

Hematology

CZECHOSLOVAKIA

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"Changes in Blood Formula Following Repeated Taking of Blood Samples. Part I."

Prague, Casopis Lekaru Ceskych, Vol 105, No 29, 8 Jul 66, pp 781 - 782

Abstract: Repeated insertions of the needle may cause a substantial change in the numbers of leucocytes and eosinophils. Out of a total number of 70 subjects examined, 15 showed changes exceeding the physiological limits of leucocytes after repeated taking of blood samples. In 11 cases the number was decreased. It is assumed that practical results would be even more distorted, as all 70 subjects were hospital patients already adapted to taking of blood samples. The changes in the numbers of cells are due to distribution changes in the circulation system and form part of the load syndrome.

4 Figures, 1 Czech reference.

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HRODEK, Otto, MUDr.; SPANKOVA, Helena; MLEJNKOVA, Mirka

Personal experience in determination of various factors of the prothrombin complex. Cas. lek. cesk. 95 no.18:480-483 54.

1. Z hematol. oddeleni II. detske kliniky v Praze (predn.: prof. Dr. J. Houstek) a z hematol. oddeleni I. interni kliniky v Praze (predn.: prof. Dr. M. Netousek).

(BLOOD COAGULATION,

factors V & VII, determ. of physiol. activity by prolonged Quick's test. (Cz))

(PROTHROMBIN, TIME, determ.

Quick's test, prolonged, in determ. of physiol. activity. (Cz))

HRODEK, Otto; HERMANŠKY, František; SPANKOVÁ, Helena; MLEJNKOVÁ, Mirka

Clinical aspects and diagnosis of hemophilia. Cas. lek. cesk.
96 no.7:203-207 15 Feb 57.

1. Dětská klinika v Praze, přednosta prof. MUDr. J. Houstek, a I.
interní klinika v Praze, přednosta prof. MUDr. M. Netoušek.

O. H., Praha 2, Sokolská 2.

(HEMOPHILIA

clin. aspects & diag. (Cz))

HRODEK, Otto, MUDr.; Techn. spoluprace: MLEJNKOVA, N.; SPANKOVA, H.

Determination of proconvertine (factor VII). Cas. lek. cesk.
44 no.36:981-984 2 Sept 55.

1. Z II. detske kliniky v Praze predn. prof. Dr. J. Houstek)
a z hematologick. Laboratore I. inst. kliniky v Praze.
(BLOOD COAGULATION
factor VII, determ.)

MLEKODAJ, Stanislaw

Application of controlled hypotension for decreasing hemorrhage into the cavity of extrapleural pneumothorax. Polski przegl. chir. 30 no.3:245-250 Mr '58

1. Z Zakladu Ftyzjochirurgii I.D.S.K.L. w Sanatorium im. Sokolowskiego
Kierownik: Prof. dr W. Rzepicki i z Panstwowego Zespołu Sanatoriów
Przeciwegruźliczych w Zakopanem Dyrektor: dr St. Frenkel. Zakopane,
Sanatorium im. Sokolowskiego.

(PNEUMOTHORAX, ARTIFICIAL

controlled hypotension for decreasing hemorrh. into
cavity following extrapleural pneumothorax (Pol))

(HYPOTENSION, CONTROLLED,

in pneumothorax, extrapleural, for decreasing hemorrh.
into cavity (Pol))

RZEPECKI, Wit; MLEKODAJ, Stanislaw

Discussion on post-resection results in the Zakopane Center. Postępy
hig. med. dow. no.2:26-35 '60.

1. Z Zakładu Ftyzjochirurgii S. D. L. Sanatorium im. dra O. Sokolows-
kiego w Zakopanem Kierownik: prof. dr Wit Rzepecki.

(PNEUMONECTOMY statist)

MLEKODAJ, Stanislaw; CZAJKA, Adam

Lobectomy. Postepy high. med. dow. no.2:43 '60.

1. Z Zakladu Ftyzjochirurgii S. D. L. Sanatorium im dra O. Sokolowskiego
w Zakopanem Kierownik: prof. dr. Wit Rzepecki.

(PNEUMONECTOMY)

MLEKODAJ, Stanislaw

Peroperative bronchial injuries. Postepy hig. med. dosw. no.2:51-52
'60.

1. Z Zakladu Ftyzjochirurgii S. D. L. w Zakopanem Kierownik: prof. dr
Wit Rzepecki.

(BRONCHI wds & inj) (PNEUMONECTOMY compl)

MLEKODAJ, Stanislaw

Bronchial fistula after pulmonary resection (analysis of 864 patients).
Postepy hig. med. dosw. no.2:81-85 '60.

1. Z Zakladu Ftyzjochirurgii S.D.L. Sanatorium im. dra Sokolowskiego
w Zakopanem Kierownik: prof. dr Wit Rzepecki.

(PNEUMONECTOMY compl) (BRONCHIAL FISTULA etiol)

MLEKODAJ, Stanislaw; LUKIANSKI, Marian

Segmental resection in pulmonary tuberculosis. Postepy hig. med. dozw.
no.2:167-170 '60.

1. Z Zakladu Ftyzjochirurgii S.D.L. Sanatorium im. dra O. Sokolowskiego
w Zakopanem Kierownik: prof. dr W. Rzepecki.

(PNEUMONECTOMY)

MLEKODAJ, Stanislaw; KOBZIK, Jozef

Simultaneous thoracoplasty after partial pulmonary resection in lung tuberculosis. Postepy hig. med. dosw. no.2:194-196 '60.

1. Z Zakladu Ftyzjochirurgii S.D.L. Sanatorium im. dra O. Sokolowskiego w Zakopanem Kierownik: prof. dr Wit Rzepecki.

(THORACOPLASTY) (PNEUMONECTOMY)

MLEKODAJ, Stanislaw

Bronchial fistula following pulmonary resection in tuberculosis.
Polski przegl.chir. 32 no.7:594-605 J1 '60.

1. Sanatorium im. dr O.Sokolowskiego Z Zakladu Torakochirurgii
S.D.L. w Zakopanem Kierownik: prof. dr W.Rzepecki.
(PNEUMONECTOMY compl)
(BRONCHIAL FISTULA etiol)

RZEPECKI, Wit; HARAZDA, Maria; MLEKODAJ, Stanislaw

Indications for resection in patients with severe forms of
pulmonary tuberculosis. Gruzlica 30 no.10:913-925 '62.

1. Z Kliniki Chirurgii Klatki Piersiowej w Zakopanem Dyrektor:
prof. dr med. W. Rzepecki.
(PNEUMONECTOMY) (TUBERCULOSIS, PULMONARY)

MLEKODAJ, Stanislaw; BRONIKOWSKI, Karol; WISNIEWSKI, Andrzej;
PAWILOWSKI, Janusz

Effect of analgesics on respiratory disorders following
pulmonary surgery. Pol. przegl. chir. 37 no. 2:254-86.
S 165.

1. Z Szpitalu Chirurgicznego Państwowego Instytutu
Onkologicznego w Pruszkach (Ordynator: dr. M.
Mlekodaj).

ACCESSION NR: APL012280

S/0070/64/009/0017/0102/0103

AUTHORS: Gal'perin, Ye. L.; Dubov, S. S.; Volkova, Ye. V.; Mlenik, M. P.

TITLE: The crystalline structure of polytrifluorochloroethylene

SOURCE: Kristallografiya, v. 9, no. 1, 1964, 102-103

TOPIC TAGS: chloroethylene, crystal structure, x ray diffraction, crystal pulling, polymer, camera RKV 86A

ABSTRACT: The authors undertook this work because of contradictions in the literature on the cell dimensions and chain configuration of this compound. They obtained precisely oriented samples of the polymer by pulling in glycerin at 150-160°. The samples were then heated in their extended state for 10 hours at 190-195°. X-ray patterns were obtained on cylindrical film in an RKV-86A camera. The pictures are characterized by lines of the first and second levels and by an absence of equatorial reflections. The lines of the second level correspond to hexagonal packing. The value of the lattice constant was determined to be $a = 6.385 \pm 0.015 \text{ \AA}$. Along the axis of the crystal fiber, $c = 42 \pm 0.2 \text{ \AA}$. Seventeen monomer units are packed along this line, indicating a crystal density of

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ACCESSION NR: AP4012280

$2.20 \pm 0.02 \text{ g/cm}^3$, which is in good agreement with experimental density measurements. The absence of equatorial reflections and the presence of intense, almost point, reflections at lines of the first, second, and third layers indicates that the first reflection should be referred to (101), not to (100) as has been done in previous work. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 09Apr63

DATE ACQ: 19Feb64

ENCL: 00

SUB CODE: SS, CC

NO REF SOV: 003

OTHER: 005

Card 2/2

GALPERIN, Yo.S.; Shtrom, M. Ya.V.; Mikhlin, M.M.

Crystallization and growth of polypropylene from the melt. Part 1.
The effect of the crystallization temperature on the morphology of the crystals (1979)

MLETSIN, B.

"Pathological Processes in Adenoids. TR. from the Russian. p. 49 (ANALELE ROMANO-SOVIETICE. SERIA PEDIATRICE. SERIES A III-a v.6, no.5, Sept./Oct. 1953, Bucuresti, Rumania)

SO: Monthly List of East European Accessions, LC, Vol. 3, NO. 4, April 1954

ALINCE, Vaclav; MLEZIVA, Emil, dr.

Literature on railroads in the present and in future. Zelez dop
tech 10 no.12:376-377 '62.

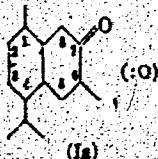
GANZLIK, M.; MLEZIVA, I.

Alkyd resins modified with saturated synthetic fatty acids for
hot dried coatings. Lakokras.mat. i kn. prim. nov. 15-21 '64.
(MIRA 1964)

MLEZIVA, J.

