

MAMEDOV, Shamkal; BAGRAMOVA, A.; AVANESYAN, M.A.

Glycol ethers and their derivatives. Part 62: Synthesis of alkoxy-
methyl benzyl ethers of 2,3-butanediol. Zhur.ob.khim. 33 no.12:3839-
3841 D 63. (MIRA 17:3)

1. Institut neftekhimicheskikh protsessov AN Azerbaydzhanskoy SSR.

MAMEDOV, Shamkhal; MAMEDOVA, A.R.; AVANESYAN, M.A.

Glycol ethers and their derivatives. Part 57: Synthesis of
alkoxymethyl β -aryloxyethyl ethers. Zhur. ob. khim. 33
no.5:1451-1455 My '63. (MIRA 16:6)

1. Institut neftekhimicheskikh protsessov AN AzSSR.
(Ethanol) (Ethers)

MAMEDOV, Shamkhal; SHAMILOV, Kh.Kh.; KHYDYROV, D.N.

Glycol ethers and their derivatives. Part 56: 1-Phenyl-1,3-propanediol alkoxymethyl ethers. Zhur. ob. khim. 33 no.5: 1446-1451 My '63. (MIRA 16:6)

1. Institut neftekhimicheskikh protsessov AN AzSSR.
(Propanediol) (Ethers)

MAMEDOV, Shamkhal; NIZKER, I.L.

Glycol ethers and their derivatives. Part 52: Synthesis of
alkoxy derivatives of methyl ethers of 1,2-cyclohexanediol.
Zhur.ob.khim. 33 no.3:841-845 Mr '63. (MIRA 16:3)

1. Institut neftekhimicheskikh protsessov AN Azerbaydzhanskoy
SSR.

(Cyclohexanediol)
(Ethers)

MAMEDOV, Shamkhal; DZHAGUPOVA, Ye.G.; AVANESYAN, M.A.

Glycol ethers and their derivatives. Part 51: Synthesis of alkoxy derivatives of methyl ethers of o- and p-methylbenzyl alcohols. Zhur.ob.khim. 33 no.3:836-841 Mr '63. (MIRA 16:3)

1. Institut neftekhimicheskikh protsessov AN Azerbaydzhanskoy SSR.

(Benzyl alcohol)
(Ethers)

MAMEDOV, Shamkhal; GADZHIZADE, F.

Glycol ethers and their derivatives. Part 50: Synthesis of
alkoxymethyl ethers of 1-chloro-3-alkoxy-2-propanol.
Zhur.ob.khim. 33 no.3:831-836 Mr '63. (MIRA 16:3)

1. Institut neftkhimicheskikh protsessov AN Azerbaydzhanskoj
SSR.

(Propyl alcohol)
(Ethers)

MAMEDOV, Shamkhal; KHYDYROV, D.N.

Glycol ethers and their derivatives. Part 49: Synthesis of
aromatic -bromo ethers. Zhur.ob.khim. 33 no.2:457-462 F
'63. (MIRA 16:2)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.
(Ethers) (Glycol) (Aromatic compounds)

MAMEDOV, Shakhali; NIZKER, I.L.; ISMAYILZADE, I.G.; MAMEDOV, F.A.; MAMEDOV, I.M.

Synthesis and study of Raman spectra of alicyclic α -chloro ethers.
Dokl. AN Azerb. SSR 19 no.1:23-26 '63. (MIWA 16:4)

1. Institut Neftekhimicheskikh protsessov AN AzSSR. Predstavleno
akademikom AN AzSSR M.A.Dalinym.
(Cyclic compounds—Spectra)

MAMEDOV, Shamkhal; AVANESYAN, M.A.; ALIYEVA, B.M.

Glycol ethers and their derivatives. Part 48: Synthesis
of alkoxyethylbenzyl ethers. Zhur.ob.khim. 32
no.11:3635-3639 N '62. (MIRA 15:11)

1. Institut neftekhimicheskikh protsessov AN
Azerbaydzhanskoy SSR.
(Glycols) (Ethers)

MAMEDOV, Shamkhal; AVANESYAN, M.A.

Glycol ethers and their derivatives. Part 47: Synthesis of acetals
or aromatic and heterocyclic aldehydes. Zhur.ob.khim. 32 no.9:2834-
2838 S '62. (MIRA 15:9)

1. Institut neftekhimicheskikh ~~professov~~ AN Azerbaydzhanskoy SSR.
(Acetaldehyde) (Heterocyclic compounds)

MAMEDOV, Shamkhal; KHYDYROV, D.N.

Ethers of glycols and their derivatives. Part 46: Synthesis of
alkoxy derivatives of methyl ether of phenylethanol. Zhur.ob.
khim. 32 no.5:1427-1432 My '62. (MIRA 15:5)

1. Institut neftekhimicheskikh protsessov AN SSSR.
(Ethanol) (Ethers)

MAMEDOV, Shamkhal; AVANESYAN, M.A.

Glycol ethers and their derivatives. Part 45: Synthesis of alkoxy derivatives of ethylene glycol methyl ethers. Zhur.ob.-khim. 32 no.3:813-817 Mr '62. (MIRA 15:3)

1. Institut neftekhimicheskikh protsessov AN AzerbSSR.
(Ethanediol)

MAMEDOV, Shamkhal; NIZKER, I.

Glycol ethers and their derivatives. Part 44⁰ Alicyclic
γ-chloro ethers. Zhur.ob.khim. 32 no.3:808-813 Mr '62.
(MIRA 15:3)

1. Institut neftekhimicheskikh protsessov AN AzerbSSR.
(Glycols)

MAMEDOV, Shamskhal; AGAYEV, A.S.

