.A., Vardapetyan, S.K., and Badanyan, Sh.O.

TITLE:

The chemistry of vinylacetylene. XXX. The synthesis and transformations of vinylacetylenic cresols and

their esters

PERIODICAL:

Zhurnal obshchey khimii, v. 32, no. 10, 1962;

3188 - 3195

TEXT: The present continuation of earlier work, in which it was shown that vinylacetylenic derivatives of phenol and anisole may be prepared by alkylation of the phenols with various vinyl-ethinyl carprepared by alkylation of the phenols with various vinyl-ethinyl carprepared by alkylating the structure of the carbinols to binols, was aimed at correlating the structure of the carbinols to binols, was aimed at correlating the structure of the carbinols to binols, was aimed at correlating the structure of the carbinols to binols, was aimed at correlating phenol, o-cresol and its esters were alkylated with vinylethinyl carbinols containing alkyl, alicyclic alkylated with vinylethinyl carbinols containing alkyl, alicyclic and heterocyclic radicals. The reactions were carried out in the presence of H₃PO₃, under reflux, at 65-70°C, for 30-50 hours, obspresence of H₃PO₃, under reflux, at 65-70°C, for 30-50 hours, obspresence of H₃PO₃, under reflux, at 65-70°C, for 30-50 hours, obspresence of H₃PO₃, under reflux, at 65-70°C, for 30-80 %

taining the corresponding p-substituted compounds in 30-80 % yields. The p-substituted vinylacetylenic phenols were readily este-

Card 1/2

The chemistry of vinylacetylene ...

\$/079/62/032/010/003/008 D204/D307

rified, in 70-85 % yields, with the corresponding alkyl halides, in the presence of NaOH, on boiling for 15-20 hrs. The corresponding saturated o-cresols and their esters could be obtained by hydrogenating the p-substituted compounds, either over a Pt catalyst, at 1 atm, or over Raney nickel, at 15-17 atm. There are 3 tables.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk Armyanskoy SSR (Institute of Organic Chemistry of the Academy of

Sciences, Armenian SSR)

SUBMITTED:

July 21, 1961

Card 2/2

VARTANYAN, S.A.; BADANYAN, Sh.O.; MUSAKHANYAN, G.A.

Chemistry of vinylacetylene. Report No.38: Hydrochlorination of vinylisopropenylacetylene, dimethylvinylethynylcarbinol, and dimethylvinylthynylchloromethane in the presence of various catalysts. Izv. AN Arm.SSR. Khim. nauki 16 no.1:19-29 *63 (MIRA 17:8)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

GEVORKYAN, I. Kh., prof; VARTANYAN, S.A.; NAZARYAN, F.A.

Experience with the use of the curarelike preparation bromotilin made in the Soviet Union. Vest.khir. no.1:96-99'63. (MIRA 16:7)

l. Iz gospital noy khirurgicheskoy kliniki (zav.-prof.I.Kh. Gevorkyan) Yerevanskogo meditsinskogo instituta (dir.-prof. S.M.Galstyan).

(MUSCLE RELAXANTS)

VARTANYAN, S.A.; MESROPYAN, L.G.; TOSUNYAN, A.O.

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Chemistry of vinylacetylene. Report No.39: Order of addition of chloromethyl ethers to vinylisopropenylacetylene and some transformations of obtained chloride. Izv. AN Arm SSR Khim. nauki 16 no.22137-144 *63 (MIRA 17:8)

1. Institut organicheskoy khimii AN ArmSSR.

VARTANYAN, S.A.; OGANOVA, L.V.; BADANYAN, Sh.O.

Letter to the editor. Interaction of amines with diacetylenic alcohols. Izv. AN Arm.SSR. Khim.nauki. 16 no.3:297-298 '63. (MIRA 17:2)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

VARTANYAN, S.A.; ZHAMAGORTSYAN, V.N.; NORAVYAN, A.S.

Chemistry of vinylacetylene. Report No.41: Synthesis and some transformations of substituted divinyl ketones. Izv.AN Arm.SSR. Khim.nauki 16 no.4:391-397 '63. (MIRA 16:9)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

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VARTANYAN, S.A.; ZHAMAGORTSYAN, V.N.; GIRGORYAN, L.G.

Chemistry of vinylacetylene. Report No.42: Synthesis of 4-hydroxytetrahydropyran-4-carboxylic acids and their esters. Izv.AN Arm.SSR. Khim.nauki 16 no.4:399-405 '63. (MIRA 16:9)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

VARTANYAN, S.A.; TOSUNYAN, A.O.

Chemistry of vinylacetylene. Report No. 43: Addition of chloromethyl ethers to ethers of vinylacetylene alcohols and some transformations of alkoxy chlorides produced. Izv. AN Arm. SSR. Khim. nauki 16 no.5:499-505 163.

