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CA

The hydrazide of m-nitrobenzoic acid as a new reagent for the determination of palladium. J. Voříšek and Z. Vejdělek. *Chem. Listy* 37, 50-3, 65-70, 91-5(1943).- $m\text{-}O_2NC_6H_4CONHNH_2$ (I) ppts. Pd quantitatively from acid solns. contg. HCl, H_2SO_4, and HNO_3, forming $(m\text{-}O_2NC_6H_4CO_2NHNH_2)_2PdCl_2$ and the corresponding sulfate. After prolonged washing the chloride complex persists but the sulfate ions are substituted by hydroxyl. I ppts. Hg^{II}, Cu, Fe, Ni, Au, Mo, Pd, Pt, and Os from neutral solns., but only Pd and Au from the acidic solns. The ppt. of Pd is yellowish, and is formed at the diln. 1:100,000 immediately; at the diln. 1:300,000 after 10 min. Add to the acid soln. 10-15 ml. of 1% EtOH-H_2O soln. of I for 0.01 g. Pd, filter off the ppt. after gently heating, wash with 150-200 ml. of hot H_2O, and ignite to Pd which is weighed. A procedure for sepg. Pd from other cations is given. Milos Hudlicky

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VEJDELEK, ZDENEK J.

Chemical Abst.
Vol. 48 No. 5
Mar. 10, 1954
Organic Chemistry

Antihistamine substances. XXVI. Some new heterocyclic derivatives of ethylenediamine. Miroslav Protiva, Jiří O. Jilek, Zdeněk J. Vejdělek, and Otto Exner (Pharm. Biochem. Research Inst., Prague, Czech.). *Chem. Listy* 46, 551-4(1952); cf. *C.A.* 47, 4200a; 48, 146c.—Alkylation of 4-phenyl-1,2,3,4-tetrahydroquinaldine (I), *acridan* (II), and *2-phenyl-5-methyl-4-azaindole* (III) with *N*-substituted aminoalkyl chlorides gave new heterocyclic derivs. of $(CH_2NH_2)_2$, of which only acridan derivs. showed antihistamine activity. 4-Phenylquinaldine (10 g.) reduced with 16.5 g. Na in 165 ml. boiling BuOH gave, through its HCl salt, m. 209-15°, 3.7 g. (37%) I, m. 65-7° (from EtOH). II, m. 168-70°, was prepd. in 71% yield by the reduction of 9-acridanone with Na in AmOH. For the prepn. of III, 3-nitro-2,6-lutidine, m. 37°, b. 220-30°, was hydrogenated over Raney Ni to give 70% 3-amino-2,6-lutidine, m. 123°, b. 228-35°; this treated with BzCl yielded 70% 3-benzamido-2,6-lutidine, m. 171°, which was cyclized to III, m. 280° (decompn.), with NaOEt in 71% yield. I, II, and III with $NaNH_2$ and (alkylamino)-alkyl chlorides gave the following *N*-derivs. of I (% yield and b.p.): I, $Me_2NCH_2CH_2$, 68, $b_{0.4}$ 150-60° (HCl salt, m. 216-17°); $Et_2NCH_2CH_2$, 38, $b_{0.4}$ 165-75° (HCl salt, m. 162.5°); (2-piperidinoethyl), 75, $b_{0.4}$ 180-200° (HCl salt, m. 239-40°); (2-morpholinoethyl), 27, b_1 180-200° (HCl salt, m. 225-7.5°). Derivs. of II: $Me_2NCH_2CH_2$ (IV), 45, b_1 198-200° (picrate, m. 165-6°); $Et_2NCH_2CH_2$, 53, b_1 220° (picrate, m. 269-71°); Me_2NCH_2CHMe (V), 61, b_1 183-4°; Et_2NCH_2CHMe, 35, $b_{0.4}$ 170-5° (picrate, m. 158°). Deriv. of III: $Me_2NCH_2CH_2$, 45, $b_{0.4}$ 200-4° ($2HCl.2H_2O$, m. 213-14°; dipicrate, m. 212°). The disuccinates of IV and V showed 7 times and 2.5 times the antihistamine activity of Benadryl. M. Hudlický

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VEJDELEK, Z.

Pyridine derivatives of pharmacological interest. VI. 6-aminonicotinic acid hydrazide. p.770 (Chemicke Listy. Praha. Vol. 46, No. 12, Dec. 1952)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

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VEJDELEK, Z.J.; TRCKA, V.; PROTIVA, M.

Pyridine derivatives of pharmacologic interest. Part 4. Some new esters and amides of nicotinic acid [abstract; in English]. Sbor.Chekh. khim.rab. 18 no.6:884 D '53. (MLRA 7:6)

1. Pharmaceutical and Biochemical Research Institute.
(Nicotinic acid)

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CZECH

Pyridine derivatives of pharmacological interest. VII. New esters of nicotinic acid. Zdeněk J. Vejdělek, Václav Trčka, Hedvika Chybová, and Luboš Tůma (Farm. biochem., Prague, Czech.). *Chem. Listy* 47, 49–58(1953); cf. *C.A.* 47, 11191i.—5-Substituted 2-mercaptoethylesters of nicotinic acid were prepd. by the following series of reactions: RX (X = 0.5 SO_4, Cl, Br) $\xrightarrow{A}$ RSC(:NH)NH_2HX $\xrightarrow{B}$ RSH $\xrightarrow{C}$ $RSCH_2CH_2OH$ $\xrightarrow{D}$ $RSCH_2CH_2O_2CC$:CH.CH:CH.N:CH. Some of the esters had a considerable peripheral vasodilatation effect which was highest with R = Me, and lowest with R = $C_{16}H_{33}$. The branched alkyls showed the same effect as the straight-chain alkyls, and cyclohexyl approx. the same effect as Ph and pyridyl. (*A*) RX (0.11 mole) in an equal vol. of EtOH was dropped into a suspension of 0.1 mole CS$(NH_2)_2$ in 40 ml. boiling EtOH, the mixt. refluxed 6 hrs., the volatile compds. were evapd. *in vacuo*, the residue was allowed to crystallize, and the crude isothiuronium salts were crystd. from Me_2CO-petr. ether, and their picrates from H_2O (R, X, % yield, m.ps. of the HX salts and picrates given): *Et* (I), 0.5SO_4, 97, 199–201°, —; *Pr* (II), *Br*, 92, 59–61°, —; *iso-Pr* (III), *Br*, 87, 92–6°, 190°; *Bu* (IV), *Br*, 94, 68–70°, 170°; *iso-Bu* (V), Br, 99, 97°, 167–8°; *iso-Am* (VI), Br, 94, 83–5°, 170–1°; C_6H_{13} (VII), *Br*, 91, 75–8°, 148°; $C_{16}H_{33}$ (VIII), *Cl*, 94, 107–9°, 134°; *cyclohexyl* (IX), —, 93, 200–2°, 174–5°; *Ph* (X), —, —; $PhCH_2$ (XI), *Cl*, 92, 149°, —; $PhCH_2CH_2$ (XII), *Br*, 92, 99–100°, 137–8°; Ph_2CH (XIII), *Br*, 92, 180–1°, —; CH:N.CH:CH.CH:C.CH_2 (XIV), *Cl*, 96, 173–5°, 196°. (*B*)RSC(:NH)NH_2.HX (0.1 mole) was refluxed 2 hrs. with 0.1*M* KOH in 150 ml. H_2O, the mixt. cooled to 10°, extd. with Et_2O, acidified with dil. H_2SO_4, extd. again with Et_2O, and the exts. were dried with Na_2SO_4 and distd. The % yields and b.ps. of RSH are listed: I, 82, 36–40°; II, 58, 66–8°; III, 41, 55–7°; IV, 69, 96–8°; V, 53, 82–4°; VI, 60, 114–16°; VII, 84, 147–52°; VIII, 70, b_3 170–90°; IX, 85, 158–60°; X, 90, 167–9°; XI, 68, 193–5°; XII, 85, b_{11} 95–6°; XIII, 51, b_3 138°; XIV, 42, b_{11} 120–5°. (*C*) $ClCH_2CH_2OH$ (0.107 mole) was added slowly (60 min.) to a boiling soln. of 0.1 mole Na in 50 ml. EtOH and 0.1 mole RSH, the mixt. heated 30 min., the EtOH distd. off, NaCl filtered, washed with three 10-ml. portions of EtOH, and the filtrate evapd. and distd. *in vacuo*. Yields and b.p./mm. of $RSCH_2CH_2OH$ are given: I, 90, 183–5°/atm.; II, 75, 95°/15; III, 64, 82–3°/12; IV, 75, 105°/10; V, 65, 101°/10; VI, 80, 110–12°/10; VII, 80, 133°/10; VIII, 85, (m. 58°), 205–8°/3; IX, 95, 137°/10; X, 53, 142–3°/14; XI, 57, 153–5°/12; XII, 86, 142°/1; XIII, 67, (m. 36–8°) 184–5°/1; XIV, 63, 140–50°/1; [picrolonate, m. 161° (from EtOH)]. (*D*) $RSCH_2CH_2OH$ (0.02 mole) in 25 ml. C_6H_6 was mixed with 0.02 mole nicotinoyl chloride in 15 ml. C_6H_6, refluxed 30 min., extd. with three 25-ml. portions dil. HCl (1:3), the soln. of the ester salt alkalinized with 20% Na_2CO_3, extd. with Et_2O, and the ext. distd. *in vacuo*; the picrates of the esters were prepd. by pptg. with picric acid, the HCl salts by pptg with HCl in Et_2O. R, % yields, b.p./2 mm. of the ester, and m.ps. of the picrates and HCl salts are listed): *Me*, 82, 130°, 105°, 111°; I, 78, 132°, 106°, —; II, 69, 144°, 100°, —; III, 96, 138°, 117°, —; IV, 79, 146°, 86°, —; V, 85, 140°, 109°, —; VI, 78, 145°, 92°, —; VII, 77, 173°, 78°, —; VIII, 67, [m. 47° (from ligroine)] 220°, 94°, 85–6°; IX, 71, 182°, 116°, 86–9°; X, 58, 188°, 158° (picrolonate), 91°; XI,

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New derivatives of chromone-2-carboxylic acid as coro-

with [illegible] mole of the [illegible] in 30 ml. EtOH (*method A*), [illegible] of EtOH

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VLJ-DELLA, Z. I.

Bijulolidyl. Z. I. Veldělek, B. Kakáč, and M. Protiva (Farm. biochem. výzkumný ústav, Prague, Czech.). *Chem. Listy* 47, 1676-9(1953).—Julolidine was prepd. from tetrahydroquinoline and $Br(CH_2)_3Br$ in 73% yield and characterized as the *styphnate*, m. 172° (decompn.) (from EtOH); *picrolonate*, m. 194° (from EtOH). *Julolidine* (2.88 g.) dissolved in 12.5 ml. HCl (1:1) was treated at −12° with 10 g. ice and 1.25 g. $NaNO_2$ in 5 ml. H_2O, the ppt. filtered after 2 hrs., dissolved in 10 ml. H_2O, the soln. alkalized with aq. Na_2CO_3 and extd. with Et_2O and C_6H_6. Evapn. of the solvents yielded 1.59 g. (27.7%) *bijulolidyl*, m. 205-6° (from EtOH); *di-HCl salt*, m. above 300°; *dipicrolonate*, m. 193-4° (from EtOH). M. Hudlický

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VEJDELEK, ZDENEK J.