Glycol ethers and their derivatives. Part 43: Synthesis of
dihalo ethers of the aliphatic series. Zhur.ob.khim. 32
no.3:803-808 Mr '62. (MIRA 15:3)

1. Institut neftekhimicheskikh protsessov AN AzerbSSR.
(Glycols)

MAMEDOV, Shamkhal; GADZHIZADE, F.

Glycol ethers and their derivatives. Part 42: Synthesis of esters and mixed ether-esters of 2,2,2-trichloro-1,1-ethanediol. Zhur.ob.khim. 32 no.3:799-802 Mr '62. (MIRA 15:3)

1. Institut neftekhimicheskikh protsessov AN AzerbSSR.
(Ethanediol)

MAMEDOV, Shamkhal; MAMEDOVA, A.R.

Simple glycol ethers and their derivatives. Part 41:
Synthesis of alkoxy derivatives of methyl ethers of
dihydric phenols. Zhur.ob.khim. 32 no.2:407-410 F '62.

(MIRA 15:2)

1. Institut neftekhimicheskikh protsessov AN Azerbaydzhanskoj
SSR.

(Phenols)

(Ethers)

MAMEDOV, Shamkhal; LERNER, G.

Investigation in the field of simple glycol ethers and
their derivatives. Part 40: Synthesis of chloral acetals.
Zhur.ob.khim. 32 no.2:403-407 F '62. (MIRA 15:2)

1. Institut neftekhimicheskikh protsessov AN Azerbaydzhanskoy
SSR.

(Chloral) (Acetals)

MAMEDOV, Shamkhal; OSIPOV, O.B.; DZHALILOV, T.N.; GRIZHINA, Ye.N.

New contact poisonous chemicals "efiran-168" and "efiran" 169."
Dokl. AN Azerb. SSR 18 no.9:19-23 '62. (MIRA 17:1)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.
Predstavleno akademikom AN AzSSR I.D. Mustafayevym.

Synthesis of new plasticizers from ... S/204/62/002/005/006/007
E075/E136

distilled under 1 mm Hg. The fraction boiling between 200 and 240 °C (yield 76%) constituted the new plasticizer named "АНАЗ" (ANAZ). The plasticizer has negligible volatility (0.044-0.9% at 100 °C), good light resistance, low freezing temperature (-40 to -65 °C) and good compatibility with plastics (does not sweat out from plastic films) and their solvents. It is insoluble in water, stable to heat and cold and non-poisonous. "ANAZ" (5-7%) successfully replaces dibutylphthalate in collodion cotton and butadiene-nitrile rubber and castor oil in dermateen. It also replaces satisfactorily tricresylphosphate in perchlorvinyl enamels. ✓

There are 3 tables.

ASSOCIATION: Institut neftekhimicheskikh protsessov AN AzSSR
(Institute of Petrochemical Processes, AS Az.SSR)

SUBMITTED: March 31, 1962

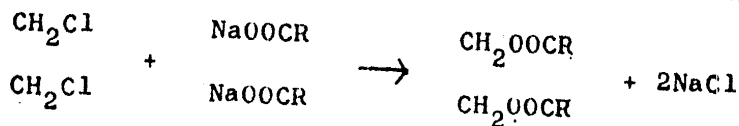
Card 2/2

S/204/62/002/005/006/007
E075/E136

AUTHORS: Namedov, Shamkhal, Rzayev, A.S., and Nizker, I.L.
TITLE: Synthesis of new plasticizers from kerosene naphthenic acids

PERIODICAL: Neftekhimiya, v.2, no.5, 1962, 788-792

TEXT: A search for new methods of producing cheap, high quality plasticizers led to the utilization of naphthenic acids as the raw material. The new plasticizers were obtained as follows:



where R - naphthenic radical (mol.wt 140-160). Individual fractions of the acids (kerosene naphthenic acids: 55-60% fraction, 110 to 140 °C - acid value ~300; 25-30% fraction, 140 to 160 °C - acid value ~ 270-280) were neutralised with solid NaOH at 50-100 °C. Dichloroethane was introduced at 170-190 °C, the reaction being continued for 6-8 hours. The products were
Card 1/2



MAMEDOV, Shamkhal; AGAYEV, A.S.

Synthesis of alkoxy derivatives of dimethyl sulfide. Azerb.khim.-
zhur. no.5:99-103 '62. (MIRA 16:5)
(Methyl sulfide) (Alkoxy groups)

MAMEDOV, Shamkhal; ALIYEVA, Kh.M.; OSIPOV, O.B.

Utilization of olefinic components from the liquid pyrolysis products of petroleum hydrocarbons. Neftekhimia 2 no.1:115-120 Ja-F '62. (MIRA 15:5)

1. Institut neftekhimicheskikh protsessov AN AzSSR.
(Olefins) (Herbicides)

Materials of the Scientific Conference (Cont.)	80V/6195
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5/10

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MAMMEDOV, Sh.

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PHASE I BOOK EXPLOITATION

SOV/6195

Nauchnaya konferentsiya institutov khimii Akademiy nauk Azerbaydshanskoy, Armyanskoy i Gruzinskoy SSR. Yerevan, 1957.

Materialy nauchnoy konferentsii institutov khimii Akademiy nauk Azerbaydzhanskoy, Armyanskoy i Gruzinskoy SSR (Materials of the Scientific Conference of the Chemical Institutes of the Academies of Sciences of the Azerbaydzhans, Armenian, and Georgian SSR) Yerevan, Izd-vo AN Armyanskoy SSR, 1962. 396 p. 1100 copies printed.

Sponsoring Agency: Akademiya nauk Armyanskoy SSR. Institut organicheskoy khimii.

Resp. Ed.: L. Ye. Ter-Minasyan; Ed. of Publishing House: A. G. Silkuni; Tech. Ed.: G. S. Sarkisyan.

