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KERESZTESI, B.

HUNGARY/Forestry - Forest Cultivation. K-5

Abs Jour : Ref Zhur - Biol., No 9, 1958, 39105.

Author : Kereztesi, B.
Inst : -
Title : The Experimental Study of the Cultivation of Poplars in France and Some Essential Problems Relative to the Cultivation of Poplars in Hungary.

Orig Pub : Erdo, 1957, 6, No 5, 161-169.

Abstract : The poplars, which gave the best results in cultivations in France and which are the best prospects, are indicated. Methods of cultivation applicable to Hungary are reviewed and agronomical recommendations are given in this paper.

Card 1/1

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KEREKTESI, B.

AGRICULTURE

Periodical ERDESZETTUDOMANYI KOZLEMENYEK. No. 1, 1958

KEREKTESI, B. Our forestry on the road to the construction of socialism
p. 257

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5,
May 1959, Unclass.

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KERESZTESI, B.

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Conditions and tasks of our forestry management in the second three-year plan; also, remarks. p. 6.

Vol. 8, No. 1, Jan. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 3, March 1959 Unclass.

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KERESZTESI, B.; BENCZE, L.; SZILARGYI, L.

Situation of forest protection in the countries of the Council for Economic Mutual Assistance. p. 290.

AZ ERDO. (Orszagos Erdeszeti Egyesulet) Budapest, Hungary, Vol. 8, no. 8, Aug. 1959.

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KERESZTESI, Bela, a mezogazdasagi (erdeszeti) tudomanyok doktora

Some problems of forestry research. Magy tud 69 no.1:39-41 Ja '62.

1. Igazgato, Erdeszeti Tudomanyos Intezet.

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KERESZTESI, Bela, dr., a mezogazdasagi tudomanyok (erdeszet) doktora

One century in the forestry development service; Az Erdeszeti Lapok, 1862-1961. Erdo 11 no.8:358-369 Ag '62.

1. "Az Erdo" szerkesztoje.

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KERESZTESI, Bela, dr., a mezogazdasagi tudomanyok doktora; JARO, Zoltan, dr., a mezogazdasagi tudomanyok kandidatusa

Forestry research in the Rumanian People's Republic. Erdo 11 no.11: 500-510 N '62.

1. Erdeszeti Tudomanyos Intezet igazgatoja, Budapest. 2. Erdeszeti Tudomanyos Intezet tudomanyos munkatarsa, Budapest.

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KERESZTESI, Bela, dr., a mezogazdasagi tudomanyok (erdeszet) doktora

The 1962 work of the Institute of Forestology. Erdo 12 no.1: 16-22 Ja '63.

1. Erdeszeti Tudomanyos Intezet igazgatoja, Budapest, es "Az Erdo" szerkesztoje.

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KERESZTESI, Bela, dr., a mezogazdasagi tudomanyok (erdeszet) doktora;
DERFOLDI, Antal

On a study trip to the Bulgarian People's Republic. Erdo 12. no.2:77-84 F '63.

1. Erdeszeti Tudomanyos Intezet Nyarfakutato Kiserleti Allomasanak vezetoje, Sarvar "Az Erdo" szerkesztoje (for Keresztesi).
2. Erdeszeti Tudomanyos Intezet tudomanyos osztalyvezetoje, Budapest (for Derfoldi).

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KERESZTESI, Bela, dr., a mezogazdasagi tudomanyok (erdeszet) doktora

Remark about the Hungarian policy on the variety of trees. Erdo 12 no.6:258-263 Je '63.

1. Erdeszeti Tudomanyos Intezet igazgatoja,, Budapesti; "Az Erdo" szerkesztoje.

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KERESZTESI, B.

The shipmast type Robinia pseudoacacia in Hungary. Acta agronom Hung 12 no.3/4:305-320 '63

1. Institut fur Forstwissenschaften, Budapest.

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KERESZTESI, Bela, dr., a mezogazdasagi tudomanyok (erdeszet) doktora

Beauty of forests and trees. Erdo 13 no.4:155-166 Ap'64

1. Erdeszeti Tudomanyos Intezet igazgatoja, Budapest; "Az Erdo" szerkesztoje.

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KERESZTESI, Bela dr., a mezogazdasagi tudomanyok (erdeszet) doktora

"World conference for forestry genetics and improvement" by K. Holzer, Reviewed by Bela Keresztesi. Erdo 13 no.4:190-191 Ap'64.

1. Erdeszeti Tudomanyos Intezet igazgatoja, Budapest; "Az Erdo" szerkesztoje.

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KERESZTESI, Bela, dr., a mezogazdasagi tudomanyok (erdeszet)doktora;
SITKEY, Janos

Second conference arranged by the Permanent Working Group of Forestry, Council of Mutual Economic Assistance. Erdo 13 no.7: 297-299 Jl '64.

1. Director, Scientific Institute of Forestry, Budapest; Editor, "Az Erdo" (for Keresztesi). 2. Head, Department of Forest Management, National Main Directorate of Forestry, Budapest (for Sitkey).

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KERESZTESI, Bela, dr., a mezogazdasagi tudomanyok (erdeszet) doktora

Report on the work of the Hungarian Institute of Forest Sciences in 1963. Erdo 13 no.3:114-125 Mr '64.

1. Director, Scientific Institute of Forestry, Budapest; Editor, "Az Erdo".

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BABOS, Imre, dr., a mezogazdasagi tudomanyok (erdeszet) doktora; JARO, Zoltan, dr., tudomanyos fomunkatars; KERESZTESI, Bela, dr., a mezogazdasagi tudomanyok (erdeszet) doktora

Poplar growing on the "Jelen" game and forest farm. Erdo 13 no.11:495-505 N '64.

1. Scientific Division Head, Scientific Institute of Forestry, Budapest (for Babos). 2. Scientific Institute of Forestry, Budapest (for Jaro). 3. Director, Scientific Institute of Forestry, Budapest (for Keresztesi).

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KERESZTESI, Bela, a mezogazdasagi (erdeszeti) tudomanyok doktora

Research on lumbering and mechanization at the Scientific Institute for Forestry. Magy tud 69 no.9:585-586 S '62.

1. Erdeszeti Tudomanyos Intezet igazgatoja.

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KERESZTESI, Bela, dr., a mezogazdasagi tudomanyok (erdeszet) doktora

Hungarian forestry research in the past 10 years. Erdo 13 no.10:447-450 O '64.

1. Editor, "Az Erdo", Budapest.

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KERESZTESI, Bela, dr., a mezogazdasagi tudomanyok (erdeszet) doktora

Mechanization of forestry work and the improvement of its quality in Ukraine. Erdo 14 no.3:137-138 Mr '65.

1. Editor, "Az Erdo", Budapest.

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KERESZTESI, Ferenc

Organizational forms of technical education and further education of workers. Epites szemle 5 no.8:244-246 '61.

1. Epitesugyi Miniszterium Munkaugyi Foosztalyanak osztalyvezetoje.

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KERESZTESI, I.

"The pulverizer built in the dust-remover." p. 4. "Forward for the success of the peace contest of the election!" p. 5. "The correct treatment of Simmer rings." p. 6. "The cleaning of the exhaust stack with the boring mill." p. 6. (AUTO MOTOR, Vol. 6, no. 9, May 1953. Budapest.)

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KERESZTESI, Istvan

Stonecutting industry and the five-year plan. Magy ep ip 10 no.3:106-113 '61.

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KERESZTES, Istvan

Mechanization of the fattening of pigs on collective farms.
Mezogazd techn 1 no.12:18 '61.

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KERESZTESI, Istvan

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KERESZTESI, Istvan

Characteristics of American passenger cars in 1957. Jarmu mezo gep 5 no.1:12-13 Mr '58.

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KERESZTESI, Jozsefne

For the success of competitions for obtaining Olympic badges. Munka 10 no.5:26 My '60.

1. Szakszervezetek Orszagos Tanacsa sportosztalyanak munkatarsa

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KERESZTESI, Jozsefne

On the threshold of the recreation season of trade unions.
Munka 14 no.5:32 My'64.

1. Sports Division, Central Council of Hungarian Trade Unions.

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KERESZTESI, Laszlo

Let us control the education on the prevention of industrial accidents. Munka 4 no.2:25-26 F'54

1. Kozlekedesi es Szallitasi Dolgozok Szakszervezete Munkavedelmi Osztalya vezetoje.

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REIS, Laszlo, okl.mernok (Budapest); KERESZTES, Lorand, okl.mernok (Budapest)

Operational and designing experiences with mine railways.
Bany lap 94 no.7:443-448 Jl '61.