Chemical Abst.
Vol. 48
Apr. 10, 1954
Organic Chemistry

Folic acid and its analogs. Zdeněk J. Vejdělek (Farm. biochem. výzkumný ústav, Praha). ~~Chem. listy~~ 47, 1879-89(1953).—A review with 180 references. M. Hudlický

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CZECH

Pyridine derivatives of pharmacological interest. IX. New β-picolyl-derivatives possessing peripheral vasodilator activity. Zdeněk J. Vejdělek, Václav Trčka, J. Hejný, and V. Vysoteva (Výzkumný ústav farm. biochem., Prague, Czech.). *Chem. Listy* 48, 435-41(1954); cf. *C.A.* 49, 1034f.—β-Picolylmercaptan (0.02 mole), b_{3-10} 115-22°, n_D^{20} 1.5730, in 5 ml. EtOH was poured into a 0.02 mole Na in 10 ml. EtOH, the mixt. treated dropwise with 0.022 mole alkyl halide, refluxed 3 hrs., the EtOH distd. off, the residue dild. with 30 ml. C_6H_6, filtered, and the filtrate distd. Alkyls, yields in %, b_{10}, n_D^{20}, and m.ps. of the picrates (or dipicrolonates) are given. Picrates *Me*, 62, 118, 1.5630, 124; *Et*, 62, 128, 1.5529, 95; *Pr*, 73, 133, 1.5010, 130; *iso-Pr*, 68, 127, 92; *Bu*, 69, 142, 1.4998, 82; *iso-Bu*, 64, 138, 1.4991, 140; 1.4977, *hexyl*, 72, 148, 1.4981, 82; *cyclohexyl*, 58, 145, 1.4695, 154; $PhCH_2$, 92, 175, 1.5039, 110. Picrolonates: $Me_2NCH_2CH_2$, 71, 142, 1.5413, 190; $Et_2NCH_2CH_2$, 74, 153, 1.5351, 163; $Me_2NCHMeCH_2$, 76, 155, 1.5297, 191; $Et_2NCHMeCH_2$, 72, 168, 1.5052, 169. The picrates and picrolonates were crystd. from EtOH-Me_2CO. 2-Hydroxyethyl nicotinate (29 g.) treated in 100 ml. $CHCl_3$ with 30 ml. $SOCl_2$ in 50 ml. $CHCl_3$ gave *HCl salt of 2-chlorethyl nicotinate*, m. 108° (from Me_2CO), which gave by alkalization with Na_2CO_3 and extn. with C_6H_6 25.8 g. (80%) *2-chlorethyl nicotinate* (I), b_{3-4} 128-30°, m. 29°, n_D^{20} 1.5302. I (9.30 g.) dissolved in 70 ml. C_6H_6 was added to a soln. prepd. by refluxing 6 hrs. 5.5 g. 3-pyridylcarbinol with 1.15 Na dust in 350 ml. C_6H_6, the mixt. was refluxed 9 hrs., the NaCl filtered off, and the filtrate distd. to give 6.5 g. (50%) 2-(β-picolyloxy)ethyl nicotinate, b_1 161-3°, $b_{0.4}$ 155°, n_D^{20} 1.4991; *dipicrolonate*, m. 181°. All compds. were tested for their peripheral vasodilating, and some for their antihistaminic and spasmolytic activities.

M. Hudlický

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VEJDELEK, Zdenek, I.

Pyridine derivatives of pharmacological interest. X. ω-Thiocyanoalkylesters of nicotinic acid. Zdeněk I. Vejdělek, Václav Trčka, and Václava Vyšatová (Výzkumný ústav farm. biochem., Prague). *Chem. Listy* 48, 685-91 (1951); cf. C.A. 49, 6951f.—The reactions of HSCN with alkylene oxides, and of KSCN with alkylenechlorohydrins yielded a series of ω-thiocyanato alcs. which reacted with nicotinoyl chloride (I) to give the corresponding ω-thiocyanatoalkyl nicotinates. Their toxicity and effect on blood pressure were investigated. $HOCH_2CH_2SCN$ and $MeCH(SCN)CH_2OH$, resp., were prepd. by treating the oxides with an ether soln. of HSCN, the other thiocyanatohydrins by refluxing a mixt. of 0.05 mole chlorohydrin, 0.06 mole KSCN, and 12 ml. EtOH 6 hrs. at 100-5°, dilg. with 30 ml. Et_2O, filtering off the KCl, drying the filtrates with Na_2SO_4, passing the soln. through a 10-cm. column of Wofatite M, stripping off the solvent, adding 0.5 g. hydroquinone, and distg. *in vacuo*. Mixing 0.05 mole thiocyanatohydrin in 30 ml. C_6H_6 with a soln. contg. 7.1 g. I in 25 ml. C_6H_6, refluxing the mixt. 30 min., collecting the deposited crystals of the

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ester hydrochloride, dissolving them in 10-15 ml. H_2O acidified with 2 ml. HCl, washing the soln. with 25 ml. Et_2O, alkalizing the aq. layer with 20% Na_2CO_3, extg. the ester with ether, and distg. the ext. yielded the *nicotinic esters* of the corresponding thiocyanatohydrins (the starting *ω-thiocyanatohydrin*, its % yield, b.p., and n_D^{20}, the % yield, b.p., and n_D^{20} of the ester, and the m.p. of the picrate of the *ester* given): $NCSCH_2CH_2OH$, 55, $b_{0.2}$ 112-13°, 1.5118, 60, —, —, — (ester, m. 77°); $NCS(CH_2)_2OH$, 68, $b_{0.2}$ 93°, 1.4981, 66 (ester, m. 44°), $b_{0.2}$ 182-4°, 1.5488, 70°; $MeCH(SCN)CH_2OH$, 48, b_1 120-2°, 1.5059, 77; $b_{0.4}$ 103°, $b_{0.4}$ 146°, 1.5470, 104°; $NCS(CH_2)_3OH$, 50, b_1 128-9°, 1.5004, 64, $b_{0.4}$ 190°, 1.5431, 75°; $NCS(CH_2)_5OH$, 33, $b_{0.2}$ 124-5°, 1.4958, 62, —, 1.5425, 181°; $NCS(CH_2)_6OH$, 73, b_1 135-6°, 1.4933, 69, —, 1.5419, 78°. **XI. Basic ethers of 3-pyridylcarbinol.** *Ibid.* 1221-4.—3-Pyridylcarbinol (b_3 92-4°, n_D^{20} 1.5356) (2.2 g.) dissolved in 30 ml. C_6H_6 was added at 70° to 0.46 g. Na covered with 150 ml. C_6H_6, the mixt. was stirred 3 hrs., the Na salt sepd., washed with C_6H_6, suspended in 150 ml. C_6H_6, and treated with 0.022 mole of aminoalkyl chloride in 30 ml. C_6H_6, the mixt. refluxed 14

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ZDENEK J. VEJDELEK

hrs., filtered from NaCl and distd. in vacuo. The following 3 pyridylmethyl amino-substituted alkyl ethers were prepd. (% yield, b.p., and n_D^{20} given): $CH_2CH_2NMe_2$, 68, b_1 105°, 1.5056; $CH_2CH_2NEt_2$, 73, b_1 109°, 1.5032; $CH_2CHMeNMe_2$, 75, b_1 110°, 1.5023; $CH_2CHMeNEt_2$, 69, b_1 116°, 1.5030; $CH_2CH_2NC_5H_{10}$, 53, b_1 1.5052; CH_2CH_2R (R = morpholino), 62, b. 126°, 1.5106. These ethers lower the blood pressure less than their S analogs and their toxicity is lower. Antihistaminic and spasmolytic effect is much weaker than with the derivs. contg. a benzene ring instead of the pyridine ring.

M. Hudlický

3/3

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VEJDELEK,Z.J.; PROTIVA,M.

Drugs blocking the sympatheric ganglia. XII. 1,2,2-trimethyl-1-tetralylmethylamin. Cesk. farm. 13 no.2:49-52 F'64.

Drugs blocking the sympathetic ganglia. XIII. Derivatives of 6-(2-dimethylaminoethyl)-5, 7-dihydro-6H-pyrrilo(3,4-b) pyridine. Ibid: 76-78

1. Vyzkumny ustav pro farmacii a biochemii, Praha.

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PROTIVA, M.; JILEK, J.O.; POMYKACEK, J.; JIRKOVSKY, J.; VEJDELEK, Z.J.
SEIDLOVA, V.

Synthetic analgesics. Pts. 5-6. Coll Cz Chem 28 no.10:2627-2636, 2821-2824 O '63.

1. Forschung institut fur Pharmazie und Biochemie, Prag.

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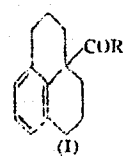
Vegetable ...

CZECH

Structure of some 1-substituted 1-allyl-1,2,3,4-tetrahydronaphthalene-derivatives. Z. J. Vejdělek and B. Kakáč (Výzkumný ústav farm. biochem., Prague). *Chem. Listy* 48, 1053-8(1954); cf. *C.A.* 49, 199g.—During the alk. hydrolysis of 1-allyl-1-cyano-1,2,3,4-tetrahydronaphthalene, a cyclization to the 8-position occurs giving I (R = NH_2) and I (R = O/I). Ultraviolet and infrared spectra of 1-propyl-1,2,3,4-tetrahydronaphthalene-1-carboxamide and of I are given.



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M. Hudlický

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DRTINA, Ctibor, inz.; VEJDELEK, Jiri, inz.

Geodetic operations on assembly constructions. Poz stavby 13 no.3:91-93 '65.

1. Institute of Geodesy and Cartography, Prague.

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Thermal decarboxylation of 1-alkyl- and 1-benzyl-1,2,3,4-tetrahydronaphthalene-1-carboxylic acids. Zdeněk J. Vejdělek and Bohumil Kakáč (Výzkumný ústav farmaceutický, Prague). *Chem. Listy* 48, 1215-20(1954).—Heating 0.005 mole 1-alkyl-1,2,3,4-tetrahydronaphthalene-1-carboxylic acid mixed with 0.02 mole CaO in a Hickman flask, distg. the product, dilg. the liquid with Et_2O and washing it with 5% Na_2CO_3 gave the corresponding 1-alkyltetralin. Approx. 10% of acids were recovered by acidification of the Na_2CO_3 washings. Alkyl group, % yield, b.p., and n_D^{20} of the 1-alkyltetralins are given: *Me*, 81, 222-4°, 1.5448; *Et*, 77, 240-1°, 1.5312; *Pr*, 78, 257-8°, 1.5220; and *Bu*, 74, 270-3°, 1.5193. Heating 1-benzyl-1,2,3,4-tetrahydronaphthalene-1-carboxylic acid (I) (3.5 g.) gave at 235-90° 930 mg. PhMe and at 340°, 2.38 g. of a liquid composed of 0.8 g. recovered acid, m. 114-15°, and 1.4 g. yellow oil, $b_{0.05}$ 160-4°, fluorescent in ultraviolet light, the chromatography of which yielded *naphthalene* (*picrate*, m. 146-8°), *dimer* of *1,2-dihydronaphthalene* (II) (7%), b. 210-12°, m. 52-4°, and 10% 1,4-dihydronaphthalene (III), m. 24-4.5° (from EtOH) [addn. compd. with $Hg(OAc)_2$, m. 120-2°], and *1,2-dihydronaphthalene* (IV) (220 mg.), b. 212°, n_D^{20} 1.5795, m. −8 to −6°. Thermal decompn. of 3.5 g. I with 3 g. CaO gave 890 mg. PhMe, and at 340° 2.02 g. of an oil consisting of 70 mg. II, m. 99-101°, 0.4 g. naphthalene, and 237 mg. IV, b. 210-11°, n_D^{20} 1.5799. No III was isolated.

M. Hudlický

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VEJDELEK, Z.

Vejdelek, Z.; Trcka, V.; Vysatova, V. Pharmacologically interesting pyridine derivatives. XI. Basic ethers of 3-pyridylpiperidinol. p. 1221. CHEMICKE LISTY. Vol. 48, no. 8, Aug. 1954.

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

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VII. Glycol esters of nicotinic acid. [illegible] Czech. 85 18 [illegible] Nat. Monoglycol [illegible] Czech. 85 [illegible] and HOCH$_2$CH$_2$OH [illegible] [illegible] 28° [illegible] nitrate alkalized with K$_2$CO$_3$, and extd. with CHCl$_3$ and the product distd., yielding 57% HOCH$_2$CH$_2$ ester, b$_5$ 142-4°, of nicotinic acid, picrate m. 158° (from EtOH). [illegible] 14.1 g., 18 g. II (n = 3), and 8 ml. III in 55 ml. C$_6$H$_6$ yield 3.8 g. triethylene glycol dinicotinate, m. 95°, and 4.42 g. HO(CH$_2$)$_3$ ester, b$_5$ 144°, of nicotinic acid picrate m. 106°. [illegible] 14 g. and 15.[illegible] g. II (n = 5) in 8 ml. III and 30 ml. abs. ether yield 5.84 g. HO(CH$_2$)$_4$ ester, b$_5$ [illegible] of nicotinic acid very [illegible] 17 g. [illegible] g. II (n = [illegible] [illegible] ester [illegible]

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Vejdelek, Zdenek J.

Basic ester of diphenylsulfide-o-carboxylic acid. Zdeněk J. Vejdělek. Czech. 84,566, Sept. 1, 1955. $Et_2NCH_2CH_2OH$ (I) with o-$PhSC_6H_4CO_2H$ (II) yields a basic ester with local anesthetic properties. II (8.35 g.) in 18 ml. C_6H_6, treated dropwise with 4.1 g. I in 15 ml. C_6H_6, refluxed 6 hrs., the base liberated with NaOH, extd. with Et_2O, and the ext. distd. yields o-$PhSC_6H_4CO_2CH_2CH_2NEt_2$, yellow oil, $b_{0.15}$ 185-7°; HCl salt, m. 148°; picrate, m. 115°.