PURPOSE: This book is intended for chemists and chemical engineers, and may be useful to graduate students engaged in chemical research.

COVERAGE: The book contains the results of research in physical, inorganic, organic, and analytical chemistry, and in chemical engineering, presented at the Scientific Conference held in Yerevan, 20 through 23 November 1957. Three reports of particular interest are reviewed below. No personalities are mentioned. References accompany individual articles.

MAMEDOV, SHAMKHAL; KHYDYROV, D.N.

Glycol ethers and their derivatives. Part 39: Synthesis of
v-Chloroethers of the aromatic series. Zhur.ob.khim. 31 no.12:3905-
3909 D '61. (MIRA 15:2)

1. Institut neftekhimicheskikh protsessov AN Azerbaydzhanskoy
SSR.

(Ethers)

MAMEDOV, Shamkhal; AVANESYAN, M.A.

Glycol ethers and their derivatives. Part 38: Synthesis of alkoxy derivatives of glycerol methyl ethers. Zhur. ob. khim. 31 no. 11:3566-3571 N '61. (MIRA 14:11)

1. Institut neftekhimicheskikh protsessov AN Azerbaydzhanskoy SSR.
(Glycerol) (Ethers)

MAMEDOV, Shamkhal; RZAYEV, A.S.

Glycol ethers and their derivatives. Part 37: Synthesis of alkyl- β -chloroethyl and alkyl- β -alkoxyethyl ethers of methylene glycol.
Zhur. ob. khim. 31 no. 11:3561-3568 N '61. (MIRA 14:11)

1. Institut neftekhimicheskikh protsessov AN Azerbaydzhanskoy SSR.
(Glycols) (Ethers)

MAMEDOV, Shamkhal; AVANESYAN, M.A.

Glycol ethers and their derivatives. Part 36: Synthesis and
chemical transformation of ethers of methylene glycol. Zhur.
ob. khim. 31 no. 11:3556-3560 N '61. (MIRA 14:11)

1. Institut neftekhimicheskikh protsessov AN Azerbaydzhanskoy SSR.
(Glycols) (Ethers)

MAMEDOV, Shamkhal; ARABOV, A.K.

Synthesis of β -diethylaminoethylalkyl ethers of methylene glycol.
Dokl. AN Azerb. SSR 17 no.12:1139-1142 '61. (MIRA 15:2)

1. Institut neftekhimicheskikh protsessov AN AzSSR. Predstavleno
akademikom AN AzSSR Yu. G. Mamedaliyevym.
(Ethers)

MAMEDOV, Shamkhal; GADZHI-ZADE, F.

Synthesis of alkoxyethylalkyl esters of 2, 2, 2-trichloroethanediol.
Dokl.AN Azerb.SSSR 17 no.11:1023-1026 '61. (MIRA 15:2)

1. Institut neftekhimicheskikh protsessov AN AzSSR. Predstavleno
akademikom AN AzSSR M.A.Dalinym.
(DDT (Insecticide))

MAMEDOV, Shamkhal; NIZKER, I.L.; RZAYEV, A.S.

Alcoholless method of producing esters. Dokl. AN Azerb. SSR 17
no.9:789-791 '61. (MIRA 15:3)

1. Institut neftekhimicheskikh protsessov AN AzSSR. Predstavleno
akademikom AN AzSSR M.A.Dalinym.
(Esters)

MAMEDOV, Shamkhal

~~M~~, Shamkhal; O.B.; GRISHINA, Ye.N.

Efiran-59 and efiran-94, new highly effective chemicals for
bollworm control. Dokl. AN Azerb. SSR 17 no.8:691-695 '61.
(MIRA 14:10)

1. Institut neftekhimicheskikh protessov AN AzerbSSR.
Predstavleno akademikom AN Azerbaydzhanskoy SSR I.D. Mustafayevym.
(Bollworm)
(Insecticides)

MAMEDOV, Shamhal; OSIPOV, O.B.; ALIYEVA, Kh.M.; ZEYNALOVA, V.M.

Efiran-66, a new herbicide. Dokl. AN Azerb. SSR 17 no. 4: 331-334
'61. (MIRA 14:6)

1: Institut neftekhimicheskikh protsessov AN AzerSSR.
Predstavleno akademikom AN Azerbaydzhanskoy SSR V.R. Volobuyevym.
(Herbicides) (Isopropyl ether)

MAMEDOV, Shamkhal; GADZHIZADE, F.

Synthesis of mixed ether-esters of 2,2,2-trichlor-1,1-ethanediol.
Dokl. AN Azerb. SSR 17 no. 3:203-206 '61. (MIRA 14;5)

1. Institut neftekhinicheskikh protsessov AN AzerbSSR. Predstavleno
akademikom AN Azerbaydzhanskoy SSR M.A.Dalinym.
(Chloral)

MAMEDOV, Shamkhal; LERNER, G.Ya.

"Trifan", a new DDT analog. Azerb.khim.zhur. no.6:87-93 '61.
(MIRA 15:5)

(DDT (Insecticide))

MAMEDOV, Shamkhal; OSIPOV, O.B.; ALIYEVA, Kh.M.

"Betaefiran" (ether preparation). Azerb.khim.zhur. no.5:59-63
'61. (MIRA 15:5)

(Ethers) (Insecticides)

MAMEDOV, Shamkhal; KHYDYROV, D.N.

Synthesis of simple aromatic chloroethers. Azerb.khim.zhur.
no.2:29-38 '61. (MIRA 14:8)

(Ether)

MAMEDOV, Shamkhal; KHYDYROV, D.N.; AGAYEV, A.S.