Terpenes. XII Composition of the oil of hops. F. Sorm, J. Mleziva, and Z. Arnold (Tech. Univ., Prague). *Chem. Abstr.* **44**: 636c, 637c. (1949) (in English); cf. *C.A.* **44**: 636c, 637c. Oil of hops is examined to define the sesquiterpene fraction, which is separable as pure components by a chromatographic method. Luparone (I) is identified as Me nonyl ketone. The previously reported isononanoic acid is identified as pelargonic acid (II). It is present as esters of nonidentified alcohols. A $C_{15}H_{24}O$ ketone is present in small amount in the higher-boiling fractions. Two cryst. triterpenes, $C_{40}H_{64}$ (III), m. 34° (octahydro deriv., m. 37°), and a product (IV), m. 60°, n_D^{20} 1.47, mol. wt. 412, are also present. It is concluded that the principal constituents of the Bohemian oil are myrcene, pelargonic esters, $MeCOC_8H_{17}$, and the triterpenes III and IV. **XIII. Sesquiterpenes from the essential oil of hops.** F. Sorm, J. Mleziva, Z. Arnold, and J. Pliva. *Ibid.*: 699-715. The previously reported identity of humulene and α -caryophyllene is studied. The $C_{15}H_{24}$ sesquiterpene fraction of the oil is sep'd. chromatographically as the 3 components: natural farnesene (I), acyclic with 4 double bonds, 2 of which are conjugated; humulene (II), monocyclic with 3 double bonds; and a β -caryophyllene type (III), bicyclic with 1 double bond. The constitution of I proposed is 2,8-dimethyl-10-methylene-2,6,11-dodecatriene. **XIV. The identity of humulene and α -caryophyllene.** V. Herout, M. Streible, J. Mleziva, and F. Sorm. *Ibid.*: 716-22. α -Caryophyllene (I) obtained from oil of cloves was isolated as a pure comp., b_p 126°, d_4^{20} 0.8065, n_D^{20} 1.5023, n_D^{25} 1.5003, n_D^{30} 1.4983, n_D^{35} 1.4963, n_D^{40} 1.4943, n_D^{45} 1.4923, n_D^{50} 1.4903, n_D^{55} 1.4883, n_D^{60} 1.4863, n_D^{65} 1.4843, n_D^{70} 1.4823, n_D^{75} 1.4803, n_D^{80} 1.4783, n_D^{85} 1.4763, n_D^{90} 1.4743, n_D^{95} 1.4723, n_D^{100} 1.4703, n_D^{105} 1.4683, n_D^{110} 1.4663, n_D^{115} 1.4643, n_D^{120} 1.4623, n_D^{125} 1.4603, n_D^{130} 1.4583, n_D^{135} 1.4563, n_D^{140} 1.4543, n_D^{145} 1.4523, n_D^{150} 1.4503, n_D^{155} 1.4483, n_D^{160} 1.4463, n_D^{165} 1.4443, n_D^{170} 1.4423, n_D^{175} 1.4403, n_D^{180} 1.4383, n_D^{185} 1.4363, n_D^{190} 1.4343, n_D^{195} 1.4323, n_D^{200} 1.4303, n_D^{205} 1.4283, n_D^{210} 1.4263, n_D^{215} 1.4243, n_D^{220} 1.4223, n_D^{225} 1.4203, n_D^{230} 1.4183, n_D^{235} 1.4163, n_D^{240} 1.4143, n_D^{245} 1.4123, n_D^{250} 1.4103, n_D^{255} 1.4083, n_D^{260} 1.4063, n_D^{265} 1.4043, n_D^{270} 1.4023, n_D^{275} 1.4003, n_D^{280} 1.3983, n_D^{285} 1.3963, n_D^{290} 1.3943, n_D^{295} 1.3923, n_D^{300} 1.3903, n_D^{305} 1.3883, n_D^{310} 1.3863, n_D^{315} 1.3843, n_D^{320} 1.3823, n_D^{325} 1.3803, n_D^{330} 1.3783, n_D^{335} 1.3763, n_D^{340} 1.3743, n_D^{345} 1.3723, n_D^{350} 1.3703, n_D^{355} 1.3683, n_D^{360} 1.3663, n_D^{365} 1.3643, n_D^{370} 1.3623, n_D^{375} 1.3603, n_D^{380} 1.3583, n_D^{385} 1.3563, n_D^{390} 1.3543, n_D^{395} 1.3523, n_D^{400} 1.3503, n_D^{405} 1.3483, n_D^{410} 1.3463, n_D^{415} 1.3443, n_D^{420} 1.3423, n_D^{425} 1.3403, n_D^{430} 1.3383, n_D^{435} 1.3363, n_D^{440} 1.3343, n_D^{445} 1.3323, n_D^{450} 1.3303, n_D^{455} 1.3283, n_D^{460} 1.3263, n_D^{465} 1.3243, n_D^{470} 1.3223, n_D^{475} 1.3203, n_D^{480} 1.3183, n_D^{485} 1.3163, n_D^{490} 1.3143, n_D^{495} 1.3123, n_D^{500} 1.3103, n_D^{505} 1.3083, n_D^{510} 1.3063, n_D^{515} 1.3043, n_D^{520} 1.3023, n_D^{525} 1.3003, n_D^{530} 1.2983, n_D^{535} 1.2963, n_D^{540} 1.2943, n_D^{545} 1.2923, n_D^{550} 1.2903, n_D^{555} 1.2883, n_D^{560} 1.2863, n_D^{565} 1.2843, n_D^{570} 1.2823, n_D^{575} 1.2803, n_D^{580} 1.2783, n_D^{585} 1.2763, n_D^{590} 1.2743, n_D^{595} 1.2723, n_D^{600} 1.2703, n_D^{605} 1.2683, n_D^{610} 1.2663, n_D^{615} 1.2643, n_D^{620} 1.2623, n_D^{625} 1.2603, n_D^{630} 1.2583, n_D^{635} 1.2563, n_D^{640} 1.2543, n_D^{645} 1.2523, n_D^{650} 1.2503, n_D^{655} 1.2483, n_D^{660} 1.2463, n_D^{665} 1.2443, n_D^{670} 1.2423, n_D^{675} 1.2403, n_D^{680} 1.2383, n_D^{685} 1.2363, n_D^{690} 1.2343, n_D^{695} 1.2323, n_D^{700} 1.2303, n_D^{705} 1.2283, n_D^{710} 1.2263, n_D^{715} 1.2243, n_D^{720} 1.2223, n_D^{725} 1.2203, n_D^{730} 1.2183, n_D^{735} 1.2163, n_D^{740} 1.2143, n_D^{745} 1.2123, n_D^{750} 1.2103, n_D^{755} 1.2083, n_D^{760} 1.2063, n_D^{765} 1.2043, n_D^{770} 1.2023, n_D^{775} 1.2003, n_D^{780} 1.1983, n_D^{785} 1.1963, n_D^{790} 1.1943, n_D^{795} 1.1923, n_D^{800} 1.1903, n_D^{805} 1.1883, n_D^{810} 1.1863, n_D^{815} 1.1843, n_D^{820} 1.1823, n_D^{825} 1.1803, n_D^{830} 1.1783, n_D^{835} 1.1763, n_D^{840} 1.1743, n_D^{845} 1.1723, n_D^{850} 1.1703, n_D^{855} 1.1683, n_D^{860} 1.1663, n_D^{865} 1.1643, n_D^{870} 1.1623, n_D^{875} 1.1603, n_D^{880} 1.1583, n_D^{885} 1.1563, n_D^{890} 1.1543, n_D^{895} 1.1523, n_D^{900} 1.1503, n_D^{905} 1.1483, n_D^{910} 1.1463, n_D^{915} 1.1443, n_D^{920} 1.1423, n_D^{925} 1.1403, n_D^{930} 1.1383, n_D^{935} 1.1363, n_D^{940} 1.1343, n_D^{945} 1.1323, n_D^{950} 1.1303, n_D^{955} 1.1283, n_D^{960} 1.1263, n_D^{965} 1.1243, n_D^{970} 1.1223, n_D^{975} 1.1203, n_D^{980} 1.1183, n_D^{985} 1.1163, n_D^{990} 1.1143, n_D^{995} 1.1123, n_D^{1000} 1.1103, n_D^{1005} 1.1083, n_D^{1010} 1.1063, n_D^{1015} 1.1043, n_D^{1020} 1.1023, n_D^{1025} 1.1003, n_D^{1030} 1.0983, n_D^{1035} 1.0963, n_D^{1040} 1.0943, n_D^{1045} 1.0923, n_D^{1050} 1.0903, n_D^{1055} 1.0883, n_D^{1060} 1.0863, n_D^{1065} 1.0843, n_D^{1070} 1.0823, n_D^{1075} 1.0803, n_D^{1080} 1.0783, n_D^{1085} 1.0763, n_D^{1090} 1.0743, n_D^{1095} 1.0723, n_D^{1100} 1.0703, n_D^{1105} 1.0683, n_D^{1110} 1.0663, n_D^{1115} 1.0643, n_D^{1120} 1.0623, n_D^{1125} 1.0603, n_D^{1130} 1.0583, n_D^{1135} 1.0563, n_D^{1140} 1.0543, n_D^{1145} 1.0523, n_D^{1150} 1.0503, n_D^{1155} 1.0483, n_D^{1160} 1.0463, n_D^{1165} 1.0443, n_D^{1170} 1.0423, n_D^{1175} 1.0403, n_D^{1180} 1.0383, n_D^{1185} 1.0363, n_D^{1190} 1.0343, n_D^{1195} 1.0323, n_D^{1200} 1.0303, n_D^{1205} 1.0283, n_D^{1210} 1.0263, n_D^{1215} 1.0243, n_D^{1220} 1.0223, n_D^{1225} 1.0203, n_D^{1230} 1.0183, n_D^{1235} 1.0163, n_D^{1240} 1.0143, n_D^{1245} 1.0123, n_D^{1250} 1.0103, n_D^{1255} 1.0083, n_D^{1260} 1.0063, n_D^{1265} 1.0043, n_D^{1270} 1.0023, n_D^{1275} 1.0003, n_D^{1280} 0.9983, n_D^{1285} 0.9963, n_D^{1290} 0.9943, n_D^{1295} 0.9923, n_D^{1300} 0.9903, n_D^{1305} 0.9883, n_D^{1310} 0.9863, n_D^{1315} 0.9843, n_D^{1320} 0.9823, n_D^{1325} 0.9803, n_D^{1330} 0.9783, n_D^{1335} 0.9763, n_D^{1340} 0.9743, n_D^{1345} 0.9723, n_D^{1350} 0.9703, n_D^{1355} 0.9683, n_D^{1360} 0.9663, n_D^{1365} 0.9643, n_D^{1370} 0.9623, n_D^{1375} 0.9603, n_D^{1380} 0.9583, n_D^{1385} 0.9563, n_D^{1390} 0.9543, n_D^{1395} 0.9523, n_D^{1400} 0.9503, n_D^{1405} 0.9483, n_D^{1410} 0.9463, n_D^{1415} 0.9443, n_D^{1420} 0.9423, n_D^{1425} 0.9403, n_D^{1430} 0.9383, n_D^{1435} 0.9363, n_D^{1440} 0.9343, n_D^{1445} 0.9323, n_D^{1450} 0.9303, n_D^{1455} 0.9283, n_D^{1460} 0.9263, n_D^{1465} 0.9243, n_D^{1470} 0.9223, n_D^{1475} 0.9203, n_D^{1480} 0.9183, n_D^{1485} 0.9163, n_D^{1490} 0.9143, n_D^{1495} 0.9123, n_D^{1500} 0.9103, n_D^{1505} 0.9083, n_D^{1510} 0.9063, n_D^{1515} 0.9043, n_D^{1520} 0.9023, n_D^{1525} 0.9003, n_D^{1530} 0.8983, n_D^{1535} 0.8963, n_D^{1540} 0.8943, n_D^{1545} 0.8923, n_D^{1550} 0.8903, n_D^{1555} 0.8883, n_D^{1560} 0.8863, n_D^{1565} 0.8843, n_D^{1570} 0.8823, n_D^{1575} 0.8803, n_D^{1580} 0.8783, n_D^{1585} 0.8763, n_D^{1590} 0.8743, n_D^{1595} 0.8723, n_D^{1600} 0.8703, n_D^{1605} 0.8683, n_D^{1610} 0.8663, n_D^{1615} 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n_D^{2405} 0.5483, n_D^{2410} 0.5463, n_D^{2415} 0.5443, n_D^{2420} 0.5423, n_D^{2425} 0.5403, n_D^{2430} 0.5383, n_D^{2435} 0.5363, n_D^{2440} 0.5343, n_D^{2445} 0.5323, n_D^{2450} 0.5303, n_D^{2455} 0.5283, n_D^{2460} 0.5263, n_D^{2465} 0.5243, n_D^{2470} 0.5223, n_D^{2475} 0.5203, n_D^{2480} 0.5183, n_D^{2485} 0.5163, n_D^{2490} 0.5143, n_D^{2495} 0.5123, n_D^{2500} 0.5103, n_D^{2505} 0.5083, n_D^{2510} 0.5063, n_D^{2515} 0.5043, n_D^{2520} 0.5023, n_D^{2525} 0.5003, n_D^{2530} 0.4983, n_D^{2535} 0.4963, n_D^{2540} 0.4943, n_D^{2545} 0.4923, n_D^{2550} 0.4903, n_D^{2555} 0.4883, n_D^{2560} 0.4863, n_D^{2565} 0.4843, n_D^{2570} 0.4823, n_D^{2575} 0.4803, n_D^{2580} 0.4783, n_D^{2585} 0.4763, n_D^{2590} 0.4743, n_D^{2595} 0.4723, n_D^{2600} 0.4703, n_D^{2605} 0.4683, n_D^{2610} 0.4663, n_D^{2615} 0.4643, n_D^{2620} 0.4623, n_D^{2625} 0.4603, n_D^{2630} 0.4583, n_D^{2635} 0.4563, n_D^{2640} 0.4543, n_D^{2645} 0.4523, n_D^{2650} 0.4503, n_D^{2655} 0.4483, n_D^{2660} 0.4463, n_D^{2665} 0.4443, n_D^{2670} 0.4423, n_D^{2675} 0.4403, n_D^{2680} 0.4383, n_D^{2685} 0.4363, n_D^{2690} 0.4343, n_D^{2695} 0.4323, n_D^{2700} 0.4303, n_D^{2705} 0.4283, n_D^{2710} 0.4263, n_D^{2715} 0.4243, n_D^{2720} 0.4223, n_D^{2725} 0.4203, n_D^{2730} 0.4183, n_D^{2735} 0.4163, n_D^{2740} 0.4143, n_D^{2745} 0.4123, n_D^{2750} 0.4103, n_D^{2755} 0.4083, n_D^{2760} 0.4063, n_D^{2765} 0.4043, n_D^{2770} 0.4023, n_D^{2775} 0.4003, n_D^{2780} 0.3983, n_D^{2785} 0.3963, n_D^{2790} 0.3943, n_D^{2795} 0.3923, n_D^{2800} 0.3903, n_D^{2805} 0.3883, n_D^{2810} 0.3863, n_D^{2815} 0.3843, n_D^{2820} 0.3823, n_D^{2825} 0.3803, n_D^{2830} 0.3783, n_D^{2835} 0.3763, n_D^{2840} 0.3743, n_D^{2845} 0.3723, n_D^{2850} 0.3703, n_D^{2855} 0.3683, n_D^{2860} 0.3663, n_D^{2865} 0.3643, n_D^{2870} 0.3623, n_D^{2875} 0.3603, n_D^{2880} 0.3583, n_D^{2885} 0.3563, n_D^{2890} 0.3543, n_D^{2895} 0.3523, n_D^{2900} 0.3503, n_D^{2905} 0.3483, n_D^{2910} 0.3463, n_D^{2915} 0.3443, n_D^{2920} 0.3423, n_D^{2925} 0.3403, n_D^{2930} 0.3383, n_D^{2935} 0.3363, n_D^{2940} 0.3343, n_D^{2945} 0.3323, n_D^{2950} 0.3303, $n_D^{$