L. J. Urbánek

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VEJDELEK, Zdenek J.

Alkaloids of Rauwolfia plants. Cesk.farm. 4 no.3:136-145 Apr 55.

1. Z Vyzkumneho ustavu pro farmacii a biochemii, Praha.
(ALKALOIDS,
of Rauwolfia)
(RAUWOLFIA,
alkaloids, grouping)

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CZECH

Cyclization of 1-benzyl-1,2,3,4-tetrahydronaphthalene-1-carboxylic acid. Zdeněk J. Veldělek and Bohumil Kakáč. *Collection Czechoslov. Chem. Commun.* 20, 571-85(1955)(in German).—See *C.A.* 49, 5412*i*. E. J. C.

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VEJDELEK, Z. J.

CZECH

Cyclization of 1-benzyl-1,2,3,4-tetrahydronaphthalene-1-carboxylic acid. Zdeněk J. Vejdělek and Bohumil Kakáč (Výzkumný ústav farm. biochem., Prague). *Chem. Listy* 49, 82-95(1955).—Cyclization of the chloride (I) of 1-benzyl-1,2,3,4-tetrahydronaphthalene-1-carboxylic acid (II) gave with various condensing agents and under various conditions *spiro-1-(1,2,3,4-tetrahydronaphthalene)-2'-indan-1'-one* (III), *spiro-1-(1,2,3,4-tetrahydronaphthalene)-2'-indan* (IV), *2,3-benzo-9,10-dihydrophenanthrene* (V), *1-benzyl-3,4-dihydronaphthalene* (VI), *1-benzyl-1,2,3,4-tetrahydronaphthalene* (VII), and *1-benzylnaphthalene* (VIII). Dehydrogenation of V gave *2,3-benzophenanthrene* (IX). VI and *1-benzyl-1,2-dihydronaphthalene* (X), were prepd. as reference compds. Refluxing 15.5 g. II, m. 116°, with 9.5 g. $SOCl_2$ 40 min. gave 16 g. (96.5%) I, b. 170-2°. Adding a soln. of 3.8 g. I in 8 ml. petr. ether (b. 75-95°), to 4 g. $AlCl_3$ in 10 ml. petr. ether at 20-48° during 45 min., and refluxing 40 min., and decompg. the mixt. with 10 ml. H_2O and 8 ml. HCl gave 2.75 g. neutral high mol. wt. oil and, from aq. layer, 0.54 g. (14%) II. Adding 7.1 g. I in 10 ml. hexane at 14-20° to 6 g. $AlCl_3$ in 20 ml. hexane, refluxing the mixt. 20 min., and decompg. with 25 ml. 1:2 HCl gave 2.35 g. (33%) II and 3.4 g. of an oil the chromatography of which yielded 1.8 g. V, m. 116° (from petr. ether and from EtOH); *picrate*, m. 130° (from EtOH). Heating 0.1 g. V 32 hrs. with 70 mg. Se at 260-90° gave 62 mg. IX, m. 157.5-8.5° (from 80% EtOH); *picrate*, m. 142-3° (from xylene). Treating 16 g. II in 75 ml. C_6H_6 under ice-cooling with 8.4 g. $AlCl_3$, refluxing the mixt. 10 min., and decompg. with 30 g. ice and 10 ml. HCl yielded

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ZDENEK J.

1.8 g. (15%) I and 11.5 g. neutral oil whose chromatography gave 3.9 g. IV, m. 83° (from EtOH), 0.46 g. VII, $b_{0.1}$ 138°, n_D^{19} 1.5869, 0.2 g. VIII, m. 59° (from EtOH); *picrate*, m. 108°, 1.11 g. V, and 2.2 g. III, m. 144° (from EtOH). Reduction of 300 mg. III with 2 g. amalgamated Zn, 5 ml. HCl, and 5 ml. PhMe (24 hrs.) gave IV. Cyclization of 17 g. I dissolved in 60 ml. hexane with $SnCl_4$ (15 ml. in 15 ml. hexane) at 3–4°, and decompn. with 50 g. ice and 70 ml. HCl gave 7.25 g. 43% II, and 6.75 g. neutral oil (which on chromatography yielded 1.22 g. VII, $b_{0.1-0.4}$ 120–30°, n_D^{19} 1.5992, 0.51 g. VI, $b_{0.1}$ 129°, n_D^{19} 1.6200, 2.4 g. VIII, and 3.32 g. III). Cyclization of 8.9 g. I dissolved in 25 ml. C_6H_6 with 8.5 g. $SnCl_4$ in 10 ml. C_6H_6 at 8–20°, and decompn. of the mixt. with 20 g. ice and 40 ml. HCl gave 0.45 g. (5%) II and 7.45 g. of an oil from which were isolated 1.68 g. III, 1.48 g. VIII, 1.83 g. VII, and 1.16 g. VI. A reference sample of VII $b_{0.1}$ 138°, n_D^{19} 1.5884. Hydrogenation of 1-benzyl-1,2-dihydro-4(3H)-naphthalenone gave the 4-HO *compd.* (XI), (75.5%), $b_{0.1}$ 185°. XI (5 g.) and 5 g. $ZnCl_2$ were heated 90 min. at 90°, the mixt. extd. with 30 ml. hexane, and 3.6 g. (78%) of the residual oil chromatographed to give 2.95 g. X, $b_{0.1}$ 127°, n_D^{19} 1.6058. Adding 8.3 g. α-tetralone, b_4 108–12°, n_D^{19} 1.5731, dissolved in 50 ml. Et_2O, to the Grignard reagent prepd. from 1.46 g. Mg and 7.6 g. $PhCH_2Cl$ in 50 ml. Et_2O, refluxing the mixt. 1 hr., and decompg. the mixt. with 10 g. NH_4Cl in 50 ml. H_2O yielded 8.28 g. *1-benzyl-1,2,3,4-tetrahydro-1-naphthol* (XII), $b_{0.4}$ 167°, n_D^{19} 1.5974. Treatment of 4 g. XII with 4 g. $ZnCl_2$, chromatography, and distn. yielded 3.35 g. (91%), VI, $b_{0.1}$ 127°, n_D^{19} 1.6201. Infrared spectra of I, III, IV, and VIII, and ultraviolet spectra of I, III, IV, VI, VII, VIII, X, *naphthalene*, *1,3*- and *3,4-dihydronaphthalene*, and *tetralin* are given.

M. Hudlický

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Vejdelek, Zdenek

CH

Veratrum alkaloids. I. Some esters of cevine and the nature of the dipotassium salt of cevine. Zdeněk J. Vejdělek and Václav Trčka (Výzkumný ústav farm. biochem., Prague). *Chem. Listy* 49, 529–38(1955).—By the reaction of mono-K salt (I) of cevine with acyl chlorides were prepd. esters of cevine which were tested for their hypotensive effect. A new formulation of di-K salt (II) of cevine, $C_{27}H_{40}O_3NK.KOH$, or $C_{27}H_{40}O_3NK_2.H_2O$ is proposed instead of $C_{27}H_{42}O_4NK.KOEt$. Pure *diacetylcevine* (III) and *dibenzoylcevine* (IV) were prepd. III, IV and benzoylcevine (V) described heretofore were found to be nonuniform. II was prepd. in 38-g. yield by refluxing 40 g. veratrine with 60 g. powdered KOH in 270 ml. EtOH, and by washing the needles with 15 ml. abs. EtOH and 20 ml. Et_2O. II (36 g.) in 200 ml. warm abs. EtOH, evapd. in a stream of N to 120 ml., the needles washed with 10 ml. abs. EtOH, and dried to give 22 g. I. Refluxing 1.64 g. I in 30 ml. Et_2O 6–10 hrs. with 0.003 mole of an acyl chloride dissolved in 10 ml. Et_2O, pouring off the solvent, extg. the residue with 3 10-ml. portions of $CHCl_3$, evapg. the ether and $CHCl_3$ solns. to dryness, dissolving the residue in 5% AcOH, filtering, cooling the filtrate to 0°, alkalizing with 0° 10% NH_4OH, extg. the bases with 5 10-ml. portions of $CHCl_3$, evapg. the solvent, and subjecting the residue to chromatography over Al_2O_3 gave the corresponding esters of cevine. *Acetylcevine*, m. 168–70° (from Et_2O-hexane 1:5), $[\alpha]_D^{20}$ −3.35; *HCl salt*, m. 248–50° (from Me_2CO). V, m. 159–61° (from 75% EtOH); $[\alpha]_D^{20}$ 10.4°. *Anisoylcevine* (from *p*-$MeOC_6H_4COCl$), m. 139–40° (from 80% EtOH), $[\alpha]_D^{20}$ 11.6°. *Veratroylcevine* (from veratroyl chloride, m. 69–70°, b_{13-14} 162–5°), m. 147–9° (from aq. Me_2CO), $[\alpha]_D^{20}$ 12.3°. *3,4,5-Trimethoxybenzoylcevine* [from 3,4,5-$(MeO)_3C_6H_2COCl$, m. 76–8°, b_{10} 178–80°], m. 152–3° (from 80% EtOH), $[\alpha]_D^{20}$ 8.0°. *O-Acetovanilloylcevine* (from *O-acetovanilloyl chloride*, m. 55–6°), m. 175–6° (from aq. Me_2CO), $[\alpha]_D^{20}$ 13.4°. *4-Veratrolesulfonylcevine* (from 4-veratrolesulfonylchloride, m. 75°), m. 202–4° (from 85% EtOH), $[\alpha]_D^{20}$ 4.5. *4-acetoxy-3-methoxybenzenesulfonylcevine* (from 3,4-$(MeO)(AcO)C_6H_3SO_2Cl$, m. 131–2°), m. 196–7°, (from aq. Me_2CO), $[\alpha]_D^{20}$ 9.6°. III, m. 214° (from 80% EtOH). The product prepd. according to Freund [*Ber.* 37, 1946(1904)], was identified as a mixt. of cevine with III. Similarly, previously described IV was found to be a mixt. of cevine and IV, m. 202° (from EtOH; 1 EtOH of crystn.), $[\alpha]_D^{20}$ −5.7°. V described by Hess and Mohr (*C.A.* 14, 1988) was composed of 4 parts of cevine and 1 part of V. II. Paper chromatography of alkaloids from Schoenocaulon officinale and their structural analogs. Karel Macek, Stanislav Vaněček, and Zdeněk J. Vejdělek. *Ibid.* 539–45.—Paper chromatography was used for sepn. and identification of ester alkaloids from *S. officinale*, of some synthetic *esters of cevine* (I), *cevagenine* (II), and *protocevine* (III), and for identification of org. acids formed by hydrolysis of the ester alkaloids. The effect of conformation upon chromatographic behavior was investigated. The acids were sepd. as their NH_4 salts using a system BuOH–1.5*N* NH_4OH 1:1. R_f values: AcOH 0.12, angelic acid, 0.34, tiglic acid, 0.37, BzOH, 0.42, *p*-

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ZDENEK, J.

$MeOC_6H_4CO_2H$, 0.40, 3,4-$(MeO)_2C_6H_3CO_2H$, 0.29, 3,4,5-$(MeO)_3C_6H_2CO_2H$, 0.36 vanillic acid, 0.13, acetovanillic acid, 0.26. Alkaloids (in EtOH) were chromatographed in AmOH-AcOH-H_2O 4:1:5, and their R_f values were: II 0.19, III 0.30, I 0.35, and *cevacine*, 0.55. Esters (in $CHCl_3$) were chromatographed on a paper impregnated with 50% EtOH soln. of $HCONH_2$. The R_f values were: *acetylprotocevine (cevacine)*, 0.03, *acetylcevine*, 0.03, *diacetylcevine*, 0.14, *angelicoylprotocevine (ceradine)*, 0.23, *benzoylcevine*, 0.22, *dibenzoylcevine*, 0.82, *anisoylcevine*, 0.28, *veratroylprotocevine, (veratridine)*, 0.38, *veratroylcevine*, 0.38, *3,4,5-trimethoxybenzoylcevine*, 0.47, acetovanilloylcevine, 0.39, sulfoveratroylcevine, 0.20. M. Hudlický

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VEJDELEK, ZDENEK J.

