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Investigations in the Field of Conjugated Systems. IXX.W. The Interaction of Propargylvromide with Aliphatic Aldehyden under the Conditions of the Reformatakiy Reaction, by A. A. Petrov, Yu. I. Porfiryeva and G. I. Semenov, 4 pp. RUSSIAN, per, Zhur Obshch Khim, Vol XXVII, No 5, 1957, pp 1175-1178. Consultants Bureau Sci - Chem 72,844 Sep 58

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Investigations in the Field of Conjugated Systeam. IXXVII. The Order of Addition of Hydrogon Halides to Propenylacetylane, by <u>A. A.</u> Petrov, Yu. I. Porfiryeva, 6 pp. RUSSIAM, per, 2kur Obshch Khim, Vol XXVII, No 1, 1957, pp 2076-2080. Consultante Bureau

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Petron, A. B. THE EFFECT OF THE IMPURITIES IN ARCON ON THE QUALITY OF ARCON-ARC WELDS. [1962].[18]p. Order from CTS or SLA \$1.60 62-20159 Trans. of Avtogennee Delo (USSR) 1952, v. 23, no. 9, p. 5-8.	62-20159 I. Petrov, A. B.
DESCRIPTORS: *Argon, Impurities, *Arc welds, Aluminum alloys, Quality control	
	$a \cup b \ \hat{s} \ (12)$
(Metallurgy, 1T, v. 9, no. 11)	Office of Technical Services

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Petrov, A. D., Ponomarenko, V. A., Michitaryan, L. L., and Snegova, A. D. THE SYN (HESIS AND PROPERTIES OF MONOCHLORO DERIVAT-VES OF ETHYL SILANE CHLORIDES. [1964] 5p (figs conitied) forefs Order from OTS, SLA, or ETC \$1.10 TT-64-14914	TT-64-14914 1. Petrov, A. D. II. Ponomarenko, V. A.	
Trans. of Akademiya Nauk SSSR. Doklady, 1955, v. 100 no. 6, p. 1107-1110.	- 525P	
(ChemistryOrganic, TT, v. 11, no. 11)	fulfline of Technical Berview	

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	Petrov, A. D.	62-14126	
	ANTIKNOCK PROPERTIES AND POUR POINTS OF INDIVIDUAL HYDROCARBONS OF THE DESEL	I. Petrov, A. D.	
	Orden form (M. 1. [1902] op Arets	1	
()	Order from (775 or SLA \$1.10 62-14126		
	Trans. of Alademiya Nauk SSSR. Otdelanie Khimiches- kikh Nauk. Erwestiya, 1941, no. 1, p. 145-155. Also available from OTS or SLA \$2,60 in 61-20795 [1961] 25p.		
	DESCRIPTORS: ^{ejz} uel oll, ^o Antiknock, ^o Hydrocarbons, Methanes, Elbylenes, Naphthenes, Benzanes, Toluenes, Cyclohexanes, Heptanes, Decenes.		
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APPROVED FOR RELEASE: Tuesday, November 13, 2001 Sprachessis of Organosilicon Conorsers, by 55 A. D. Petrov, V. F. Mironov, et al. 492 pp. ALSSIAN, bk, 1964. OXVISUALTANTS BUREAU Sci/Chomistry Mar 68 A. D. Fedren 346,008

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Petroy, A. II. SYNTHETIC LUBRICATING OILS. [1961] 13p 15refs Order from OFS, SLA, or ETC \$1.60 TT-61-16608	TT-61-16608 I. Petrov, A. D.	
Urder from UTS, SLA, or ETC \$1.60 TT-61-16608 Trans. of Khiniya Tverdogo Tupliva (USSR) 1934, v. 5, p. 632-141.		
DESCRIPTOR': *Synthetic lubricants, *Lubricants, *Oils, Polymerization, Aluminum compounds, Chlorides, Electric discharges.		
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(MaterialsLibricants, TT, v. 11, no. 3)	Office of Technical Services	

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Synthesis of Branched Cl2 - Cl6 Acids in the $C_{12}H_{213}$ COOH Serles, by G. I. Nikishin, Yu. N. Ogibin, A. D. Petrov, 6 pp. RUSSSIAN, per, Zhur Obshch Khim, Vol XXX, No 7, 1960, pp 2148-2152. 166,289 CB Sci Ang 6].