130°). X with $\text{PtO}_2\text{-H}$ yields a tetrahydro deriv., b. 150-2°. I with MeMgI yields methylacoronone (XI), m. 139°, which forms with LiAlH_4 methylacordiol (XII), m. 119°. XII dehydrates to a doubly unsatd. $\text{C}_{13}\text{H}_{16}$ (XIII), b. 123°. XIII with Pd-C dehydrogenates to 7-methylcadalene, m. 99.5°, and minor amts. of azulene. I appears to show an anomalous CHI_3 reaction because an Ac grouping is not proved for I, and I dioxime subjected to a Beckmann rearrangement does not form volatile acids or amines. The data indicate for I the formula Ia, where the



6-position is favored for the 2nd CO group. I with BaH forms monobenzylideneacoronone, $\text{C}_{21}\text{H}_{20}\text{O}$, m. 185-6°. The results indicate position 7 for the reactive carbonyl while the 2nd carbonyl, probably in position 5, is sterically hindered. The failure of the characteristic FeCl_3 test for a β -diketone and ultraviolet spectra exclude α - and β -diketone structures. The differences in the infrared spectra of acoronone and tetrahydrocadalene suggest that I and II do not have the cadalene skeleton but form cadalene by rearrangement during dehydrogenation. N. T. F.

SORM, F.; HOLUB, M.; SYKORA, V.; MLEZIVA, J.; STREIBL, M.; PLIVA, J.;
SCHNEIDER, B.; HEROUT, V.

On terpenes. Part 46. Sesquiterpenic hydrocarbons from oil of sweet
flag [in English with summary in Russian]. Sbor.Chekh.khim.rab. 18
no.4:512-526 Ag '53. (MLRA 7:6)

1. Department of Natural Products, Institute of Organic Chemistry,
Czechoslovak Academy of Science, Prague. (Sesquiterpenes)
(Calamene)

~~MEL~~ MLEZIVA JOSEF

3

Self-condensation of cyclohexanone. I. Self-condensation of cyclohexanone by alkanes and acids. Josef Mleziva (Spolek pro chem. a hutni vrbhu, Ustí n. Labem, Czech.). Chem. Listy 47, 1031-7 (1953).—Condensation of cyclohexanone (I) by refluxing with 0.5% KOH with continuous removal of water gave 18% recovered I, 33% cyclohexenylcyclohexanone (II), 29% of a new cryst. compd. (III), m. 79°, and 9% H₂O. Condensation of I by refluxing with 1% H₂SO₄ yielded 25% recovered I, 43% II, 9% III, 0.5% dodecahydrotriphenylene, 9% H₂O, and 13.5% by-products and losses. III (semicarbazone, m. 150-2°) gave by fusion with KOH at 260-80°, Me(CH₂)₄CO₂H and cyclohexenylcaproic acid which yielded HO₂C(CH₂)₄CO(CH₂)₄CO₂H on oxidation with alk. KMnO₄. Oxidation of III with HNO₃ gave HO₂C(CH₂)₄CO₂H and (CO₂H)₂; reduction of III with LiAlH₄ in Et₂O gave a compd. C₁₂H₂₀O, b. 168-75°, d₄ 1.028, n_D 1.5222. A correction. Josef Mleziva and Otto Kuessel. Ibid. 48, 328 (1954). II. Pressure condensation of cyclohexanone with methanolic alkali hydroxide. Ibid. 47, 1354-8 (1953).—Heating 1040 g. cyclohexanone and 675 g. MeOH with 200 g. KOH 18 hrs. at 120-30° (3-4 atm.) yielded 755 g. resia, 205 g. cyclohexanol, and 460 g. MeOH. It was noticed in 4.2 l. gases escaping after opening the autoclave. Heating the resia at 200° at 2.5 mm. gave 2 compds., C₁₂H₂₀O₂, m. 132° and 162.5° (from ligroine). When the condensation was started with a mixt. of ketones obtained by heating cyclohexanone with solkt KOH (cf. preceding abstr.), a resin was obtained which heated at 200° and 15 mm. yielded C₁₂H₂₀O₂, m. 142.5° (from ligroine). This reduced with LiAlH₄ gave a compd. m. 76°. On the basis of acetylation and Br reaction, the following types of compds. are considered: 2-cyclohexyl-5-(hydroxymethyl)cyclohexanone and the corresponding diol. M. Hudlický.

MLEZIVA, J.

3

C Z E C H

Present stand and development of alkyd resins. J. Mleziva and V. Hanzlik. *Chem. Průmysl* 4(29), 135-41 (1954).—A review of existing situation of the production methods and trends in research. L. A. Helwich

MLEZIVA JOSEF

(Z) Alkyd resins formation modified by drying-off fatty acids.
 CH Josef Mleziva, Vladimir Hanzlik, Miroslav Hanzlik, and
 Bohumir Kadlecik. *Chem. Prám.* 4(20), 442-4 (1954).
 Polyglycerols are formed during the synthesis of alkyds at
 higher temps. A linseed-oil-modified alkyd of Alkydal T
 type was used for expt.; and acid no., hydroxyl no. and
 water formation were closely followed during the reaction.
 About 9% polyglycerols were analytically found in the
 glycerol component isolated from the alkyd. Polyglycerols
 formed not only during the esterification, but also during the
 prepn. of the monoglyceride if the temp. was sufficiently high.
 It is emphasized that the hydroxyl no. should be closely
 watched during the reaction. Any drop indicates formation
 of polyglycerols and danger of gelation. L. A. Helwich
 Crazing of acrylic resins. W. T. Sweeney, G. M. Brauer,
 and I. C. Schoonover (Natl. Bur. Standards, Washington,
 D.C.). *J. Dental Research* 34, 806-12 (1955).—Crazing
 (appearance of small surface cracks in acrylic dentures and
 plastic teeth) is explained by contact of linear Me meth-
 acrylate polymer with H₂O during processing at elevated
 temps. and does not occur if the material is protected from
 H₂O during processing. Sorption of excess H₂O at elevated
 temps. causes supersatn. with H₂O of the surface of the ma-
 terial on cooling. Evapn. of this excess H₂O sets up strains
 which eventually are released by the formation of craze
 marks. Craze resistance is increased by cross-linking.
 Joseph S. Hepburn

MA
② TMT

MELIVA, J.

"Cyclodextrone Resine." p. 509,
(COLLECTION OF CYCLODEXTRIN AND CYCLODEXTRIN DERIVATIVES)
APRIL 1965, Vol. 10, No. 3, Prague, Czechoslovakia

See: Monthly list of East European accretions, (1965), No. 5,
No. 5, May 1965, Uncl.

MEŠIVA, J.

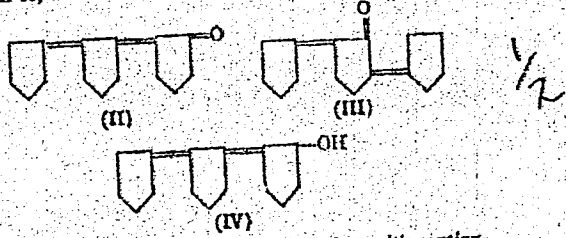
"Constitution of Products of Self-Oxidation of Cyclopentadiene." p. 111,
COLLECT. OF CHEMICAL PAPERS OF THE CZECHOSLOVAK ACADEMY OF SCIENCES
AND LITERATURE, Vol. 29, No. 3, June 1954, Praha, Czechoslovakia

See: Monthly list of East European publications, Vol. 29, No. 3, p. 111,
No. 5, May 1955, etc.

MLEZIVA, JOSEF

CZECH

Constitution of the self-condensation products of cyclopentanone. Josef Mleziva (Spolek Chem. Hutni Vrobn. Jall. Czech. ~~Chem. Hutni Vrobn.~~ 1954); Collection Czechoslov. Chem. Commun., 19, 617-22 (1954) (in Russian); cf. C.A. 48, 13642g. —Contrary to the findings of Cothen (C.A. 35, 2884*) the self-condensation of cyclopentanone (I) gives II, and not III. Refluxing 500 g. I, b. 130-1°, ds



0.941, n_D²⁰ 1.4266, with 2.5 g. KOH 1.75 hrs. with continuous removal of H₂O (77 ml.) gave after cooling, 198 g. yellow crystals, m. 79° (from MeOH), and a mother liquor, yielding on distn. *in vacuo* the same compd., b. 105-83° (total yield of II, 291 g. (88%)). Reduction of 1 g. II in 50 ml. Et₂O with 0.5 g. LiAlH₄ in 60 ml. Et₂O at 20° gave IV, b. 111-31°, d₄²⁰ 1.0011, n_D²⁰ 1.5204. Adding a mixt. of 60 g. II with 30 g. H₂O to 400 g. fused KOH at 260-80° during 15 min., heating the stirred mixt. 15 more min. at the same temp., cooling it, dissolving it in 2 l. H₂O, extg. the soln. with 400 ml. Et₂O, acidifying the alk. aq. layer with 60% H₂SO₄, and extg. with 1200 ml. Et₂O gave on distn. at 3