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KERESZTESI, Zoltan

"Life Pictorial Atlas of the World." Reviewed by Zoltan Keresztesi. Foldrajzi ert 11 no.1:181-183 '62.

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SZEGO, Miklos, Kossuth-dijas; KERESZTESSY, Arpad

Resistance capacity of aluminum sheets to corrosive agents occurring frequently in the milk industry. Elelm ipar 14 no.3:94-95 Mr '60.

1. Tejipari Kozponti Laboratorium.

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JOHAN, B.; SZABO, A.; KERESZTESSY, E.

Combined fermentation. I. Trichothecium - Penicillium fermentation. Acta microb.hung. 6 no.4:315-326 '59.

1. Institute of Serum and Vaccine Production «Phylaxia", Budapest.
(FUNGI)
(PENICILLIUM)
(ANTIBIOTICS)

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MAGYAR TEXTILTECHNIKA.
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Budapest, Hungary

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KERESZTESSY, Zoltan

The Szeged building of the Hungarian State Railways consisting of 24 dwelling units. Vasut 15 no.3:26 Mr '65.

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FEHER, Gyula; KERESZTI, Alfred

Sanitary aspects of rural water supply from a common well. Nepegeszsegugy 42 no.6:169-176 Je '61.

1. Kozlemeny az Orszagos Kozegeszsegugyi Intezet (foiguzgato: Bakacs Tibor dr.) egeszsegugyi muszaki osztalyarol)

(RURAL HEALTH) (WATER SUPPLY)

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KERESZTI, Gedeon, dr.

Irrigation of the maxillary sinus in infants and children under Vinydan anesthesia. Orv. hetil. 105 no.50:2377-2378 13 D '64.

1. Kaposvari Korhaz, Ful-, Orr-, Gegeosztaly.

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KERESZTSZEGHY, Andor

An alarm clock-radio set combination. Radiotechnika 15 no.3: 118-119 Mr '65.

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Keresztúri, S.

Experiences gained during the use of apartment houses. p. 107.

EPITESUGYI SZEMLE. Budapest, Hungary. No. 4, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

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KERESZTURI, S.; HILLER, J.

Why are time norms needed? p. 167.

EPITESUGYI SZEMLE. Budapest, Hungary. No. 6, 1959.

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KERESZTURI, Sandor, dr.; KOCZISZKY, Barnabas

Comparison between the proportions of mechanical and manual work in the construction industry. Epites szemle 5 no.7:211-217 '61.

1. Epitesugyi Miniszterium Epitestechnikai es Epitesgazdasagi Iroda tudomanyos osztalyvezeteje (for Kereszturi) 2. Epitesugyi Miniszterium Epitestechnikai es Epitesgazdasagi Iroda tudomanyos csoportvezetoje (for Kocziszky)

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KERESZTURI, Sandor, dr.

Current problems relating to the development of specialization and cooperation in the construction industry. Epites szemle no.8:236-240 '62.

1. Epitesugyi Miniszterium Epitesgazdasagi es Szervezesi Intezet tudomanyos osztalyvezetoje.

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KERESZTURI, Sandor, dr.

Possibilities for the international comparison of technical level in the construction industry. Epites szemle 7 no.4: 101-104 '63.

1. Epitesgazdasagi es Szervezesi Intezet tagozatvezetoje.

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KERESZTURI, Sandor, dr.

Methodological questions of international comparison.
Epites szemle 7 no.6:165-171 '63.

1. Epitesugyi Miniszterium Epitesgazdasagi es Szervezesi Intezet tagozatvezetoje.

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KERESZTURY S.

3

Effect of colchicine, podophyllin, and nitrogen mustard on the resting cells of the organs. L. Matkó, L. Hoizinger, and S. Keresztury (Med. Univ., Debrecen). *Acta Morphol. Acad. Sci. Hung.* 8, 299–312(1958)(in English); cf. *C.A.* 48, 2281*b*.—The 3 compds. were fed to rats and the diams. of cell nuclei from liver, kidney, and heart (organs with low mitotic activity) were measured. The diams. were increased in all cases and distribution curves for the results are given. The changes were reversible. "Inclusion bodies," which may be altered nuclei, were seen in kidney and liver cells. Conclusion: the karyoclastic substances affect both dividing and nondividing cells, causing changes in nuclear size. H. B. Collier

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KERESZTURY, Sandor; ORSOS, Sandor

Epulis connatalis. Kiserletes Orvostudomany 11 no.1:102-106 Feb 59.

1. Debreceni Orvostudomanyi Egyetem Korbonctani Intezete es Stomatologiai klinikaja.

(GIANT CELL TUMORS, pathol.
epulis, congen., on alveolar process of mandible in newborn, histopathol. (Hun))
(GINGIVA, neoplasms
same)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721520019-4

KERESZTURY, Sandor; SIMABSZKY, Janos

Aneurysms of the ductus Botalli. Kiserletes Orvostudomany 11 no.1: 107-112 Feb 59.

1. Debreceni Orvostudomanyi Egyetem Korbonctani Intezete.
(DUCTUS ARTERIOSUS, aneurysm
pathol. & histopathol., case reports (Hun))

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721520019-4

TORNAI, Alajos, dr.; LUKO, Geza, dr; KERESZTURI, Sandor, dr.

Cholecystitis in newborn and older children. Orv. hetil. 101 no.17:601-604 24 Ap '60.

1. Debreceni Orvostudomanyi Egyetem, Gyermekklinika, I. sz. Sebeszeti Klinika, Korbonstani Intezet.
(INFANT NEWBORN dis.)
(CHOLECYSTITIS in infant & child)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721520019-4

VALU, Laszlo; KERESZTURY, Sandor

Epibulbar primary reticulum cell lymphosarcoma. Szemeszet 97 no.3: 170-173 S '60.

1. A debreceni Orvostudomanyi Egyetem Szemklinikajanak (igazgato: Kettesy Aladar egyetemi tanar, az orvostudomanyok doktora) es Korbonctani Intezetenek (Igazgato: Endes Pongrac egyetemi tanar, az orvostudomanyok doktora) kozlemenye.
(SARCOMA, RETICULUM CELL case reports)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721520019-4

KERESZTURY, Sandor, dr.; KORAKO, Agnes, dr.; GAL, Janos, dr.

Retrospective observations on lymph node changes in children. Gyermekgyogyaszat 12 no.11:349-352 N '61.

1. A debreceni Orvostudomanyi Egyetem Korbonctani Intezete (Igazgato: Endes Pongrac dr. egyetemi tanar), Gyermekklinikaja (Igazgato: Kulin Laszlo dr. egyetemi tanar) es I.sz. Sebeszeti Klinikaja (Igazgato: Szeleczky Gyula dr. egyetemi tanar)

(LYMPH NODES pathol)

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KERESZTURY, S.; MEGYERI, L.

Histology of renal pyramids with special regard to changes due to aging. Acta Morph. Acad. Sci. Hung. 11 no.2:205-215 '62.

1. Department of Pathological Anatomy, University Medical School, Debrecen (Director: Prof. P. Endes)

(KIDNEYS anat & histol) (AGING)

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LEOVEY, Andras, dr.; DAN, Sandor, dr.; KERESZTURY, Sandor, dr.

Progressive diencephalo-panhypopituitary disease. Magy. belorv. arch. 15 no.6:224-227 D '62.

1. A Debreceni Orvostudomanyi Egyetem II. sz. Belklinikajanak (Igazgato: Petranyi Gyula dr.) es Korbonctani Intezetenek (Igazgato: Endes Pongrac dr.) kozlemenye.

(SIMMOND'S DISEASE) (DIABETES MELLITUS)
(DIENCEPHALON)

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MOLNAR, Lajos; KERESZTURY, Sandor

Malignant reticulosarcoma developing from lymphomatous hyperplasia of the lacrimal caruncula. Szemeszet 100 no. 2:113-115 Je '63.

1. A debreceni Orvostudomanyi Egyetem Szemklinikajanak (Igazgato: Kettesy Aladar egyetemi tanar) es Korbonctani Intezetenek (Igazgato: Endes Pongrac egyetemi tanar) kozlemenye.
(LACRIMAL APPARATUS) (SARCOMA, RETICULUM CELL)
(LYMPHOID TISSUES)

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IVANKIEVICZ, Denes, dr.; KERESZTURY, Sandor, dr.