CH

V Veratrum alkaloids. III. Components of veratrine. Zdeněk J. Vejdělek, Karel Macek, and Bohumil Kakáč (Výzkumný ústav farm. biochem., Prague). *Chem. Listy* 49, 1538-45(1955); cf. *C.A.* 50, 2621g.—Fractionation of veratrine (I) afforded, in addn. to the known alkaloids *cevadine* (II), *veratridine* (III), *cevacine* (IV), and *protocevine* (V), an alkaloid of the compn. $C_{31}H_{49}O_{10}N$, named *veragenine* (VI). The sulfate of I (110 g.) (free base, m. 151-63°, $[\alpha]_D^{19}$ 15.8) was dissolved in 1500 ml. H_2O and treated with $NaNO_2$ to give a ppt. which transformed to sulfate, recrystd. and decompd. with NH_3 gave III, m. 163-78°, $[\alpha]_D^{19}$ −19.5° (in $CHCl_3$), +8° (in EtOH). From the filtrate, NH_4OH at pH 10 pptd. 17 g. crude II which was purified by dissolving in 50 ml. MeOH and pptg. with H_2O at 55° to give 5.4 g. pure II, m. 209-12°, $[\alpha]_D^{19}$ −31° (in $CHCl_3$), 12.7° (in EtOH). Ether extn. of the filtrate after the pptn. of II gave a residue the chromatography of which yielded by elution with $CHCl_3$ and crystn. from 80% MeOH, 4.1 g. II and 682 mg. IV, m. 204-5°, $[\alpha]_D^{19}$ −26.8° (in $CHCl_3$), and by elution with MeOH, 180 mg. VI, m. 262-1°, $[\alpha]_D^{19}$ −4.87° (in EtOH). The aq. layer after the ether ext. was extd. with $CHCl_3$ and the residue chromatographed to give 560 mg. IV, and 590 mg. V, m. 192-4°, 220-2°, $[\alpha]_D^{19}$ −33° (in $CHCl_3$), −32.7° (in EtOH). From the mother liquors, after the crystn. of the sulfate of I, were isolated 5.55 g. *cevagenine* (VII), m. 246-8°, $[\alpha]_D^{19}$ −52° (in $CHCl_3$), −47.5° (in EtOH), and 8.55 g. V. Adding 10 g. I to a warm soln. of 15 g. KOH in 65 ml. EtOH, boiling the mixt. 2 hrs., dissolving the sepd. di-K salt of cevine (9.52 g.) in 45 ml. H_2O, satg. the soln. with CO_2, and liberating the base with NH_3 gave 7.1 g. *cevine* (VIII), m. 181-90° (3.5 H_2O of crystn.), m. 177-9°, 198-200° (anhyd.). Ultraviolet spectra for V, VI, VII and VIII, and infrared spectra for VI and VIII are given.

M. Hudlický

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Vejdelek, Z. J.

Chem

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Application of paper chromatography to structural problems in the Veratrum alkaloid group. K. Macek and Z. J. Vejdělek (Pharm. and Biochem. Research Inst., Prague). *Nature* 176, 1173–4(1955); cf. *C.A.* 50, 2622*c*.—Parallel paper chromatography of partially acylated veratrum alkamines with $CHCl_3$ as the mobile phase on papers impregnated with (1) $HCONH_2$ and (2) H_3BO_3 (5%) and $HCONH_2$ showed that alkamines with a glycol grouping showed a difference in R_M [i.e., $\log(1/R_f - 1)$] value of 0.8–1.2 for 2 glycol groups and of 0.3–0.45 for one glycol group in the parallel expts. Thus changes in R_M on acetylation, partial methanolysis, etc., give an indication of the number of glycol groups involved and similarly information as to the presence of an ortho ester group is obtained. Results showed that 3,4-diacetyl-, 3,16-diacetyl-, and 3,14,16-triacetylcevine have 2, and 3,12(or 14)-diacetyl-, 3,4,12(or 14)-triacetyl-, and 3,4,12(or 14),16-tetraacetylcevine have 1 free glycol group, while 3,4,16-triacetylcevine-*D*-orthoacetate has no free glycol group. Results also showed that the 17,20-glycol system is probably cis, as it formed a complex with H_3BO_3. Because results showed nonequivalence of OH groups, the expression $\log(1/R_f - 1) = R_M = Z + a_1G_1 + a_2G_2 + \ldots\ldots$ is introduced where Z is a fundamental const. (for cevine 2.0), G_1, G_2, . . . are the group consts. for the acyl groupings, and $a_1, a_2, \ldots$ are the position factors for the particular OH groups esterified and some values for G and a are calcd. Use of this expression makes possible the prediction of R_M and hence of R_f in the series.

F. R. Mumford

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VEJDĚLEK - ZDENĚK

Alkaloids from Veratrum. Zdeněk J. Vejdělek. Czech. 85,470, Jan. 1, 1956. Subsequent extn. with solvents with increasing polarity leads to isolation of fractions with biol. and therapeutical effects. Dry concentrate (25 g.), obtained by extg. ground root of *Veratrum album* with $CHCl:CCl_4$ in alk. medium, was extd. in a Soxhlet app. with ligroine (40–60°), C_6H_6, Et_2O, and Me_2CO. The Me_2CO-ext. was evapd. *in vacuo* at 100° to yield 5–6 g. water-sol. fraction showing high hypotensive effect (I) and low toxicity (II). Concentrates obtained on evapg. the C_6H_6 and Et_2O exts. had approx. the same I but a 3–5-fold II. L. J. Urbánek

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Vejdelek, Z. L.

Pyridine derivatives of pharmacological interest. XII. Paper chromatography of some peripheral vasodilators. K. Macek, Veneulka Pelcová, and Z. J. Vejdělek (Výzk. ústav farm. a biochem., Prague). *Collect. Czech. Chem. Commun.* 5, 73-5 (1956); cf. *C.A.* 50, 8650*f*.—Nicotinic acid 2-hydroxyethyl ester (Ethiacin) (I), dinicotinoylglycol (II), nicotinic acid 2-tetrahydrofurfuryl ester (Trafuril CIBA) (III), 3-pyridylcarbinol (Ronicol ROCHE) (IV), and Na salt of nicotinic acid (Nicolan PHILOPHARM) (V) were estd. in pharmaceutical prepns. by paper chromatography. The following R_f were found: I 0.29, II 0.95, III 0.93, IV 0.13, V 0.05 with $CHCl_3$ on paper impregnated with formamide (50% soln.); I 0.06, II 0.76, III 0.82, IV 0.03, V 0.00 in C_6H_6-$CHCl_3$ mixt. (8:2) on paper impregnated with formamide; and I 0.79, II 0.83, III 0.96, IV, 0.77, V 0.17 in BuOH satd. with *N* NH_3 soln. (1:1). A modified König's reagent was used for detection. Both ester prepns. I and III contain a small amt. of nicotinic acid. K. Macek

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Vejdelek, Z. J.

Estimation of ethiacin (2-hydroxyethyl nicotinate). B. Kakáč and Z. J. Vejdělek (Výzk. ústav farm. a biochem., Prague). *Českoslov. farm.* 5, 140-6(1956).—A method was worked out for detg. small amts. of nicotinic acid (I) and dinicotinoylglycol (II) in the presence of excess 2-hydroxyethyl nicotinate (ethiacin) (III). The sum of I and chlorides was detd. by titration with NaOH, and the amt. of chlorides by $AgNO_3$ titration. The amt. of I was calcd. from the difference. II and III were detd. polarographically in Sørensen buffer soln., pH 10.2. II and III have similar half-wave potentials in the whole range of pH values, and therefore it was necessary to sep. them by making use of their different solubilities. One g. of III was dissolved in 10 ml. water, phenolphthalein was added, the soln. made alk. with 10% NaOH soln., allowed to stand for 24 hrs., filtered through glass filter G 3, and the crystals of II were washed with water. II was then dissolved in 2 ml. water with 2 drops concd. HCl and brought to 50 ml. with water. In this way 0.1% II could be exactly detd. K. Macek

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VEJDELEK, Z. J.

2

Vasodilating action of several series of pyridine derivatives. V. Trka and Z. J. Vejdělek (Research Inst. Pharm. and Biochem., Prague). *Pharmazie* 11, 242-7(1956).—Compds. were studied belonging to the following groups: A) nicotinic acid esters: 1) aralkyl (notable hypotensive action only with 2-methylbenzhydryl ester); 2) basic; 3) ω-oxyalkyl (2-oxy-ethyl ester showed best therapeutic index); 4) ω-rhodano alkyl; 5) dinicotinoyl glycols; 6) ethylthioalkyl. B) β-picolyl ethers. C) β-picolyl thioethers: 1) basic; 2) alkyl, 3) aralkyl. D) pyridyl carbinols. E) Other β-picolyl derivs.: chloromethylpyridine, 3-aminomethylpyridine, and di(β-picolyl)amine raised skin temp. with slight hypotensive action. F) Nicotinic acid pyridyl amines: the γ-isomer showed pronounced increase in skin temp. Compds. were studied for (1) vasodilating effect after painting 2% solns. on skin of forearm of human subjects; (2) effect on blood pressure of rabbits after intravenous injection into the urethan-narcotized animal; and (3) lethal dose on mice (intravenous injection). Effects (1) and (2) were compared with those of β-pyridyl carbinol. Expts. with (1) showed that pyridine derivs. with hydrophilic properties and with not too long a side chain (at most 5-7 C atoms or corresponding compds.) are active. Cyclic substitutents seemed to have no advantage over acyclic, nor iso-compds. over n-analogs. Similarly with (2), relation of action to chem. compn. could be found although often with no parallelism between (1) and (2). The thio ether bond seemed more effective for hypotensive effect than the ether, carboxyl, or acid amide bonds. Within an individual homologous series toxicity increased with lengthening side chains while in others it decreased. The rhodano compds. had the greatest toxicity. Of the many pyridine derivs. synthesized (mostly β-substitutents) of the most variable nature, vasodilator activity was comparable to that of many current compds. of this type. 21 references. G. M. Hocking

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Vej Velek, Z J

V. TRČKA and Z. J. VEJDĚLEK (Research Institute for Pharmacy and Biochemistry, Prague), "Ueber die gefaesserweiternde Wirkung mehrer Reihen von Pyridinderivaten," Die Pharmazie, Vol. 11, No, 4, April 1956, Berlin, Unclassified.

(Rough translation of title: About the Vascular Stretching Effect of Several Sequences of Pyridine Derivatives)

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Vejdelek, Zdeněk

Veratrum alkaloids. IV. Analysis of veratrine by paper chromatography. Karel Macek, Stanislav Vaněček, Vendulka Pelcová, and Zdeněk J. Vejdělek (Pharm. Research Inst., Prague). *Chem. Listy* 50, 598-602(1956); cf. *C.A.* 50, 4991*h*.—Methods are described for evaluating com. prepns. of veratrum alkaloids. Semiquantitatively were detd. alkamines (mixt. of veracevine and veragenine), cevacine, cevadine (I), and veratridine (II). Quantitatively were detd. I and II from 300-600-μg. samples with an error of ±8%. Compn. is given of 3 pharmaceutical prepns. (cf. *C.A.* 50, 2622*c*; Romeike, *C.A.* 47, 11665*c*). V. Synthesis and structure of some new esters of veracevine, cevagenine, and cevine; partial synthesis of cevacine and veratridine. Zdeněk J. Vejdělek, Karel Macek, and Břetislav Buděšínský. *Ibid.* 603-22.—The prepn. and properties are described of a series of derivs. of veracevine (I), cevagenine (II), and cevine (III). The derivs. were purified by chromatography on Al_2O_3 pretreated with H_2SO_4. Positions of esterified OH-groups were detd. by titrating with 0.1*N* $Pb(OAc)_4$ and 0.1*N* CrO_3 in AcOH, by infrared spectra, and by paper chromatography. I and II were obtained by the method of Kupchan, *et al.* (*C.A.* 49, 351*e*), and III was obtained by the method of Vejdělek, *et al.* (*C.A.* 50, 4991*h*). I (2.04 g.) and 0.35 g. AcCl in 20 ml. pyridine at −2 to 0° yielded 630 mg. *3-acetylveracevine* (IV), m. 203-4.5°, $[\alpha]_D^{20}$ −26.5°, identical with natural cevacine. 3,4,16-Triacetylveracevine (V), m. 237-9° (from $CHCl_3$, $[\alpha]_D^{20}$ −21° ($CHCl_3$), was obtained (800 mg.) by treating 1.75 g. I with 30 ml. Ac_2O and 15 ml. pyridine, also obtained (125 mg.) by heating to 110° 200 mg.

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MACEK, K.