0.941

mm., 3.0 g. BaCO_3 , and 31.7 g. (89%) (distg. at 120-140°)
1-cyclopentane-1-carboxylic acid (V), n_D²⁰ 1.4673, crystg. after a
 few days; V, m. 32° (from Me_2CO). V was also obtained by
 similar treatment with 300 g. fused KOH of a mixt. of 20 ml.
 H_2O and 70 g. 2-cyclopentylidene-cyclopentanone (VI), b_p
 78-80°, d₄²⁰ 1.0217, n_D²⁰ 1.5028; distg. yielded 27 g. V, b_p
 131-3°, n_D²⁰ 1.4662. Hydrogenation of V in AcOH over
 PtO_2 gave cyclopentanecarboxylic acid, b_p 110-115°, d₄²⁰ 1.0540, n_D²⁰
 1.4527. Adding 10 g. V in 30 ml. 5% NaOH to 20 g. KMnO_4
 in 300 ml. H_2O at 20°, stirring the mixt. 10 min. at 20-40°
 acidifying with HCl, and extg. with Et_2O yielded 5.6 g. 5-
 oxocyclopentanecarboxylic acid, m. 114-116°. Oxidation of 15 g. V with 120
 ml. 50% HNO_3 at 65-80° gave 5 g. mixt. of succinic and
 adipic acid. V (16 g.), 4 ml. PCl_5 , and 30 ml. C_6H_6 heated 1
 hr. at 100° gave on distn. 12 g. 1-cyclopentene-1-oxide & chloro-
 ride (VII), distg. in the range of 130-85°/4 mm., n_D²⁰ 1.5124.
 Refluxing 10 min. at 100° 11.5 g. VII and 20 g. AlCl_3 in 50
 ml. CS_2 (after an exothermic reaction), pouring the mixt.
 into 100 ml. H_2O , acidifying it with HCl and steam distg.
 the soln. gave, by C_6H_6 extn. and distn., 2.25 g. VI, b_p
 86-9°, d₄²⁰ 1.0210, n_D²⁰ 1.5117; exime, m. 123°. Reduction
 of VI with LiAlH_4 gave 2-cyclopentylidene-cyclopentanol, b_p
 87°, d₄²⁰ 0.90386, n_D²⁰ 1.4978. Hydrogenation of VI over
 PtO_2 yielded 2-cyclopentylcyclopentanone, b_p 76-80°, d₄²⁰
 0.9891, n_D²⁰ 1.4918. Refluxing 178.5 g. I with 0.8 g. KOH
 2 hrs. with continuous removal of H_2O (24.6 ml.), adding on
 addnl. 0.8 g. more KOH and 60 ml. xylene, and refluxing 48
 min. longer (3.5 ml. H_2O) gave on distn. 60 g. II, and higher-
 boiling fractions (185-250°), from which were isolated 5 g.
 tricyclotrimethylbenzene, m. 106.5° (from benzene), oxy-
 dized with fuming HNO_3 to mellitic acid. M. Hudnik

g. Meyer
 2/6

FILE V, J

Preparation of pure pentaerythritol and its determination.
~~J. Mlýnský, Chem. Listy 48, 1118-19 (1954); cf. Simeček,~~
~~1:49, 820h. The Kraft procedure for detg. C(CH₂OH)₅~~
~~(I) (C.I. 25, 5111) is modified as follows: Dissolve approx.~~
~~0.7 g. I in 10 ml. H₂O and 10 ml. 96% EtOH, add 2 ml.~~
~~concl. HCl, and 2.5 g. BaH, let stand overnight, filter~~
~~through a sintered-glass crucible, wash with 150 ml. H₂O.~~

and dry at 105-107°. Correction for the soly. of I is 0.0377 g.
M. Hudlický

Czechoslovakia /Chemical Technology. Chemical Products I-25
and Their Application

Synthetic polymers. Plastics.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32464

Author : Mleziva J., Hanzlik Vl.

Title : Alkyd Resins Based on Pentaerythritol

Orig Pub: Chem. prumysl., 1955, 5, No 10, 422-427

Abstract: A method has been developed for a complete analysis of the reaction mixture obtained on alcoholysis of triglycerides with pentaerythritol (I) and esterification with phthalic acid. Glycerol, I and monoglycerides are determined by the usual method, mono- and diester of I -- from the amount of water that is split off in

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and Their Application

Synthetic polymers. Plastics.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32464

the quantitative reaction with benzaldehyde, which yields acetal derivatives; the content (summative) of diglyceride, tri- and tetraester of I, and also the proportion between mono- and diester are determined from saponification value, hydroxyl number and content of fatty acids, using a triangular diagram for the computations. Over-esterification can also be checked by measuring the dielectric constant as the reaction proceeds. In the process of alcoholysis and subsequent esterification a partial decomposition of I occurs: in the distillates were found CH_2O , CH_3OH , methacrylaldehyde and

Card 2/3

MLEZIVA, J.; SANDHOLEC, B.

Determining the amount of cellulose and wood pulp. p. 101..
(PAPIR A CELULOSA, Vol. 10, no. 5, May 1955, Praha)

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4,
No. 11, Nov. 1955, Uncl.

MLEZIVA, J.

~~Decomposition and determination of pentaerythritol in alkyd resins. J. Mleziva (Inst. Synthetic Resins, Pardubice, Czech). *Folia Technica Austriaca* 57, 601-3 (1955).~~
 The low results obtained by Kappelmeier (cf. C.A. 49, 7880g, 12871c) in the analysis of pentaerythritol (I) in alkyds is not due to its soly, as claimed, but to the decompn. of I during the prepn. of the resins at high temp. The lower the m.p. of I, the more rapid is its thermal decompn.
 W. S. Zimmt.

I M.A. YOUTZ
 3 copies

PM

MLEZIVA, J-

Thermal decomposition of pentaerythritol. J. Mleziva
 (Spolek chem. hutai výrobu, Usti nad Labem, Czech.)
 Chem. Listy 50, 101-4 (1956); Collection Czechoslov. Chem.
 Commun. 21, 488 (1956).—Melting 460 g. 97% C(CH₂-
 OH)₄ (I), m. 253.1°, decreasing the temp. after 2 hrs. to
 255°, and heating the melt 24 hrs. at 255° gave 72.4 g. dis-
 tillate (Ia) and a black-brown residue contg. 60.7% I.
 Crystn. of 250 g. residue from 650 ml. H₂O and evapa. of the
 mother liquors gave 99 g. liquid which distd. *in vacuo* yielded
 2.8 g. I and 10.6 g. (HOCH₂)₂C(CH₂OCH₃)₂ (II), b.p. 255-
 65°, m. 57°, which on hydrolysis with dil. HCl followed by
 treatment with BzH gave dibenzalpentacerythritol, m. 158°.
 Boiling II 30 min. with 5% HCl and 2,4-(O,N)-C₆H₃NHNH₂
 gave 2,4-(O,N)-C₆H₃NHN:CH₃, m. 166°. I contained
 3.5% CH₂O, 67.3% H₂O, 6.03% unsatd. aldehydes such as
 C₆H₅CMcCHO, and 16-18% MeOH. M. Hudlický

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CZECHOSLOVAKIA/Chemical Technology - Chemical Products and Application. Lacquers. Paints. Lacquer and Paint Coverings. H-3C

Abs Jour : Ref Zhur- Khiriya, No 17, 1958, 59368

Author : Hanzlik Vladimir, Hanzlik Miroslav, Meziva Josef

Onst : -

Title : Epoxy Lacquers for Large-Diameter Wires.

Orig Pub : Chem prumysl, 1957, 7, No 12, 573-678

Abstract : Electroisolated lacquers (for heat drying) were prepared for wires (with diameters > 0.8 mm) on the basis of a low molecular epoxy resin (type P40), modified by butanol, of melamineformaldehyde resin (type melform 40) and an acid hardener. As a hardener acid, ethers of glycol or glycerine and of different 2-base organic acids from oxalic to sebacic, maleic and phthalic were used.

Card 1/1

MEZIVA, J.J. CEJMAK, M. MATEJ, and P. SINTKLEF

Organicka rozpoustedla (Organic Solvents); a book review.
"Some problems of terminology in organic chemistry."

n. 1391 (Chemické Listy, Vol. 51, No. 7 July 1957, Praha, Czechoslovakia.)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, No. 7, July 1958

J
CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic
Chemistry. G

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60091.

Author : Josef Mleziva.

Inst :

Title : Thermal Dissociation of 2,2,6,6-Tetramethyl-
cyclohexanol.

Orig Pub: Chem. listy, 1957, 51, No 11, 2090-2093.

Abstract: The pyrolysis of 2,2,6,6-tetra-(oxymethyl)-cyclo-
hexanol (285 g) in the presence of 1.8% of Ca
salts (65 min. at 192 to 250°) results in 1-formyl-
3-methylenecyclohexene-1 (I) [yield 54.5 g, boiling
point 79°/7 mm, $n_D^{20} = 1.5520$, $d_4^{20} = 1.0210$; semi-
carbazone (II) - melting point 210° (from alcohol)]
and in a water layer (66.7 g) containing 51.6% of
water, 15.06% of CH_2O and 39% of CH_3OH . 1 Methyl-

Card 1/3

19

CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic
Chemistry. 9

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60891.

Abstract: acetal (III), boiling point 67 to 69°/1 mm, $n_D^{20} = 1.4806$, $d_4^{20} = 0.9335$, was prepared by toluene I with $\text{HC}(\text{OC}_2\text{H}_5)_3$ in the presence of NH_4NO_3 and alcohol. The structure of I was confirmed by the oxidation of 67% aq KMnO_4 at 50 to 80° into di-taric acid, as well as by the reduction of II according to Kizhner-Wolf into 2-methylenebicyclo-(0,1,4)-heptane (IV), [yield 6.8 g (from 37.5 g of II), boiling point 133 to 137°/745 mm, $n_D^{20} = 1.4695$, $d_4^{20} = 0.8402$], which produces m-xylol, when dehydrogenated on 10% aq Pd/C (at 280 to

Card 2/3

CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic
Chemistry. 6

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60671.

Abstract: 3000 in CO₂ flow; m-xylol was identified by the
oxidation into isophthalic acid. The ultra-
violet spectra of I, III and IV and the infrared
spectrum of IV are presented.

Card 3/3

20

APPROVED FOR

MLEZIVA, JOSEF

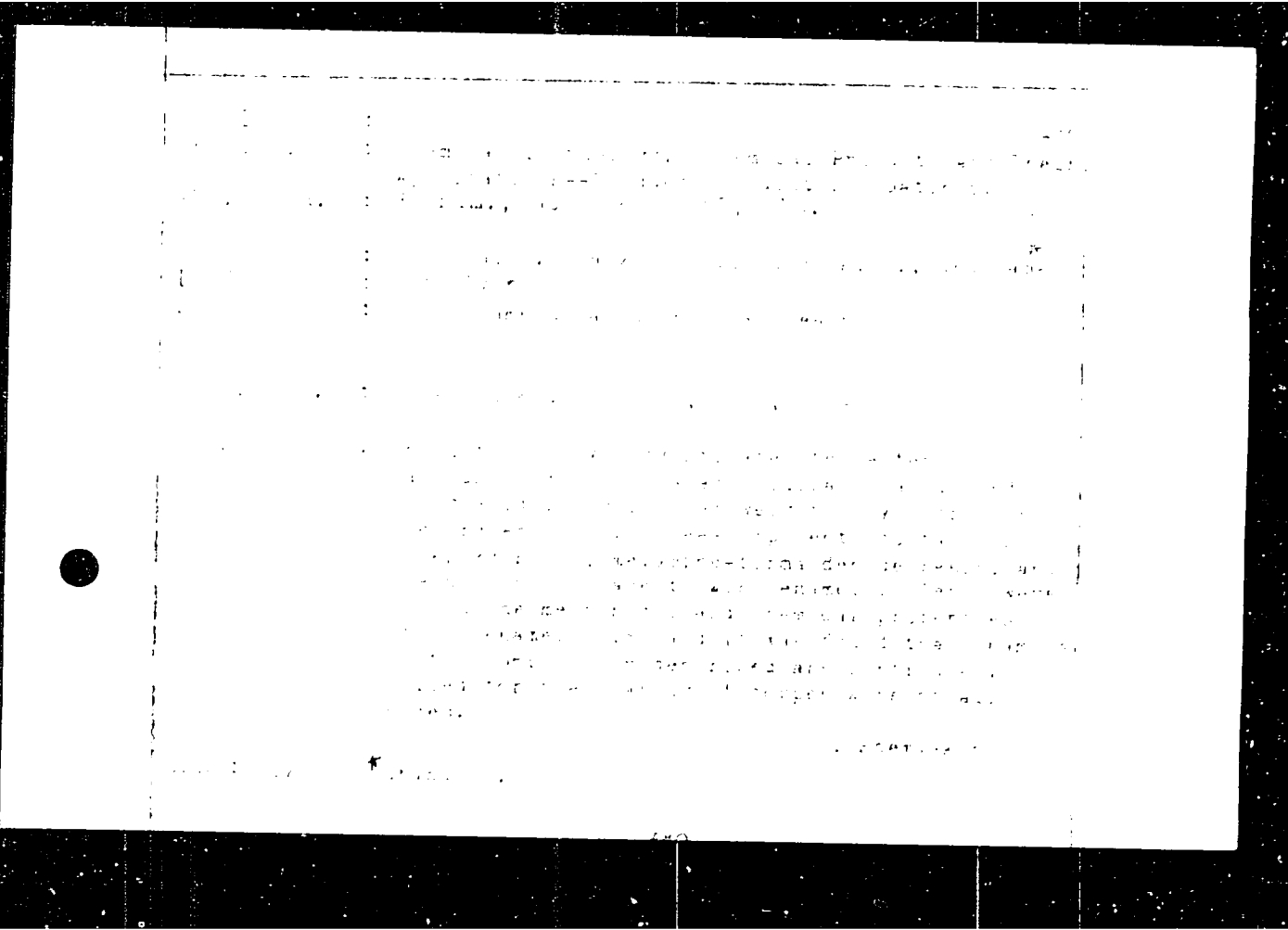
Diatr: 4E2c(j)

