

HUNGARY/Chemical Technology - Chemical Products and Their  
Application. Elements. Oxides. Mineral Acids.  
Bases. Salts.

11-8

Abs Jour : Ref Zhur - Khimiya, No 17, 1958, 57958

purity after sulfuric acid processing, the solution  
must be neutralized to a pH of 6, in the presence of  
 $H_2O_2$  by means of  $Al(OH)_3$ .

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HORVATH, S.

Thermodynamic investigation of the reaction occurring during the reduction of zinc oxide. (To be contd.) p. 32.  
(KOHASZATI LAPOK. Vol. 12, no. 1/2, Jan/Feb. 1957, Budapest, Hungary)

SO: Monthly List of East European Accessions (EMAL) IC. Vol. 6, no. 12, Dec. 1957.  
Uncl.

BEVATH, Z.

Thermodynamic investigation of the reactions occurring during the reduction of zinc oxide. p. 112.

(KOMASZATI LAPOK. Vol. 12, no. 3, Mar. 1957, Budapest, Hungary)

S0: Monthly List of East European Accessions (EMAL) LI. Vol. 6, no. 12, Dec. 1957.  
Uncl.

HURVATH, L

Distr: 4E29

Thermodynamics of the processes taking place during the reduction of zinc oxide I. Zoltán Horváth. *Kémiai Lapok* 90, 32-42 (1957).--Provided that the condensed phases are insol. in each other, the systems contg. O<sub>2</sub> in the gas phase only can be considered as univariant. If one addnl. gas or compd. is present, the system becomes bi-variant and if 2 addnl. gases occur, it becomes trivariant. If the condensed phases are sol. in each other, the no. of variables is the sum of all gases and all dissolved components. II. *Ibid.* 112-19.--Four reactions take place: ZnO + C = Zn + CO (I), 2ZnO + C = 2Zn + CO<sub>2</sub> (II), ZnO + CO = Zn + CO<sub>2</sub> (III), and CO<sub>2</sub> + C = 2CO (IV). If these occur simultaneously, the equil. compn. of the product gas is Zn 50.37, CO 48.82, and CO<sub>2</sub> 0.79%. Study of the kinetics of the reaction indicates that III predominates. To avoid re-oxidation the *p*<sub>CO</sub>/*p*<sub>CO<sub>2</sub></sub> ratio should be kept ~ 3000; to ensure this, a min. temp. of 1100° is needed at which the rate of IV greatly exceeds that of III. No re-oxidation takes place below 550°. Liquid Zn begins to appear at 1049° and 7.5 atm. The equil. const. of II is 1 at 697°; at this temp. the gas phase consists of 62% CO and 38% CO<sub>2</sub>. At 1 atm. total pressure and 0.5 atm. partial Zn vapor pressure I begins at 900, II at 950, and III at 900°; the respective temps., when starting from normal conditions, are 950, 1077, and 1510°. L. G. Arvai

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HUNGARY/Chemical Technology, Chemical Products and Their  
Application, Part 2. - Electrochemical Industries,  
Electroplating, Chemical Sources of Electric  
Current.

H-12

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 33146.

Author : Z. Horváth.

Inst : Academy of Sciences of Hungary.

Title : Manufacturing of Manganese Sulfate Solution Fit for  
Electrolysis from Urkút Washery Slimes.

Inst : Acta techn. Acad. sci. hung., 1957, 18, No 3-4, 209-230.

Abstract: The technology of manufacturing a sulfate electrolyte  
suitable for electrolytic Mn production is proposed.  
The basic operations of the technological process  
are: a/ ore reduction in a gas flow at 400 to 500°  
in the duration of 1 hour; b/ cooling in a reducing

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HUNGARY/Chemical Technology, Chemical Products and Their  
Application, Part 2. - Electrochemical Industries,  
Electroplating, Chemical Sources of Electric Cur-  
rent.

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Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 33146.

atmosphere; c/ leaching at normal temperature with  
the solution returning from the electrolysis. The  
composition of the solution is (in g per liter):  
( $\text{NH}_4$ )<sub>2</sub>SO<sub>4</sub> - 200, free H<sub>2</sub>SO<sub>4</sub> - 60, MnSO<sub>4</sub> - a small  
amount. The yield of Mn was 93.33 or 94.04% depend-  
ing on the leaching conditions.

Card : 2/2

HORVATH, Z.

Computation of the economical current density which secures the lowest specific power consumption in zinc electrolysis. (To be contd.) p. 135.

KOHASZATI LAPOK. (Magyar Bányászati és Kohászati Egyesület) Budapest, Hungary  
Vol. 14, no. 4, Apr. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8 No. 8,  
August 1959.  
Uncla.

HORVATH, Z.

Thermodynamics of the reactions taking place during the oxidation period of copper refining. In English. p.159.

ACTA TECHNICA. Budapest, Hungary. Vol. 25, no. 1/2, 1959.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September, 1959  
Uncl.



21 3  
✓ Thermodynamics of the deoxidation of lead with gaseous chlorine. II. Zoltán Horváth and József Weber. *Köhdsvati Lapok* 15, 263-73 (1960); cf. *CA* 54, 18204c. From the equil. const., calcd. from the thermodynamic normal potential, the changes in the equil. Zn content of the refined Pb, in relation to the temp. and to the Pb content of the chloride slag, can be calcd. An increase in the Pb content and (or) a decrease in temp. will reduce the Zn content of the refined product. L. G. Arvai

PALOVICS, Pal, okleveles kohomernok; HORVATH, Zoltan, dr.

Economical loading of aluminum electrolyzers under the existing  
circumstances in Hungary. Koh lap 93 no.4:181-187 Ap '60.

HORVATH, Zoltan, dr.; WEBER, Jozsef

Thermodynamic examination of the processes occurring during the  
dezincification of lead by means of chlorine gas. Koh lap 93 no.5:  
193-199 My '60.

HORVATH, Zoltan, dr., egyetemi tanar; NAGY, Miklos, egyetemi tanarseged

History of training metallurgical engineers in Hungary. Koh lap  
93 no.5:235-240 My '60.

1. Kohomernoki Kar dekanja (for Horvath). 2. Dekani titkar (for Nagy).

HORVATH, Zoltan, dr.; WEBER, Jozsef

Thermodynamic examination of the processes occurring during the  
dezincification of lead by means of chlorine gas. Koh lap 93  
no.6:268-273 Je '60.

HORVATH, Istvan, dr., docent

A guide. Kötlet. 97 no. 12: 1964. 1964. 1964. 1964.

i. Faculty of Metallurgical Engineering, Technical University of Heavy Industry, Miskolc.

HORVATH, Zoltan, dr.

"Femipari Kutato Intezet Kozlomenyei", vol.3, 1959; a periodical review by Zoltan Horvath. Koh lap 93 no.9:429 S '60.