IV, 4 ml. Ac_2O, and 2 ml. pyridine 2 hrs. at 110°. Partial methanolysis of V by evapg. a soln. of 600 mg. V in 50 ml. MeOH to dryness gave 350 mg. *3,4-diacetylveracevine* (VI), m. 286–7°, $[\alpha]^{19}_D$ −24.5°, and a small amt. of IV. IV and VI acetylated in the presence of $HClO_4$ each yielded *3,4,16-triacetylveracevine orthoacetate* (cf. Kupchan and Lavie, *C.A.* 50, 1865*h*, and Kupchan, *C.A.* 50, 1860*g*), m. 254–5.5°, $[\alpha]^{19}_D$ 75.8° (EtOH). When 2.04 g. I in C_6H_6-pyridine was boiled 15 min. with 0.85 g. veratroyl chloride, the resulting mixt. gave after chromatographic sepn. 145 mg. amorphous *3-veratroylveracevine* (VII), m. 170–8°, $[\alpha]^{19}_D$ 8.2° (EtOH) (identical with natural veratridine), and 765 mg. *16-veratroylveracevine* (VIII) m. 173–4°, $[\alpha]^{19}_D$ −9.5 ($CHCl_3$) (identified by hydrolysis with alc. KOH to yield cevine and veratric acid. Treatment of 4 g. I with 8 g. veratric anhydride by heating the mixt. 4 hrs. in 20 ml. pyridine to 110–20° gave 2.46 g. white amorphous *3,16-diveratroylveracevine* (IX) m. 224–5°, $[\alpha]^{19}_D$ 4.5° (EtOH), −5.6° ($CHCl_3$) besides 350 mg. VII and 630 mg. VIII. IX was also obtained by analogous procedure from VIII and from natural VII. When 2.04 I was boiled 90 min. in C_6H_6 with 0.60 g. *dl*-EtCHMeCOCl (X) in the presence of 1.5 ml. pyridine the main reaction product was 720 mg. *3-(dl-α-methylbutyryl)-veracevine* (XI), m. 198–200°, $[\alpha]^{19}_D$ −23.8° ($CHCl_3$) and 18.3° (EtOH) besides 260 mg. *3,16-bis(dl-α-methylbutyryl)-veracevine* (XII), m. 273.5°, $[\alpha]^{19}_D$ 8° (EtOH), and −27° ($CHCl_3$), whereas treatment of 4 g. I with 7 g. (*dl*-EtCH-$MeCO)_2O$ for 3 hrs. at 120° yielded 2.32 g. XII and 800 mg. XI. XII could be converted by methanolysis to XI. A mixt. of 3 g. II, 15 ml. Ac_2O, and 30 ml. pyridine gave after standing 17 hrs. 1.2 g. *3,16-diacetylcevagenine* (XIII), m. 273–4°, $[\alpha]^{19}_D$ −45° (EtOH) besides 650 mg. triacetate which has been assigned the structure of *3,16-diacetylcevagenine C-orthoacetate* (XIV), m. 316°, $[\alpha]^{19}_D$ −36° (EtOH), −38° ($CHCl_3$). Similarly, 2.04 g. II in 20 ml. pyridine with 0.6 g. X in 72 hrs. gave 510 mg. monoester, apparently of *3-(dl-*

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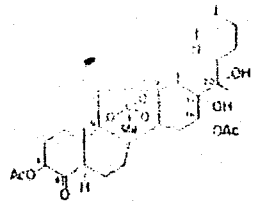
MACEK.K



(XIV)

α-methylbutyryl)cevagenine (XV), m. 243° (from C_6H_6), $[\alpha]^{19}_D$ −42° ($CHCl_3$). III (3.28 g.) in 65 ml. abs. Et_2O was boiled 8 hrs. under stirring with 0.8 g. X and extd. with $CHCl_3$ and the ext. was chromatographed yielding 610 mg. *3-(dl-α-methylbutyryl)cevine* (XVI), m. 198–200° (from aq. EtOH), $[\alpha]^{19}_D$ 11° (EtOH), −10.5° ($CHCl_3$). By the procedure of Barton, *et al.* (*C.A.* 49, 15926*i*), were obtained *3,4,16-tri-*

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MACEK, K.

acetylcevine (XVII), m. above 400°, $[\alpha]_D^{20}$ 23.7° ($CHCl_3$), *3,16-diacetylcevine* (XVIII), *16-acetylcevine* (XIX), m. 182–4°, and XIX *perchlorate*, m. 306–7°, $[\alpha]_D^{20}$ 9.5° (EtOH). On methanolysis, 1.3 g. XVII gave 800 mg. 3,4-diacetylcevine and 800 mg. XVIII yielded 215 mg. 3-acetylcevine. The perchlorate of *3,4,12* (or *14*),*16-tetraacetylcevine* (XX), m. 290–2° (decompn.), $[\alpha]_D^{20}$ 32° (EtOH), prepd. by the method of Stoll (*C.A.* 47, 12411c) was converted to *3,4,16-triacetylcevine orthoacetate perchlorate*, m. 268–9°, $[\alpha]_D^{20}$ 109° (MeOH). Methanolysis of 1.7 g. XX gave 420 mg. *3,4,12*(or *14*)-*triacetylcevine* (XXI), m. 224–30° and 304–5° (double m.p.), $[\alpha]_D^{20}$ 44° ($CHCl_3$), which yielded on methanolysis *3,12*(or *14*)-*diacetylcevine* (XXII), m. 236–8° (from Et_2O). On the basis of infrared spectra, paper chromatography, and CrO_3 oxidation it is suggested that in XX, XXI, and XXII, one AcO group is at the 12 or 14 position. Methanolysis of 200 mg. 3,16-dibenzoylcevine gave 60 mg. *16-benzoylcevine*, m. 194–6°, $[\alpha]_D^{20}$ −22° ($CHCl_3$). L. J. Urbánek

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Vejdelek Z. J.

Pyridine derivatives of pharmacological interest. XIII. *N,N*-Bis-β-picolylglycine ethyl ester. Zdeněk J. Vejdelek (Pharm. Research Inst., Prague). *Chem. Listy* 50, 674-5 (1956); cf. *C.A.* 49, 9646e.—[Throughout this abstr. 3-pyridylmethyl = R.] $R_2NCH_2SO_3Na$ (I) obtained in 6.3-g. yield by adding dropwise R_2NH (13.1 g.) dropped into 6.73 g. $Na_2S_2O_5$, 6.0 g. 30% HCHO, and 14 ml. water and EtOH added gave 6.3 g. $R_2NCH_2SO_3Na$ (I). Crude I (6 g.) and 4 g. KCN kept overnight yielded 4.2 g. R_2NCH_2CN (II), viscous oil, b_1 210–15°. Dry HCl passed into 4.1 g. II in 35 ml. Et_2O, 2 ml. EtOH, and 15 ml. $CHCl_3$ gave $R_2NCH_2C(:NH.HCl)OEt$ (III), very hygroscopic, yellow powder. III (3.5 g.) in 15 ml. water evapd. to dryness *in vacuo*, the product treated with NH_3-$CHCl_3$, and the mixt. extd. gave 2.2 g. $R_2NCH_2CO_2Et$ (IV), yellow oil, $b_{0.1}$ 168–70° [picrate, m. 202–4° (from Me_2CO)], also obtained (2.15-g. yield) by heating 10 g. R_2NH in 120 ml. C_6H_6 about 5 hrs. with 5.2 g. $NaNH_2$, distg. off the NH_3, adding 8.8 g. $BrCH_2CO_2Et$, refluxing 4 hrs., and working up. IV showed a low antispasmic and antihistamine effect, LD_{50} 385–48 mg./kg.

L. J. Urbanek

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

VEJDELEK, Z.; VANECEK, S.; MACEK, K.

Veratrine alkaloids. VI. Contribution of paper chromatography to the solution of structural problems. p. 961. (Chemicke Listy, Praha. Vol. 50, no. 6, June 1956.)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

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Czechoslovakia/Pharmacology. Toxicology. Cardio-Vascular V
Drugs

Abs Jour : Ref Zhur-Biol., No 8, 1958, 37602

Author : Vejdelek Zdenek J., Trcka Vaclav
Inst : ~~Not given~~
Title : Alkaloids of Hellebore. VIII. Hypotensive Fractions of Alkaloids of White Hellebore (Alkaloidy chemeritsy. VIII. Gipotenzivnyye fraktsii alkaloidov chemeritsy beloy).

Orig Pub : Ceskosl. farmc., 1957, 6, No 2, 65-68

Abstract : A series of alkaloids was isolated from the roots of white hellebore by the extraction method with trichloroethylene and the subsequent fractionation with nonpolar and then polar solvents (the method is described). The acetone fraction was pharmacologically investigated.

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VEJDELEK, ZDENEK J.

Structure
and biological activity among

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VEJDELEK, Z.; MACEK, K.; TRCKA, V.

"Veratrum alkaloids. VII. Mixed esters of veracevine. In German."

p. 816 (Collection of Czechoslovak Chemical Communications, Sbornik Chekhoslovatskikh Khimicheskikh Rabot) Vol. 22, no. 3, June 1957
Prague, Czechsolovakia

so: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

Vejdelek, Z., and others.

"Reaction of diazo ketones. I. Reaction of diazo ketones with unsaturated compounds."
In German.

p. 1836. (Sbornik Chekhoslovatskikh Khimicheskikh Rabot, Vol. 22, No. 6, Dec. 1957, Praha, Czechoslavakia)

Monthly index of East European Accession (EEAI) LC, Vol. 7, No. 8, August 1958

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74052.

Author : Z.J. Vejdelek.
Inst :
Title : Synthesis of 2,3-Dialkyl-Substitutes of Bz-Aminoindoles and Bz-Methoxyindoles.

Orig Pub: Sb. chekhosl. khim. rabot, 1957, 22, No 6, 1852-1858.

Abstract: See RZhKhim., 1958, 43371.

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43371.

Author : Vejdelek Zdenek J.
Inst :
Title : Synthesis of 2,3-Dialkyl Substituted Bz-Aminoindoles and Bz-Methoxyindoles.

Orig Pub: Chem. listy, 1957, 51, No 7, 1338-1343.

Abstract: To study their vasodilative action, some 2,3-dialkyl-amino- and -methoxyindoles were synthesized. The amino-derivatives were obtained by reduction of corresponding nitro-compound in CH_3OH by addition of methanol solution of NH_2NH_2 in the presence of skeleton Ni with subsequent stirring of the mixture at 60-65° for 40-45 minutes. The following 2-methylindoles were synthesized (listing substituents, yield in %,

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43371.

MP in °C): 3-ethyl-4-amino, 88, 127-128; 3-methyl-5-amino, 91, 177-178; 3-ethyl-5-amino, 88, 150; 3-ethyl-6-amino, 85, 84-85 (sublimated at 110-120 / 1 mm); 3-methyl-7-amino, 82, 131-132; 3-ethyl-7-amino, 80, 116-117. Methoxy-derivatives were obtained by heating for 4 hours at 100° of 0.03 mole of corresponding methoxyphenyl hydrazine (I) with 0.05 mole $CH_3COC_2H_5$ or $CH_3CCC_3H_7$ in a mixture of 100 ml water, 5 ml HCl and 10 ml CH_3CCCH. Isomeric methoxyindoles are formed from m-I and were separated by fractional extraction with gasoline, steam distillation and crystallization. The following 2-methyl-methoxyindoles were synthesized (listing substituents, yield in %, MP in °C): 3-methyl-4(6)-methoxy-, 82, 145; 3-methyl-5-methoxy, 52, 112-113; 3-methyl-6(4)-methoxy, 82,

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43371.

135; 3-methyl-7-methoxy, 47, BP 155°/11 mm, $n^{20}D$ 1.5747; 3-ethyl-4(6)-methoxy, 19, 73; 3-ethyl-5-methoxy, 33, 100; 3-ethyl-4(6)-methoxy, 27, 63; 3-ethyl-7-methoxy, 51, BP 160°/10 mm, $n^{20}D$ 1.5740. Boiling (70 minutes) of allyl ether of 3-hydroxy-acetanilide with 20% HCl gave 3-allyl-oxy-aniline, yield 51.5%, BP 120-121°/4 mm, $n^{20}D$ 1.5714; at the same time there were also formed 3-hydroxy-2-allyl-acetanilide, MP 165-166°, and 3-hydroxy-4-allyl-acetanilide, MP 158-159.5°, which were separated by fractional precipitation from alkaline solution, with 0.5 N H_2SO_4.

Card : 3/3

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G

Country : CZECHOSLOVAKIA
Category: Organic Chemistry. Natural Compounds and Their Synthetic Analogues

Abs Jour: RZhKhim., No 17, 1959, No. 61027

Author : Vejdelek, Z. J.; Treka, V.
Inst : -
Title : Synthetic Models, Lowering Blood Pressure. III. Basic Esters of 3, 4, 5-Trimethoxybenzoic Acid.