Oral metastasis from a Wilms' tumor. Fogorv. szemle 58 no.12: 374-377 D '65.

1. Kozlemeny a Miskolci Semmelweis Korhaz (igazgato: Galambos, Laszlo, dr.) Szajsebeszeti (foorvos: Ivankievicz, Denes, dr.) valamint Korbonctani es Korszovettani Osztalyarol (foorvos: Keresztury, Sandor, dr.).

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KERESZTY, A.

Cold pressor tests in athletes. Orv. hetil. 94 no.39:1075-1079 27 Sept 1953. (CLML 25:5)

1. Doctor. 2. Medical Department (Head -- Prof. Dr. Alfonz Keresztу) of Hungarian Physical Training School.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721520019-4

KERESZTY, Alfonz, az orvostudomanyok kandidatusa

Sports achievements and science. Elet tud 19 no.42:1971-1975
16 O '64.

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PROCESSES AND PROPERTIES INDEX

Stable preparations of oxides, hydroxides and carbonates of alkali or alkaline earth metals. György Kereszty. Hung. 113,631, Jan. 2, 1936. The powd. compds. or mixts. are impregnated with fat-like materials (petrolatum, ceresin, paraffin, lanolin, montan wax, sulfonated fats or oils, etc.) which are unsaponifiable in the cold in amounts of 5 to 10%. Then the mass is pressed into forms and coated by spraying with the fat-like material.

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Ca

12

Protein-rich fodders. György Kereszty. Hung. 111,-750, March 16, 1935. Dry or green fodder in the form of grits, bran, flour or pulp is mixed with skim milk, and milk proteins are pptd. by treatment with acids, sour milk or rennet. The procedure may be repeated several times.

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PROCESSES AND PROPERTIES INDEX

Washing agent. György Keresty. Hung. 113,633, Jan. 2, 1936. A mixt. of powd. dry alkali carbonates and CaO or $Ca(OH)_2$ is treated with hydrocarbons, bitumens, waxes, various salts of fatty acids and derivs. of highly sulfonated fatty acids which are unsaponifiable in the cold. Soap particles or powder may be added. The mixt. can be stored without decompn. and can be added directly to the warm water with the articles which are to be washed.

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PROCESSES AND PROPERTIES INDEX

27

Saponifying agent. György Kereszty. Hung. 117,-459, Dec. 16, 1937. One or more alkali carbonates and one or more alk. earth oxides or hydroxides are pressed to forms of a given wt. which can be added directly to the soap boiler. They can be protected against atm. effects by coating with hydrocarbons, bitumens, salts of fatty acids, waxes, highly sulfurated fatty acids, etc. The finely dispersed carbonates of alk. earth metals (chiefly $CaCO_3$) remain within the soap and by their mechanical properties increase the detergent activity.

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Bordeaux mixture. Mrs. Gyorgy Keresty. Hung. 119,243, Oct. 15, 1938. $CuSO_4$, $CuCO_3$ and $Ca(OH)_2$ are brought together in proportions to produce a pulpy ppt. contg. 20-70% water. Excess water is removed under an indifferent gas (N), the mass is made storable by adding various protective colloids (3-5% sugar, molasses, albumin) and hygroscopic substances (1-5% glycerol, glycol, $CaCl_2$). By dilu. with water Bordeaux spray is prepd. from the stored pulp.

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PROCESSES AND PROPERTIES INDEX

Pentahydroxyfuchsone derivatives. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf). Austrian 154,147, Aug. 25, 1938 (Cl. 12e). See Fr. 818,504 (C. A. 32, 2544[1]).

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3RD AND 4TH ORDERS

10

Sulfones containing amino groups. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Kereszty, és Wolf). Hung. 120,021, Feb. 15, 1939. Aromatic compds. are treated with arylsulfonyl halides (e. g., acylaminosulfonyl chloride) in presence of condensing agents (e. g., $AlCl_3$) used in the Friedel-Crafts reaction. One or both components must contain acylamino groups or amino groups neutralized with acid groups.

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18

Alkali hydroxides. Gyorgy Kereszty. Hung. 130,280, March 16, 1939. Alkali salts and oxides or hydroxides of alkaline earth metals are mixed, powd., pressed to form and placed in suitable filtering cases. Such packages may be added in chemical operations (soap production, sapon., neutralization, etc.) directly to the soln. The water penetrates the filtering layers and dissolves the agents. The alkali hydroxide diffuses into the liquid, while the ppts. of alk. earth salts remain within the filter case. If desired, the alkali salt may be added directly to the soln. and only the alk. earth oxide or hydroxide placed in the filtering case.

A58-55A METALLURGICAL LITERATURE CLASSIFICATION

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CA

15

Agent for combating coccids. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Kajszáty és Wolf) Hung. 125,881, June 15, 1940. Aminothiazole or its derivs. substituted in the heterocycle or on the amino group are acylated with acylated 4-aminoarylsulfonyl halides. The acyl group on the acylaminoarylsulfonyl is then removed by alk. hydrolysis. The product is a sol. cryst. compd.

NYW SCA METALLURGICAL LITERATURE CLASSIFICATION

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10

2-Amino-5-pyridinesulfonamides and their derivates. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Keresztty és Wolf). Hung. 124,130, July 15, 1940. 2-Arylamino-5-pyridinesulfonyl bromides, in which the amino N may contain also an alkyl, an aralkyl or a second aryl group, are treated with ammonia or amines.

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17

Acid esters of estradiol. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf). Hung. 126,012, Jan. 16, 1941. Addn. to Hung. 123,251. Estradiol etherified in its phenol OH by a benzyl or substituted benzyl group is converted to the ester of a polybasic acid (e. g., by treatment with succinic anhydride), and the benzyl or substituted benzyl group is removed from the products by reduction. The acid esters may be converted to alkali salts (e. g., the sol. 17-estradiol sodium succinate). Cf. *C. A.* 35, 1180[1].

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10

2-Alkyl-6-amino-4-pyrimidols. Chinoin Gyógyszer- és Vegyészeti Termékek Gyára R. T. (Dr. Keresztty és Dr. Wolf). Hung. 120,792, May 1, 1941. Compds. of the general formulas RC(:NH)X and YC(:NH)CHZCO$_2$R', where X is amino and Y is alkoxy, or X is alkoxy and Y is amino, R is alkyl and Z is H, alkyl, carbalkoxymethyl, aryl or aralkyl, are made to react in Na alcoholate.

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10

ca

Acyl derivatives of polyhydroxyfuchsone. Chinoin Gyógyszer- és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf). Hung. 126,327, March 17, 1941. Fuchsones that contain at least 3 phenol OH groups (at least two of the benzene rings contg. OH groups in ortho position) and part of which are etherified are acylated by known methods. Besid-s OH groups there may be present also other substituents. The acylation can take place before fuchsone formation or simultaneously with it.

COMMON ELEMENTS

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Ca

17

Crystalline glucosides from the leaves of Digitalis lanata. Chinoin Gyógyszer- és Vegyészeti Termékek Gyára R. T. (Dr. Keresty és Dr. Wolf). Hung. 126,943, June 3, 1941. The leaves are kneaded with MgO and water, extd. with a solvent immiscible with water (e. g., EtOAc), evapd., the residue extd. with ether or benzene and the undissolved fraction recrystd. from water contg. 15% or less alc. The product is again recrystd. from an org. solvent (dioxane or ethyl methyl ketone). The yields are better if the digitalis leaves are previously extd. by benzene or other solvent.

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CA

10

Nitrile ethers of α-cyano-β-mercaptoacrylic acid and their transformation to pyrimidine compounds. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf). **Hung.** 128,404. Dec. 1, 1941. Esters of $HC(SH)_3$ are condensed with $CH_2(CN)_2$ in the presence of anhyd. AcOH. Eventually the deriva. are further condensed in anhyd. alc. to pyrimidine compds. I. Finály

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17

Sulfanilamide derivative suitable for injection. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf). Hung. 129,034, Feb. 3, 1942. Addn. to Hung. 126,718. A mixt. of 50 g. sulfanilamide, 75 g. anhyd. Na formaldehydesulfoxylate, and 100 cc. water is heated at 80° for 20 hrs., cooled, and poured into 500–800 cc. abs. EtOH; after a time, the liquid is decanted, the residue rubbed with 200 cc. abs. EtOH, filtered, washed with abs. EtOH, and dried. The product (90–100 g.) is easily sol. in water; the aq. soln. can be kept in air for days without any turbidity. For each 2 Na atoms the product contains 3 S atoms. I. Finkly

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Ed

Acylated estradiol derivatives. Chinoin Gyógyszer- és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf). Hung. 126,733, May 1, 1941. Adds. to Hung. 123,251. Estradiol etherified in its phenolic hydroxyl by a benzyl or a substituted benzyl group is acylated with an agent contg. 15–18 C atoms (e.g. stearoyl chloride). The benzyl or substituted benzyl group is then removed by catalytic hydrolysis.