HORVATH, Zoltan, egyetemi tanar (Miskolc)

The work of the Department of Metallurgy. Borsod szemle 6 no.6:84-86  
1962.



HORVATH, Z., doctor of eng.sc.; WEBER, J.

The Parkes process with zinc addition in two stages granting minimum zinc consumption. Acta techn Hung 40 no.3/4:263-284, 1962.

1. Metallurgical Department of the University for Heavy Industry, Miskolc.

HORVATH, Zoltan, dr.; WEBER, Jozsef

The Parkes process as a work method insuring double addition  
of zinc in special view of the least use of zinc. Koh lap  
95 no.3:108-114 Mr '62.

HORVATH, Zoltan, dr., egyetemi tanar; MIHALIK, Arpad, tanarseged

Experiments relating to the elimination of lead sponge formation being observed during the manufacture of white lead pigment. Koh lap 95 no.8:360-366 Ag '62.

1. NME Femkohaszati Tanszek vezetoje (for Horvath).

HUNGARY

HORVATH, Zoltan, Dr, KARBAI, Ferenc, Dr, candidates of veterinary sciences; Veterinary Medical University, Department of Medicine and Clinic (Allatorvos-tudományi Egyetem, Belgyógyászati Tanszék és Klinika) (chairman: HORVATH, Zoltan, docent, candidate of veterinary sciences).

"Kidney Clearance Tests With a Single Injection of Phenol Red, Without Urine Testing. II. Clinical Application."

Budapest, Magyar Allatorvosok Lapja, Vol 18, No 8, Aug 1963, pages 321-323.

Abstract: [Authors' English summary modified] Phenol red is the most suitable test of the kidney clearance in cattle, since concentration tests can not be used. Favorable results were obtained with this method in the testing of kidney function in other animal species as well. Cows with severe kidney impairment gave half-times ( $t_{1/2}$ ) between 40-75 minutes. In cases of lesser disease the half-time was 26-38 minutes. Similar results were obtained in horses and dogs. The values obtained were in agreement with the clinical and pathological findings in most of the cases and indicated the degree of affection in the kidneys correctly. No references.

1/1

HORVATH, Zoltan, dr., egyetemi tanar

The new reform curriculum at the Faculty of Metallurgy. Koh lap 96  
no.2:56-61 F '63.

1. Nehézipari Muszaki Egyetem Kohomernoki Kar dekanja.

HORVATH, Zoltan, dr., dekan

Guide. Koh lap 97 no.11:Suppl:Ontode 15 no.11:4 of cover N '64.

1. Chair of Metallurgical Engineering, Technical University of  
Heavy Industry, Miskolc.

Veterinary Medicine

HUNGARY

HORVATH, Zoltan, Dr, professor, ROZSAHEGYI, Tibor, Dr, adjunctus; Veterinary Medical University, Department of Internal Medicine and Clinic (chairman: HORVATH, Zoltan, Dr, professor, cand. of vet. sci.) (Allatorvostudományi Egyetem, Belgyógyászati Tanszék es Klinika).

"Current Principles of the Diagnosis and Treatment of Indigestio Pro-ventriculorum I. Diagnosis."

Budapest, Magyar Allatorvosok Lapja, Vol 21, No 7, Jul 66, pages 289-296.

Abstract: [Authors' English summary modified] The procedure involved in the diagnosis of rumen inactivity is discussed including some complementary methods such as the examination of the rumen contents, the taking of ruminographic records and the use of a ferroscope. In addition to anamnestic data as well as general and detailed clinical examinations, the following conditions are also considered carefully when studying the etiology of the syndrome: fullness and gas content of the forestomach and the results of the rumen content examination (physical condition, pH, infusoria, sedimentation, gas production, cellulose digestion, nitrite binding ability, amount of volatile fatty acids). Special attention is paid to the ruminograms and to the results of ferrosopic examinations. By feeding ensilage alfalfa to

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HORVATH, Zoltan, ROZSAHEGYI, Tibor, HORVATH, Zoltan, Dr, adjunctus; Veterinary Medical University, Department of Internal Medicine and Clinic (chairman: HORVATH, Zoltan, Dr, professor, cand. of vet. sci.) (Allatorvosok Lapja, Vol 21, No 7, Jul 66, pp 289-296

two groups of cows (four animals each), the authors succeeded in producing a so-called real, primary indigestion. The results of rumen content and ruminographic examinations are described in detail. The findings indicate that the above diagnostic and complementary methods greatly facilitate elucidation of the etiology. 5 Eastern European, 3 Western references.

L 46892-60

ACC NR: AI6034301

SOURCE CODE: HU/0014/66/000/005/0217/0221

HORVATH, Zoltan, Dr., Professor, Doctor of Technical Sciences, and MIHALIK, Arpad, Associate Professor,

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B

"Investigation of the Reactivity of Carbon-Containing Substances"

Budapest, Kohászati Lapok, Vol 99, No 5, May 1966, pp 217-221.

Abstract: Among the characteristics determining the suitability of various coals for industrial purposes one of the most important one is reactivity. Means for determining the reactivity of coals were presented and discussed. It was shown that the Boudouard reaction,  $CO_2 + C = 2CO$ , provides the most suitable basis for this determination. The principles and techniques involved in determinations of reactivity on this basis were presented in some detail. The equations characterizing reactivity comprise the relationships between diffusion, grain size, reacting surface, gas pressure, and the like. Some examples were presented for the applications of the relationships discussed.

Orig. art. has: 4 figures and 18 formulas. [JPRS 36,867]

ORG.: none

TOPIC TAGS: coal chemical reaction

SUB CODE: 08,07 / SUBM DATE: none / ORIG REF: 004/ OTH REF: 015

Card 1/1 fv

UDC: 669.784:543.87:542.2/.7

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HUNGARY

HORVATH, Prof. Dr. Zoltan, and LAMI, Dr Gyula university lecturer (egyetemi docens), Candidates of Veterinary Sciences; Chair and Clinic of Internal Medicine (Belgyogyaszati Tanszek es Klinika), University of Veterinary Science (Allat-orvostudomanyi Szyetem).

"General Veterinary Medical Training at the University of Veterinary Science"

Budapest, Magyar Allatorvosok Lapja, Vol 21, No 8, Aug 66; pp 368-371.

Abstract [Author's English summary, modified]: Authors report on the organization of the general veterinary practice of students, introduced at the University of Veterinary Science, Budapest, two years ago, and on the experiences acquired in this practice. Fourth- and fifth-year students, in groups of 6 or 7, call on state farms, cooperative farms, state veterinary stations not far from Budapest, during the first 4 days of each week, and carry out practical veterinary work under the direction of an instructor and in collaboration with the veterinary surgeon in charge. Some of these places are visited once every two weeks. The authors consider this practice and the experiences acquired during its course advantageous not only from the veterinary point of view, but also as a teaching tool. 29 References, mainly Western.