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SYNTHESIS OF SILICON-, GERMANIUM-, AND TIN-EGMXXXXXX CONTAINING PARA-SUBSTITUTED STYRENES AND A- METHYLSTYRENES, BY A. D. PETROV, F. A. CHERNYSHEV, 4PP. RUSSIAN, PER, DOK AK NAUK SSSR, VOL CXL, NO 4, 1961, PP 837-840.	
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The Preparation of Organosilicon Derivatives of Bicyclo-(2,2,1)-Septene, by A. D. Petrov, A. F. Plate, E. A. Chernyshev, A pp. RUSSIAN, per, Zhur Chehch Khim, Vol XXXI, No 4, 1961, 1199-1208 CB 196,693 Sci Apr 62 WORLD

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Harang Inderson (1973) (1974) (1984) (1984) (1974) (1975) (1975) (1977) (1975) (197		
	61-16934	
Petrov, A D. and Shchukin, V. I. ISOMERIZATION OF NORMAL HEPTENE TO METHYLD ETHYLENHYLENE AND OF NORMAL OCTENE TO DIMETHYLENTYLETHYLENE. [1961] Sp. 8 refs. Order from OTS or SLA \$1.10 61-16934	I. Petrov, A. D. II. Shchukin, V. I.	
Trans. of .: hurnal Obshchei Khimii (USSR) 1941, v. 11, p. 1092-1035.		
DESCRIPTI)RS: *Octenes, Isomerism, Chain reactions, *Ethylenes, *Hydrocarbons, Raman spectroscopy, Heptenes, Methyl radicals, Ethyl radicals, Butyl radicals.		
Isomerization of normal 1-heptene to methyldiethyl- ethylene and of normal 1-octene to dimethylbutylethyl- ene was established. The difference in the schemes of isomerization of normal olefins into branched chain (ChemistryOrganic, TT, v. 6, no. 9) (over)	Office of Technical Services	* * .
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c.	Petrov, A. D., Varentsova, N. I., and Kokleeva, T. A. SYNTHESIS OF 2-METHYL-4-HEXYNE AND 2,6-DIMETHYL-3-HEPTYNE. [1961] 5p. 12 refs. Order from OT3 or SLA \$1.10 61-16935	61-16935 I. Petrov, A. D. II. Verentaova, N. I. III. Kokleeva, T. A.
	Of der from OTS der SLA \$1.10 61-16935 Trans. of Zhurnal Obahchei Khimii (USSR) 1941, v. 11, p. 1096-1099.	
	DESCRIFTORS: Hydrocarbons, Synthesis, Antiknock, *Fuels, Methyl radicals, *Heptynes, *Hexynes,	
	Synthesis of two new hydrocarbons is reported, 2-methyl-4-hex me and 2,6-dimethyl-3-heptyne. Anti- knock properties of acetylenic hydrocarbons have been evaluated. (Author)	
	(ChemistryOrganic, TT, v. 6, no. 9)	Office of Tochaical Sarvices
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	61-16936	
Petrov, A. D. and Karlik, L. D.	01-10730	
SYNTHESIS OF GLYCOLS OF THE ACETYLENE	L Petrov, A. D.	•
SERIES, [1961] 5p. 16 refs. Order from OTi or SLA \$1. 10 61-16936	IL Karlik, L. D.	
Trans. of Zhurnal Obshchei Khimii (USSR) 1941, v. 11, p. 1100-1103.		
DESCRIPTORS: "Glycols, Synthesis, "Acctylence, Alcohols, Antikuock.		
Synthesis of three acetylenic <i>Y</i> -glycols is reported: 5-decyne-4, 7-d ol, 9-octadecyne-8, 11-diol, 10, 13- dimethyl-11-docosyne-10, 13-diol. The method of synthesis of glycols and alcohols of the acetylene series suggested by L. Kazaryan was tested. Anti- knock propertien of acetylene alcohols and their sus- ceptibility to tetraethyllead was studied. (Author)		
(ChemistryOrganic, TT, v. 6, no. 7)	Office of Technical Services	

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Petrov, A. D. Pavlov, A. M., and Makarov, Yu. A SYNTHESIS OF 3-ETHYLDECANE AND 2,5-DI- METHYLUNDE(ANE. [1961] 3p. 4 refs. Order from OTS or SLA \$1.10 61-16937	61-16937 I. Petrov, A. D. II. Pavlov, A. M. III. Makarov, Yu. A.
Trans. of Zhurral Obshchei Khimii (USSR) 1941, v. 1 p. 1104-1106.	1,
DESCRIPTORS: Synthesis, Antiknock, Halogenation, ⁹ Hydrocarbons, Chain reactions, ⁹ Fuels, Ethyl radicals, Methyl radicals.	
Syntheses of two new paraffins are reported, 3-ethyl- decane and 2,5-dimethylundecane. Antiknock properti and pour points of three normal and branched chain paraffins with 1 i and 13 carbon atoms have been evaluated. (Author)	es
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Petrov, A. I., and Lapaeva, E. L. SYNTHESIS AND PROPERTIES OF SOME HIGHER HOMOLOGS (UP EENZENE. [1961] 5p. 12 rate. Order from O FS or SLA \$1. 10 61-16938	L IL	61-16938 Petrov, A. D. Lapteva, E. L	
Trans. of Zhurnal Obshchei Khimii (USSR) 1941, v. 11, p. 1107-1110.			
DESCRIPTORI: "Senzers, Synthesis, Antiknock, Chain reactions, Hydrocarbons.			
Three new homologs of bemans with branched side chains ware synthesized, methylnonylphenylmethane, discbutylhept lighenylmethane and dimethylpenhadecyl- phenylmethane. Antimeck properties of these and some other representatives of the series CoHeR with branched and mormal paraffin chains were evaluated. (Author)		,	
(Chamistry(Irganic, TT, v. 6, no. 7)		Office of Technicol Services	