Utilization of "styrene resin" of the Sungait synthetic rubber
plant. Neftekhimia 1 no.5:691-694 S-O '61. (MIRA 15:2)

1. Institut neftkhimicheskikh protsessov AN AzSSR.
(Sungait--Rubber, Synthetic)(Styrene)

MAMEDOV, Shamkhal; MAGERRAMOV, B.G.; OSIPOV, O.B.; ALESKEROV, A.S.,

Bactericidal properties of certain ether preparations. Azerb.
khim.zhur, no.1:65-69 '61. (MIRA 14:8)
(Ether) (Bactericides)

MAMEDOV, Shamkhal, doktor khim. nauk, prof.; MEKHTIYEV, S.D., red.;
KEGAMYAN, V., red. izd-va; ISMAYLOV, T., tekhn. red.

[Glycol ethers] Prostye efiry glikolei. Baku, Izd-vo Akad. nauk
Azerbaidzhanskoi SSR, 1961. 210 p. (MIRA 15:5)

1. Chlen-korrespondent Akademii nauk Azerbaidzhanskoy SSR (for
Mekhtiyev).

(Glycols)

MAMEDOV, Shakhmal; RZAYEV, A.

Synthesis and analysis of alkyl β -ethoxyethyl esters of
methylene glycol. Dokl. An Azerb. SSR 16 no. 12:1171-1175 '60.
(MIRA 14:2)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.
Predstavleno akademikom AN AzerSSR M.F. Nagiyevym.
(Methanedianine)

MAMEDOV, Sh.A.; RZAYEV, A.S.

Synthesis and study of alkoxy, 3-chloro-butene-2-oxymethane.
Azerb.khim.zhur. no.6:83-90 '60. (MIRA 14:8)
(Methanediol) (Ether)

MAMEDOV, Shamkhal; RZAYEV, A.

Synthesis of alkyl β -chloroethyl ethers of methylene glycol.
Azerb.khim.zhur. no.5:47-56 '60. (MIRA 14:8)
(Methanediol)

MAMEDOV, Shamkhal; OSIPOV, O.B.; ALIYEVA, Kh.M.

Catalytic alkoxymethylchlorination of olefins. Azerb.khim.
zhur. no.2:83-91 '60. (MIRA 14:8)
(Olefins) (Ether)

MAMEDOV, Shamkhal

Synthesis and investigation of γ -halo ethers of the aliphatic
series, Trudy Inst.khim.AN Azerb.SSR 17:138-145 '59.
(MIRA 13:4)

(Ethers)

The New Plasticizer ANAZ

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S/064/59/000/07/007/035
B005/B123

while the glycol esters of the naphthenic acids are distilled off at 180-210°, which are already the ready product. The first runnings are once more esterified. The yield of the plasticizer amounts to 70-80%, compared to the used naphthenic acid mixture. Production costs of ANAZ are comparatively low. The new plasticizer was tested in the dermatino-kleyenochnaya fabrika im. Nogina (Dermatin Oil Cloth Works imeni Nogin) in Kuntsevo for the production of dermatin and nitrolinoleum. Results satisfy technical demands. Moreover, ANAZ was successfully used instead of tricresylphosphate as a plasticizer for enamels of the type PKhV, and instead of ricinus oil for the production of nitro dyes in GIPI-4 (State Design and Planning Scientific Research Institute of Varnish and Paint Industry). It was found that coatings containing ANAZ can be cooled off to -50° without any loss of stability. In NII rezinovoy promyshlennosti (Scientific Research Institute of Rubber Industry) good results were achieved with the new plasticizer. There are 1 figure, 1 table, and 6 references, 5 of which are Soviet.

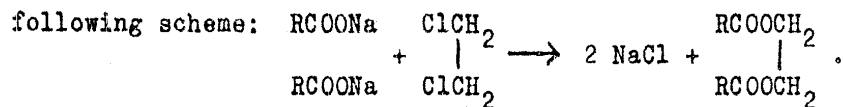
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The New Plasticizer ANAZ

S/064/59/000/07/007/035
B005/B123

100° for 6 hours) are compared to qualities of other popular plasticizers. ANAZ is a pale yellow, nearly odorless oily liquid. For the production of 1 mol of this plasticizer one needs 1.1 mol of the naphthenic acid mixture, 0.15 mol of sodium hydroxide and 0.2 mol of dichloroethane. For the esterification of the acid mixture distilled in vacuum, it is neutralized at 120-160° with solid sodium hydroxide. The water produced is distilled off. The temperature is then increased to 180°. At this temperature dichloroethane vapors are led through the mixture while mixing it thoroughly. The melted sodium salts of the naphthenic acids react with the dichloroethane according to the



After cooling off the reaction mixture to 50-40°, water is added. The addition of water causes the precipitation of sodium chloride in crystalline form which deposits readily. The ester is decanted and distilled in a vacuum. With a pressure of 2 torr up to 170-180°, the excess naphthenic acids are distilled off,

15.8600
~~5 (1), 5 (2)~~

AUTHORS:

Mamedov, Sh. A., Rzayev, A. S.,
 Nizker, I. L.

67787

S/064/59/000/07/007/035
 B005/B123

TITLE:

The New Plasticizer ¹⁵ANAZ ¹⁵

PERIODICAL:

Khimicheskaya promyshlennost', 1959, Nr 7, pp 580 - 582 (USSR)

ABSTRACT:

In the present paper the manufacture and qualities of the new plasticizer ANAZ (abbreviation for AN Azerbaydzhanskoy SSR (AS of the Azerbaydzhanskaya SSR)), are discussed. This plasticizer which was for the first time produced in 1949-1950, consists of glycol esters of naphthenic acids and is especially suitable for plasticizing colloxylin. In the beginning the strong odor of this plasticizer - caused by the content of crude naphthenic acids - prevented its being used to a larger extent. This odor can, however, be removed by a vacuum distillation of the naphthenic acid mixture used for synthesis, or of the ready product (Ref 3). In a table the most important physicochemical qualities of ANAZ (molecular weight, boiling point, freezing point, ignition point, d_4^{20} , refraction index at 20° , saponification number, content of volatile ingredients when heated to

Card 1/3

MAMEDOV, Sh.A.; OSIPOV, O.B.; MAMEDOVA, A.R.