MATOK, Gyorgyne; HORVATH, Zoltanne; KORACH, Mor; EMCD, Gyula; HEINCZ, Gyorgy;  
PESTHY, Laszlo

A new type of primary electric source used in telecommunication techniques; also, remarks by Z.Horvath, and others. Muszaki kozl  
Mata 26 no.1/4:321-333 '60. (EEAI 9:10)

1. Tavkozlesi Kutato Intezet (for Matok)  
(Telecommunication)

MATOK, Gyorgyne; HORVATH, Zoltanne

The role of inhibitors in developing dry batteries. Magyar folyoir  
66 no.9:367-369 S '60.

1. Tavkozlesi Kutato Intezet, Budapest.

HORVATH, ZS.

Causes of unsized fiber waste. p. 205.

MAGYAR TEXTILTECHNIKA. (Textilipari Muszaki es Tudomanyos Egyesulet)  
Budapest, Hungary, Vol. 11, no. 5, May 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,  
August 1959.  
Uncla.

HORVATH ZEJNO, L.

Significance of delimitation of spheres of authority in connection with towns with the jurisdiction of a county. p. 343.

Vol 7, no. 6, June 1955. PRZEGLAD PAPIERNICZY. Lodz, Poland.

So: Eastern European Accession. Vol 5, no. 4, April 1956

HORVATH BORS, Erno

Constructional members with concrete skeleton system and  
their building technology. Magyar ipar 12 no.3:121-135  
'63.

UJHELYI, Janos; BONTA, Jozsef; DEAK, Gyorgyna; HORVATH BORS, Erno

Constructing middle and large blocks from foam slag concrete. *Magy*  
ep ip 10 no.2:65-70 '61.

1. "Magyar Epitoipar" szerkeszto bizottsagi tagja.

HORVATHOVA, Blazena, promovany geograf

Temperature of Slovak streams. Vodohosp cas 12 no. 1:  
5- 15 '64.

1. Hydrometeorological Institute, Bratislava Branch.



SEDLAK, J.; PIZL, M.; Technicka spolupraca HORVATHOVA, O.; HALAMA, M.

Progesterone in the treatment of edema in cardiac insufficiency.  
Preliminary report. Bratisl. lek. listy 42 no.5:278-283 '62.

1. Z Centralneho laboratoria OUNZ v Martine, prednosta MUDr. J. Sedlak,  
a z interneho oddelenia OUNZ v Martine, prednosta MUDr. M. Pizl.

(HEART FAILURE CONGESTIVE ther)  
(PROGESTERONE ther)

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AUTHORS: Náter, Ivan; Horváthová, Soňa and Netschevá, Drahomíra  
(Bratislava)

TITLE: The influence of inelastic internal resistance on  
the velocity of bending waves in elastic bars

PERIODICAL: Matematicko - fyzikálny časopis, no. 2, 1961, 131-145

TEXT: The mathematical investigation of wave velocity in elastic bars has been undertaken at several levels. The simplest theory, neglecting the internal resistance, has been given by G. Kol'skiy (Ref. 1: Volny napryazheniya v tverdykh telakh (Stress Waves in Solid Bodies) Moscow 1955 expressed in the differential equation

$$c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + \frac{\partial^2 y}{\partial t^2} = 0. \quad (1)$$

Kol'skiy is also quoted as having prepared graphs [Abstracter's note: Not given in this paper] which are compared with the results of the more exact theory given by Rayleigh (Ref. 2: Teoriya zvuka

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(Theory of Sound) Moscow-Leningrad 1940) and also by S. Timoshenko (Ref. 6: Pružnost a pevnost, Prague 1951) essentially in the form of equation

$$c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + \frac{\partial^2 y}{\partial t^2} - k^2 \frac{\partial^4 y}{\partial x^2 \partial t^2} = 0. \quad (4)$$

Taking the inelastic internal resistance into consideration the authors obtain equation

$$\left(1 + i \frac{\psi}{2\pi}\right) c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + \frac{\partial^2 y}{\partial t^2} = 0. \quad (14)$$

derived in accordance with Ref. 1 (Op. cit) and corresponding to Eq. (1) and if one proceeds according to Ref. 2 (Op. cit)

$$\left(1 + i \frac{\psi}{2\pi}\right) c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + \frac{\partial^2 y}{\partial t^2} - k^2 \frac{\partial^4 y}{\partial x^2 \partial t^2} = 0. \quad (19)$$

is obtained corresponding to Eq. (4); on solving the equation, the

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the authors obtain

$$\left[ 1 - \left( \frac{\psi}{2\pi} \right)^2 + 2i \frac{\psi}{2\pi} \right] c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + \left( 1 + i \frac{\psi}{2\pi} \right) \frac{\partial^2 y}{\partial t^2} - \left( 1 + i \frac{\psi}{2\pi} \right) k^2 \left( 1 + \frac{E}{\mu G} \right) \frac{\partial^4 y}{\partial x^2 \partial t^2} + \frac{k^2 E}{c_0^2 \mu G} \frac{\partial^4 y}{\partial t^4} = 0. \quad (22)$$

the dependence of the velocity on the wavelength being expressed in

$$c = \frac{2\pi c_0 k}{\lambda} \sqrt{\frac{1}{2} \left[ 1 + \sqrt{1 + \left( \frac{\psi}{2\pi} \right)^2} \right]}. \quad (17)$$

$$c = c_0 \left[ 1 + \left( \frac{\lambda}{2\pi k} \right)^2 \right]^{-\frac{1}{2}} \sqrt{\frac{1}{2} \left[ 1 + \sqrt{1 + \left( \frac{\psi}{2\pi} \right)^2} \right]}. \quad (21)$$

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and

$$c = \frac{c_0}{\sqrt{2}} \sqrt{1 + \frac{\mu G}{E} \left[ 1 + \left( \frac{\lambda}{2\pi k} \right)^2 \right] - \sqrt{\left\{ 1 + \frac{\mu G}{E} \left[ 1 + \left( \frac{\lambda}{2\pi k} \right)^2 \right] \right\}^2 - 4 \frac{\mu G}{E}}}. \quad (25)$$

$$\sqrt{\frac{1 - \frac{5}{4} \left( \frac{\psi}{2\pi} \right)^2}{1 - \frac{3}{2} \left( \frac{\psi}{2\pi} \right)^2 + \frac{1}{16} \left( \frac{\psi}{2\pi} \right)^4}}. \quad (25)$$

in accordance with Ye. S. Sorokin (Ref. 3: Metod ucheta neuprugogo soprotivleniya materiala pri raschete konstruktsiy na kolebaniya Sbornik TsNIPS, 1951), where

$$\sigma = \left( 1 + i \frac{\nu}{2\pi} \right) E \varepsilon, \quad (10) \quad \text{and} \quad \tau = \left( 1 + i \frac{\nu}{2\pi} \right) G \gamma \quad (11)$$