(MIRA 17:1)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

VARTANYAN, S.A.; VARDAPETYAN, S.K.; BADANYAN, Sh.O.

Chemistry of vinylacetylene. Report No. 44: Alkylation of an aromatic ring with diene dichlorides and chloroalcohols. Izv. AN Arm. SSR. Khim. nauki 16 no.5:507-514 '63. (MIRA 17:1)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

VARTANYAN, S.A.; OGANOVA, L.V.; BADANYAN, Sh.O.

Interaction of alcohols with diacetylenic alcohols and glycols. Izv. AN Arm. SSR. Khim. nauki 16 no.5;515-516 (MIRA 17:1)

163.

VARTANYAN, S.A.; BADANYAN, Sh.P.; MUSHEGYAN, A.V.

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Chemistry of vinylacetylene. Report No. 45: Synthesis and conversion of vinylacetylenic amines (acetylene-ailene-cumulene version of vinylacetylenic systems). Izv. AN Arm. SSR rearrangement in vinylacetylenic systems). Izv. AN Arm. SSR Khim nauki 16 no.6:547-557 *63 (MIRA 17:8)

1. Institut organicheskoy khimii AN ArmSSR.

VARTAN'YAN, S.A.

Current problems in planning and management. Vest. sviazi 23 no.

(MIRA 17:2)

7:26-27 Jl '63.

l. Nachal'nik planovo-finansovogo otdela Krasnodarskogo krayevc-go upravleniya svyazi.

VARTANYAN, S. A.; TOSUNYAN, A. O.; MESROPYAN, L. G.

Chemistry of vinylacetylene. Part 37: Addition reactions of CA-chloromethyl ethers to 5-chloro-5-methyl-1-hexen-3-yne and some transformations of the products obtained. Zhur. ob. khim. 33 no.1:62-67 163. (MIRA 16:1)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

(Hexenyne) (Ethers)

VARTANYAN, S.A.; SHAGBATYAN, Sh.L.

Chemistry of vinylacetylene. Part 16: Synthesis and transformations of new vinylacetylenic alcohols with a dihydropyran ring. Izv.aN
Arm.SSR.Khim.nauki 17 no.1:95-102 '64. (MIRA 17:4)

1. Institut organicheskoy khimii Armyanskoy SSR.

VARTANYAN, S.A.; MUSAKHANYAN, G.A.; AVETYAN, L.O.

Chemistry of vinylacetylene. Part 47: Hydrochlorination of methylethylvinylethinylcarbinol, methylethylvinylethinylchlor-metháne, and 5-methyl-1,5-heptadien-3-yne. Izv. Ar Arm. SSF. Knim.nauki 17 no. 2:164-172 '64. (MIRA 17:6)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

VARTYANYAN, S.A.; TOSUNYAN, A.O.; MELKONYAN, S.A.

Chemistry of vinylacetylene. Part 48: Order of the addition of chloromethyl ethers to isopropenylacetylene and som transformations of the alkoxy chlorides obtained. Izv.AN Arm.SSR. Khim.nauki 17 no. 2:184-190 '64. (MIRA 17:6)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

VARTANYAN, S.A.; BADANYAN, Sh.O.; AGABABYAN, R.G.

Addition of dimethylamine to acetylenic alcohols. Izv.An Arm.
SSR.Khim.nauki 17 no. 2:191-195 '64. (MIRA 17:6)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

VARTANYAN, S.A.; ZHAMAGORTSYAN, V.N.; NORAVYAN, A.S.

Chemistry of vinylacetylene. Part 49: Some transformations of 2-propyl- and 2-methyl-2-ethyl-4-vinylethinyltetrahydropyran-ols. Izv.AN Arm.SSR.Khim.nauki 17 no. 2:196-203 '64. (MIRA 17:6)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

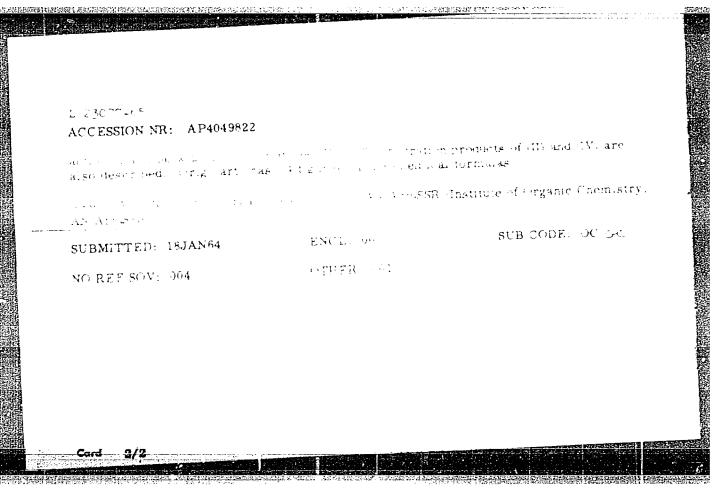
VARTANYAN, S.A.; GRIGORYAN, L.G.; ZHAMAGORTSYAN, V.I.