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17

Estrogenic substances. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kerenty és Dr. Wolf). Hung. 128,903, Jan. 2, 1942. 3,4-Bis(*p*-hydroxyphenyl)-hexane 1.3 g., pyridine 5 cc., and propionyl chloride 1.4 cc. are heated on the water bath, cooled, and dild. with water. The sepd. oil is taken up with ether, the ether soln. is freed of pyridine by washing with 5% H_2SO_4, again washed with dil. $NaHCO_3$, and the ether is evapd. to give a dipropionate, m. 119-20°. The distearate, m. 63°, the diacetate, and the dibenzoate can be obtained in similar manner. Cf. *C.A.* 36, 7544[6]. I. Finkly

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17

Water-soluble vitamin K preparation. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf). Hung. 130,094, Aug. 17, 1942. Methyl-1,4-naphthoquinone 6.8 g., $NaHSO_3$ 6.0 g., and water 20 cc., heated on the water bath, shaken, and filtered, give about 4 g. cryst. product with 2 mols. water of crystn., m. 115-16° (decompn.). István Finály

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CA

10

Esters of diethylstilbestrol. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf). **Hung. 130,143.** Sept. 15, 1942. (*p*-HOC$_6$H$_4$CEt:)$_2$(I) 80 g. is heated with 700 cc. anhyd. EtCO$_2$H and 5 cc. C$_5$H$_5$N 7 hrs. on a water bath, poured into water, let stand 24 hrs., and the product filtered, washed with water, dried, and recrystd. from EtOH to obtain 92.8 g. of the dipropionate of I, m. 105-6°. The mother liquors are evapd. to 50 cc. and the product recrystd. gives 7.6 g. of a new isomer of the dipropionate of I, m. 71-2°. This is dissolved in 140 cc. EtOH and hydrogenated in the presence of 4 g. active C covered with Pd (10-20% Pd), then washed out with EtOH and recrystd. to obtain 7.3 g. 3,4-*bis*(*p*-hydroxyphenyl)hexane, m. 124-6°.

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17

Glycosides of Digitalis lanata. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf). Hung. 130,209, Oct. 1, 1942. Digitalis leaves (10 kg.) pretreated with benzene are treated with 2.5 kg. MgO and 4-5 l. ice water, then extd. with acetone. The ext. is evapd. at room temp. in vacuo, the aq. soln. is satd. with an inorg. salt, e.g. $(NH_4)_2SO_4$, and shaken out with 10-15 l. AcOEt, and the ext. dried and evapd. in vacuo. The residue is treated with 3 l. ether, and the undissolved part dried and dissolved in 225 cc. 96% EtOH, dild. with water to 1500 cc., shaken out with 1500 cc. benzene or ether, let stand in a refrigerator, filtered, and dried. Cf. *C.A.* 34, 6770[1]; 35, 7650[1]. István Finály

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17

Mono ethers (and their derivatives) of bis(hydroxyphenyl)hexane and -hexene. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf). **Hung.** 131,474, Mar. 16, 1943. The hydroxy compds. are treated with an amount of alkylating agent insufficient for total alkylation, or the diethers are partially hydrolyzed. An example is given of the etherification of $(p\text{-}HOC_6H_4CHEt)_2$ with Me_2SO_4 and hydrolysis to the monomethyl ether, m. 119-21°. 3-(*m*-HOC_6H_4)-4-(*p*-$MeOC_6H_4$)C_6H_{12} in pyridine, treated with propionic anhydride, kept for 1.5 hrs. at 125°, cooled, washed out with water, and recrystd. from dil. methanol gave 710 mg. propionate, m. 85°, showing strong estrogenic effect. 3,4-bis(*p*-hydroxyphenyl)-3-hexene, m. 111-16°, has a strong and durable estrogenic effect. Two g. of this product in 3 cc. pyridine treated with 1-2 cc. propionic anhydride, gave 1.3-5 g. of the propionate, m. 61-2°, with strong and durable estrogenic effect. István Finály

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17

Steroid alcohol derivatives. Chinoin Gyógyszer és Vegyész ti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf) and Zoltán Pokli. **Hung. 131,146, Mar. 1, 1943.** Steroid alcs. are treated with acetals, enol ethers, hemiacetals, thio enol ethers, and derivs. contg. 2 halogen atoms in place of carbonyl O or 1 halogen atom in place of OH groups of enol forms of various ketones or aldehydes. E.g., (1) 3.86 g. cholesterol and 3.5 cc. cyclohexanone diethyl acetal are treated on an oil bath for 45 min. at 135–40° or 180–85° and the residue rubbed with 30 cc. dry acetone contg. 10–12 drops of pyridine, filtered, and washed with acetone to give 3.7–9 g. of a product m. 110–111°, α_D −38° (benzene); (2) the same ingredients treated under 225 mm. Hg at 125° for 1 hr., treated with 40 cc. acetone contg. 10 drops of pyridine, cooled, then rubbed with 20 cc. dry acetone contg. some pyridine, and washed with acetone gave a mixed acetal of cyclohexanone formed from cholesterol and alc., m. 80–9°; (3) 3.86 g. cholesterol and 3 cc. cyclohexanone enol ethyl ether are treated at 140–170° as under (1) to yield the cholesterol ether of the enol form of cyclohexanone; (4) by heating the K salt of cholesterol and excess benzal chloride the acetal of benzaldehyde formed from cholesterol is obtained; (5) 1 mol. cholesterol K salt is heated with excess amounts of 1-chloro-1-cyclohexene, then treated with acetone as under (1); (6) 3.86 g. cholesterol and 5 cc. cyclohexanone diethyl acetal are kept at 130–5° for 1 hr., then heated on a water bath under 1 mm. for 3–4 hrs. and the residue dissolved with 5 cc. benzene and 40 cc. of dry isopropyl alc. contg. some pyridine. The product, the acetal of cyclohexanone formed from 2 mols. cholesterol, m. 177–9°; (7) 2 g. dehydroandrosterone and 2.4 cc. cyclohexanone diethyl acetal are treated for 30 min. at 135–40°, then heated to 180–5° and kept there for 45 min., cooled, and 2 cc. MeOH contg. some drops of pyridine added to give 2.1–3 g. of an ether of the enol form of cyclohexanone formed with dehydroandrosterone, α_D −6° (benzene). This product in propyl alc. soln. treated with metallic Na gives the deriv. of 3,17-androstendiol substituted in the 3-OH group by the enol form of cyclohexanone, m. 161–4°, α_D −52° (benzene).

István Finály

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17

Sulfonamide derivatives. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R.T. (Dr. Kereszty és Dr. Wolf). Ger. 749,007, Oct. 26, 1943 (Cl. 12*i*, 6.03). Acylated deriva. of 2-aminothiazole contg. 2 arylsulfo groups are treated in the presence of pyridine, with a heterocyclic compd. contg. 1 amino group. M. Hosch

Biological products from histamine and proteins. Parke, Davis & Co. Brit. 562,160, June 21, 1944. A product effective against compds. of histaminelike properties present in the body in allergic manifestation is obtained by coupling a protein with histamine isocyanate or with a deriv. of histamine in which the amino group, is substituted by an isocyano group, an α-halo-acyl group, a diazo group, or a carboxy-halide group. The product is administered to animals, and from their blood a serum effective against histamine and histaminelike compds. is obtained. J. Davidson

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2d

10

New thiourea derivatives. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kernszty & Dr. Wolf). **Belg. 452,610.** Nov., 1943. Isothiourea derivs. are subjected to alcoholysis or hydrolysis, and, if necessary, the amino groups subsequently converted by saponi., reduction, or treatment with NH_3. A. P.-C.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

Ca

New isothiourea derivatives. Chinoin Gyogyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty & Dr. Wolf). Belg. 452,591, Nov., 1943. $NH_2C(SR):NH$ derivs., where R is alkyl, aryl, or aralkyl, are treated with acylating agents capable of introducing an $AYSO_2$ group, where A = amino, acylamino, alkylamino, or acylalkylamino and Y is a phenyl radical, etc. A. P.-C.