Autocondensation of cyclopentanone (Vysokomol. soedin. B, 1967, 9, 1154-5; Czech. Chem. Rev. 31, 2304-7 (1967)).—Alk. autocondensation yields in addn. to the known products (cf. Plešek, C.A. 50, 7762b) 2 unsatd. ketones, $C_{11}H_{18}O$. Heating 700 g. cyclopentanone and 2.5 g. ground KOH 2 hrs. on an oil bath while removing H_2O (107 ml.) azeotropically and letting the mixt. stand overnight gave cryst. ketone, $C_{11}H_{18}O$; 240 g. filtrate heated with 30 ml. xylene and 1 g. KOH 45 min., 4.7 ml. H_2O sepd. as above, the lower-boiling material rejected, and the residue distd. gave in the fraction, b.p. 180-230°, 13.3 g. yellow needles of ketone $C_{11}H_{18}O$ (I), m. 111° (C.H.), and in the fraction, b.p. 230-5°, 2.5 g. yellow crystals of ketone $C_{11}H_{18}O$ (II), m. 168° (MnCO). I and II refluxed 3 hrs. with fuming HNO_3 gave in both cases mellitic acid, m. 286° (EtOH); hydrogenation over Pt in 9:1 dioxane-AcOH gave the same ketone, $C_{11}H_{18}O$, m. 104-6°, whereas hydrogenation in AcOH yielded the same hydrocarbon, $C_{11}H_{16}$, m. 132°, identical with the hydrogenation product of the compd. $C_{11}H_{16}$ cf. Plešek. Reducing 10 g. 2,5-dicyclopentylidene-cyclopentan-1-one with 1.2 g. $LiAlH_4$ in dry Et₂O, decomg. the mixt. after 1 hr. with 75 ml. H_2O and 50 ml. 10% H_2SO_4 , and repeating the process 5 times gave 40 g. product, b.p. 140-4°, n_D^{20} 1.5371, active H 0.17%. This product (27 g.) passed over 780 g. alk. Al_2O_3 gave in the petr. ether fraction 14.4 g. yellow alc., $C_{11}H_{18}O$ (III), b.p. 117°, n_D^{20} 1.5393, d_{20}^{20} 1.0276, active H 0.30%, and in the C_6H_6 fraction a colorless liquid, b.p. 124°, n_D^{20} 1.5374, d_{20}^{20} 0.9683, from which was isolated by chromatography a compd., $C_{11}H_{18}O$, b.p. 120-30°, n_D^{20} 1.5391, d_{20}^{20} 1.0244, active H 0.16%. III underwent, when passed repeatedly over Al_2O_3 , spontaneous dehydration yielding a hydrocarbon, $C_{11}H_{16}$, b.p. 110°, n_D^{20} 1.5360, d_{20}^{20} 0.9213, which is probably a mixt. of isomers. All isolated compds. show in the ultraviolet spectrum max. suggesting conjugation.

L. J. Urbánek

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CIA-RDP86-00513R001134820002-0"

MLEZIVA, J.; STERNSCHUSS, A.; POLORNY, S.

Solventless polyester lacquers. p. 50

CHEMICKE PRUMYSI. (Ministeratvo chemickeho prumyslu) Praha, Czechoslovakia
Vol. 9. No. 1, Jan. 1959

Monthly List of East European Accessions, (EEAI) LC, Vol. 8, No. 7, July 1959
Uncl.

MLEZIVA, J.

Distr: hE2c(j)

/ The structure of aminoamide resins J. Mleziva
 and Antonín Pánek. Chem. průmysl 9, 1960, 103-104
 The prepn. is described of monobutyl-*tert*-butylamine (I)
 (b_p 140°, n_D²⁰ 1.4680, d₄ 0.9022) and monobutyl-diethylene-
 triamine (II) (b_p 185-205°, n_D²⁰ 1.4970, d₄ 1.0734). The
 formation of imidazole (III) is followed by infrared spectra
 during the heating of tech. aminoamide resins (IV) contg.
 1% concd. HCl (V) at 230° or heating 10 g. I or II with 12
 cc. cyclohexane (VI) at 100°. The prepn. of (III) is observed only
 with II, and IV prepn. from diethylene-triamine, whereas I
 condenses to a cryst. bis deriv., m. 100°. J. Sedláček

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International symposium on macromolecular chemistry, Moscow, 1960.
Nashburudoviy sveshcheniy po makromolekulyarnoy khimii: SSSR, Moscow, 1962.
Izvestiya 1960 g. detsyabr' i yanvar' 1961 g. Sektsiya I. International Symposium on Macromolecular Chemistry Held in Moscow, 1960. International Symposium Summaries. Section I. (Moscow, Izdatvo AN SSSR, 1960) 400 p. 3,000 copies printed.

Sponsoring Agency: The International Union of Pure and Applied Chemistry, Commission on Macromolecular Chemistry

Tech. Ed.: T. V. Polyakova.

PURPOSE: This collection of articles is intended for chemists and researchers interested in macromolecular chemistry.

COVERAGE: This is Section I of a multivolume work containing scientific papers on macromolecular chemistry in Moscow. The material includes data on the synthesis and properties of polymers, and on the processes of polymerization, copolymerization, polycondensation, and polymerization. Each text is presented in full or summarized in French, English, and Russian. There are 47 papers, 28 of which were presented by Soviet, American, Hungarian, and Czechoslovak scientists. No personalities are mentioned. References accompany individual articles.

Plizakova, Ia. I., B. I. Doloplova, I. I. Chernomirskaya, N. K. Krasovskaya, and E. M. Kuznetsova (USSR). The Synthesis of Poly- and Copolymerized Polymers on Oxide Catalysts and a Study of Their Structure and Properties. 11

Kozlov, A. A., T. V. Polyakova, Yu. V. Polubinskaya, and V. I. Gerasimov. Polymerization of Stereoidal Polymers. 47

Kolodnyy, M. I., M. I. Krasovskaya, B. I. Chernomirskaya, and I. I. Chernomirskaya. The Structure of Heterophenylated Polymers. 49

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Yaroslavskiy, P. P., V. I. Gerasimov, M. I. Krasovskaya, and I. I. Chernomirskaya. The Synthesis of Polymers with Functional Groups. 72

Line Polymers of the Type of Poly-pyridine and Poly-pyrimidine. 80

Makarevich, G. S. (USSR). Cyclic Polymerization and Copolymerization of Divergentally Substituted Olefins. 80

Yaroslavskiy, P. P., V. I. Gerasimov, A. P. Kabanov, and M. M. Kabanov. Synthesis of Crystalline Polymers. 117

Alkylated Polymers and Their Properties. 117

Solomon, O. P., M. I. Krasovskaya, E. Abramsh, and M. Kabanov (Russia). Polymerization of Vinylacetate in the Presence of Polyethylene and Titanium Chloride Type Catalysts. 131

Kuznetsov, E. V., S. L. Seleznev, and V. P. Kabanov (USSR). On the Preparation of the New Type of Linear Polymers by the Reaction of Polymerization. 141

Kuznetsov, E. V., A. P. Kabanov, and V. P. Kabanov (USSR). The Synthesis of Organosilicon Polymers on a Complex Catalyst (C₂H₅)₂Al₂Cl₂. 142

Kolodnyy, G. S., S. L. Seleznev, and E. V. Kabanov (USSR). Germanium-Containing Polymers. 146

Chernomirskaya, I. I., B. I. Chernomirskaya, V. I. Gerasimov, E. M. Kuznetsova, and M. I. Krasovskaya. 146

Organic Polymers. L. I. Lermontov, A. P. Kabanov, and V. P. Kabanov. 146

Kolodnyy, G. S., S. L. Seleznev, and V. P. Kabanov (USSR). The Structure of Chemical Structure on the Polymerization of the Organosilicon Compounds. 160

Organosilicon Polymers. 160

Yaroslavskiy, P. P., V. I. Gerasimov, and M. I. Krasovskaya. Cooperative Processes in the Polymerization of Biopolymers. 167

Card 6

MleZIVA, J.

Distr: 4E2c(j)

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Low-molecular-weight epoxy resins and their use in technology. M. Lidáček, J. MleZiva, D. Beranová, and J. Tamchyna. (Výzkumný ústav syntetických pryskyřic a lepek, Pardubice, Czechoslovakia). *Khim. Prom.* 1960, No. 8, 200-13. — Prepa. and use of one type of epoxy resin (I), which is the reaction product of 2,2-bis(4-hydroxyphenyl)propane (II) and epichlorohydrin (III) or dichlorohydrin (IV), is discussed. The reaction is carried out in 2 stages: (1) II reacts with III or IV and forms a corresponding ether. Weaker bases than NaOH, e.g. secondary and tertiary amines and salts of weak acids with strong bases are suitable catalysts for the reaction. (2) The ether is dehydrochlorinated by a known method. The I. prepd. in a 5 cu. m. app. has an epoxy no. 0.52-0.54 g. equiv./100 g. and viscosity at 20° about 200 poises. The yield is approx. 95%. The I. was cured with conventional hardening agents at 80-150° and mainly used in glass-fabric-reinforced laminate production. Some characteristic mech. and insulating properties including mech. properties of welds are given in relation to mol. wt. (850, 600, 400) of I and to the applied hardener.

V. Škubalová

174

MLEZIVA, J

5.3832

AUTHORS: Josef Mleziva and Antonín Pánek

TITLE: Aminoamide Resins

PERIODICAL: Chemický Průmysl, 1960, Nr 7, Pt 386-390

ABSTRACT: An investigation of the preparation and properties of aminoamide resins is described. The properties of the reaction products from aminoamides and epoxy resins are also considered. The term aminoamide-resins refers to products obtained by treating short chain di- and poly-functional amines with polymerized unsaturated vegetable oil fatty acids. It is well known that resins with useful characteristics are obtained, particularly from dimeric acids based on linseed oil and soy-bean oil. These acids are not freely available in Czechoslovakia and the authors have paid particular attention to the preparation of aminoamide-resins from linseed and soy-bean oils as starting materials. The following route was chosen for the preparation of aminoamide resins:

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1. Saponification and esterification with caustic soda and methyl alcohol.

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E112/E453

Aminoamide Resins

2. Isolation of methyl esters of the acids.
 3. Thermal polymerization of methyl esters in an atmosphere of nitrogen.
 4. Amidation of polymeric methyl esters with poly-functional amines the preferred amines being ethylene diamine and diethylene triamine.
- The polymerization and isolation of the dimeric methyl esters is described in detail. It is considered that best results are obtained if the polymerization is proceeded with until the refractive index of 1.477 and a viscosity of 50 cP has been reached. This is attained when the monomer content of the mixture decreases to 40%. It is not advisable, according to the authors, to attempt to reach highest degrees of polymerization because then a high proportion of tri- and tetramers are formed, leading to darkening and jelling of the materials. It was also found an advantage to use monomeric linseed oil or soy-bean oil.

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Aminoamide Resins

rather than the blown oils because the latter are difficult to split. Separation of the different fractions is described and results are tabulated. The products which were obtained on amidation are low-molecular weight-polymers with chains which are terminated by free amino-groups. The authors have found that the properties of their products were identical with analogous products from abroad. Aminoamides prepared from soy-bean oil showed better resistance to light than those from linseed oil. Reaction products from aminoamides and epoxy resins can be used as coating materials and have excellent properties, such as high gloss, elasticity, hardness, tenacity, resistance to flexing, to impact, deformation, abrasion, good resistance to water, oils, diluted alkalies and some solvents. Their chemical resistance is somewhat lower than that of epoxy resins hardened with polyamines. Technological properties in coating applications from

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(b) polymerized soy-bean oil acids, are tabulated and

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Aminoamide Resins

compared. Acknowledgments are expressed to
D. Nejmanov^é VÚSPL, Pardubice, for his assistance.
There are 4 figures, 7 tables and 24 references,
20 of which English, 1 Swedish, 2 German and 1 Czech.