Orig Pub: Chem. listy, 1958, 52, No 8, 1622-1628

Abstract: By the interaction of 3, 4, 5-trimethoxybenzoylchloride (I) with various amino-alcohols the aminoesters were synthesized. Some of them represent considerably simplified models of ester rauwolfine alkaloids. The obtained esters were tested for the hypotension activities. Their

Card : 1/9

G-44

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Country : CZECHOSLOVAKIA
Category: Organic Chemistry. Natural Compounds and Their Synthetic Analogues

Abs Jour: RZhKhim., No 17, 1959, No. 61027

of 151-152°/22 mm boiling point, $n^{22}D$ of 1.5265 were obtained. Analogically to II from 3-propyonylpyridine, (pyridyl-3)-ethylcarbinol (III) was obtained with the yield of 65% and boiling point of 159°/22 mm, and from 4-acetylpyridine, (pyridyl-4)-methylcarbinol was derived, with 60% yield, boiling point of 140-141°/20 mm, and melting point of 55° (from benzene-petr. ether.). In the heating of 21.7gr of 4-chlorobutanol-1 and 34.1 gr piperidine (25 hours) to 140-150°, while mixing with 150 ml C_6H_6, followed by distilling off the solvent and distillation, 4-piperidinobutanol-1

Card : 3/9

G-45

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G

Country : CZECHOSLOVAKIA
Category: Organic Chemistry. Natural Compounds and Their Synthetic Analogues

Abs Jour: RZhKhim., No 17, 1959, No. 61027

was synthesized with 56% yield and of 122°/12 mm boiling point. In the reduction of 14 5 gr of methyl ester of β-diethylaminopropionic acid in 150 ml of ether with the aid of 3 gr $LiAlH_4$ in 90 ml ether (40 min. at approx. 20°, 1 hour), and by the decomposition with 3 ml water and 6 ml of 30% NaOH solution, followed by drying, evaporation of the ester layer and by distillation 3-diethylaminopropanol-1 was derived at 87% yield and of 90-92°/24-25 mm boiling point. Aminoesters were synthesized by the following methods: A) by a gradual mixing of 0.03 mols I in 50 ml

Card : 4/9

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Country : CZECHOSLOVAKIA

Category: Organic Chemistry. Natural Compounds and Their Synthetic Analogues

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Abs Jour: RZhKhim., No 17, 1959, No. 61027

C_6H_6 with 0.036 mols of the corresponding aminoalcohol, followed by boiling for 2 hours and by the removal of the formed crystalline residue comprising aminoester chlorhydrates; B) by admixing during 1 hour of a mixture containing 0.025 mols I in 80 ml C_6H_6 with 0.05 mols aminoalcohol in 50 ml C_6H_6, boiling 30 minutes, filtering off the formed aminoalcohol chlorhydrate, extraction of the base fraction from C_6H_6 with 120 ml HCl (acid) (1:5), alkalization of the extract with 20% caustic solution, extraction with ether, evaporation and distillation or recrystallization. In the above manner the

Card : 5/9

G-46

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Country : CZECHOSLOVAKIA

Category: Organic Chemistry. Natural Compounds and Their Synthetic Analogues

G

Abs Jour: RZhKhim., No 17, 1959, No. 61027

(from iso-C_3H_7OH-ether); (pyridyl 3)-methyl, B, 90, 77 (from ether-pretoleum ether-acetone), 164 (from acetone), iodomethylate of 179° melting point; (pyridyl-4)-methyl, B, 74, 107 (from acetone-ether-petr. ether), 190 (from acetone iodomethylate of 164° melting point; 1-(pyridyl-4)- ethyl, B, 56, 59-60 (from ether-petr. ether), 176 (from acetone-ether). A solution containing 4 gr II in 30 ml C_6H_6 was added drop by drop to a solution of 6.92 gr I in 55 ml C_6H_6, mixed for 3 hours and after 18 hours was decanted from 0.7 gr of chlorhydrate II, after 5 days 3.5 gr of chlorhydrate 3, 4, 5-trimetho-

Card : 7/9

G-47

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Country : CZECHOSLOVAKIA G
Category: Organic Chemistry. Natural Compounds and Their Synthetic Analogues.

Abs Jour: RZhKhim., No 17, 1959, No. 61027

and after the evaporation 3.2 gr of oily 3, 4, 5--trimethoxybenzoate (pyridyl-3)-ethylcarbinol were derived; melting point of chlorhydrate was 135° (from ether-acetone). Melting points were corrected. -- A. Ear.

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G-48

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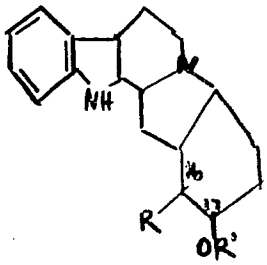
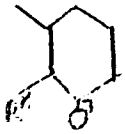
CZECH/8-52-11-17/30

Synthetic Models of Hypotensive Alkaloids IV. Some New Derivatives of the Yohimbine Group

and acetic anhydride on yohimbyl alcohol (I) was used to prepare its mono and diacetates (II and III). 16-methylyohimbone (IV) was obtained from 16-methylyohimbol (V) by an Oppenauer oxidation; the same ketone was unexpectedly produced by the oxidation of the tosylate of yohimbylalcohol. The reaction of 3,4,5-trimethoxybenzoyl chloride with yohimbol (VI) and with 16-methylyohimbol (V) yielded the esters VII and VIII. The course of the reaction was followed paper chromatographically and by the measurement of the R_F of the compounds prepared.





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CZECH/8-52-11-17/30

Synthetic Models of Hypotensive Alkaloids IV. Some New Derivatives of the Yohimbine Group

I R = CH_2OH; R' = H

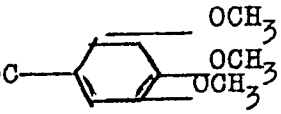
II R = CH_2OCOCH_3; R' = H

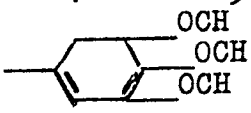
III R = CH_2OCOCH_3; R' = $COCH_3$

IV R" = CH_3

V R = CH_3; R' = H

VI R = H R' = H

VII R = CH_3; R' = OC 

VIII R = H; R' = OC 

All the compounds prepared had the same skeleton and alterations only took place to the molecule at the

Card3/5 $C_{(16)}$ and $C_{(17)}$ carbon atoms. The R_Fs found (given

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CZECH/8-52-11-17/30

Synthetic Models of Hypotensive Alkaloids IV. Some New Derivatives of the Yohimbine Group

in Table 1) were all in conformity with those expected (on the basis of structure) except the relation of yohimbine to 16-methylyohimbol and it is suggested that this is due to the formation of a hydrogen bridge between the carboxylgroup of yohimbine and the hydroxyl on $C_{(17)}$.

The stationary phase used for paper chromatography was formamide (50% ethanolic solution of formamide with the addition of 5% ammonium formate was used for impregnation of the paper). The mobile phase was either chloroform or chloroform/benzene (1/1). It was possible to use a loading of up to 500 micrograms of the substances (U V light and Dragendorf reagent spray detection).
There are 1 table and 19 references, 3 of which are Czech, 10 English, 3 Swiss and 3 German.

Card 4/5

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

CZECH/8-52-11-17/30

Synthetic Models of Hypotensive Alkaloids IV. Some New Derivatives of the Yohimbine Group

ASSOCIATION: Výzkumný ústav pro farmacii a biochemii, Praha (Institute for Pharmaceutical and Biochemical Research, Prague)

SUBMITTED: December 22, 1957

Card 5/5

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

VEJDELEK, Z. J.

COUNTRY : Czechoslovakia G-3
CATEGORY :

ABS. JOUR. : RZKhim., No. 5 1960, No. 17957

AUTHOR : Vejdelek, Z. J. and Protiva, M.
INST. : Not given
TITLE : Compounds Which Block the Sympathetic Ganglia. VII Derivatives of 2-Aminoisocamphane.

ORIG. PUB. : Chem Listy, 52, No 12, 2370-2377 (1958)

ABSTRACT : The preparation of amides of 2-aminoisocamphane (I), 2-methylaminoisocamphane (II), and 2-dimethylaminoisocamphane (III) and of their reduction products, N-substituted 2-methylaminoisocamphanes, is described. A mixture of 1.4 gm I and 1 gm $HCONH_2$ is heated for 4 hrs at 130° followed by heating for 30 min at 145-150° to give 2-formylaminoisocamphane (IV), yield 0.75 gm. To a solution of 228 gms D-camphene (V) in 405 ml CH_3COOH, 84 ml of conc H_2SO_4 are added with cooling, followed by the

CARD: 1/10 186

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

COUNTRY : Czechoslovakia G-3
CATEGORY :

ABS. JOUR. : RZKhim., No. 5 1960, No. 17957

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : similar procedure gives 143 gms of crude IV from 136 gms L-V. The reduction of 2-nitroisocamphane with Na in alcohol gives I, mp 182-184° (distillation), [α]^{20}D + 2° (alc), picrate mp 222° (from alc); the hydrochloride derivatives melts above 350°. A mixture of 8.1 gms crude IV, 25 ml 10% NaOH, and 25 ml alcohol is heated for 40 hrs; a yield of 5.2 gms I is obtained. The reduction of 0.75 gm IV with 0.5 gm $LiAlH_4$ in ether gives DL-2-methylaminoisocamphane (DL-VI), hydrochloride mp

CARD: 3/10 187

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

COUNTRY : Czechoslovakia G-3
CATEGORY :

ABS. JOUR. : RZKhim., No. 5 1960, No. 17957

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : -3° (c = 1; alc), hydrochloride mp 251° (decomp; from iso-C_3H_7-ether), picrate mp 191° (decomp; from aqueous alc). When D- and L-VI are mixed in equivalent amounts, DL-VI is obtained, $n^{20}D$ 1.4856, hydrochloride mp 247-248.5° (from iso-C_3H_7OH-ether). The methylation of DL-I by heating for 8 hrs with a mixture of 93% HCOOH and 30% HCOH at 95-105°, gives DL-2-dimethylaminoisocamphane (DL-VII), yield 59%, bp 64-65°/0.4-0.5 mm, 70-71°/2 mm, $n^{20}D$ 1.4865, hydrochloride mp 167-70° (from acetone), iodometh-

CARD: 5/10 188

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

COUNTRY : Czechoslovakia G-3
CATEGORY :

ABS. JOUR. : RZKhim., No. 5 1960, No. 17957

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : ylate mp 187° (from acetone-ether). DL-VII is similarly prepared by the methylation of DL-VI, yield 76%. The reaction of DL-VII with $Br(CH_2)_5Br$ gave only the hydrobromide, mp 177-178° (decomp: from alc-ether). Attempts to obtain the quaternary salt from DL-VII and $I(CH_2)_4I$ in acetone gave only the hydroiodide of VII, mp 207-208° (from alc-ether). The methylation of D-VI with a mixture of HCOOH and HCOH gives D-VII, mp 170-172° (from acetone), picrate mp 180° (from aqueous alc). A

CARD: 6/10

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

COUNTRY : Czechoslovakia G-3
CATEGORY :

ABS. JOUR. : RZKhim., No. 5 1960, No. 17957

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : solution of 5.6 gms $ClCH_2COCl$ in 20 ml C_6H_5 is added dropwise to a solution of 16.7 gms VI in 45 ml C_6H_5, the resulting solution is stirred for 2 hrs, allowed to stand 12 hrs, the hydrochloride of VI is filtered off, and the filtrate is rinsed with 1 N HCl, 10% Na_2CO_3, and water, dried, and evaporated to give 11 gms 2-(N-chloroacetyl-N-methylamino)-isocamphane, bp 143-145°/0.5 mm, which on standing for 24 hrs in benzene with $NH(CH_3)_2$ after the usual treatment gives 2-(N-dimethylaminoacetyl-N-methyl-

CARD: 7/10 189

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

COUNTRY : Czechoslovakia G-3
CATEGORY :

ABS. JOUR. : RZKhim., No. 5 1960, No. 17957

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : procedure applied to a mixture of VI and $ClCO(CH_2)_3$-$COCl$ in C_6H_6 (20°, 24 hrs) gives the bis-(N-2-isocamphyl-N-methyl)-amide of glutaric acid (X), yield 92%, which was used unpurified in subsequent work. The reduction of VIII with $LiAlH_4$ in ether gives 2-(N-dimethylaminoethyl-N-methylamino)-isocamphane (XI), yield 91%, bp 107-108°/1 mm, picrate mp 202-203° (from alc), monoiodomethylate mp 210° (from alc-ether). Similarly 6 gms IX give 5.4 gms 2-(N-3-picolyl-N-methylamino)-isocamphane (XII),

CARD: 9/10 190

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

COUNTRY : Czechoslovakia G-3

ABS. JOUR. : RZKhim., No. 5 1960, No. 17957

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : bp 156-158°/1-2 mm, and 7.7 gms X give 6.7 gms N, N'-bis-(2-isocamphyl)-N,N'-dimethylpentamethylenediamine (XIII), bp 218-220°/1 mm, dihydrochloride (semihydrate) mp 203-205° (from alc-ether), diiodomethylate (semihydrate) mp 178-179° (decomp; from acetone). I-XIII are effective ganglia-blocking agents and exhibit anti-hypotonia activity. The IR-spectra of the hydrochloride of bornylamine and L-I, DL-II, and DL-III are given. For Communication VI see RZhKhim, 1959, No. 3, 8246.