In these expressions the inelastic internal resistance causes a slight increase in the wave velocity. According to Sorokin's new

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hypothesis. (Ref. 12: K teorii vnutrennego treniya pri kolebaniyakh uprugikh sistem (On the Theory of Internal Friction During Oscillations of Elastic Systems) Moscow 1960),  $\sigma = (u + iv) E \epsilon$  (10a) and  $\tau = (u + iv) G \gamma$  (11a)

where

$$u = \frac{1 - \left(\frac{\psi}{4\pi}\right)^2}{1 + \left(\frac{\psi}{4\pi}\right)^2}, \quad v = \frac{\frac{\psi}{2\pi}}{1 + \left(\frac{\psi}{4\pi}\right)^2} \quad (12)$$

If one expresses the inelastic internal resistance according to this new theory as

$$(u + iv) c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + \frac{\partial^2 y}{\partial t^2} = 0. \quad (28)$$

$$(u + iv) c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + \frac{\partial^2 y}{\partial t^2} - k^2 \frac{\partial^4 y}{\partial x^2 \partial t^2} = 0. \quad (32)$$

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and

$$\sqrt{(u + iv)^2 c_0^2 k^2} \frac{\partial^4 y}{\partial x^4} + (u + iv) \left[ \frac{\partial^2 y}{\partial t^2} - k^2 \left( 1 + \frac{E}{\mu G} \right) \frac{\partial^4 y}{\partial x^2 \partial t^2} \right] + \frac{k^2 E}{c_0^2 \mu G} \frac{\partial^4 y}{\partial t^4} = 0. \quad (35)$$

the dependent wave velocity is given by expressions

$$c = \frac{2\pi c_0 k}{\lambda} \left[ 1 + \left( \frac{\psi}{4\pi} \right)^2 \right]^{-\frac{1}{2}} \quad (30)$$

$$c = c_0 \left[ 1 + \left( \frac{\lambda}{2\pi k} \right)^2 \right]^{-\frac{1}{2}} \cdot \left[ 1 + \left( \frac{\psi}{4\pi} \right)^2 \right]^{-\frac{1}{2}} \quad (34)$$

and

$$c = \frac{c_0}{\sqrt{2}} \sqrt{1 + \frac{\mu G}{E} \left[ 1 + \left( \frac{\lambda}{2\pi k} \right)^2 \right]} - \sqrt{\left\{ 1 + \frac{\mu G}{E} \left[ 1 + \left( \frac{\lambda}{2\pi k} \right)^2 \right] \right\}^2 - 4 \frac{\mu G}{E}} \cdot \left[ 1 + \left( \frac{\psi}{4\pi} \right)^2 \right]^{-\frac{1}{2}} \quad (38)$$

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Here the inelastic internal resistance causes a decrease in the velocity. Taking a value of 0.2 for  $\psi$ , the correcting factor becomes according to Eq. (22) [Abstracter's note: Sorokin's old hypothesis]  $\approx 1.00014$ ; comparing that with the result obtained according to the new hypothesis where one obtains the correcting factor  $\approx 0.999987$ , it is clear that the decrease in velocity is only approximately 0.0013% of the speed; this value is practically negligible except in the case of materials with a high value of  $\psi$  (e.g. ferroconcrete). The author gives the following glossary of symbol values:  $\psi$  = coefficient of internal energy absorption;  $c_0 = \sqrt{\frac{E}{S}}$ ; E = modulus of elasticity (in tension); s = specific

mass of bar material;  $k = \sqrt{\frac{I}{S}}$ ; I = moment of inertia; S = sectional area of the bar; t = time;  $\epsilon$  = relative lengthening (under tension);  $\gamma$  = relative movement (under compression); x = right angle coordinate referring to the equilibrium position of the bar; y = deflection of single points from axis; G = modulus of elasticity (compression); c = wave velocity (bending waves);  $\sigma$  = normal stress;

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$\tau$  = tangential stress. There are 1 figure and 12 references:  
7 Soviet-bloc and 5 non-Soviet-bloc. The references to the 4 most  
recent English-language publications read as follows: S. Timoshenko  
Phil. Mag. 41 (1921) p 744; D. Bancroft Phys. Rev. 59 (1941) p. 588;  
G. E. Hudson Phys. Rev. 63 (1943) 46; R. M. Davies Phil. Trans. A.  
240 (1948) p 375.

ASSOCIATION: Katedra fyziky Slovenskej vysokej školy technickej  
v Bratislave (Department of Physics, Slovak Technical  
University)

SUBMITTED: June 15, 1960

Card 8/8

**HORVATHY, L.**

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**Effect of cancer-producing hydrocarbons on dogs and other animals.** László Horváthy. *Közlemények Országos Állatorvosi Kórtan Közlöny* 29, 423-3 (1941).—No malignant tumors could be produced on dogs by subcutaneous injections of an oily soln. of methyloanthrene. Application to the surface of the skin of mice caused cancerous symptoms with both methyloanthrene and benzo(a)pyrene. Rats were more resistant to both agents. Surface treatment of the combs of hen caused some hardening without any cancerous tumors.

S. S. de Finály

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ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

GROUP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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HORVATHY, L.

Soviet mining rescue apparatus. p. 649. (Banszati Lapok, Budapest, Vol 9, no. 12, Dec 1954)

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

HORVATH, L.

Correlation between the rate of stripping and coal drawing in open-pit mining. p. 715.

HAVASLELETI IROK. (HUNGARIAN Feltaraszati es Kohasati Agyasulet) Budapest. (Journal on prospecting and mining issued by the Hungarian Mining and Metallurgic Society. Includes a supplement; HOOLEK, on crude oil production. Monthly) Vol 14, no. 11, Nov. 1959.

Monthly List of East European Accession (SER. I) 13, Vol. ~~XXXXXXXXXXXXXXXXXXXX~~ 9, no.2, Feb. 1960  
Incl.