COMMON ELEMENTS

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COPEN

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CA

17

Sulfonamide derivatives. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Keresztty és Dr. Wolf). **Hung.** 131,675, *Mar.* 16, 1943. Compds. with the general formula AYSO$_2$HNCSNH$_2$, where A is amino, alkylamino, acylamino, or acylalkylamino, and Y is aryl or a heterocyclic group, are treated with α-halo ketones or α-halo aldehydes or their acetals, hemiacetals, halogen acetals, or esters of enol forms. Examples given are 2-(*p*-aminophenylsulfonamido-)4-methylthiazole, m. 237°, 2-(*p*-acetamidophenylsulfonamido)-4,5-dimethylthiazole, m. about 204°, 2-(*p*-aminophenylsulfonamido)-4,5-dimethylthiazole, m. about 248°, 2-(*p*-acetamidophenylsulfonamido)-4-ethylthiazole, m. about 218°, 2-(*p*-aminophenylsulfonamido)-4-ethylthiazole, m. about 134°, 2-*p*-acetamidophenylsulfonamido-4-methyl-5-chlorothiazole, decomp. about 217°, and 2-(*p*-aminophenylsulfonamido)-4-methyl-5-chlorothiazole, decomp. about 200°. I. F.

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PROCESSES AND PROPERTIES INDEX

Aminothiazole derivatives. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf). **Hung. 133,776.** Nov. 1, 1947. Additional patent to Hung. 131,175. (Aryl-sulfonyl)thioureas are condensed with α-halo carboxylic acids or their derivs., such as esters, and the products are hydrolyzed or deacetylated. (a) $ClCH_2CO_2Et$ (I) 7.5, p-$AcNHC_6H_4SO_2NHCSNH_2$ (II) 10.5 g., and C_5H_5N 18 cc. are warmed to about 40°, then heated on a water bath 15 min., and 150 cc. water added to give 75% cryst. *2-(p-acetamidophenylsulfonamido)-4-hydroxythiazole* (III), m. 258-9°. (b) I 12.5, II 23 g., and C_5H_5N 30 cc. are heated on a water bath 30 min., and 150 cc. hot water added, giving 60% thick crystals of the *p-amino analog* of III, m. 235-7°. $ClCH(CO_2Et)_2$ 4, II 5.5 g., and C_5H_5N 6 cc. are heated 15 min. at 60°, let stand 2 hrs., and water 70 cc. added to the yellow sirup, dissolving the mass and pptg. white crystals (7.05 g.) of the *4-hydroxy*(or *ethoxy*)*-5-carbethoxy analog* (IV) of III, m. 165-6° (from alc.). $BrCH(CO_2Et)_2$ analogously gives light yellow crystals, m. 138-9° (from alc.), of the *Br-free analog* of IV. **Hung. 133,971,** Jan. 15, 1948. The original method is modified so that the (arylsulfonyl)-thioureas are treated with di- or polyketones, where at least the 1 C atom located near the CO group bears a secondary halogen atom, and the products are hydrolyzed or deacetylated. (a) Ac_2CHCl 2.7 and II 5.5 g. were mixed with dry C_5H_5N 6 cc., let stand several hrs., and water 40 cc. added to the cryst. mass, which was rubbed, filtered, and washed with water to give 100% of the *4-methyl-5-acetyl analog* (V) of III, dif. not m. up to 280°. V 2.5 g. is boiled 45 min. with 10 vol.-% NaOH 20 and H_2O 5, glacial AcOH 2.5 cc. added, and the ppt. filtered, washed with water, and dried, giving the free *p-NH_2 compd.* (VI), m. 213-14° (from alc.), with definite *anticocci effect.* VI can also be obtained by condensing Ac_2CHCl with p-$H_2NC_6H_4SO_2NHCSNH_2$ directly. $BrCH_2COC(:NOH)Me$ 3.6, II 5.5 g., and dry C_5H_5N 6 cc. are heated on a water bath some min., H_2O 20 cc. added, and the mixt. cooled and let stand, yielding 5 g. white crystals of *2-(p-acetamidophenylsulfonamido)-4-acetylthiazole oxime*, m. about 204°, well sol. in 0.5 N NaOH; the Ac and HON: groups can be removed by hydrolysis. **Hung. 133,972.** The original method is modified so that cyclic α-halo ketones, e.g. ring-substituted α-halocyclohexanones, or their CO group derivs., such as acetals, semiacetals, or enols, are condensed with (arylsulfonyl)thioureas in the presence of C_5H_5N and the products hydrolyzed and deacetylated. E.g., 2-chlorocyclohexanone 132, II 273 g., and dry C_5H_5N 300 cc. are heated on a water bath, cooled, and the thick sirup mixed with 2 l. water. An oily substance appears which changes to a cryst. mass of the *4,5-tetramethylene analog* of III, m. 295-80° (from 90% hot alc.), which, boiled 30 min. with 8 times its vol. of 10 vol.-% NaOH and acidified with HCl, gives the free *p-NH_2 compd.*, m. about 244°, with *anticocci effects.* 2-Chloro-4-methylcyclohexanone gives *2-(p-acetamidophenylsulfonamido)-4,5-(5-methyltetramethylene)thiazole* and its free *p-NH_2 analog.* If the resp. cyclic α-halo ketones are treated with p-$O_2NC_6H_4SO_2NHCSNH_2$ or $PhSO_2NHCSNH_2$, the corresponding (nitrophenylsulfonamido)- and (phenylsulfonamido)thiazoles will be obtained. István Finály

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1ST AND 2ND GROUPS

PROCESSES AND PROPERTIES INDEX

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Disubstituted tetrazoles. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R.T. (Dr. Kereszty és Dr. Wolf). **Hung. 134,391, May 3, 1948.** The method of Hung. 111,061 (C.A. 30, 3947[8]) is modified in that cyclic ketoximes are treated with azidosulfonic acid or its salts in the presence of 100% H_2SO_4 (2.5-3.5 times the wt. of the ketoximes). E.g., (1) to 41.0 g. NaN_3 suspended in 150 cc. $CHCl_3$ dried over $CaCl_2$ are added 150 g. 100% H_2SO_4 and 71 g. $ClSO_3H$ with vigorous cooling with ice and stirring, the temp. of the mixt. slowly raised to 30°, 56 g. cyclohexanone oxime in 50 cc. $CHCl_3$ slowly dropped in while a temp. is maintained between 35 and 40°, the mixt. heated to 45°, kept there 30-60 min., poured on ice, the $CHCl_3$ phase (a) sepd., the H_2SO_4 removed from the aq. phase by adding chalk, the pptd. gypsum filtered, and the filtrate evapd., the tetrazole extd. with alc. from the ppt. obtained on cooling, the alc. soln. evapd., the residue taken up in the $CHCl_3$ phase above (a), concd. NaOH soln. added, the mixt. shaken up, the $CHCl_3$ phase once more sepd., dried by Na_2CO_3, and the solvent removed, giving about 65-70 g. light-colored oil. This is dissolved in 300 cc. water, filtered, 1-2 cc. 15% H_2SO_4, and about 130 g. $HgCl_2$ in 800 cc. hot water added, the mixt. allowed to stand overnight, and the ppt. sepd. and decompd. by NaOH to obtain the tetrazole in good yield. (2) $ClSO_3H$ 0.5-0.6 g.-mol. is dissolved in a $CHCl_3$ soln. of about 0.5 g.-mol. HN_3 under vigorous cooling by ice; after appearance of the oily phase, 150 g. 100% H_2SO_4 is added, and the mixt. treated as described under (1). (3) NaN_3 6.5 g. is suspended with 20 cc. dry $CHCl_3$ and 11.6-12.0 g. $ClSO_3H$, diluted with 10 cc. dry $CHCl_3$, added at 30° with continuous stirring, the temp. slowly raised, with stirring, within 60-90 min. to 60°, the mixt. cooled, and about 50 cc. 100% H_2SO_4 dropped in. After the disappearance of the salt mass, 11.0 g. cyclohexanone oxime or its concd. soln. in $CHCl_3$ is added at 30-40°, and the mixt. kept for a while at 40-45°, then treated further as under (1). (4) NaN_3 4.0 g. in 20 cc. $CHCl_3$ and 4.5 g. $ClSO_3H$ are stirred at 35 until a thick mass is formed, 15 cc. 100% H_2SO_4 added within 15 min. at 35-40°, then 5.6 g. cyclohexanone oxime in 20 cc. $CHCl_3$ added with cooling. The temp. raised to 40°, and the mixt. further treated as under (1) until 14-16 g. of the disubstituted compd. is obtained. (5) Eventually also the *p*- or *o*-methylcyclohexanone oximes or cyclopentanone oximes can be treated similarly.