CARD: 10/10 A. Emr

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

PROTIVA,M.; VEJDELEK,Z.J.; JILEK,J.O.; MECEK,K.

Synthetic models of hypotensive alkaloids. V. Some additional derivatives of tryptamin and 1,2,3,4,-tetrahydronorharman. Coll Cz chem 25 no.12:3978-3987 '59. (EEAI 9:6)

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.
(Alkaloids) (Hypotension) (Aminoethylindole)
(Tetrahydropyridindole) (Tetrahydronorharman)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

VEJDELEK, Z.J.; RAJSNER, M.; PROTIVA, M.

Ganglionic blocking substances. X. Derivatives of cyclohexamine.
Coll Cz Chem 25 no.1:245-253 Ja '60. (EEAI 9:12)

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.
(LOCAL ANESTHESIA)
(CYCLOHEXYLAMINE)
(NERVES)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

ADLEROVA, E.; ERNEST, I.; HNEVSOVA, V.; JILEK, J.O.; NOVAK, L.; POMYKECEK, J.; RAJSNER, M.; SOVA, J.; VEJDELEK, Z.J.; PROTIVA, M.

Experiments on synthesis in the group of hypotensive alkaloids. VIII. Syntheses of some tryptomine derivatives, substituted in positions 5,6, and 7. Coll Cz chem 25 no.3:784-796 Mr '60. (EEAI 9:12)

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.
(Alkaloids) (Aminoethylindole) (Hypotension)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

PROTIVA, M.; HNEVSOVA-SEIDLOVA, V.; JIRKOVSKY, I.; NOVAK, L.; VEJDELEK, Z. J.

Synthetic ataractics. III. 2'-Substituted 2,3:6,7-dibenzosuberans with a 3-dimethylaminopropane group in position 1. Cesk. farm. 10 no.10: 506-515 D '61.

1. Vyzkumny ustav pro farmacii a biochemii, Praha.

(TRANQUILIZING AGENTS chem)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

KAKAC, B.; VEJDELEK, Z. J.

Photometric determination of some components of vitamin B complex. Cesk. farm. 10 no.10:522-540 D '61.

1. Vyzkumny ustav pro farmacii a biochemii, Praha.

(VITAMIN B COMPLEX chem) (PHOTOMETRY)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

VEJDELEK, Z. J.; PROTIVA, M.

Synthetic ataractics. IV. 2,3,:6,7-Dibenzo-4-suberines substituted with a dimethylaminopropane group in position 1. Cesk. farm. 11 no.1: 3-7 '61.

1. Vyzkumny ustav pro farmacii a biochemii, Praha.

(TRANQUILIZING AGENTS chem)
(CYCLOPARAFFINS chem)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

VEJDELEK, Z.J.; NEMECEK, O.; MUSIL, V.; SIMEK, A.

6-aminopenicillanic acid derivatives. Pt. 2. Coll Cz Chem 29 no. 3:776-794 Mr '64.

1. Research Institute of Pharmacy and Biochemistry, Prague.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

VEJDELEK, Z.J.; NOVAK, L.

A conference of the Prague branch of the Czechoslovak Chemical Society affiliated to the Czechoslovak Academy of Sciences. Vestnik CSAV 71 no.4:422-427 '62.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

PROTIVA, M.; VEJDELEK, Z.J.; RAJSNER, M.

Synthetic experiments in the group of active hypotensive alkaloids. Pt. 25. Coll Cz Chem 28 no.3:629-636 Mr '63.

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

ERNEST, I; JÍLEK, O; VEJDĚLEK, Z; PROTIVA, M.

Czechoslovakia

Research Institute of Pharmacy and Biochemistry -- Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 4, 1963, pp 1022-1029

"Synthetic Experiments in the Group of Hypotensively Active Alkloides XXVI. On Some New (-)-Methyl-Reserpate-Ester."

4

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

VEJDELEK, Z.J.; HEMECEK, O., SIMEK, A.;

Derivatives of 6-aminopenicillanic acid. Pt.1. Coll Cz Chem 28 no.10:2618-2626 O '63.

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

VEJDELEK, Z.

CZECHOSLOVAKIA

PROTIVA, M; JILEK, J; POMYKACEK, J; JIRKOVSKY, J; VEJDELEK, Z.

Research Institute of Pharmacy and Biochemistry (Forschungsinstitut für Pharmazie und Biochemie), Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 10, 1963, pp 2627-2635

"Synthetic Analgetica V. Synthetic Experiments on a Base of 4-phenyl-4-Carbethoxypiperidine (Norpethidine)."

(5)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

MUSIL, V.; NEMECEK, O.; VINTIKA, J.; VEJDELEK, Z.J.

6-aminopenicillin acid derivatives. Pt.3. Coll Cz Chem 29 no.12: 3081-3088 D '64.

1. Forschungsinstitut fur Pharmazie und Biochemie, Prague.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

PROTIVA, M., inz. dr. DrSc. (Praha 3, Kourimska 17); NOVAK, L.; VEJDELEK, Z.J.; ERNEST, I.

Sympathetic ganglionic blocking agents. Pt.14. Cesk. farm. 14 no.7:346-351 S '65.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

CZECHOSLOVAKIA

JILEK, J.O; PELZ, K; VEJDELEK, Z.J; PROTIVA, M

Research Institute for Pharmacy and Biochemistry (Forschungsinstitut fur Pharmazie and Biochemie), Prague

Prague, Collection of Czechoslovak Chemical Communications, No 1, January 1966, pp 269-278

"Neurotropic and psychotropic substances. Part 7: 2-alkoxy-9-(3-dimethylaminopropyliden) thioxanthene and an additional derivative of prothixene."

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

PROTIVA, M.; RAJSNER, M.; ADLEROVA, E.; SEIDLOVA, V.; VEJDELEK, Z.J.

Neurotropic and psychotropic substances. Pt.1.: Coll Cz Chem 29 no.9:2161-2181 S '64.

1. Forschunginstitut fur Pharmazie und Biochemie, Prague.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

ADLEROVA,E.; VEJDELKOVA,P.; PROTIVA,M.

Synthetic spasmolytics. Pt.19. Coll Cz Chem 29 no.1:97-120 Ja'64

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

CZECHOSLOVAKIA/Safety Engineering. Sanitary Engineering. Sanitation L.

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 14284

Author : Vejdelkova V.
Title : ~~Precautionary~~ Measures in Using Dermatin Aprons

Orig Pub : Bozpecn. a hyg. prace. 1956, 6, No 7, 203-204

Abstract : Description of an instance of ignition of an apron made of Dermatin (nitrocellulose impregnated fabric) during work at a furnace.

Card 1/1

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

Chem A

10

Synthetic antispasmodics. I. Basic esters. M. Protiva and Z. J. Nejdlek (United Pharm. Works, Prague) *Collection Czech. Chem. Commun.* 15, 511-51(1950) (in English); cf. following abstr. Several new potential antispasmodic basic esters have been prepd. Most of the compds. described are very effective against BaCl₂ spasms of the isolated intestine but in general lack anticholinergic activity. *2-Diethylaminoethyl-(2-diethylaminoethoxy)diphenylacetate-2HCl*, m. 215-16.5° (decompn.), from $Et_2NCH_2CH_2OH$ and $Ph_2CClCOCl$. *2-Diethylaminoethyl chlorodiphenylacetate picrate*, m. 142-4°. *2-(1-Piperidyl)-ethyl diphenylmalonate dipicrolonate*, m. 131-4°, *dipicrate*, m. 167-8° (decompn.), from $Ph_2C(COCl)_2$ and $C_5H_{10}NCH_2CH_2OH$. *N,N-Diethyl-α,α-diphenylmalonamide*, m. 131°. *N,N-Bis(2-hydroxyethyl) analog*, m. 111-6°. *2-Diethylaminoethyl o-phenoxybenzoate*, $b_{0.1}$ 210-12°. *HCl salt*, m. 163°. *2-(1-Piperidyl)ethyl ester-HCl*, m. 151.5-2°. *2-Diethylaminoethyl o-phenylmercaptobenzoate*, $b_{0.1}$ 185-7°. *HCl salt*, m. 118°; *picrate*, m. 115°. *2-Diethylaminoethyl o-benzoylbenzoate*, $b_{0.1}$ 180-5°; *picrate*, m. 97-8°; *picrolonate*, m. 172-3°. *2-(1-Piperidyl)ethyl ester picrate*, m. 157.5-8°. *o-Benzoyl-N,N-diethylbenzamide*, $b_{0.1}$ 125-30°, m. 51.5°. *Condensation product of phenylphthalide and 2-diethylaminoethyl chloride*, $b_{0.1}$ 198-201°; *picrolonate*, m. 191-2°.

Alfred Hoffman

1951

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

C. a.
1951

Organic Chemistry
10

Diethyl ester of benzhydrylformylaminomalonic acid. Z. J. Vejdělek and M. Protiva (United Pharm. Works, Prague, Czech.). *Chem. Listy* 45, 44-5(1951).—$HCONHCH(CO_2Et)_2$ (I) (10.15 g.) and 1.15 g. Na dust in 45 ml. xylene were refluxed 10 hrs. with 12.35 g. Ph_2CHBr in 15 ml. xylene, and treated with water; $Ph_2CHCH(NHCHO)(CO_2Et)_2$ (II) (3.7 g.) sepd. in crystals, m. 189.5° (from C_6H_6); an addnl. 0.88 g. was obtained by chromatography from the C_6H_6 extn. of the aq. layer, after stripping off the C_6H_6 and unreacted I. Yield 4.58 g. (43%). $(Ph_2CH)_2$ (0.9 g.) was isolated from the reaction mixt. M. H.

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

Chem A

10

Synthetic antispasmodics II. Benzhydryl β-(diethylamino)propionate and related compounds. Z. J. Vejdělek and M. Protiva (United Pharm. Works, Prague). *Collection Czech. Chem. Communs.* 15, 671-6(1950)(in English); cf. preceding abstr.—$Et_2NCH_2CH_2CO_2CHPh_2$ (I), an isomeride of trasentin (Meier, *C.A.* 31, 1099[4]; Miescher, *et al.*, *C.A.* 36, 2543[8]) is an *antispasmodic* of the papaverine type, inhibiting the $BaCl_2$ contractions of isolated intestine. I possesses 1% of the activity of atropine, and is 10% as effective as benadryl against histamine contractions. The I was tested as its HCl salt (II). I was prepd. as follows: (a) Hydrolyze $Et_2NCH_2CH_2CO_2Et$ (Fuson, *C.A.* 21, 2144) with alc. KOH, isolate the free acid, convert it to its Na salt by an equiv. amt. of NaOEt soln., evap. to dryness under reduced pressure, cover the residue with C_6H_6, treat with Ph_2CHBr, reflux 9 hrs. on the water bath, and treat the cooled mixt. with water and the required amt. of HCl; shaking seps. white needles of II, m. 171-2° (from EtOH). Treatment of II with Na_2CO_3 and subsequent extn. with Et_2O frees I, oil, b_1 158-62°; *picrolonate*, lustrous yellow needles, m. 117° (from EtOH). (b) Treat 4.8 g. CH_2:$CHCO_2CHPh_2$ (III) with 1 ml. Et_2NH (IV) with external cooling for 10 min., repeat with another ml. IV, let stand overnight, reflux the mixt. 6 hrs. at 140° on an oil bath, dil. the cold mixt. with C_6H_6, and filter off the solid; treatment of the filtrate with the required amt. of dil. HCl causes sepn. of II. After filtering off II as in (a) above, *N,N-diethylbenzhydrylamine* (V), m. 50° (from MeOH), was obtained as follows: Make the aq. layer alk. with NaOH, ext. with Et_2O, evap. off the Et_2O, and distill the residue under reduced pressure; at 0.5 mm. and 140° (bath), appears an oil crystg. to V; *picrate*, needles, m. 187.5° (from MeOH). *Dibenzhydrylamine* (VI), prepd. in 2.1 g. yield by heating 15.9 g. Ph_2CHNH_2 (VII)(Hauser, *et al.*, *C.A.* 43, 2981a) with 9 g. $BrCH_2CH_2CO_2Et$ in the autoclave 10 hrs. to 170-90°, extg. the cold reaction mixt. with 100 ml. of boiling EtOH, and cooling the ext., needles, m. 141-3°, (cor.) (from EtOH). The filtrate was evapd. under reduced pressure, the residue decompd. with excess NH_3, extd. with Et_2O, the soln. dried over K_2CO_3, and the residue fractionated under reduced pressure (the 1st fraction is VII); trituration of the residue with EtOH yielded *N-benzhydryl-β-(benzhydrylamino)propionamide* (VIII), which after recrystn. from EtOH, m. 141-3° (cor.). Mixed samples greatly depressed the m. p. of VI.