ASSOCIATION: Výzkumný ústav syntetických pryskyřic a laků, Pardubice
(Research Institute of Synthetic Resins and Paints
Pardubice)

SUBMITTED: September 30 1958

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15(1)

H/004/66/33/11
DCC18/D3001

AUTHOR: Mleziva, J., Doctor

TITLE: Wonderful Varnishes

PERIODICAL: Tudomány és Technika, 1966, Nr 9, p. 204

ABSTRACT: The article describes a new polyester varnish called "Veros", developed by the Synthetic Resin and Varnish Research Institute in Bratislava. The varnish is used as protective covering for wooden materials. The varnish consists of an saturated polyester resin dissolved in styrene. Organic peroxide and organic cobalt salt may be added to the solution. The varnish is extremely resistant to acids, alcohols, acetone, ultra violet rays and heat.

Card 1/1

MLEZIVA, I.; YARUSHEK, Ya.

Production of thixotropic alkyd resins. Lakokras.mat. i ikh
prim. no.2:12-17 '61. (MIRA 14:4)

1. Nauchno-issledovatel'skiy institut sinteticheskikh smol i
lakov i Khimiko-tehnologicheskij institut, Pardubitse, Chekhos-
slovatskaya SSR.

(Resins, Synthetic)

12954

S/081/62/000/022/072/088
B166/B144

15 86
AUTHORS: Mleziva, Josef, Hanzlik, Vladimir
TITLE: A method of producing polyamides

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 555, abstract
22P370 (Czech. patent 98358, Jan. 15, 1961)

TEXT: Polyamides with an amine number 20-510 are produced by the inter-
action at 100 - 250°C of polyamines containing $\sim 2 \text{ NH}_2$ or NH groups
(e. g. ethylene diamine, diethylene triamine, polyethylene polyamines, etc)
with polycarboxylic acids of the $\text{R-CH}_2\text{COOH}$ type (where R is phenylene or
dialkyl phenylene, $x = 2-3$), or with their alkyl, aryl and halogen
derivatives and esters, or with mixtures of these and polymerized fatty
acids, such as for example the acids of linseed and soya oil (or their
esters); the content of the aforesaid acids in these mixtures being from
99 : 1 to 1 : 99. The ratio of COOH or ester groups and amino groups in
the components of the reaction mixture is from 1 : 0.9 to 1 : 10. The
presence of phenol radicals in the dicarboxylic acids, particularly

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B166/B144

A method of producing polyamides

$C_6H_4(CH_3)_2C_6H_4$, raises the softening point of the resins as well as the hardness and chemical stability of the final products. Example. 90 parts by weight propane diphenoxy acetic acid, $172^{\circ}C$, and 60 parts by weight diethylene triamine are heated for 4 hrs in an N_2 atmosphere at $200^{\circ}C$ and finally the pressure is reduced to 400 mm Hg for 30 min. The resin produced has the amine number 282 and contains 13.5 % N. Abstracter's note: Complete translation.

S/081/62/000/022/081/088
B101/B186

AUTHORS: Mleziva, J., Vlček, J.

TITLE: Polyester lacquers not inhibited by atmospheric oxygen

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 553 - 554,
abstract 22P473 (Lakokrasochn. materialy i ikh primeneniye,
no. 2, 1962, 15 - 17)

TEXT: Methods for producing unsaturated air-drying polyester lacquers (UPL) free from supernatant admixtures are surveyed. In the CSSR, a recipe was elaborated for UPL uninhibited by atmospheric oxygen and containing 30 - 40 % of the polyfunctional GAF monomer, i.e., bis-(glycerol-monoallyl)fumarate.. GAF is obtained when allyl glycidic ester reacts with fumaric acid in the molar ratio of 2:1. The secondary reactions that occur in the synthesis of GAF and the methods of suppressing them are indicated. GAF with a viscosity of 44.75 poises at 20°C and a molecular weight of 625 is used to modify UPL. The testing of UPL with GAF addition has revealed that they offer notably better light resistance than UPL modified with isocyanates, are harder and more resistant to solvents than

Card 1/2

Polyester lacquers not inhibited...

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B101/B186

UPL based on solid polyesters, give better elasticity and adhesion than paraffin-containing UPL, and are not inferior to the best paraffin-free UPL specimens imported. 52 references. Abstracter's note: Complete translation.]

LIDARZHIK, M. [Lidarik, M.]; STARY, S.; MLEZIVA, Y.

Cationic polymerization of glycidol ethers. Vysokom.soed. :
no.11:1738-1747 N '63. (MIRA 17:1)

1. Nauchno-issledovatel'skiy institut sinteticheskikh smol : Dukov,
Chekhoslovakiya.

MLEZIVA, J.; VLCEK, J.; RUZICKOVA, J.; MICEK, J.

Polyfunctioned monomers as additive for noninhibited polyester varnishes. Chem prum 13 no.6:328-333 Jo '63.

1. Vyzkumny ustav syntetickych pryskyric a laku, Pardubice (for all except Micek). 2. Vysoka skola chemickotechnologicka, Pardubice (for Micek).

JAROUSEK, J.; MLEZIVA, J.

Preparation of thixotropic alkyds. Chem prum 14 no. 4:184-188 Ap
'64.

1. Higher School of Chemical Technology, Pardubice (for Jarousek).
2. Research Institute of Synthetic Resins and Lacquers, Pardubice
(for Mleziva).

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MLEZIVA, Josef

Effect of the structure of tertiary aromatic amines on the
hardening of unsaturated polyester resins. Chem prum 15
no.2:80-85 F '65.

1. Research Institute of Synthetic Resins and Lacquers, Pardubice,

MLEZIVA, Miroslav (Praha)

Independence of the Hermes-Scholz axiomatic system of propositional
calculus. Cas pro pest mat 84 no.4:454-460 '59 (ZEAI 9:3)
(Calculus) (Matuces) (Logic, Symbolic and mathematical)

27829

Z/028.60 000/006/001-003
D241/D303

16,4000 (1121, 1132, 1031, 1329)

AUTHOR Mleziva Miroslav

TITLE On the theory of the final automatic device (neuron network)

JOURNAL Pokroky matematiky, fysiky a astronomie no. 6 1960, 645-668

TEXT This article describes some basic properties of the "final automatic device" - this being a new branch of cybernetics. A.A. Ivapunov (Ref. 7 Sessiya Akad. Nauk SSSR po nauchnym problemam avtomatizatsii proizvodstva Plenarnyye zasadeniya Izd. AN SSSR, 1957) classes it on the same level as the information theory as a main branch of cybernetics. Generally an automatic device can have any number of inputs and any number of outputs; these can be either excited or not excited. Further, such a device has a definite delay. The actual in-
putations are limited to units with one output. Fig. 2 shows some basic automatic device elements. The first example shows an output which
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x will be excited (in time t) if at least one of the inputs is excited.
 (time t - 1): the second example assumes that both inputs are excited
 excited (in time t - 1) for the output to be excited (in t); the third
 case where the output is excited (in t) if the input is excited
 (in t-1); the figure inside the ring shows the number of input excitations
 needed to excite the output after the inevitable delay, see Fig. 1.
 x = any number, and x = characteristic). In logical terms example
 1) $p \vee q$ (at least one) 2) $p \wedge q$ (both) and 3) $\neg p$ (equal), are all
 delayed (one stage). These single elements are used to build more com-
 plex units, the condition being that to any output only one input may
 be connected. Fig. 3 shows such a unit, its formula $\forall(t) = p(t-3) \vee$
 $q(t-2) \wedge q(t-2)$. Fig. 6 shows two automatic device systems, to be
 investigated: a) $(p \wedge q) \vee (p \wedge \neg q)$ b) $(p \vee q) \wedge (q \vee \neg p)$. Having p
 excited in time 2 and not in 3, while q is excited in 3 but not in
 2, ..., a) will not be excited (x) and b) will be. This shows that
 ordinary logical methods are inadequate to deal with these units. Some
 of the rules are explained, e.g. the brackets: anything but a simple

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variable goes into a bracket; e.g. $\{ (+p) \vee [-((-q) \& (-r))] \}$, the order; $\{ (+p)^2 \vee [-((-q)^3 \& (-r)^3)] \}$ etc. so, that (F) $\{ [(-p)^3 \vee q^2]^1 \& [(-q)^3 \vee p^2]^1 \}^0$ signifies that automatic device (F) has excited output only when input p is not excited in 3 but input q is excited in 2, and input q is not excited in 3 but p is excited in 2. The method of tabulation also has to be modified, to allow for the delay. An automatic device with cycling "memory" can be defined as having two phases: Fig. 12 is the automatic device and Fig. 13 are the two phases. Fig. 14 shows a more complicated arrangement that can be described as: $\{ p^1 \vee [(+q)^3 \vee (r^3 \& s^3)]^2 \}^1 \}$. this automatic device has two possible states: $\{ p^1 \vee [(+q)^3 \vee (r^3 \& s^3)]^2 \}^1 \}$, and

$\{ p^1 \vee [(+q)^3 \vee (r^3 \vee s^3)]^2 \}^1 \}$. depending whether

the cycle is working or not. The conditions for this automatic device are tabulated. The next stage is the use of several cycling units in

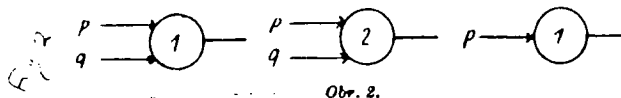
Card 3/7

27829

Z/028/60/000/006/001/003
D244/D303

On the theory of the ...

one system see Fig. 15. a. with common input, etc. Again the conditions are listed in tabulated form. Equivalence occurs in the case of the cycling automatic device only if 1) the formulae for the non-fulfilled conditions are equivalent, 2) the formulae for the fulfilled conditions are equivalent, and 3) the conditions of both tables are equivalent. On a device with learning ability, reference is made to the work of Pavlov and Uttley (Ref. 13: A.M. Uttley, Sbornik "Avtomaty" Moskva 1956). Fig. 19 shows a simple "learning" automatic device; Table 13 lists the conditions that determine its behaviour. There are 20 figures, 14 tables and 15 references: 7 Soviet-bloc and 8 non-Soviet-bloc. The 2 references to the English-language publications read as follows: W.R. Ashby, The nervous system as physical machine; with special reference to the origin of adaptive behavior, Mind 1947. 221. B. Sobocinski, On a universal decision element J. of computing systems, 1953.



Card 4/ 7

MLEZIVA, Miroslav (Krasnoarmejsu 2, Praha 1)

Axiomatization of three-valued prepositional logic. Cas pro pes mat
86 no.4:392-403 '61.

1. Filozoficke-historicka fakulta Karlovy university, Praha.

(Axioms) (Logic, Symbolic and mathematical)

LIDARZHIF, M.; STARY, S.; MLEZIVA, Y.

Anionic polymerization of glycidol ethers. *Vysokom.sped.* 5 no.11:
1748-1753 N '63. (MIRA 17,1)

1. Nauchno-issledovatel'skiy institut sinteticheskikh smol i lakov,
Chekhoslovakiya.

MLIKOVSKY, Josef, Dr.

Prof., Dr., Vaclav Matys and Doc., Dr., Jan Mitvalsky, their
lives and activities. Cesk. ofth. 12 no.6:451-459 Dec 56.

(BIOGRAPHIES,
Matys, Vaclav (Cz))
(BIOGRAPHIES,
Mitvalsky, Jan)

YUGOSLAVIA / Analytical Chemistry. Inorganic Analysis. E

Abs Jour : Ref Zhur - Khimiya, No 23, 1959, No. 81983

Author : Stevanovic, Mirko; Mlinar, Anton; Kangrga,
Dusanka

Inst : Not given

Title : The Detection of Fluoride

Orig Pub : Vojnosanit. pregl., 1959, 16, No 3, 217-219

Abstract : A microcrystalloscopic method for the detection of F^- has been developed. To 1 drop of the solution to be analyzed, placed on a microscope slide, 1 drop of saturated $PbCl_2$ solution is added and the crystals formed are observed under 100 x magnification. At optimum conditions (1 F in 1 drop, dilution 1 : 50,000) starlike $PbFCl$ crystals are formed; at 0.1 F^- (dilution 1 : 500,000), still visible crystals are grain-

Card 1/2

STEVANOCIV, Mirko; MLINAR, Anton; KANGRGA, Dusanka

Determination of fluorides. Voj. san. pregl., Beogr. 16 no.3:217-219
Mar 59.