István Finály

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KERESZTY, DR.

Derivatives of butyric acid. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Keresztv és Dr. Wolf). Hung. 138,595, Aug. 2, 1948. α,γ-Dihydroxy-β,β-dialkylbutyrimino γ-lactones are treated with compds. contg. primary NH_2 groups in an alk. medium, preferably in Me_2CO, in the presence of H_2O_2. The lactone ring in the imino derivs. obtained is opened by the addn. of 1 mole water. E.g., 7.68 g. $EtO_2CCH_2CH_2NH_2.HCl$ in 20.0 cc. $CHCl_3$ and 6.45 g. $\overline{O.CH_2.CMe_2.CH(OH).C(:NH)}$ (I) in 35 cc. $CHCl_3$ are mixed and allowed to stand 90 min. at room temp., shaken with 30 cc. water, the $CHCl_3$ phase dried with Na_2SO_4, filtered, evapd. *in vacuo*, and the residue treated with ether, and recrystd. to yield 7.2 g. $\overline{O.CH_2.CMe_2.CH(OH).C:NCH_2CH_2CO_2Et}$ (II), m. 72–3°. II (1.85 g.) in 5 cc. pure Me_2CO, 1.3 cc. 25% aq. NaOH, and 1.5 cc. 30% H_2O_2 are heated 15 min. on a water bath and evapd. *in vacuo* at 40–50°. Abs. EtOH is added, again evapd., and the residue dried. The white substance obtained gives with benzylthiuronium chloride a product with the same m.p. and compn. as those of the benzylthiuronium salt of *dl*-pantothenic acid (cf. Stiller, *et al.*, *C.A.* 34, 6225[1]). II (3.7 g.) in 10 cc. abs. EtOH and 2.6 cc. 25% aq. NaOH are allowed to stand 3 hrs., 50 cc. Me_2CO added, and the mixt. allowed to stand 12 hrs., filtered, and washed by Me_2CO and Et_2O to yield 3.54 g. Na salt (III) of II. III (2 g.) is dissolved in 2 cc. water, 4.5 cc. Me_2CO, and 12. cc. 30% H_2O_2 added, and the mixt. boiled 35 min. and treated as above. The product dissolves in iso-PrOH, and when Me_2CO is added to the soln., the Na salt of *dl*-pantothenic acid is pptd. I (0.129 g.) is treated with 0.093 g. freshly distd. $PhNH_2$ 15 min. at 50–60°, cooled, treated with Et_2O, crystd., filtered, and dried *in vacuo* at 60° to yield 1.4 g. $\overline{O.CH_2.CMe_2.CH(OH).C:NPh}$, m. 152–3°. I. F.

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Steroid thio ketone derivatives. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R.T. (Dr. Kerczely és Dr. Wolf) and Zoltán Földi. Hung. 135,607. Sept. 24, 1949.

Steroid ketones are treated with mercaptans in the presence of aromatic sulfonic acids or of a solvent which contains no OH groups (as HCO_2Et). Examples: Cholestenone (1.92 g.) (I) moistened with 0.5 ml. HCO_2Et and 0.3 g. cryst. anhyd. $PhSO_3H$ in 0.5 ml. HCO_2H are mixed, 0.4 ml. EtSH added, the mixt. slightly warmed, let stand, 10 ml. MeOH added, the liquid sucked off, and the crystals washed with 15 ml. MeOH, giving 2.0 g. [illegible] white crystalline thioenol Et ether, m. 97.5°, contg. S 7.5%, $[\alpha]_D$ 118° (C_6H_6). Finely sieved I (0.96 g.) mixed with 0.5 ml. HCO_2Et and 0.3 g. $PhSO_3H$, 0.4 ml. EtSH added, let stand 2 hrs. until crystallization begins, and then for an addtl. period, 5 ml. MeOH added, the mixt. filtered, and the crystals washed, give 1.1 g. di-Et mercaptole, m. 67°, $[\alpha]_D$ 54° (C_6H_6). Finely sieved I (0.96 g.), 1.0 ml. EtSH, and 0.15 g. $PhSO_3H$ let stand 18 hrs., 1.5 ml. abs. EtOH and 0.5 ml. $CHCl_3$ added, and the mixt. cooled with ice and seeded yield 1.1-1.2 g. mercaptole contg. S 13.3%. Testosterone (0.288 g.) is treated with 0.06 g. $PhSO_3H$, 0.002 ml. EtSH in 0.1 ml. HCO_2H added, the mixt. shaken, let stand 3 hrs., 1 ml. MeOH, 2 drops pyridine, and 0.3 ml. water added, and the crystals filtered, washed with a mixt. of 0.2 ml. MeOH and 0.6 ml. water, and recrystd. from 5 ml. hot MeOH, yielding about 0.2 g. testosterone thioenol Et ether, needles, m. 112°, $[\alpha]_D$ −201° (C_6H_6). Dehydroandrosterone acetate (0.33 g.) is treated with 0.3 ml. EtSH and 0.1 g. $PhSO_3H$, shaken, cooled, stored overnight, rubbed with 2 ml. abs. EtOH, sucked off, washed with 3 ml. abs. EtOH, giving the mercaptole, m. about 127°, $[\alpha]_D$ −94° (C_6H_6), in quant. yield. Dehydroandrosterone acetate (0.33 g.), treated with 0.15 ml. EtSH, 0.3 ml. HCO_2Et, and 0.1 g. $PhSO_3H$ as above yields 0.38 g. mercaptan, m. 111°, $[\alpha]_D$ −94° (C_6H_6). Estrone benzoate (0.37 g.), 0.3 ml. EtSH, and 0.1 g. $PhSO_3H$ are let stand 3 hrs., and the product rubbed with 2 ml. abs. EtOH, sucked off, washed with 3 ml. abs. EtOH, giving 0.36 g. mercaptole, m. about 85°, $[\alpha]_D$ 38° (C_6H_6). $PhSO_3H$ (248 mg.) in 0.4 ml. HCO_2Et is treated with 1148 mg. finely sieved androstanedione and 0.76 ml. of a soln. of 3.7 ml. (= 3 g.) EtSH in 5 ml. HCO_2Et, stored for 1-2 hrs. in a container protected from moisture, the mass rubbed with 8 ml. abs. MeOH contg. 0.25 ml. pyridine, cooled with ice, filtered, and washed with ice-cold abs. MeOH, giving about 1.0 g. androstanedione 3-thioenol Et ether, m. 122°, S 9.8%, $[\alpha]_D$ −115° (C_6H_6). $PhSO_3H$ (0.3 g.) is dissolved in 1 ml. HCO_2Et, 1.9 g. finely sieved cholestenone and 0.6 ml. $PhCH_2SH$ added, the mixt. shaken, stored overnight, and the product filtered and washed with 0.3 ml. pyridine in 10 ml. MeOH, giving a quant. yield of thiocholestenone benzyl ether, m. about 116°, $[\alpha]_D$ −77° (C_6H_6). This product further refined by dissolving in C_6H_6 and ppts. with abs. EtOH gives a pure compd. m. 118-20°, S content 6.8%. The above method but with double the amt. of $PhCH_2SH$ gives 2.96 g. cholestenone benzyl sulfide, m. 107-9°, $[\alpha]_D$ 104° (C_6H_6) which, purified as above, m. 126-7°, $[\alpha]_D$ 110° (C_6H_6), S 10.6% (dtetd. according to Carius). $PhSO_3H$ (0.08 g.), 1.02 g. (0.0052 g.-mol.) $HC(SEt)_3$, and 3.84 g. (0.01 g.-mol.) finely sieved cholestenone, stored 75 min. in a desiccator filled with $CaCl_2$, then treated with 0.8 ml. pyridine and 20 ml. abs. MeOH gives 4.3 g. cholestenone thioenol Et ether. When 0.9 g. $PhSO_3H$ is mixed with 2 ml. $H_2CS(Et)_2$, 2 ml. MeOH, and 3.8 g. cholestenone, crystn. begins after 30 min., 3.0 ml. abs. MeOH is added, the mixt. stored 42 hrs., then treated with 0.8 ml. pyridine and 20 ml. MeOH, giving a quant. yield of the thioenol ether, m. 97.5°, $[\alpha]_D$ −124° (C_6H_6). István Finály