C. T. HORVÁTHY, V.

f

**Electrolysis of complex silver salt solutions.** Tibor Erdey-Grúz and Valéria Horváthy (Univ., Budapest, Hung.). *Magyar Kém. Lapja* 6, 524-31 (1949).—A device was constructed for the purpose of scratching the surface of a silver electrode during electrolysis. This electrode was prepd. from a thick wire by hammering it into a disklike shape. Solns. contg. various amts. of  $\text{AgNO}_3$ ,  $\text{KAg}(\text{CN})_2$ , and  $\text{Ag}(\text{NH}_3)_2\text{OH}$  were electrolyzed and the mechanism of deposition of Ag on the cathode was studied. Gaseous N was bubbled through the solns. during electrolysis to inhibit the dissolving of Ag in the cyanide soln. The max. current ds. were detd. at which the Ag pptn. on the cathode still agreed with the law of Faraday, these values are called "limits" of 100% Ag pptn. (110%). This limit was the highest in  $\text{AgNO}_3$  solns. as compared to other solns. of identical concn., and the lowest in solns. of  $\text{Ag}(\text{NH}_3)_2\text{OH}$ . The value of 110% increased parallel to the increase of Ag concn., but showed no alteration when  $\text{KNO}_3$  or  $\text{NH}_4\text{OH}$  was added to the soln. at a given Ag concn. The addn. of excess KCN to a soln. of  $\text{KAg}(\text{CN})_2$  diminished the value of 110%. Increasing the temp. in the interval 0-20° increased the value of 110% by about 1% for each degree centigrade. A correlation of the anodic-dissolving effect to the current d., similar to that of the cathode was observed. The numeric value of 110% appeared somewhat higher for the anode. The presence of  $\text{KNO}_3$ , KCN, and  $\text{NH}_4\text{OH}$  increased the value of anodic 110%. The results of expts. show no significant differences between electrolytic pptn. of Ag from Ag ion hydrates present in simple solns. of Ag salts and

electrolytic pptn. of Ag from complex ion solns. The mechanism of the process is the following: The ions are sep'd. from the soln. by the force of the cathodic field, then they go to the surface of cathode, where they are neutralized. The Ag lost from the soln. by this pptn. is replaced by diffusion. The ion transfer due to the elec. current does not play a significant role in this respect. Calculs. based on these principles showed that the thickness of the layer between the surface of the cathode and the interior of the soln. must be about  $10^{-2}$  cm. This is in accordance with results obtained in other fields. Diffusion actually transfers Ag in amts. corresponding to the cathodic current ds. up to the 110% values. In the case of current ds. above this rate, the diffusion is unable to replace the full amt. of Ag required. Existence of anodic dissolving effects below 100% is probably due to a layer covering the surface of the anode with solid salts. It seems that this layer forms when the velocity of Ag soln. becomes greater than the velocity of diffusion between the produced salt and that portion of the soln. which is in immediate contact with the surface of anode, and the latter thus becomes oversatd. in respect to Ag compds.

1. Finally

072017 MOKOYIHY

HUNGARY / Chemical Technology, Chemical Products and Their Application, Part 3. - Drugs, Vitamins, Antibiotics. H

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61966.

Author : Istvan Floderer, ~~Valeria Horvathy~~.

Inst : Not given.

Title : Chlorpromazine Determination in Pharmaceutical Preparations (Largactyl, Megaphene, Hiberna).

Orig Pub: Acta pharmac. hung., 1957, 27, No 4 -5, 152 - 160.

Abstract: A colorimetric method of determination of active substances in preparations containing chlorpromazine (I) (Largactyl, megaphene, hiberna (aminozin in USSR)) was developed. It is based on the color reaction of I with  $Fe^{3+}$  chloride in a hydrochloric medium. The conditions, under which I can be detected in con-

Card 1/2

58

HUNGARY / Chemical Technology, Chemical Products and Their Application, Part 3. - Drugs, Vitamins, Antibiotics. H

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61966.

Abstract: concentrations from 100 to 400  $\mu$ g in 25 ml, were determined experimentally. It was found contrarily to bibliographic data that the red colored reaction product was not an oxidation product, but consisted of a  $Fe^{3+}$  complex. The unsplit active substance can be easily determined in the presence of dissociation products.

Card 2/2

FLODERER, Istvan; HORVATHY, Valeria

Study of the correlation between the pH and oxidation of some  
iminodibenzyl and phenothiazine derivatives. Act pharm. Hung.  
35 no.3:98-103 My '65

HORVATIC, Dr. Ivan

"A Contribution to the Treatment of Pasteurellosis in Pigs by means of Streptomycin".  
Director of Vet. Inst. at Mostar.

SOURCE: Vet. SVEZAK 2, p. 390, 1953



HORVATIC, Drago, inz. (Zagreb)

Computing the superelevation in composite constructions.  
Gradevinar 16 no.10:354-359 0 '64.

HCRVATIC, Ivan (Zagreb, Izvrsno vee NRH)

Safety in road transportation. Tehnika Jug:Suppl.:Prehran ind 17  
no.3:557-561 Mr '63.

1. Drzavni podsekretar za saobracaj Izvrsnog veca NR Hrvatske,  
Zagreb.

HO...

"Prospects for development of the industry of gas for domestic fuel, coke, and the processing of coal in 1954."

Kemija U Industriji, Zagreb, Vol 3, No 1, Jan 1954, p. 26

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

HORVATIC, Zeljko, dipl. inž. el.

Influence of the tolerances of elements on the transistor resistor logic switch. *Automatika* 5 no.3:225-227 1964

1. Institute of Telecommunication, Faculty of Electrical Engineering, Zagreb, Unaka ul. bb.

BANYASZ, T.; JAKO, J.; HORVATH, I.

On the effect of treatment with butylbiguanide on the liver function. Acta med. acad. sci. Hung. 21 no.3:257-262 '65.

1. II. Medizinische Abteilung und Zentrallaboratorium des Bajcsy-Zsilinszky-Krankenhauses, Budapest. Submitted November 16, 1964.

HORVATOVICOVA-HASTELOVA, Alzbeta

CZECHOSLOVAKIA

Jozef KOLEK, Jozef SVARA, Friedrich ERIC, and Alzbeta HORVATOVICOVA -  
HASTELOVA, Department of Plant Physiology, Biological Institute of  
Slovak Academy of Sciences, Czechoslovak Academy of Sciences (Oddelenie  
fyziologie rastlin, Biologicky ustav Slovenskej akademie vied,  
Ceskoslovenska akademie vied), Bratislava.

"Some Data About Chlorosis of Black Currants."

Bratislava, Biologia, Vol 17, No 11, 1962: pp 795-803

Abstract [German summary modified]: Cause of this disease is excessive  
calcium in the soil and remedy 20% superphosphate solution poured on  
at weekly intervals for two weeks or more. Iron chelate, EDTA or  
ferrous sulfate solution were ineffective. There are 3 tables,  
contact photograph of leaves; 13 Western and 4 Czechoslovak references.

1/1

HORVAY, Laszlo

The United Incandescent Lamp and Electricity Company. Szabvany  
kozl 16 no.7:118 J1 '64.

BALINTFFY, Istvan, dr. egyetemi adjunktus; S. HORVAY, Magdolna, dr., egyetemi adjunktus

Studies on Quinoseptyl, a new sulfoamide with long-lasting effect.  
Magyar Allatorv. Lap. 19 no.5:175-179 My '64

I. Chair of Pharmacology (Head of Chair: Univ. Prof. Dr. Jenő Kovács), University of Veterinary Medicine, Budapest.



HORWATH, S.

"New VUS-EA 3 austenitic electrodes for high-parameter power engineering."  
p. 78.