Lawrence Rosen

1951

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

A3

B A

Antispasmodics. New basic esters. M. Protiva and Z. J. Vejdelek (*Coll. Trav. chim. Tchécosl.*, 1950, 15, 541—551).—The synthesis of new antispasmodic agents is described. The compounds are basic esters of $CHPh_2 \cdot CO_2H$, $CPh_2(CO_2H)_2$, $o\text{-}CO_2H \cdot C_6H_4 \cdot OPh$, $o\text{-}CO_2H \cdot C_6H_4 \cdot SPh$ and $o\text{-}CO_2H \cdot C_6H_4 \cdot COPh$. These are effective against spasms produced by $BaCl_2$ but lack anti-acetylcholine activity.

$NEt_2 \cdot [CH_2]_2 \cdot OH$ (I) is added slowly to $Ph_2CCl \cdot COCl$ in light petroleum at the b.p. and after removal of pptd. hydrochloride of I, the solution is evaporated and the residue is heated to 150° (3 hr.). Extraction with dil. HCl and neutralisation with K_2CO_3 yields a crude base from which I is removed by distillation (vac.) then solution in HCl and evaporation (vac.) yield *2-diethylaminoethyl 2'-diethylaminoethoxydiphenylacetate* (as *dihydrochloride*, $C_{28}H_{42}O_3N_2,2HCl$, m.p. 215—216·5°). Addition of Na to I in boiling xylene yields a solution of $NEt_2 \cdot [CH_2]_2 \cdot ONa$ which is slowly added to $Ph_2CCl \cdot COCl$ in cold xylene. Pptd. NaCl is removed and evaporation (vac.) of the filtrate yields an oil which decomposes on distillation at 0·3 mm. but which in Et_2O with EtOH–HCl yields the hydrochloride of 2-diethylaminoethyl 1'-chlorodiphenylacetate, m.p. 153—154° (lit., 149—151°) (*picrate*, $C_{28}H_{32}O_9NCl,C_6H_3O_7N_3$, m.p. 142—144°). $Ph_2CCl \cdot COCl$ with I in light petroleum at the b.p. (2 hr.) followed by the usual isolation, yields a crude hydrochloride, which in the course of purification is converted into the hydrochloride of 2-diethylaminoethyl benzilate, m.p. 189° (cf. A., 1943, II, 161). $Ph_2C(COCl)_2$ [prep. from $Ph_2C{:}C{:}O$ and $(COCl)_2$] in C_6H_6 with 2-*N*-piperidylethanol at the b.p. (2 hr.) yields a hygroscopic hydrochloride from which is obtained *di-2-N-piperidylethyl diphenylmalonate* (*dipicrate*, $C_{30}H_{40}N_2O_4,C_6H_3O_7N_3$, m.p. 167—168°; *dipicrolonate*, $C_{30}H_{40}N_2O_4,C_{10}H_8O_5N_4$, m.p. 133—134°). Similarly $Ph_2C(COCl)_2$ with $NHEt_2$ yields *diphenylmalonate bisdiethylamide*, $C_{23}H_{30}O_2N_2$, m.p. 134°, and with $NH_2 \cdot [CH_2]_2 \cdot OH$ the *bis-2-hydroxyethylamide*, $C_{19}H_{22}O_4N_2$, m.p. 144—146°. $o\text{-}CO_2H \cdot C_6H_4 \cdot OPh$ is converted by $SOCl_2$ into $o\text{-}COCl \cdot C_6H_4 \cdot OPh$ which with the appropriate base yields *2-diethylaminoethyl-*, $C_{19}H_{22}O_3N,HCl$, m.p. 103° (free base, b.p. 210—212°/0·7 mm.) and *2-N-piperidylethyl phenoxybenzene-o-carboxylate hydrochloride*, $C_{20}H_{22}O_3N,HCl$, m.p. 151·5—152°. The following esters are prepared in the same way: *2-diethylaminoethyl phenylmercaptobenzene-o-carboxylate*, $C_{19}H_{22}O_2NS$, b.p. 185—187°/0·1 mm. (*hydrochloride*, m.p. 148°; *picrate*, $C_{19}H_{22}O_2NS,C_6H_3O_7N_3$, m.p. 115°). *2-diethylaminoethyl-*, b.p. 180—185°/0·5 mm. (*picrate*, $C_{20}H_{22}O_3N,C_6H_3O_7N_3$, m.p. 97—98°; *picrolonate*, $C_{20}H_{22}O_3N,C_{10}H_8O_5N_4$, m.p. 172—173°), and *2-N-piperidylethyl benzophenone-o-carboxylate* (*picrate*, $C_{22}H_{25}O_3N,C_6H_3O_7N_3$, m.p. 157·5—158°). *Benzophenone-o-carboxyldiethylamide*, $C_{18}H_{19}O_2N$, m.p. 51·5°, b.p. 125—130°/0·1 mm., is also prepared. Benzhydrol-*o*-carboxylic lactone is very resistant to hydrolysis and the diethylaminoethyl ester is not obtained but the lactone with $NaNH_2$ in C_6H_6 at the b.p. (4 hr.), on heating (5 hr.) with $Cl \cdot [CH_2]_2 \cdot NEt_2$, yields a crude base, b.p. 196—204°/1 mm. (decomp.), which forms a *picrolonate*, $C_{20}H_{22}O_2N,C_{10}H_8O_5N_4$, m.p. 191—192°, corresponding to the *lactone* of *2-diethylamino-1-hydroxy-1-phenyl-1-o-carboxyphenylethane*. Tables of comparative antispasmodic activity are given.

I. G. M. CAMPBELL.

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KONIG, B.; K 65. narozeninam prof. VEJDOVSKEHO, V., DrSc.

Contribution to the pathogenesis of keratoconus. Cesk. oftal. 18 no.2:142-149 Mr '62.

1. Ocni klinika lekarske fakulty PU v Olomouci, prednosta prof. MUDr. V. Vejdovsky, DrSc.
(KERATOCONUS etiol)

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VEJDOVSKY, D.

Plastic surgery with mucous membrane following chemical burns of the eye. Lek. listy, Brno 6 no.16:551-553 15 Aug 51. (CIML 21:4)

1. Of the Eye Clinic of Palacky University in Olomouc.

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VITEK, Vl.; RYSANEK, K.; VOJTECHOVSKY, M.; VEJDOVSKY, R.

Preliminary information on the mechanism of psychotropic action of cycloserine isomers. Activ. nerv. sup. 5 no.2:168-170 My '63.

1. Vyzkumny ustav experimentalni terapie, Praha - Interni katedra UDL, Praha - Ustav pro vyzkum vyzivy lidu, Praha - Oddeleni tbc pri Thomayerove nemocnici, Praha.
(CYCLOSERINE) (CENTRAL NERVOUS SYSTEM)
(ELECTROENCEPHALOGRAPHY) (INDOLACETIC ACID)
(URINE) (KYNURENINE) (TRYPTOPHAN)

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VITEK, V.; KYSANEK, K.; HORAKOVA, Z.; MURATOVA, J.; VOJTECHOVSKY, M.; VEJDOVSKY, R.

An attempt at explaining the psychotropic effect of cycloserine isomers. Cas. lek. cesk. 104 no.5:113-124 5 F'65.

1. Vyzkumny ustav experimentalni terapie, interni katedra UDL, Praha-Krc (reditel: prof. dr. O. Smahel, DrSc); Vyzkumny ustav pro farmacii a biochemii, Praha (reditel: inz. dr. J. Nemecek); Ustav pro vyzkum vyzivy lidu, Praha, (reditel: prof. dr. dr. J. Masek, DrSc.) a Oddeleni tbc pri Thomayerove nemocnici, Praha-Krc (vedoucí: MUDr. K. Prosek).

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VEJDOVSKY, R., Praha-Krc, Budejovicka 800; ANDRIOVA, M.; PROSEK, A.

Suitable concentrations of secondary antitubercular agents in culture media used in sensitivity tests for Mycobacterium tuberculosis and their clinical and laboratory correlation.
Cas. lek. Cesk. 104 no.39:1069-1073 1 O '65.

1. Plicni oddeleni dospelych Thomayerovy nemocnice v Praze (vedouci MUDr. A. Prosek) a Mikrobiologicke oddeleni Thomayerovy nemocnice v Praze (vedouci MUDr. M. Zavadova). Submitted December 1964.

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VEJDOVSKY, Radko, MUC

[redacted] case of unusual degenerative keratopathy. Cesk. ofth. 13 no.2:123-130 Apr 57.

1. Ustav experimentalni pathologie lekarske fakulty PU v Olomouci, prednosta doc. MUDr. P. Rohan. Ocni klinika lekarske fakulty PU v Olomouci, prednosta prof. MUDr. V. Vejdovsky.

(CORNEA, dis.
degen., diag. in child (Cz))

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VEJDOVSKY, V.

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VEJDOVSKY, V.

On the evaluation of Denig's plastic surgery in corrosive injury to the eye. Cesk. oftal. 19 no.5:312-315 S '63.

1. Ocni klinika lekarske fakulty PU v Olomouci, prednosta prof. dr. V. Vejdovsky, DrSc.
(EYE BURNS) (MUCOUS MEMBRANE)
(TRANSPLANTATION) (BURNS, CHEMICAL)

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VEJDOVSKY, V.

Anniversary of Prim. MUDr. Jan Sabata. Cesk. ofth. 16 no.3/4:239-40 My '60

(BIOGRAPHIES)

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VEJDOVSKY, V.; HEINC, A.

Early lamellar keratoplasty following chemical burns of the eye. Cesk. oftal. 20 no.3:173-176 My '64.

L. Ocni klinika lekarske fakulty PU [Palackeho Universita] v Olomouci (prednosta prof. dr. V.Vejdovsky, DrSc.).

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VEJDOVSKY, V.; HEINC, A.

Fifty years since first transparent keratoplasty. Cesk. ofth. 12 no.3:161-164 June 56.

1. Z ocni kliniky PU v Olomouci.
(CORNEAL TRANSPLANTATION, history,
transparent keratoplasty (Cz))

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

VEJDOVSKY, Vaclav; HRUBO, Antonin

Do the immunization properties of the antitubercular M-vaccine diminish by passage? Sborn. ved. prac. lek. fak. Karlov. Univ. 7 no.4:543-548 '64.

1. Oeni klinika lekarske fakulty Palackeho University, Olomouc, (prednosta: prof. MUDr. V. Vejdovsky, DrSc.) a Farmakologicky ustav lekarske fakulty Palackeho University, Olomouc (prednosta: doc. MUDr. J. Lenfeld, CSc.).

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VEJDOVSKY, V.; HEINC, A.; KONIG, B.

The effect of passage on the immunological properties of the antituberculosis M-vaccine (A study on rabbits' corneae). Cesk. oftal 21 no.3:150-153 My '65

1. Oeni klinika (prednosta: prof. dr. V.Veldovsky, DrSc.) farmacologicky ustav (prednosta: doc. dr. J. Lenfeld, CSc.) lekarske fakulty Palackeho University v Olomouci.

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VEJDOVSKY, V.

70th Anniversary of Academician Jaromir Kurz. Cas. lek. cesk. 104 no.25:704 26 Je'65.

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859230005-8

VEJDOVSKY, V.

Keratoplasty following burns. Lek. listy, Brno 7 no. 17:417-418 1 Sept 1952. (CIML 23:1)

1. Of the Eye Clinic (Head--Prof. V. Vejdovsky, M. D.) of Palacky University, Olomouc.

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