"Etheran"- a new type of agricultural poison [in Azerbaijani with
summary in Russian]. Izv. AN Azerb. SSR. Ser. fiz.-tekh. i khim.
nauk no.1:125-131 '59. (MIRA 12:6)
(Ether) (Insecticides)

MAMEDOV, Shamkhal; KHYDYROV, D.

Glycol ethers and derivatives. Part 35: Synthesis of β, γ -dibromo derivatives of methylene glycol ethers. Zhur.ob.khim. 28 no.10: 2812-2816 0 '58. (MIRA 11:12)

1. Azerbaydzhanskiy gosudarstvennyy pedagogicheskiy institut.
(Methanediol)

Investigation in the Field of Glycol Ethers and Their SOV/79-28-7-23/64
Derivatives. XXXIV. The Chemical Conversions of the γ -Ethylene Chloride

1. Glycol ethers--Chemical properties
2. Ethylene chlorides--Chemical reactions
3. Ethylene chlorides--Catalysis

Card 3/3

Investigation in the Field of Glycol Ethers and Their SOV/79-28-7-23/64
Derivatives. XXXIV. The Chemical Conversions of the γ -Ethylene Chloride

corresponding γ -halogen ethers appeared as reaction products, according to the Markovnikov rule. The reaction with the catalyst can be represented by scheme 1 according to Kondakov (Ref 11). Hydrogen bromide acts on the allyl ethers in the presence of $ZnBr_2$ under the formation of γ -ethyl bromide (V). In the case of excess HBr, however, a certain amount of 1,3-dibromo derivatives of the hydrocarbons (Scheme 2) is formed. In the oxidation of the organomagnesium compounds produced of γ -ethylene chloride the mono- β -glycolethers form as magnesium halogen glycolates. CO_2 acts on the organomagnesium compounds produced of γ -ethylene chloride under the formation of ethers of the γ -oxy acids. There are 3 tables and 12 references, 7 of which are Soviet.

ASSOCIATION: Azerbaydzhanskiy gosudarstvennyy pedagogicheskiy institut
(Azerbaydzhan State Pedagogical Institute)

SUBMITTED: April 1, 1957
Card 2/3

AUTHORS: Mamedov Shamkhal, Pishnamazzade, B. SOV/79-28-7-23/64

TITLE: Investigation in the Field of Glycol Ethers and Their Derivatives (Issledovaniye v oblasti prostykh efirov glikoley i ikh proizvodnykh) XXXIV. The Chemical Conversions of the γ -Ethylene Chlorides (XXXIV. Khimicheskiye provrashcheniya prostykh γ -khlor-efirov)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 7, pp 1834 - 1838 (USSR)

ABSTRACT: It was of interest to the authors to investigate the properties of the ether homologs of the allyl alcohol (Formula II) in detail, which has remained little investigated as far as can be judged from publications. On the action of hydrogen halides on allyl ether (II) the double ether compound remains preserved and only the oxygen bridge is destroyed under the formation of unsaturated (III) and saturated (IV) halogen derivatives of the hydrocarbons. The experiments showed, however, that even in the cold (0°) HCl and HBr can combine in the presence of a catalyst (ZnCl₂) with the allyl ethers at their double bond. The

Card 1/3

Investigation in the Field of Glycol Ethers and Their SOV/79-28-7-22/64
Derivatives. XXXIII. On Some Chemical Conversions of the γ -Ethyl Bromides of
the Fatty Series

1. Ethyl bromides--Hydrolysis
2. Ethyl bromides--Chemical reactions
3. Glycol ethers--Chemical properties

Card 3/3

Investigation in the Field of Glycol Ethers and Their Derivatives. XXXVIII. On Some Chemical Conversions of the γ -Ethyl Bromides of the Fatty Series SOV/79-28-7-22/64

yield organomagnesium compounds (III), which form 1,4-glycol-ether (IV) with α -chloric ether. This reaction process (see reaction scheme) points to the possibility of a new synthesis of glycol ether with various alkoxy groups in the positions 1,4(IV). 1,3-dihalogen derivatives (V) form on the action of HBr or HJ on the γ -ethyl bromide. This way six new 1,3-dihalogen derivatives of fatty hydrocarbons were synthesized (Table). All above mentioned conversions make possible the production of further compounds on the same basis. There are 1 table and 5 references, 4 of which are Soviet.

ASSOCIATION: Azerbaydzhanskiy gosudarstvennyy pedagogicheskiy institut
(Azerbaydzhan State Pedagogic Institute)

SUBMITTED: April 1, 1957

Card 2/3

AUTHORS: Mamedov, Shamkhal, Zeynalov, B. K. SOV/79-28-7-22/64

TITLE: Investigation in the Field of Glycol Ethers and Their Derivatives (Issledovaniye v oblasti prostykh efirov glikoley i ikh proizvodnykh) XXXIII. On Some Chemical Conversions of the γ -Ethyl Bromides of the Fatty Series (XXXIII. O nekotorykh khimicheskikh prevrashcheniyakh prostykh γ -bromefirov zhirnogo ryada)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 7, pp 1831 - 1834 (USSR)

ABSTRACT: Continuing an earlier paper (Ref 1) the authors carried out some little-known conversions of γ -ethyl bromide. The hydrolysis experiments of these ethers carried out in the presence of Na_2CO_3 and CaCO_3 (10-12 hours) showed that on this occasion HBr is split off under the formation of ethers of the homologs of allyl alcohol (II). In all these cases none of the incomplete γ -glycol ethers to be expected, but only unsaturated ethers resulted. In the case of heating the γ -ethyl bromides (I) with alcoholate the HBr cleavage takes only 2-3 hours and no etherification but a formation of allyl ethers (II) takes place which corresponds to the Markovnikov rule (Ref 1). The γ -ethyl bromides easily

Card 1/3

MAMEDOV, Shamkhal; ALIYEV, A.F.