ZVARANIE. (Ministerstvo hutneho prumyslu a rudnych bani a Ministerstvo  
strojarenstva). Bratislava, Czechoslovakia, Vol. 8, No. 3, Mar. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,  
August 1959.  
Uncla.

HORYCH, S. (Zatec)

Magnetic amplifier drives. Automatizace 5 no.2:53-54 F '62.

HRZYCH, S.

Induction recorder of high speed revolutions. Elektrotechnik 18  
no.6:173 Ja '63.

HORYCH, S.

Automation of oil cleaner operation. Elektrotechnik 18 no.9:  
265-266 S'63.

HORYCH, S.

HORYCH, S. New electrical equipment for the machinery industry. p. 26.

Vol. 12, no. 1, Jan. 1957

ELEKTROTECHNIK

TECHNOLOGY

Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

HORYCH, S.

A new capacity bridge. Elektrotechnik 17 no.1:17-18 Ja '62.

HORYCH, S.

Electric drives of regulating bars of nuclear reactors.  
Elektrotechnik 17 no.6:170-171 Je '62.

HORYCH, S.

Automatic time control in spot welding and seam welding.  
Elektrotechnik 17 no.2:58-59 F '62.



HORYCH, S.

Operation of heavy machine tools. Elektrotechnik 17 no.6:  
172-173 Je '62.

HORYCH, S.

Germanium welding rectifiers. Elektrotechnik 17 no.10:291  
0 '62.

HCRYCH, S.

The AEG airconditioner. Elektrotechnik 17 no.10:293 0 '62.

HORYCH, S.

Remanent contactor. Elektrotechnik 17 no.11:319-320 N '62.

HORYCH, S.

Mosaic switchboards. Elektrotechnik 18 no.1:15 Ja '63.

HORYGH, S.

Air and gas humidity measurement. Elektrotechnik 18 no.6:170-  
171 Je '63.

HORYCH, S.

Cultivator with electronic control. Elektrotechnik 29 no.1.  
22 Ja '65.

PESAK, inz.; HADROUSEK, Z.; HORYCH, S.

Reports. Elektrotechnik 18 no.7:202-205 JI '63.



HORYCH, S. (Zatec)

Measurement of revolutions of combustion engines with battery  
ignition. Elektrotechnik 18 no.5:141-142 My '63.

HORYCH, S.

SV1 relay amplifier. Elektrotechnik 19 no.1:15-16 Ja'64.

HORYCH, S.

Cathodic anticorrosion protection. Elektrotechnik 19  
no.4:112 Ap '64.

HORYCH, S.

Direct current engines with permanent magnets. Elektrotechnik  
20 no.4:112 Ap '65.

HORYD, Wanda; JEZEWSKA, Ewa

Apropos of spinal manifestations in vertebral angiomias and their early recognition. Pol. tyg. lek. 18 no.35:1311-1313 26 Ag '63.

1. Z Osrodka Szkolenia Neurologii Studium Doskonalenia Lekarzy; kierownik: doc. dr med. E. Jezewska, z Panstw. Szpitala dla Nerw. i Psych. Chorych w Pruszkowie, dyrektor: dr med. F. Kaczanowski, ordynator oddz. neurol.: dr med. Bronislaw Stepien i z Instytutu Psychoneurologicznego; dyrektor; prof. dr med. Z.W. Kuligowski.

(SPINAL NEOPLASMS) (SPINAL CORD)  
(NEUROLOGIC MANIFESTATIONS) (ELECTROMYOGRAPHY)  
(HEMANGIOMA)

HORYD, Wanda; DOBOSZ, Janusz

A case of Wernicke's encephalopathy. Neurol. neurochir. psychiat.  
Pol. 14 no.1:71-73 Ja-F '64.

1. Z Oddziału Neurologicznego Państwowego Szpitala dla Nerwowo i  
Psychicznie Chorych w Pruszkowie (Ordynator: doc. dr. med. I. Wald).

HORYD, Wanda; EUKSOWICZ, Czeslaw

The problem of epileptic seizures and EEG hypersyndromism  
in cerebral palsy in children (Little's disease). Neurol.  
neurochir. psychiat. pol. 13 no.6:829-834 N-D'63

1. Z Oddzialu Neurologicznego Instytutu Psychoneurologiczne-  
go, Poznan; kierownik: prof.dr.med. A.Dowzenko.

\*

EXCERPTA MEDICA Sec 8 Vol 12/3 Neurology Mar 59

1567. CATAMNESIS OF PATIENTS TREATED FOR TUBERCULOUS CEREBRO-SPINAL MENINGITIS IN THE NERVOUS DISEASE CLINIC OF THE MEDICAL ACADEMY IN GDAŃSK DURING THE PERIOD 1948 TO 1954 -  
Katamneza chorych leczonych z powodu gruźliczego zapalenia opon mózgowo-  
rdzeniowych w Klinice Chorób Nerwowych A.M.G. w latach 1948-1954 -  
Horyd W. and Kicińska M. Klin. Chor. Nerw. A.M., Gdańsk - NEUROL.  
NEUROCHIR. PSYCHIAT. 1956, 7/suppl. 4 (563-565)

During this period, 154 adult patients were treated with streptomycin and 4-amino-salicylic acid. Of the 56 patients who either still survived in 1956 or were since discharged, 31 could be regularly followed-up. Sixteen were regarded as cured. The remaining 15 remained under after-treatment. Of these 31 patients, 28 had resumed their daily work at the time of writing. Kukowka - Greiz (L, 8, 15)



HORYD, Wanda

Preliminary experimental treatment of facial neuralgia with acupuncture.  
Neurol. neurochir. psychiat. pol. 12 no.5:715-719 '62

1. Z Oddziału Neurologicznego Państwowego Szpitala dla Nerwów i  
Psychicznie Chorych w Pruszkowie Ordynator: dr med. I. Wald Dyrektor:  
dr med. F. Kaczanowski i z Oddz. Neur. Państw. Instytutu Psychoneurolo-  
gicznego Dyrektor: prof. dr med. Z.W.Kuligowski.  
(ACUPUNCTURE) (FACIAL NEURALGIA)

POLAND

HORYB, Wanda and JEZEWSKA, Ewa; Neurology Training Center (Osrodek Szkolenia Neurologii), Physicians' Postgraduate Training Program (Studium Doskonalenia Lekarzy) (Director: Docent, Dr. med. E. JEZEWSKA), State Hospital for Nervous and Psychic Disorders (Panstwowy Szpital dla Nerwowo i Psychiczenie Chorych) in Pruszkow (Director: Dr. med. F. KACZANOWSKI) and its Neurological Division (Oddzial Neurologiczny) (Director: Dr. med. Bronislaw STEPIEN), and the Psychoneurological Institute (Instytut Psychoneurologiczny) (Director: Prof. Dr. med. Z. W. KULIGOWSKI)