1. Vojnomedicinska akademija u Beogradu Institut za toksikologiju.
(FLUORIDES, determ.
(Ser))

MLINAR, M.

Czechoslovak heavy engineering AT international fairs and exhibitions. 1.2

CZECHOSLOVAK HEAVY INDUSTRY. (Ceskoslovenska obchodni komora) Prague,
Czechoslovakia, No. 3, 1959

Monthly List of East European Accessions (EPAI), LC, Vol. 8, No. 7, July 1959
Uncl.

MLINAR, M.

100 years in the service of progressive technology. p. 2

CZECHOSLOVAK HEAVY INDUSTRY. (Ceskoslovenska obchodni komora) Prague,
Czechoslovakia. No. 5, 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 7, July 1959
Uncl.

MLINAR, M.

Progressive tasks of Czechoslovak engineering production. p. 2

CZECHOSLOVAK HEAVY INDUSTRY. (Ceskoslovenska obchodni komora) Prague,
Czechoslovakia. No. 6, 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 6, No. 7, July 1959
Uncl.

MLINARIC, D.; RADEVIC, E.

Role of the working collective in electric industries of Zagreb. p. 399.

ENERGIJA. (Zajednica elektroprivrednih poduzeca Hrvatske i Institut za elektroprivredu u Zagrebu) Zagreb, Yugoslavia. Vol 7, no. 10, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 6, June 1959.

Uncl.

MLINARIC, G.

Revolutionary work at the former Electric-Power Plant in Zagreb. p. 405.

ENERGIJA. (Zajednica elektroprivrednih poduzeca Hrvatske i Institut za elektroprivredu u Zagrebu) Zagreb, Yugoslavia. Vol. 7, no. 10, 1958.

Monthly List of East European Accessions (EMAI) LC, Vol. 8, no. 6, June 1959.

Uncl.

L 23845-65 EWT(m)/EWA(d)/EWP(t)/EWP(k)/EWP(b) Pf-4 MJW/JD/HW
ACCESSION NR: AR5000588 S/0137/64/000/008/D039/D039

SOURCE: Ref. zh. Metallurgiya. Sv. t., Abs. 8D229

AUTHOR: Rudoy, V. S.; Mlinarich, B. A.; Bogdanova, T. M. B

TITLE: The possibility of rolling pipes of chromium-nickel-manganese steel

CITED SOURCE: Sb. Proiz-vo trub, vy* p. 12. M., Metallurgiya, 1964, 10-14

TOPIC TAGS: chromium-nickel-manganese steel, pipe, hot rolling, broaching/ steel EP278, steel EI835

TRANSLATION: An investigation was made of the special industrial characteristics of hot working of two chromium-nickel-manganese steels containing nitrogen and boron - steels EP278 and EI835, both of which differ basically in their silicon and manganese content. Test rolling of billets with square and circular cross sections on a mill with barrel rollers made it possible to construct a power diagram for each case of rolling. Results of hot torsion tests were

Card 1/2 * [Broaching probably means "piercing"]

L 23845-65

ACCESSION NR: AR5000588

confirmed in testing steel EP278 for broachability* by rolling tapered samples on a laboratory roller broaching* mill. Broaching* on a 140 automatic roller broaching mill showed that heating of billets made of steel EP278 reaches 130-140° with a reduction in drawing of 1.75-2.00. It was established by the investigation that the mechanical properties of steels EP278 and EI835 at room temperature are characterized by a combination of high values for indices of strength, ductility, and impact resistance. Both steels are characterized by a lowering of the yield point with an increase in hot working temperature accompanied by a relatively small change in tensile strength. The low ductility of steel EP278 in the hot state does not permit it to be used for rolling pipes of satisfactory quality on a 140 automatic installation. To produce pipes of this steel other hot working processes must be applied which assure a more favorable system of the state of stress in low ductility metal: pressing, rolling on a pilger mill, etc. The somewhat better industrial properties of steel EI835 provide a basis for considering that pipes can be made from it on a 140 automatic installation. K. Ursova.

SUB CODE: MM

ENCL: 00

Card 2/2

L 20601-66

ACC NR: AP6010136

EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k) JD/HW

SOURCE CODE: UR/0133/66/000/003/0248/0250

AUTHOR: Rudoy, V. S. (Candidate of technical sciences); Alferova, N. S. (Doctor of technical sciences); Mlinarich, B. A. (Engineer); Bogdanova, T. M. (Engineer); Sadokov, G. M. (Engineer); Mel'nichenko, I. F. (Engineer); Kirvalidze, N. S. (Engineer); Kurilenko, V. Kh. (Engineer); Onishchenko, M. P. (Engineer)

51
49
13

ORG: none

TITLE: Production of tubes from OKh20N5T stainless steel

SOURCE: Stal', no. 3, 1966, 248-250

TOPIC TAGS: stainless steel, low nickel steel, stainless steel tube, tube rolling, hot rolling / Okh20N5T steel, EP299 steel

ABSTRACT: Technological properties of EP299 (OKh20N5T) stainless steel and the conditions for tube rolling this steel have been studied. The steel, annealed at 1050C for 15 min and air cooled, has a tensile strength of 101 kg/mm², a yield strength of 34 kg/mm², an elongation of 40.6%, and a reduction of area of 62.1%. Corresponding figures for test temperature at 350C are 52 kg/mm², 39.0% and 69.7%. The steel is very sensitive to the cooling rate: slow cooling sharply reduces the elongation and impact strength. The plasticity of EP299 steel does not change in the 1100-1250C range, but increases sharply with further increases in temperature and rapidly increasing content of α -phase. Up to 1250C the plasticity of EP299 steel is much

Card 1/2

UDC: 621.744.35

L 20601-66
ACC NR: AP6010136

lower, but at 1275C and over much higher, than that of Kh18N10T and EI-811 steels. The hot working of EP299 steel must be done at temperatures over 1250C. The steel, however, has a tendency to stick to guide bars. With guide bars made from G18 steel (1.4-1.8% C, 16-19% Mn) and piercing done at 1275-1300C, the tendency to stick was greatly reduced. The mechanical properties and surface quality of hot-rolled and heat-treated EP299 tubes were satisfactory, and the tubes were suitable for cold rolling and cold drawing. Orig. art. has: 2 figures.

4

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 003/ ATD PRESS: 4/225

[AZ]

Card

2/2 BK

Mlinks, A.

Aromatic substitution. II. Nitration of aromatic compounds with nitrogen tetroxide and other stable nitrogen salts. (C. Olah, S. Caha, and A. Mlinks (Hung. Akad. Sci., Budapest). *J. Chem. Soc.*, 1950, 4277-8; *C.A.* 51, 2602). Adding 20 g. HNO_3 at -20° to 100 g. NO_2 in 150 g. MeNO_2 and satg. the mixt. with H_2O ; yield 84% NO_2RF (I), decompos. about 170° without melting, stable in the absence of H_2O but absorbing H_2O with desingn. With SnCl_4 in lieu of RF , 93% $(\text{NO}_2)_2\text{RF}$ (III) is obtained. NO_2SbF_6 (III) and NO_2PF_6 (IV) are prepd. according to Woolf and Bmclaus (*C.A.* 43, 2809a). I-IV are used for the nitration of aromatic compds. (V). For the nitration, 0.1 mole NO_2 salt is added to small portions to 0.2 mole V with NaCl -ice cooling; the mixt. kept several hrs., and the washed (neutral) and dried product distd. (method A); with deactivated compds., such as PhNO_2 , the reaction is effected at $2-130^\circ$ (method B); and for solid or highly sensitive ring systems in 5-10% H_2O soln. (method C). The following V have been nitrated (% yield of mononitro compd. and method given): With I, C_6H_6 , 87, A; PhMe , 83, A; PhNO_2 , 85.5, B; PhF , 82, A; PhCl , 77, A; PhBr , 90.5, A; PhI , 88, A; $o\text{-C}_6\text{H}_4\text{Cl}$, 61.5, A; C_6H_5 , 63, C; anthracene, 98, C; thiophene, 94.6, C; furan, 14, C. With II, C_6H_6 , 93, A; PhNO_2 , 82, B. With III, C_6H_6 , 84, A. With IV, C_6H_6 , 90, A. I has a sp. cond. $k = 0.75 \times 10^{-4} \text{ cm}^{-1} \text{ cm}^{-1}$ in 0.02% MeNO_2 ; in 0.2% MeNO_2 soln. $k = 6.3 \times 10^{-4} \text{ cm}^{-1} \text{ cm}^{-1}$.

F. E. Brauns

John 20

FM MK

MLINKO, Sandor

Achievements obtained in the analysis of radioactive coal and some possibilities of their application in the organic microanalysis; a contribution to the account by the Section's leadership, also, remarks by Erno Pugor and others. Kem tud kozl MTA 14 no.2:243-247 '60. (EEAI 10:2)

(Hungary--Microchemistry) (Coal)
(Radioactive substances)
(Hungarian Academy of Sciences)

MLINKO, Sandor (Budapest)

An account of my study trip in the Soviet Union. Kem tud kozl MTA 16 no.1:137-138 '61.

1. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete, Budapest.

(Organic compounds) (Chemistry, Analytic)
(Hungarians in Russia)

MLINKO, Sandor (Budapest, II., Pusztaszeri ut 59/67); SZARVAS, Tibor (Budapest, III., Konkoly Thege ut)

Gas analysis of ^{14}C -carbon in the form of methane. Acta chimica Hung 33 no.1:107-120 '62.

1. Central Research Institute for Chemistry, Hungarian Academy of Sciences, Budapest, and Isotope Research Group of the Factory of Chemical Reagents "Reanal", Budapest.

I. 35958-66 JAJ

ACC NR: AP6027362

SOURCE CODE: HU/0025/65/023/003/0339/034

AUTHOR: Mlinko, Sandor

ORG: Central Chemical Research Institute, MTA, Budapest (MTA Kozponti Kemiai Kutato Intezet)

TITLE: Report on Austrian study trip

SOURCE: MTA. Kemiai tudomanyok osztalyanak kozlemenyei, v. 23, no. 3, 1965, 339-341

TOPIC TAGS: chemical separation, chemistry technique

ABSTRACT: Author worked at the Institute of Inorganic Chemistry of the University of Vienna between Oct 63 and May 64. He was engaged in the study (under Docent Dr. Schoenfeld) of the characteristics of the uptake of anionic complex-forming ligands. The purpose of the experiments was to work out radiochemical separation methods, demonstrate the complexes forming in the solutions, and study the interaction between ion exchangers and complexes. Orig. art. has: 2 figures. [JPRS: 35,397]

SUB CODE: 16 / SUBM DATE: none

ms
Card 1/1

AID P - 5261

Subject : USSR/Engineering
Card 1/1 Pub. 11 - 12/15
Authors : Grabin, V. F. (Electrowelding Institute im. Paton) and
I. B. Mlinov, (Stalingrad Machine-Building Plant)
Title : Resistance slag welding of connecting rods used in hydro-
electric power installations.
Periodical : Avtom. svar., 4, 115-119, Ap 1956
Abstract : The authors describe the welding of connecting rods
2 1/2 to 3 m long and 125mm in diameter at the Stalin-
grad Machine-Building Plant for the Kuybyshev hydro-
electric power station. One comprehensive table and
2 drawings.
Institutions: As above
Submitted : No date

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134820002-0"

PHASE I BOOK EXPLOITATION

SOV/4554

Mlinov, Isaak Bentsionovich, Engineer

Elektroshlakovaya svarka krupnogabaritnykh, tolstostennykh konstruksiy (Electro-
slag Welding of Large Thick-Walled Constructions) [Stalingrad] Stalingradskoe
knizhnoye izd-vo, 1960. 34 p. 3,000 copies printed.

Ed.: B.S. Smagorinskiy; Tech. Ed.: S.I. Izhboldina.

PURPOSE: This booklet is intended for welding engineers.

COVERAGE: The author describes the essence and the special features of the
electroslag welding process developed by the Institut elektrosvarki (Institute
of Electric Welding imeni Ye. O. Paton) of the Ukrainian Academy of Sciences.
Also discussed are the advantages of forged-section weldments over all-forged
constructions. No personalities are mentioned. There are 2 references, both
Soviet.