Oxidation o vinylacetylenic alcohols and their ethers by means of perhydrol in acetic acid solution. Izv.AN Arm. SSR.Khim.nauki 17 no. 3:348-349 '64. (MIRA 17:7)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

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	HOR: Variation to the term of Accordance allege cumulene rearrangement during
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ر. ودند	னர் நெரும் படிய நிறந்திய கழின்கிராழ் பிக் பார் பெரியார் உழிப்போம் amine , cumulenc amine . .racetylene , acetylene i ne eri மதின்ன பிரிய பிரியார் காக்காற்கிற்க
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ACCESSION NR: AP4049823

carbinol, diethylvinylethynyl carbinol, vinylethynylcyclohexanol, and 2, 2-dimethyl-4-vinylethynyltetrahydropyranol-4. Orig art has: 3 chemical formulas

ASSECTATION - Listitut organisheskov khimii AN ArmSSR (Institute of Organic Chemistry, AN ArmSSR)

SUBMITTED 14Nov63

ENCL: 90

SUB CODE: OC, GC.

NO REF SOV: 007

OTHER: 002

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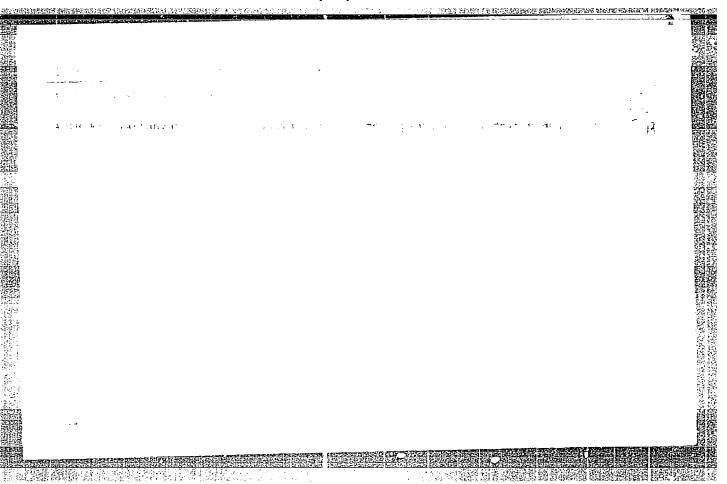
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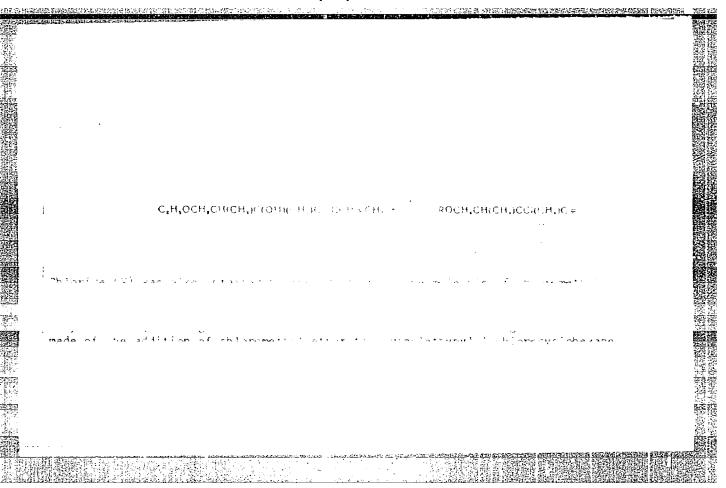
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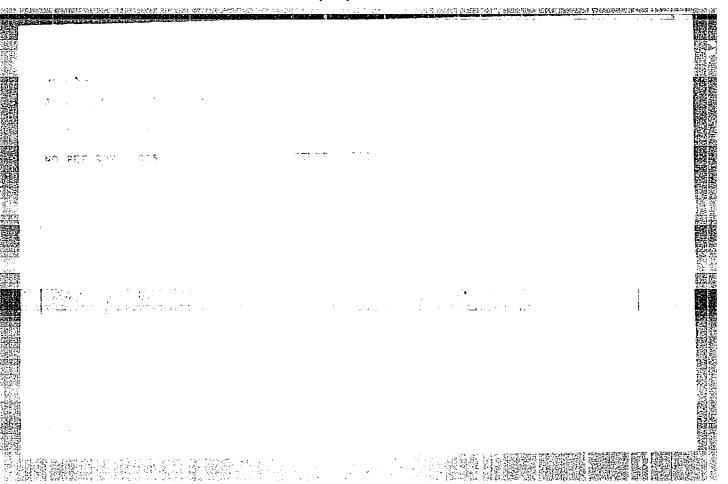
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