"Medullar Signs in the Course of Hemangioma of the Vertebral Column. Case Report."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 35, 26 Aug 63, pp 1311-1313

Abstract: [Authors' English summary] Authors report a case of hemangioma of the vertebral column, which was difficult to diagnose, since the only clues, in addition to x rays, came from EMG tracings, and authors discuss the importance of the latter in diagnosing diseases of the central nervous system. 11 refs: 1 Polish, 4 German, other Western.  
1/1

KULIGOWSKI, Zygmunt; HORYD, Wanda; MATUSZELANSKA, Irena

Postoperative epilepsy. Neurol., neurochir. psychiat. Pol.  
14 no.3:369-376 My-Je '64

1. Z Oddziału Neurologicznego Instytutu Psychoneurologicznego  
(Ordynator i dyrektor: Z.W. Kuligowski) i z Oddziału Neurologicznego Państwowego Szpitala dla Nerwowo i Psychicznie Chorych w Pruszkowie (Ordynator: I. Wald).

HORYD, Wanda

Spastic paralysis of lower extremities in 4 related children.  
Neurol., neurochir., psychiat. Pol. 15 no.1:165-168 Ja-F'65.

1. Z Oddziału Neurologicznego Państwowego Szpitala dla Ner-  
wowo i Psychicznie Chorych w Pruszkowie (Ordynator: doc.  
I. Wald).

HORYD, Wanda; PATELSKA, Teresa

Conservative treatment of temporal lobe epilepsy. *Neurol. neurochir. psychiat. Pol.* 15 no.3:433-438 My-Je '65.

l. Z Oddziału Neurologicznego Instytutu Psychoneurologicznego w Pruszkowie (Kierownik: prof. dr. med. A. Dowzenko) i z Wojewodzkiej Poradni Przeciwpadaczkowej w Poznaniu (Kierownik: dr. med. Z. Huber).

S/081/62/000/020/033/040  
B162/B101

AUTHORS: Maciaszek, Stanisław, Horyl, Lubomir

TITLE: Pneumatic foaming of urea-formaldehyde resin. Part 2

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 20, 1962, 508, abstract  
20P138 (Tworzywa wielkocząsteczkowe, v. 6, nos. 7-8, 1961,  
237-239 [Pol.; summaries in Russ. and Eng.] )

TEXT: Diagrams and description of the equipment for foaming of urea-  
formaldehyde resin "in situ" (a general layout chart and a diagram of the  
foam-producing and mixing tanks) are given. Different alternative  
equipments for foaming are considered in detail. [Abstracter's note:  
Complete translation.]

Card 1/1

Raney nickel catalyzed alkylation of aromatic amines with alcohols  
Jaroslav Hlavinka and Otačar Černý (Výzkumný ústav org. syntézy, Pardubice-RVbJv, Czech). 1957.

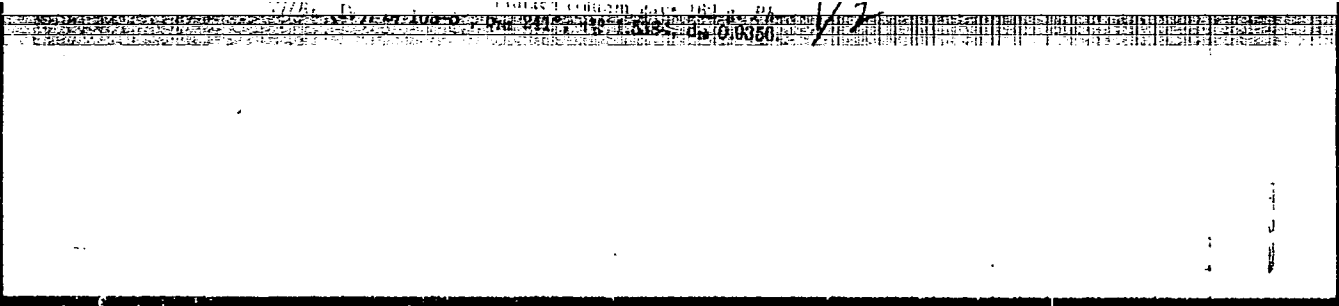
*Chem* 2

1900

July 30, 1957-5(1066) --Raney Ni was found a suitable catalyst for alkylation of aromatic amines with alcs. Compared with acid-catalyzed alkylations, Raney Ni-catalyzed alkylation favors the formation of secondary amines and shows less corrosive action. The alkylation was carried out either under atm. pressure the reaction water being removed by azeotropic distn. or by heating a mixt. of the amine, alcohol and catalyst in an autoclave. The yields of the secondary amines ranged from 88 to 72%. A mixt. of 201 g. Pt-Ni, (I), 248.5 g. abs. EtOH, and 8.05 g. Raney Ni (II) was heated in a stainless autoclave 4 hrs. at 220° (pressure 1.30 atm.). II was removed by filtration, the filtrate

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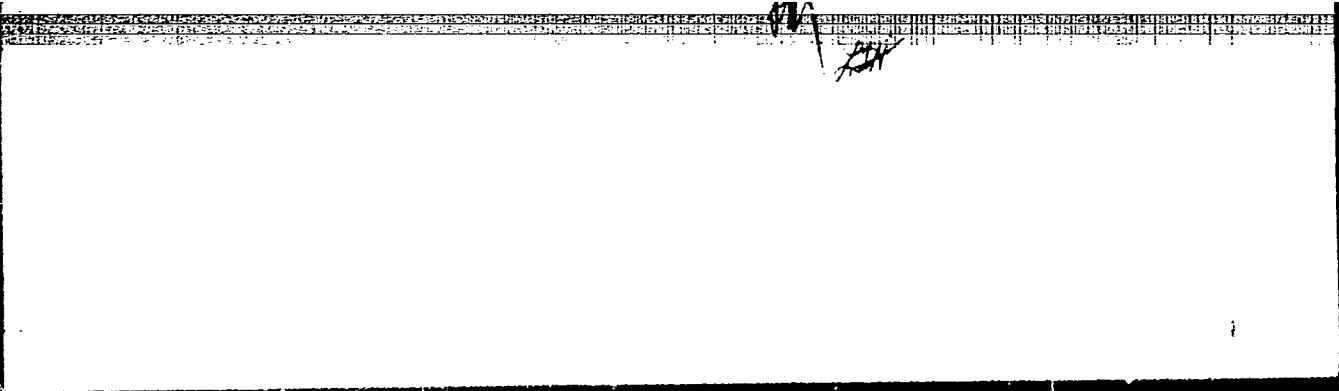
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Distr: 4E2c(1)