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Sulfamide derivatives. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf) Hung. 135,689, Sept. 24, 1949. Addn. to Hung. 131,475 (C. A. 43, 3975d). cf. C. A. 44, 636e. Thioureas acylated with aromatic sulfonic acids according to Hung. 127,731 (C. A. 36, 2270[9]) and Hung. 120,301 are condensed with N-contg. acid derivs. of halo carbonic acids in the presence of heterocyclic compds. which also contain in their ring (like pyridine, picoline, quinoline) acid-binding agents. Examples: (1) p-AcNHC$_6$H$_4$SO$_2$NHCSNH$_2$ (I) (5.5 g.), 1.7 g. ClCH$_2$CN, and 5 ml. pyridine, heated on a water bath 10 min., cooled, dild. with water, and the product filtered, washed with water, and recrystd. from aq. alc. give 2-(p-acetamidophenylsulfonamido)-4-ammothiazole (II), decomps. about 201°. (2) I (19.92 g.) is treated with 10.3 ml. dry Me$_2$CO and 3.61 g. pyridine, 3.3 g. ClCH$_2$CN added, the mixt. boiled 60 min., the resulting thick oil dild. with 45 ml. water, and the crystals sucked off, and washed with water; they are identical with II above. (3) p-O$_2$NC$_6$H$_4$SO$_2$NHCSNH$_2$ with ClCH$_2$CN as above gives 2-(p-nitrophenylsulfonamido)-4-ammothiazole. (4) p-H$_2$NC$_6$H$_4$SO$_2$NHCSNH$_2$ (III) (4.6 g.) is treated with 1.7 g. ClCH$_2$CN and 5 ml. pyridine on a water bath 10 min., dild. with water, filtered, and the product washed out with water, giving pinkish crystals of 2-(p-aminophenylsulfonamido)-4-ammothiazole (IV), m. 145.7°, in almost theoretical yield. (5) III (36.8 g.), 11.52 g. pyridine, 42 ml. Me$_2$CO, and 13.2 ml. ClCH$_2$CN, boiled 1 hr., dild. with 200 ml. water, and the crystals washed with water and recrystd. from EtOH give IV, m. 151°. (6) III with PhCHClCN and 6 ml. pyridine, heated on a water bath 45 min., dild. with 80 ml. water, acidified with 10% HCl, the liquid sucked off, and the crystals washed out with water yields 4.97 g. 2-(p-acetamidophenylsulfonamido)-4-hydroxythiazole, m. 265-7°. (8) 1-(2-Acetamido-5-pyridylsulfonyl)-2-thiourea instead of I treated as under (7) gives 2-(2-acetamido-5-pyridylsulfonamido)-4-hydroxythiazole. (9) III (4.6 g.), 1.9 g. ClCH$_2$CN, and 6 ml. pyridine, heated on a water bath 30 min., dild. with 50 ml. water, filtered, and the product washed with water give 2.37 g. yellow crystals of 2-(p-aminophenylsulfonamido)-4-hydroxythiazole (V), m. 224.5°; if the mother lye is acidified with glacial AcOH a further 1.15 g. of this compd. is obtained. (10) III (4.6 g.) with 1.3 g. ClCH$_2$CN and 20 ml. 80% EtOH, boiled 1 hr., evapd. under a vacuum, taken up in water, filtered, and washed with water gives 7 g. V. — István Finály

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CA

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Sulfonamide derivatives of 2-aminothiazole. Chinoin Gyógyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf). Brit 620,654, Mar. 29, 1949. Sulfonamide derivs. of 2-aminothiazole are prepd. by reaction of compds. of the general formula $AYSO_2NHCSNH_2$ (I), where Y is a benzene or pyridine nucleus, and A, a *p*-substituent on the nucleus, is an amino, alkylamino, acylamino, or acylated alkylamino group, or one which may be deacylated or reduced to one of the above, with α-halogenated ketones or aldehydes, their acetals, or ethers of their halohydrins, α-halogenated cyclic ketones, α-halogenated di- or polyoxo compds., etc. I is obtained by acylating isothioureas with substituted or unsubstituted benzene- or pyridine-sulfonic acids and subsequently splitting off the α-alkoxyalkyl group. Thus NH_2CSNH_2 with $MeOCH_2Cl$ in Me_2CO yields *$NH:C(SCH_2OMe)NH_2.HCl$* (II), m. 102°. II 62.4 g. in abs. MeOH 300 cc. at −10° is treated with NaOMe soln. (prepd. from Na 8.5 g. and abs. MeOH 300 cc.), then with *p*-$AcNHC_6H_4SO_2Cl$; during the ensuing hr. of stirring at 0°, there prts. 40 g. *p*-A *$NHC_6H_4SO_2NHC(SCH_2OMe):NH$*, m. 167° (from alc.). III 37.6 g. is boiled 3 min. in 90% MeOH 222 cc. and abs. EtOH 1.1 cc. contg. 33% gaseous HCl, and the suspension cooled to completely ppt. 25.8 g. *(p-acetamidophenylsulfonyl)thiourea* (IV), m. 200.5°. If desired, IV may be deacetylated to the *p*-NH_2 compd. with 2 N NaOH and the product pptd. with AcOH. IV 13.6 and $ClCH_2COMe$ (V) 14 g. are boiled in 80% alc. 340 cc. 1 hr., evapd. *in vacuo*, and the residue ground in and washed with Me_2CO to yield 9.10 g. *2-(p-acetamidophenylsulfonamido)-4-methylthiazole* (VI), decompg. 252-7°. VI may be deacetylated in the same manner as IV to the *amino compd.*, m. 247°. Other variations of reactants may be used. IV with $MeCOCH_2CO_2Me$ gave the *4,5-di-Me deriv.* of VI, m. 261°, and *deacetylated deriv.*, m. 248°. IV with CH_2ClCO_2Et gave the *4-Et deriv.* of VI, m. 218°, and its *deacetylated deriv.*, m. 131°. IV with $Cl_2CHCOMe$ gives the *4-methyl-5-chloro deriv.*, m. 217°, and its *deacetylated compd.*, m. about 260°. IV 22 g. and $ClCH_2CO_2Et$ 14 g. in 22 cc. dry C_5H_5N (mixt. cooled with H_2O), placed 10 min. in a boiling H_2O bath, and then dild. with 400 cc. H_2O gave *Et 2-(p-acetamidophenylsulfonamido)-4-methyl-5-thiazolecarboxylate*, an oil which forms crystals, m. 247.9°. The *2-(p-aminophenylsulfonamido)-4-methyl-5-thiazolecarboxylic acid*, m. 176.8°, recrystallizes and again m. 247°. *Et ester*, m. 230.1°, recryst. from *p*-$NH_2C_6H_4SO_2NHCSNH_2$ and $ClCH_2CO_2Et$, the ester m. 130.1° and remelts 30° higher). Other compds. prepd. were: *2-(p-acetamidophenylsulfonamido)-4-methyl-5-acetylthiazole*, m. 280°; *(p-amino compd.*, m. 213.11°); *2-(p-acetamidophenylsulfonamido)-4-acetylthiazole oxime*, m. 301°; *2-(p-acetamidophenylsulfonamido)-4,5,6,7-tetrahydrobenzothiazole*, m. 265.80°; *(deacetylated compd.*, m. about 241°); *2-(p-acetamidophenylsulfonamido)-4-thiazolol*, m. 258.9°; *(deacetylated compd.*, m. 235.7°); *2-(p-acetamidophenylsulfonamido)-4-chloromethylthiazole*, m. 203°; *(p-amino compd.*, m. 120°; *HCl salt*, m. 200°); *2-(p-aminophenylsulfonamido)-4-thiazolemethanol*, m. 201°; *2-(p-acetamidophenylsulfonamido)-4-(p-aminophenyl)thiazole*, m. 173.5°; *2-(p-acetamidophenylsulfonamido)-4-(p-acetamidophenyl)thiazole*, m. 280.1°; *2-(p-aminophenylsulfonamido)-4-(p-aminophenyl)thiazole*, m. 102.3°; *2-(p-aminophenylsulfonamido)-4-(p-acetamidophenyl)thiazole*, m. 275.7°. Cf. C.A. 43, 3979e.

M. P. Kautsky

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LTY, DR.