Card 1/2

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GRIGORYAN, G.K.; MLKUMYAN, G.O.

Furrow irrigation of alfalfa. Izv.AN Arm.SSR.Biol.i sel'khoz.nauki.
9 no.4:63-67 Ap '56. (MLBA 9:8)

1. Armyanskiy nauchno-issledovatel'skiy institut tekhnicheskikh kul'-
tur Ministerstva sel'skogo khozyaystva Armyanskoy SSR.
(Armenia--Alfalfa) (Irrigation farming)

MLNARIKOVA, J.; JANKOVA, J.; HUZL, F. Technická spolupráce: EYBLOVE, M.

Lead poisoning in tender workers. Prac. lek. 2: 1:24-27
Ja'64.

1. Oddelení chorob z povolání a průmyslové toxicologie fa-
kultní nemocnice v Plzni; vedoucí: MUDr. F. Hužel, CSc.

MIACEK, A.

"Vegetable production on the collective farms in Krakow Voivodeship."

p. 692 (Nowe Rolnictwo, Vol. 7, No. 17, Sept. 1958, Warsaw, Poland.

Monthly Index of East European Accessions (MEAI) IC, Vol. 8, No. 1, Jan. 1959

LADA, Zygmunt, mgr inż.; MLODECKA, Jadwiga, mgr

Studies on the possibility of alkalimetric determination of
 ϵ -caprolactam after hydrolysis to ϵ -aminocaproic acid.
Chem anal 9 no.2:359-364 '64.

1. M.Struszynski Analytical Department, Institute of General
Chemistry, Warsaw.

Młodecka, J.

POL. 5

5474

546.331.01 : 546.546.3 : 547.033 0.01 : 674.019.3

Młodecka J. The Determination of Sodium Fluoride, Dinitrophenol and α -Nitronaphthalene in Fungicides Used for the Impregnation of Wood.

„Oznaczanie fluorku sodowego, dwunitrofenolu i α -nitronaftalenu w preparatach grzybobójczych stosowanych do impregnacji drewna”. Przemysł Chemiczny, No. 2, 1954, Biul. Plac. Nauk.-Bad. MPChem, pp. 109--112, 9 tabs.

Attempts were made to determine sodium fluoride, dinitrophenol and α -nitronaphthalene in fungicide compositions containing as fillers, coal pitch, fuel oil and solvent naphtha; it was found best: 1) to isolate the sodium fluoride either through combustion or through dissolving organic matter in carbon tetrachloride, and then to effect the determination in remains by titrating with hydrochloric acid and silica; 2) to isolate the dinitrophenol by extraction with a 5% solution of sodium bicarbonate, and after reduction with glucose, using selenium and copper sulphate as mineralizing catalyzers, to determine it by Kjeldahl's method; 3) after isolating the dinitrophenol from the carbon tetrachloride solution and distilling the solvent, to determine in the remaining substance, the α -nitronaphthalene after reduction to α -naphthylamine by means of diazotisation.

MLODECKA J.

1657

547.484.704 : 546.226.131-31.09 : 545.81

Młodecka, J. Colorimetric Determination of Cyclohexanone Oxime Using Sulphuryl Chloride.

„Kolorymetryczne oznaczenia oksymu cykloheksanu za pomocą chlor-
ku siarczynu”. Przemysł Chemiczny, No. 11, 1954, pp. 579—580, 1 fig.

On the basis of experiments it was found that: — 1) sulphuryl chlor-
ide is more suitable than chlorinated urea as a chlorinating agent for
the colorimetric determination of cyclohexanone oxime, because it is
durable and easily obtained, and gives results as good as those with chlo-
rinated urea; 2) the determination of cyclohexanone oxime in solutions
must be carried out after its previous extraction by chloroform and
after removal of CHCl_3 by distillation. The preservation of acid solutions
produces incorrect results as to the initial content of cyclohexanone
oxime in these solutions; solutions in which cyclohexanone oxime is to
be determined must therefore be neutralized; 3) the concentration limit
of cyclohexanone oxime, which can be determined by means of sulphuryl
chloride, is 0.2 mg in 10 ml. solution.

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MLODECKA, J.

547.534.2.04 : 543.8

✓
Młodecka J. Determination of Xylene Isomers
"Oznaczanie izomerów ksylenu". Przemysł Chemiczny. No. 6. 1955.
pp. 315-317, 3 tabs.

Xylene isomers were determined by nitration with a mixture of 1 pt. of nitric acid, specific gravity 1.32, and 4 pt. of sulphuric acid, specific gravity 1.84. M-xylene is determined by weight after crystallization from the acetone of its trinitro derivative, and p-xylene after crystallization from the ethyl alcohol of its dinitro derivative. The difference between the sum of the two contents and 100 stands for the combined content of o-xylene and impurities. The percentage values obtained for m- and p-xylene are smaller than the real content and, consequently, the content of the remaining components is exaggerated. The error in the method of determining m- and p-xylene is in the region of 3 per cent. In computing the percentage content, corrections must be made to allow for the solubility of trinitro-m-xylene. The results depend above all on a proper temperature.

M. A. YOLTZ
3 copies

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POLAND / Analytical Chemistry. Analysis of Organic
Substances.

E-3

Abs Jour: Ref Zhur-Khimiya, 1958, No 17, 57251.

Author : Minczewski J., Mlodecka J.

Inst : Not given.

Title : Titration in Waterless Media. III. Determination
of Nitroguanidine in Commercial Products.

Orig Pub: Chem. Anal., 1957, 2, No 2, 176-182.

Abstract: A method for determining nitroguanidine (I) in commercial products containing NH_4NO_3 (II) and other impurities was developed. The sum of I and II is determined by potentiometrical titration of a sample dissolved in glacial CH_3COOH while using glass and AgCl electrodes. For the determination of II another sample is dissolved in CH_3OH and titrated with a solution of CH_3ONa that contains either Sb^-

Card 1/2

~~5 ADW 10 A M Lodecka~~ MLODECKA J

Determination of small amounts of amines. *Jadwiga Młodnicka and Alicja Hoidacka (Inst. Gen. Chem., Warsaw; Chem. Abstr. (Warsaw) 3, 103-110 (1957); cf. Pol. Spec. Tesis 1954, C.A. 48, 3254g.*—A simple app. was constructed for detg. small amts. of amines in dry substances and in solvents such as CCl₄ and MeOH at concns. between 0.5 and 1 g./l. Z. Kuriyka

MLODECKA, J.

7
 ✓ Colorimetric determination of *p*-cresol. Jadwiga Młod
decka. Chem. Anal. (Warsaw) 4, 45-52 (1969) (English
summary).—The Nicolas-Buret method (cf. Nicolas and
 Buret, *C.A.* 51, 137a) for detg. *p*-cresol, was modified.
Preparation of standard curve. Mix 1 ml. 1% 1-nitroso-2-
 naphthol in glacial AcOH with 1.3-1.9 ml. glacial AcOH,
 add 0.1-0.7 ml. of *p*-cresol in glacial AcOH, shake, add 25
 ml. H₂O, 2.5 ml. concd. HCl and immediately 1 ml. 3.5%
 NaNO₂. Stir and leave for 20 min. Dil. with H₂O to 50
 ml., filter, and det. absorption in a Visomat absorption
 meter with 20-mm. cells and green filter. Max. absorption
 occurred at 500 m μ . Time of detn. is about 40 min. The
 method is suitable for detg. *p*-cresol in presence of phenols,
 volatilized with steam and contg. no substituent in the para
 position. It makes possible the detn. of 20-500 mg. of *p*-
 cresol in 50 ml. solu. Detns. were not affected by *m*- and
o-cresols. Z. Kurtyka

2
HE 3 d
2 May

MLONECKA, J.

Bromometric determination of acrylonitrile in an aqueous medium. *Chem. Abstr.*

CHAMIA ANALITYCZNA. Komisja Analityczna Polskiej Akademii Nauk i Naczelna Organizacja Techniczna) Warszawa, Poland. Vol. 4, No. 12, 1959.

Monthly List of East European Accessions (FRAN) LC 71. . . August 1959.
Uncla.

7

Chromatographic separation of phenol and isomeric cresols. I. Jadwiga Miodocka, *Chem. Akad. (Warsaw)* 4, 157-60 (1955) (English summary).—The Hudecek method (C.A. 49, 5210a) was used for sepg. PhOH and isomeric cresols. Whatman papers No. 1 and 4 satd. with steam for 6 days and Whatman No. 4 paper impregnated with phosphate buffer (by immersion into soln. contg. 486.25 ml. 0.02M Na₂HPO₄ and 13.75 ml. 0.1M citric acid) and satd. with steam for 6 days were used. Chromatograms were run either with C₆H₁₁-CHCl₃-EtOH (9:1:0.6) and (or) C₆H₁₁-C₆H₁₁-MeOH (2:24:0.5) and treated with solns. obtained by mixing 10 ml. of sulfanilic acid (0.764 g. in 100 ml. H₂O) with 2 ml. 30% H₂SO₄, cooled, and 4.4 ml. NaNO₂ (0.34 g. in 100 ml. H₂O) was added. Before using the soln. 2 ml. 2N NaOH was added immediately. Mixts. of phenols and standards (0.02% alc. soln. of PhOH (b. 182.2°), of o-cresol (b. 191.1°), of m-cresol (b. 202.7°), and p-cresol (b. 201.9°)) in amts. 1-8 mg. were placed on paper strips. Time of sepn. for Whatman paper No. 1 was about 2 hrs., for Whatman No. 2, and 4 45-60 min. Whatman No. 1 gave no adequate sepn. of phenols. Whatman No. 2 and 4 gave 3 distinct spots of PhOH, o-cresol and mixt. of m- and p-cresols. Spots of PhOH were yellow, p-cresol red-violet, m-cresol orange, and o-cresol yellowish brown. Intensity of spot color for p-cresol was half that for remaining phenols. R_f values for PhOH, o-cresol, m-cresol, and p-cresols were 0.22, 0.54, 0.44, 0.44 for Whatman No. 1; 0.30, 0.62, 0.42, 0.42 for impregnated Whatman No. 2 (chromatograms in both cases were run with C₆H₁₁-CHCl₃-EtOH); 0.19, 0.47, 0.31, 0.33 for Whatman No. 1 and 0.27, 0.60, 0.42, and 0.44 for Whatman No. 4 (chromatograms were run with C₆H₁₁-C₆H₁₁-MeOH).
Z. Kurzyka

3
27 May
4E3d

See
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gJ

LADA, Zygmunt; MLODECKA, Jadwiga

Indirect complexometric determination of pyrocatechol. Chem anal 6
no.1:95-98 '61. (EEAI 10:7)

1. Struszynski Analytical Laboratory, Institute of General Chemistry,
Warsaw.

(Complex compounds) (Pyrocatechol)

JAROCKI, Walenty, doc. inz.; MLODECKI, Jaroslaw, mgr

Effect of certain plasticizing and aerating sealing agents on the properties of concrete used in hydraulic engineering. Inst tech budow biul inf no.11:5-11 '62.

1. Zaklad Zelbetu i Betonu Sprezongego; Instytut Techniki Budowlanej, Warszawa.

MILODECKI, H.

POLAND / General and Specialized Zoology. Insects. Insect and Mite Pests.

Abstr Jour : Ref Zhur - Biol., No 10, 1958, No 4474

Authors : Krawz, J.; Milodecki, H.; Pliszko, A.;
Surzynska, M.; Zaleski, S.

Inst : State Institute of Hygiene

Title : Preliminary studies in the use of high frequency current for the destruction of microorganisms and cereal mites in flour.

Orig Pub : Roczn. Panstw. zakl. hig., 1956, 7, No. 5, 419-423.

Abstract : A generator creating an electric field of 27.50 frequency (the wavelength was 11.1 m) was used. Satisfactory destruction of the rod-shaped potato bacilli (*Bacillus mesentericus*) was not obtained in the experiments. The current had no effect on the vegetative forms of the rod-

Card 1/2

ICM / General and Specialized Zoology. Insects.
Insect and Mite Pests.

No. 300 : 21. Entomology, 1950, 1951, 1952

sampled potatoes. (Bacillus ...)
... of
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rod-shaped
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Card 1/2