~~Aromatic N-monosubstituted amines or N,N'-disubstituted  
diamines by alkylation of primary aromatic amines with al-  
cohols. Jaroslav Horvath, Otakar Cerny, and Vitezslav  
Hanousek. Czech. 37,381, Oct. 16, 1957. Heating in an  
autoclave 2.16 moles PhNH<sub>2</sub> (I), 5.40 moles abs. EtOH, and  
5.05 g. Raney Ni (II) 6 hrs. to 220°, filtering, and distg. the  
mixt. gives 2.1% unreacted PhNH<sub>2</sub>, 71.8% PhNHEt (III),  
and 10.6% PhNEt<sub>2</sub>. Analogously is obtained 69.0% p-Bu-  
NHC<sub>2</sub>H<sub>5</sub>NHBu. An alternative method consists of heating  
1 mole I, 12.0 g. EtOH, and 11.0 g. II 16 hrs. to 150° with  
removal of H<sub>2</sub>O yielding 8.4% I and 65.1% III. Similarly  
1/4 is obtained 71.5% PhNHBu. L. J. Urbansk~~

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JG

CAT. NO. : 55491  
CATIONIC CHEMISTRY--SOLUTIONS, THEORY OF ACIDS AND BASES  
ABS. JOUR. : RZhKhim., No. 16 1959, No. 55491  
AUTHOR : Horyna, J.  
INST. : Not given  
TITLE : On the Relationship Between the Dissociation Constant and the Solubility of Organic Sulfoacids and the Acidity Functions  
ORIG. PUB. : Chem Listy, 52, No 7, 1201-1205 (1958)

ABSTRACT : The author proposes the determination of the first and second order dissociation constants of aromatic acids by the use of solubility data at known values of the acidity function  $H_0$ . Equations have been derived giving the dependence of  $\log (S/S_0 - 1)$  on  $H_0$ , where  $S_0$  is the concentration of undissociated acid  $ArSO_3H$  and  $S$  is the sum of the concentrations of  $ArSO_3^-$  and  $ArSO_3H$ . The inflection point in the  $\log (S/S_0 - 1)$  vs.  $H_0$  curve corresponds to the dissociation constant.

CARD: 1/2

48

COUNTRY : Czechoslovakia 3-11  
CATEGORY :  
ABS. JOUR. : RZKhim., No. 16 1960, No. 56491  
AUTHOR :  
INST. :  
TITLE :  
ORIG. PUB. :  
ABSTRACT : It has been found that the pK's for the first and second dissociations of p-toluenesulfonic acid and p-xylenesulfonic acid are -4.12, -6.14, -3.10, and -5.30, respectively.  
O. Knessl

CARD: 2/2

COUNTRY : Czechoslovakia B-11  
CATEGORY :  
ABS. JOUR. : RZKhim., No. 5 1960, No. 17120  
AUTHOR : Horyna, J.  
INST. : Not given  
TITLE : The Relationship Between the Dissociation Constant and the Solubility of Organic Sulfo Acids in Dilute Sulfuric Acid and the Acidity Functions  $H_0$  and  $H^*$   
ORIG. PUB. : Collection Czechoslov Chem Commun, 24, No 5, 1595-1601 (1959)  
ABSTRACT : See RZKhim, 1959, No 16, 56491.

CARD: 1/1 \* of the Medium

HORYNA, J.

Relation between the solubility, the degree of acidity of the medium, and the dissociation constants of 1,5-naphthalenedisulfonic acid and 1,5- and 1,8-anthraquinonedisulfonic acids. J. Horyna (Výzkumný ústav organických syntéz, Pardubice-Kybitví, Czech.). *Collection Czechoslov. Chem. Commun.* 24, 2637-41(1959).--From the soly. of the 1,6-naphthalenedisulfonic acid (I), 1,5- (II), and 1,8-anthraquinonedisulfonic acids (III) their dissoen. consts. were computed graphically. The values of  $pK_{A1}^{solv}$  and  $pK_{A2}^{solv}$  are: I -3.58, -6.47; II -3.95, -6.03; III -2.38, -3.90. The effect of change in the degree of acidity of the medium on the soly.  $S$  of the aromatic sulfonic acids can be expressed by the relations:  $\log(S^2/S_1^2) \cong -\Delta H_1$  and  $\log(S_1/S_2) \cong -\Delta H_2$ .  
E. Erdős

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4E 3d  
929 (NB)  
4E2c (1/2)

Card 1/1

aht

929

HORYNA, J.

Transformations of aromatic nitrogen substances in solutions of fuming sulfuric acid. In German. Coll.Cz.Chem. 24 no.11:3574-3595N '59. (ERAI 9:5)

1. Organisch-technologisches Laboratorium I, Forschungsinstitut für organische Synthesen, Pardubice-Rybitvi.  
(Nitrogen) (Solutions) (Sulfuric acid)

HORNA, J.; JEHLICKA, V.

Polarographic and polarimetric measurements by means of graphite  
electrode impregnated with wax. Coll Cz Chem 25 no.7:1769-1774  
Jl '60. (EEAI 10:9)

1. Forschungsinstitut für organische Synthesen, Pardubice-Rybitví.

(Polarograph and polarography) (Polarimetry)  
(Electrodes)

HORYNA, J.

Contribution to the clarification of the mechanism for the dissolution of carbonic acid in a mixture of strong mineral acid with water. Coll Cz Chem 25 no.11:2720-2732 N '60. (EEAI 10:6)

1. Forschungsinstitut für organische Synthesen, Organisch-technologisches Laboratorium I, Pardubice-Rybitvi.  
(Carboxylic acids) (Water) (Hydrochloric acid)  
(Nitric acid) (Sulfuric acid)



HORYNA, Jaromir

"Physical organic chemistry" by Jack Hine. Reviewed by Jaroslav Horyna.  
Chem prum 11 no.11:599 N '61.

1. Vyzkumny ustav organickych syntez.

HORYNA, J.; HANOUSEK, V.

Nitration of naphthalenesulfonic acids. II. Nitration of 1,5- and 1,6-naphthalenedisulfonic acids in sulfuric acid. Coll Cz chem 26 no.1:79-90 Ja '61. (EEAI 10:9)

1. Organisch-technologisches Laboratorium I., Forschungsinstitut für organische Synthesen, Pardubice-Rybitví.

(Nitration) (Naphthalenesulfonic acid)  
(Naphthalenedisulfonic acid)  
(Sulfuric acid)

HORYNA, J.

Solubility of the naphthalene-1-sulfonic acid and naphthalene-2-sulfonic acid in various concentrations of sulfuric acid. Coll Cz Chem 27 no.5:1324-1326 My '62.

1. Forschungsinstitut für organische Synthesen, Pardubice-Rybitvi.

HORYNA, J.; JEHLICKA, V.

Vibrating mercury capillary electrodes for oscillographic polarography. Coll Cz Chem 27 no.5:1326-1329 My '62.

1. Forschungsinstitut fur organische Synthesen, Pardubice  
- Rybitvi.