Ethers of glycols and their derivatives. Part 32: Synthesis of
monoethers of γ -glycols and their alkoxyethyl derivatives. Zhur.
ob. khim. 28 no.4:923-928 Ap '58. (MIRA 11:5)

1. Azerbaydzhanskiy gosudarstvennyy pedagogicheskiy institut.
(Pentanol) (Butanol) (Ethers)

MAMADOV, Shakhhal

Investigations in the field of simple glycol ethers. Part 31: Synthesis
of simple γ -halide ethers of the fatty series. Khim.ob.khim. 27 no.6:
1499-1507 1977. (USSR 10:8)

1. Azerbaydzhenskiy gosudarstvennyy pedagogicheskiy institut.
(Ethers) (Glycols)

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MAMEDOV, Shamkhal.; ABDULLAYEV, A.I.

Synthesis of dialkoxydimethyl ethers of tetraarylethylene glycol.
Trudy Inst.khim.AN Azerb.SSR 15:99-105 '56. (MLRA 9:11)
(Ethylene glycol) (Ethers)

MAMEDOV, Shamkhal.

Nomenclature of ethers and their derivatives. Izv. AN Azerb. SSR
no.11:11-20 '56. (MLBA 10:2)
(Ethers--Terminology)

MAMEDOV, Shakhai; GIMPELEVICH, E.D.

Investigating the glycol ethers. Izv. AN Azerb. SSR no.10:41-48
0 '56. (MIRA 10:3)
(Glycols) (Polymers)

MAMEDOV, Sh.

Dissertation: "An Investigation in the Field of Simple Esters of Glycol." Dr Chem
Sci, Inst of Organic Chemistry imeni N. D. Zelinskiy, Acad Sci USSR, 18 Jun 54.
(Vechernyaya Moskva, Moscow, 8 Jun 54)

SO: SUM 318, 23 Dec 1954

MAMEDOV, Sh. (Co-author)

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ALIYEV, A. and MAMEDOV, Sh.

"Investigations in the field of the synthesis of simple ethers",
Report 25: Sh. Mamedov and A. Aliyev, "The synthesis of simple monoethers of 1,4-diols from the products of the interaction of alpha-chloro ethers with unsaturated hydrocarbons",
Izvestiya Akad. nauk Azerbaydzh. SSR, 1949, No. 4, p. 106-24, (Resume in Azerbaijani), - Bibliog: 5 items.

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

MAMEDOV, Sh.

Mamedov Sh. and A. Hiyazov, "Research in the area of synthesis of simple ethers,"
Collection 21, "Synthesis of simple bifurcated ethers of methylene glycol,"
Izvestiya Akad. nauk Azerbaydzh. SSR, 1948, No. 9, p. 30-52 - Resumé in Azerbaydzian
language

SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1948).

STANDARD AND ORDER PROCESSES AND PROPERTIES INDEX

ca

Preparation of NaOCH₂CH₂ONa. St. Mamedev

Trudy Akad. Nauk S. S. R., Azerbaidzhan. Filial 55, 187-92 (1938).— Reflux 400 g. freshly distd. anhyd. aniline and 46 g. Na dust, add dropwise a mixt. of 82 g. anhyd. glycol and 100 g. aniline, heat for 4 more hrs., ext. the aniline with ether in a specially constructed app. resembling a Soxhlet extractor. Dry the product with filter paper and keep in a desiccator over CaCl₂ and KOH lumps. Yield, 85% of theoretical. H. Z. Kamich

AYB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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117 AND 118 ORDERS												IND AND 119 ORDERS											
PROCESSES AND PROPERTIES INDEX																							
Preparation of anhydrous pinacol. K. A. Krasuski and Shaukhal Mamadov. <i>J. Gen. Chem.</i> (U. S. S. R.) 8, 17-70(1938).—Contrary to Couturier (<i>Ann. chim.</i> [6], 26, 479(1902)), pinacol hydrate m. 45-6° and not 56°. Anhyd. pinacol m. 43° and not 35-8° as stated by Bellstein and Linnemann. The m. ps. of mixts. of the 2 forms of pinacol are depressed. During the first 7 days of drying the hydrate over KOH the m. p. was lowered successively to 20-30.5° and in the last 3 days was gradually increased to 37-8° because of the decreasing concn. of the hydrate. The max. depression of the m. p. to 20-30° was shown by a mixt. with 18.0% hydrate. Completely dehydrated pinacol can be obtained by drying the hydrate in a desiccator over H ₂ SO ₄ at 34 mm. for 24 hrs. When this pinacol was held in a desiccator over water, its m. p. began to decrease gradually to a min. and then rose by steps to 45-6° when the hydration was complete.																							
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~~MAMEDOV~~ Shirali Nasirovich, professor, doktor tekhnicheskikh nauk;
NESTERENKO, A.F., redaktor; AL'TMAN, T.B., redaktor izdatel'stva

[Shaft working of petroleum deposits] Shakhtnais razrabotka
neftianykh mestorozhdenii. Baku, Azerbaidzhanskoe gos.izd-vo
neft. i nauchno-tekhn.lit-ry, 1956. 128 p. (MLRA 10:8)
(Petroleum engineering)

MAMEDOV. SH. A.