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Ocibin, A. D. <u>Setros 143540 FF</u> RUSSIAN, per, Zhur Obsheh Lhim, Vol XXX, Ho Li, 1900, pp 3543-3547 Sci Oct 61. (B)	Synthesis and Properties of Branched Acids, substantial COOH, Corposition C. C. by II. G. I. HUG shin, M. H. Ogibin, A. D. Petrov, 2010 72-	
pp 3543-3547 Sci 177,520		
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51 22 1		61-18176	
	Letrov, A. D., Koptev, V. I., Kaplan, B. P. SYNTHESIS AND PROPERTIES OF ISOPARAFFINS WITH FROM 9 TO 12 CARBON ATOMS. [1961] 5p. 12 refs. Order from OIS or SLA \$1.10 61-18176	1. Title: Isoparaffins 1. Petrov, A. D. 11. Koptev, V. I. 11. Kaplan, E. P.	
	Trans. of Akacemiya Nauk SSSR. Otdelenie Khimi- cheskikh Nauk. Izvestiya, 1944 [no. 1] p. 152-155.		
	DESCRIPTORS "Hydrocarbons, Synthesis, Molecular isomerism, Attiknock, Properties.		
	Synthesis of five isoparaffins with from 9 to 12 carbon atoms and different extent of branching of the chain was effected through the tertiary alcohols by a Grignard reaction; of these, 2, 2, 3, 5-terramethylissane was synthesized for the first time. It was shown that hydro- carbons of the above mentioned composition possessing		
	two quaternary carbons or one quaternary and two tertiary carbon atoms have high octane numbers of the order of about 100. (Author)	Office of Technical Services	
	(Chemistry Cyganic, TT, v. 6, no. 6)		

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	Petrov, A. D. FUEL FOR HIGH SPEED DIESELS. [1961] 7p. 13 refs. Order from O'IS or SLA \$1, 10 61-18010	L Petrov, A. D.	×
4 ²	Trans. of Aka Semiya Nauk SSSR. Otdelenie Khimi- cheskikh Nauk. Izvestiya, 1941, no. 4/5, p. 533-543.		,
	DESCRIPTORik *Diesel engines, *Fuel oil, *Aviation fuels		
	A discussion is given of cracked Diesel fuels and the outlook for synthesis of low pour point components of fuels for aviation Diesels. (Author)		
		Office of Technical Services	
	(Materialsl'uels, TT, v. 6, no. 6)		

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	Petrov, A D., Nikishina, G. 1. and others. THE DEPENDENCE OF THE SURFACE-ACTIVE PROPERTIES AND WASHING CAPACITY OF SOLU- TIONS OF A.LKYL BENZENE SULPHONATES ON THE LENGTH AND STRUCTURE OF THEIR ALKYL CHAIN (Zavinimost' Poverkhnosino-Aktivnykh Svojstv i Moyushchey Sposobnosti Rastvorov Alkilbenzol- sulfonatov of Velichiny i Struktury ikh Alkil'noy Tsepi). May 39 [8]p. 5 refs. C.T S. no. 633. Order from LC or SLA mi\$1.80, ph\$1.80 61-15371 Trans. of Ma.10boyno-Zhirovaya Promyshlennost' (USSR) 1958, v. 24, no. 8, p. 23-29.	61-15371 1. Sulfonates Surface properties 2. Detergents Surface properties 3. Sulfonates Molecular structure I. Petrov, A. D. II. Nikishina, G. I. III. CTS-633 IV. Department of Scientific and Industrial Research (Gt. Brit.)	
	Tests showed that the washing capacity of solutions of alkyl benzene sulphonates depends on the length of the chain and its branches: the longer and the less branched, the greater the washing capacity. Com- pounds having a straight or only slightly branched chain containing 12 carbon atoms are effective at higher temperatures than compounds having a (Materials, TT, v. 5, no. 8) (over)	Office of Technical Services	
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1419/10.000 (SARANG MARANG AND TRADICAL SOCIAL Organomagnesium Synthesis of 2- and 3-(Trimethylsilyl) Acrylic Acids and Vinyl Detrivatives of Bilicon, Germanium, and Tin, by V. F. Mironov, A. D. Petrov, N. G. Maksimova, 7 pp. RUSSIAN, per, Is Ak Hank SSSR, Otdel Khim Hauk, No 11, 1959, pp XHE 1954-1960. CB 153,091 Sci • May 61

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