Preparation of β-phenylalkoxyalanine derivatives.

[illegible] $CH(OR)\cdot CH(NH_2)\cdot CO_2H$ (where R is an alkyl, aralkyl or cycloalkyl residue and X is H, halogen or NH_2, the NH_2 group is converted into a dicarboxylic [illegible]

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KERESZTY, DR.

(Y) 6

Production of new aldehydes. Chinoin Gyogyszer es Vegyeszeti Termekek Gyara Rt. (Dr. Kereszty and Dr. Wolf) (B.P. 699,819, 28.12.50. Hung., 7.1.50).—New aldehydes, $C_6H_4X \cdot CH(OR') \cdot CH(NR''_2) \cdot R'''$ (R'''=CHO) are made, where R' is an alkyl, aralkyl, or *cyclo*alkyl residue, R'' is a cyclic dicarboxylic acid residue, and X is H or NO_2 in which an acid halide (R'''=CO Hal) is subjected to catalytic hydrogenation. Dry H_2 at 150° is passed through abs. xylene containing $Pd(OH)_2$ on bone char and the H_2O formed is removed. To this mixture is now added a little $CS(NH_2)_2$ followed by *threo*-1-phthalimido-2-methoxy-2-phenylethane-1-carbonyl chloride. H_2 is slowly passed through the gently boiling mixture giving 1-*phthalimido*-2-*methoxy*-2-*phenylpropanal*, m.p. 147—148° (p-*nitrophenylhydrazone*, m.p. 200—202°). DL-threo-1-*phthalimido*-2-*methoxy*-2-p-*nitrophenylpropanal* is obtained similarly.

H. Wren.

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KERESZTY, DR.

(4) 6

Preparation of 2-amino-1-phenylpropane-1 : 3-diol 1-ethers substituted or unsubstituted in the phenyl-group and of their derivatives. Chinoin Gyogyszer es Vegyeszeti Termekek Gyara Rt. (Dr. Kereszty es Dr. Wolf) (B.P. 699,821, 29.12.50. Hung., 14.1.50).—2-Amino-1-phenylpropane-1 : 3-diol 1-ethers and their deriv. are obtained by reducing the group CO_2R'' in compounds $C_6H_4X \cdot CH(OR') \cdot CH(NH_2) \cdot CO_2R''$ to $CH_2 \cdot OH$ with a complex metal hydride (R′ and R″ are alkyl, *cyclo*alkyl, or aralkyl residues, X is H or NO_2). Reducing DL-*threo*-2-methoxy-2-phenylalanine Et ester with $LiAlH_4$ in abs. ether gives DL-threo-2-*amino*-2-*methoxy*-1-*phenylpropan*-3-*ol*, an oil (p-*nitrobenzoyl* deriv., m.p. 163—164°), converted by boiling conc. HBr into DL-*threo*-2-amino-1-phenyl-propane-1 : 3-diol. This with Ac_2O–C_5H_5N affords 2-*acetamido*-1-*methoxy*-3-*acetoxy*-1-*phenylpropane* and thence successively the corresponding 1-p-*nitrophenyl* compound and 2-*amino*-1-p-*nitrophenylpropane*-1 : 3-*diol* (I). $CCl_3 \cdot CHO$ in dry dioxan gives mainly the chloralamine compound transformed by NaCN in boiling MeOH into DL-threo-2-*dichloroacetamido*-1-p-*nitrophenylpropane*-1 : 3-*diol*, m.p. 149—150°.

H. WREN.

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KERESTÚZTY, Dr.

√1-Phenyl-2-amino-1,3-dihydroxypropane
gyszer és vegyészeti Termékek
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(HBrC6H5)Me
ice treated with NH3 gas
in a sealed pressure tube
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cess Ac_2O in *vacuo*, and crystg. the crude product from aq. EtOAc to give II, m. 94–5° (from EtOAc–petr. ether). II (3 g.) treated during 10 min. with 10 ml. concd. HNO_3 and 3.4 ml. Ac_2O at 0–10° and left 15 min. as the temp. rose to 20°, gave the *p*-nitro deriv. (III) of II, m. 128–9° (from EtOH). III (5 g.) heated 8 hrs. with 2*N* HCl gave 3.7 g. *p*-O_2N deriv. (IV) of I. IV (2.8 g.) heated 3.5 hrs. with 30 ml. 57% aq. HBr, H_2O added, and the mixt. heated 1.5 hrs. gave the *p*-O_2N deriv. (V) of IA·HCl salt, m. 170°; 2,3-bis(*p*-nitrobenzoate), m. 221–2°. IV may be converted to the tartrate or dibenzoyltartrate, and the salts resolved to give the 2 optically active forms. The [illegible] and [illegible] forms of IV may be liberated from these salts and demethylated by acid hydrolysis. PhCH:CHCH$_2$OMe (14.5 g.) in MeOH with 14 g. yellow PbO treated 2 hrs. with O_3 gas with ice cooling and stirring, the mixt. refrigerated overnight, the solids recovered, the filtrate treated with H_2S and Ag_2O, and the mother liquors concd. gave 85% PhCH(OH)CH$_2$ClCH$_2$OMe (VI), $b_{0.5}$ 85–9°. VI with liquid NH_3 gave I which was similarly demethylated to yield IA. [illegible]

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Kereszty Dr

N-Acylation of 1-phenyl-2-amino-3-propanediol [illegible] Gyógyszer és Vegyészeti Termékek Gyára R. T. Kereszty és Dr. Wolf) Brit 735,731 Aug. 24, 1955. Th

N-acylation of *dl*-*erythro*-PhCH(OH)CH(NH$_2$)CH$_2$OH (I) and the *l*-*erythro*-*p*-O$_2$N deriv. (II) with an aliphatic carboxylic acid ester in aq. alk. medium is described. I (5 g.) in [illegible] ml. EtOAc shaken 6 hrs. with 50 ml. H$_2$O and 20 ml. 40% NaOH gave 4 g. N-Ac deriv. (III), m. 133°. I·HCl (20.4 g.) (obtained by hydrolysis of 20.9 g. III in 20 ml. H$_2$O and 71.5 g. Cl$_3$CHCO$_2$Me treated during 50 min. at 8-15° with 40 ml. 40% NaOH at a pH of about 7-8, and the ester phase sepd., dried, and evapd. gave 24 g. N-Cl$_3$CHCO deriv. (IV), light yellow oil; the aq. phase extd. with EtOAc gave 7.3 g. more crude IV. The combined crude IV was converted to 18 g. HCl salt (V), m. 195°. V (18 g.) suspended in H$_2$O and EtOAc, and left 5 min. with 4.1 g. freshly calcined K$_2$CO$_3$ yielded 14.1 g. IV, m. 94-5° (from aq. EtOH). II (6 g.) in 100 ml. EtOH and 5 ml. 38% HCl evapd. and the residue stirred 1 hr. with H$_2$O, Cl$_3$CHCO$_2$Me, and 11 ml. 36% NaOH gave chloramphenicol, m. 150-1° (from EtOAc-petr. ether).

B. K. Wasson

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KERESZTY, P.

"Calculating the effect of sun radiation on railway cars." p. 172. (KOZLEKED ESTUDOMANYI SZEMLE, Vol. 3, no. 5, May 1953. Budapest.)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress August, 1953, Uncl.

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KERESZTY, P.

Hungarian Technical Abst.
Vol 6 No. 1
1954

8-30-54

32. New trends in the building of refrigerator cars — *Uj irányok a vasúti hűtőkocsik építésben* — P. Keresztv
(Machinery — *Gép* — Vol. 5, 1953, No. 1, pp. 16—22, 10 figs., 2 tabs.)

The purpose of the study is to establish — on the basis of the published results of foreign researches — the most suitable type of refrigerator car to be built for the Hungarian State Railways. Of the two best known types used, the roof ice container type is the more satisfactory, however, the European railway transit clearance is not high enough to allow for the unimpeded transit throughout the continent of up-to-date refrigerator cars with the ice container built on the ceiling of the car; therefore, the choice rests with the type of car in which the containers are installed at the two ends. The usual faults and methods of elimination are discussed. Methods of precooling and re-icing and the question of quick freezing cars are dealt with briefly for the benefit of car designers.

P. K.

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KERESZTY, F.

Diverting forces resulting from bearings of railroad car bogies. II. p. 284. (JARMUVEK ES GEPEK, Budapest, Hungary, Vol. 1, No. 9, Sept. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955.

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