Mamedov. Sh. A. "The scientific principles for the classification of systems of underground dressing of ore", Izvestiya Akad. nauk Azerbaydzh. SSR, 1949, No. 4, p. 90-105, (Resume in Azerbaijani), - Bibliog: 25 items.

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

MAMEDOV, Sh. A.

Mamedov, Sh. A. "The selection of the chief directions in the system of shaft-mining of petroleum," Izvestiya Akad. nauk Azerbaydzh. SSR, 1949, No. 1, p. 61-71, (Resume in Azerbaijani), - Bibliog: 7 items.

So: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 17, 1949).

MAMEDOV, Sh. A.

Mamedov, Sh. A. - "Means for rational utilization of the specific gravity of petroleum in working strata by the mining method," Doklady (Akad. nauk Azerbaydzh. SSR), 1949, No. 1, p. 3-7 --- Summary in azerbaydzhani

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

MAMEDOV, Sh. A.

Mamedov, Sh. A. "On the suitability of a system of level block caving in the mining of pyritic ores," Izvestiya Akad. nauk Azerbaydzh. SSR, 1948, No. 9, p. 107-13 - Resume in Azerbaydzhian language - Bibliog: 15 items

SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

MAMEDOV, S.R.

New method for phosphore removal and desulfuration of steel. Sber.
nauch.-tekh.inform.Azerb.inst.nauch.-tekh.inform.Ser.mashinostrof.
prom. no.3:54-57 '62. (MIRA 18:8)

MAMEDOV, S.R.

Steel for the casting of thick-walled parts for column heads.
Lit. proizv. no.9:48 S '61. (MIRA 14:9)
(Steel castings)

MAMEDOV, S.R.

Core mixture on a sodium silicate base with good knockout properties.
Lit. proizv. no. 5:44 My '61. (MIRA 14:5)
(Coremaking)

MAMEDOV, S.R.

Introducing a quick setting composition on a water-glass base in
making molds for shaped steel castings. Azerb.neft.khoz. 39 no.9:
43-44 S'60. (MIRA 13:10)
(Founding--Equipment and supplies)

SOV/128-59-9-23/25

On the Problem of Deoxidation of Steel by Aluminum

is attainable. In the author's opinion, this proposition cannot be accepted as it implies an overheating of the metal by 100° - 150° C. There are 2 tables and 6 Soviet references.

Card 2/2

18(5,7)

SOV/128-59-9-23/25

AUTHOR:

Mamedov S.R., Engineer

TITLE:

On the Problem of Deoxidation of Steel by Aluminum

PERIODICAL:

Liteynoye proizvodstvo, 1959, Nr 9, pp 47-48 (USSR)

ABSTRACT:

This article deals with the selection of an optimum dosage of aluminum for deoxidation of steel. The author refers to the article by N.N.Dobrokhotoy (appeared in "Liteynoye proizvodstvo" Nr 12, 1958), and criticizes it. He also refers to the opinions of other Soviet experts who state that aluminum affects the plasticity of steel owing to the forming of Al₂O₃ inclusions, and by raising the solubility of iron and manganese oxides. The author indicates that Yu. A. Nekhendzi, I.S.Gayev and V.V.Polovnikov maintain that inoculation of 0.02 - 0.22%Al increases the steel porosity and decreases its compactness. In Fig 1 pertaining figures specifying mechanical and other properties of steel inoculated by aluminum are given. N.N Dobrokhotoy proposes the use of iron-alloys in quantities of 3% of the liquid steel weight, and maintains that in steels alloyed with chrome, manganese and silicon a uniform distribution of elements

Card 1/2

MAMEDOV, SH.O.

21733

MAMEDOV, SH.O. O sistemakh podzemnoy razrobotki rudnykh mestorozhdeniy, Doklady (Akad. Nauk Azerbaydzh SSR), 1949, No.5, S. 201-05 -- Rezyume na azerbaydzh. Yaz.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949

KREMS, A.Ya.; MAMEDOV, Sh.N.; MIRZOYEV, R.Kh.

Concerning the expansion in the use of underground (mining) and
open-pit methods of developing oil fields. Izv. AN Azerb.
SSR Ser.geol.-geog.nauk nefti no.1:51-61 '62. (MIRA 15:5)
(Azerbaijan--Petroleum mining)

MAMEDOV, Sh.N.; OSIPOVA, B.A.

Ground pressure in the Nakhichevan Salt Mine. Izv.AN Azerb.SSR.
Ser.geol.-geog.nauk i nefti no.3:47-58 '61. (MIRA 15:1)
(Nakhichevan A.S.S.R.--Salt deposits) (Rock pressure)

MAMEDOV, Sh.N.; MUKHTAROV, G.G., red.; ZEYNALOVA, T., red. izd-va;
BAGIROVA, S., tekhn. red.

[Effective development of solid mineral deposits in the
Azerbaijan S.S.R.] Ratsional'naiia razrabotka mestorozhdenii
tverdykh poleznykh iskopaemykh Azerbaidzhanskoi SSR. Baku,
Azerbaidzhanskoe gos. izd-vo, 1961. 327 p. (MIRA 15:12)
(Azerbaijan--Mining engineering)

GUSEYNOV, M.M.; SALAKHOV, M.S.; MAMEDOV, S.M.

Exhaustive chlorination of piperylene. Azerb.khim.zhur. no.4:17-
20 '65. (MIRA 18:12)

1. Institut neftekhimicheskikh protsessov AN AzSSR.

GUSEYNOV, M.M.; KICHIYEVA, D.D.; AKHUNDOVA, P.B.; MAMEDOV, S.M.

Thermal conversion of carbon chlorides. Azerb. khim. zhur. no.3:
57-60 '65. (MIRA 19:1)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

ОУСЫНОВ, М.М.; БИШЕВОН, С.С.; СЕЛАНОВ, С.С. КОСМОС

Synthesis of hexadecane derivatives from the fraction of
the pyrolytic separation of gases. *Изв. АН УССР, Сер. Хим. Наук*
1964. № 10. С. 1011-1013. (1964)

MAMEDALIYEV, Yu.G.; GUSEYNOV, M.M.; KICHIYEVA, D.D.; MAMEDOV, S.M.

Producing hexachlorobenzene by the thermal decomposition of carbon perchlorides. Dokl. AN Azerb. SSR 17 no. 2:109-113 '61.

(MIRA 14:4)

1. Institut neftekhimicheskikh protsessov AN Azerbaydzhanskoy SSR.
(Carbon chlorides) (Benzene)

Production of Carbon-chloride Compounds by
Chlorination of Pentanes in a Boiling Catalyst Layer

(7.8)

SOV/20-130-2-39/59

of crystalline products, mainly octachlorocyclopentane. A catalyzate with high content of the desired carbon chloride can be obtained by temperature change, modification of the reactants, contact time, and other characteristics of the process. Also in the case of a considerable chlorine excess, a smooth reaction course without explosion and with high yield in carbon chlorides is ensured. There are 1 table and 1 Soviet reference.

ASSOCIATION: Institut neftekhimicheskikh protsessov Akademii nauk AzerbSSR
(Institute of Petroleum-chemical Processes of the Academy of
Sciences, Azerbaydzhanskaya SSR)

SUBMITTED: September 29, 1959

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67381

Production of Carbon-chloride Compounds by
Chlorination of Pentanes in a Boiling Catalyst Layer

SOV/20-130-2-39/59

paper deals with the chlorination of normal pentane from the rectification of Karadag gas condensate on pumice since the latter proved to be best suitable. The apparatus, and the order of operations, were similar to those in reference 1. Chlorine and pentane, however, were not mixed before but introduced separately into the catalyst. Table 1 shows the investigation results of the catalyzates at 350-450°; $\text{Cl}_2:\text{C}_5\text{H}_{12}=1:1$; chlorine velocity 49 l/h, pentane velocity 14 g/h. It shows that the 1st fraction (boiling out between 75 and 80°) corresponded to CCl_4 . Its constants were near those of pure CCl_4 . The yield in CCl_4 was 10-14% depending on the reaction temperature. The fraction 80-118° was low in quantity and consisted of CCl_4 and C_2Cl_4 . The fraction corresponding to C_2Cl_4 boiled out at between 118 and 123°. The yield was 12-23% of C_2Cl_4 . The fraction 185-235° consisted of hexachlorobutadiene with a small admixture of hexachloroethane. The fraction distilled off at between 235 and 238° corresponded to hexachlorocyclopentadiene (yield 23-40%). The distillation residue consisted

Card 2/3

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5(1)

AUTHORS:

Mamedaliyev, Yu. G., Corresponding
Member AS USSR, Guseynov, M. M.
Mamedov, S. M.

6081 SOV/20-130-2-39/69

TITLE:

Production of Carbon-chloride Compounds by Chlorination of
Pentanes in a Boiling Catalyst Layer

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 2, pp 379-381
(USSR)

ABSTRACT:

The chain reaction of chlorination of alkanes with chlorine excess proceeds explosively and is controlled with difficulty. Carbon black, HCl and other undesired reaction products are formed. Therefore, the authors developed a method of producing carbon tetrachloride, hexachloroethane, ¹tetrachloroethylene, /hexachlorobutadiene/ and hexachlorocyclopentadiene. The method is based on exhaustive chlorination of pentanes in a boiling catalyst layer. The authors made experiments of chlorination of methane, ethane, propane, butane and pentanes, and determined the dependence of the yield in individual carbon chlorides on temperature, reaction time, ratio between reactants, and other characteristics of the process. The production of CCl₄ from methane was described in a previous paper (Ref 1). The present

Card 1/3

MAMEDALIYEV, Yu.G.; GUSEYNOV, M.M.; MISHIYEV, D.Ye.; MAMEDOV, S.M.

Producing hexachlorobutadiene by the chlorination of butane in a fluidized catalyst bed. Dokl. AN Azerb. SSR 16 no. 11:1063-1066 '60. (MIRA 14:2)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.
(Butadiene) (Butane) (Chlorination)

MAMEDOV, S.M.

Establishing groups of saline soils for silvicultural purposes in
the Kura-Aras Lowland. Izv. AN Azerb. SSR, Ser. biol. i sel'khoz. nauk
no. 1:109-116 ' 59. (MIRA 12:1)
(Kura Lowland--Alkali lands)
(Forest soils)

USSR / Plant Physiology. Respiration and Metabolism.

I-2

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 43718

Author : Alekperov, S. E.; Kolotova, M. G.; Mamedov, S. M.;
Khrzhanovskaya, T. Ye.

Inst : AS AzerbSSR

Title : The Rate of Respiration and Activity of Catalysts in the
Leaves of Certain Trees and Bushes Growing on the Saline
Soils of Mil Steppe.

Orig Pub : Izv. AN AzerbSSR, 1957, No. 2, 71-78

Abstract : Experiments were set up in 1951 within the Mil Shirvan
Forest Shelter Belt to study the effect of salinization on
the oak (*Quercus longipes*), the white mulberry tree (*Morus
alba*), the honey locust (*Gleditschia triacanthos*), the
indigobush (*Amlrpha fruticosa*), *Saphora japonica*, the wild
olive *Elaeagnus angustifolia* and the Siberian acacia
(*Caragana arborescens*) growing on two plots: (1) a stongly

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