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ELEVENTH EDITION

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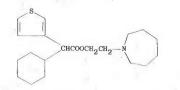
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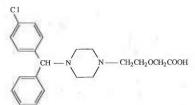
2-(hexahydro-1H-azepin-1-yl)ethyl ester; α -cyclohexyl- α -(3-thienyl)acetic acid 2-hexamethyleneiminoethyl ester. C₂₀H₃₁NO₂S; mol wt 349.54. C 68.72%, H 8.94%, N 4.01%, O 9.16%, S 9.17%. Prepn: Pons, Robba, Fr. pat. 1,460,571 and Pons et al., Fr. pat. M5504 (1966, 1967, both to Inno-thera), C.A. 68, 59429d (1968); 71, 91286c (1969). Prepn and activity: Robba, LeGuen, Chim. Ther. 2, 120 (1967). Antisickling effect: T. Asakura et al., Proc. Nat. Acad. Sci. USA 77, 2955 (1980); L. R. Berkowitz, E. P. Orringer, J. Clin. Invest. 68, 1215 (1981).



Citrate, $C_{26}H_{39}NO_9S,$ Stratene, Vasocet. Crystals from ethanol-ether, mp 115°.

Hydrochloride, $C_{20}H_{32}$ ClNO₂S, crystals from acetonitrile, mp 152° (Robba, LeGuen); also mp 143° (Pons, Robba). THERAP CAT: Vasodilator (peripheral).

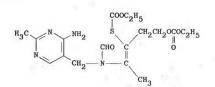
2013. Cetirizine. [2-[4-[(4-Chlorophenyl)phenylmethyl]-1-piperazinyl]ethoxy]acetic acid; [2-[4-(p-chloro-aphenylbenzyl)-1-piperazinyl]ethoxy]acetic acid. C₂₁H₂₅-ClN₂O₃; mol wt 388.89. C 64.86%, H 6.48%, Cl 9.12%, N 7.20%, O 12.34%. Nonsedating type histamine H₁-receptor antagonist; major metabolite of hydroxyzine, *q.*. Prepn: E. Baltes et al., Eur. pat. Appl. 58,146; eidem, U.S. pat. 4,525,-358 (1982, 1985 both to UCB). Pharmacology: C. De Vos et al., Ann. Allergy 59, 278 (1987); L. Juhlin et al., J. Allergy Clin. Immunol. 80, 599 (1987). Clinical evaluation in asthma: A. Brik et al., ibid. 51. Mode of action by eosinophil inhibition: R. Fadel et al., Clin. Allergy 17, 373 (1987). Clinical evaluation of antihistaminic and psychomotor effects: F. M. Gengo et al., Clin. Pharmacol. Ther. 42, 265 (1987).



Crystals from ethanol, mp 110-115°.

Dihydrochloride, $C_{21}H_{27}Cl_3N_2O_3$, P071, Virlix, Zirtek, Zyrtec. Crystals from isopropanol, mp 225°. THERAP CAT: Antihistaminic.

2014. Cetotiamine. Thiocarbonic acid O-ethyl ester, S-ester with N-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-N-(4-hydroxy-2-mercapto-1-methyl-1-butenyl)formamide ethyl carbonate (ester); O,S-bis(ethoxycarbonyl)thiamine; O,S-dicarbethoxythiamine; DCET. C₁₈H₂₆N₄O₆S; mol wt 426.51. C 50.69%, H 6.15%, N 13.14%, O 22.51%, S 7.52%. Prepn: Takamizawa, Hirai, Chem. Pharm. Bull. 10, 1102 (1962); Takamizawa et al., ibid. 1107; Yamamoto et al., Bitamin 25, 472 (1962), C.A. 60, 9773e (1964); Brit, pat. 944,641 (1963) to Shinongi).



Prisms from ethyl acetate + petr ether, mp 113.5-114.5°.

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Hydrochloride monohydrate, $C_{18}H_{27}$ ClN₄O₆S.H₂O, dice. thiamin, Dicetamin. Crystals from ethyl acetate, dec 122, 124°. Sol in water, methanol. Practically insol in ether, benzene.

THERAP CAT: Vitamin B₁ source.

2015. Cetoxime. N-Hydroxy-2-[phenyl(phenylmethyl)aminoJethanimidamide; 2-(N-benzylanilino)acetamidoxime; α -(N-benzyl-N-phenylamino)acetamidoxime. C₁₅H₁₇N₃O; mol wt 255.31. C 70.56%, H 6.71%, N 16.46%, O 6.27%, Prepd from (N-benzylanilino)acetonitrile via its thioamide; Benn et al., Brit. pat. 895,495 (1962 to Boots Pure Drug).

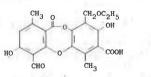
$$C_6H_5CH_2 - N - CH_2 - C = NOH$$

 \downarrow
 $C_6H_5 NH_2$

Crystals, mp 107-108°.

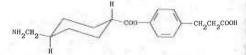
Hydrochloride, $C_{15}H_{18}CIN_3O$, Febramine. Crystals from abs alcohol + ether, mp 164-165°. THERAP CAT: Antihistaminic.

2016. Cetraric Acid. 9-(Ethoxymethyl)-4-formyl-3,8-di. hydroxy-1,6-dimethyl-11-oxo-11H-dibenzo[b,e][1,4]dioxepin-7-carboxylic acid; cetrarin. $C_{20}H_{18}O_9$; mol wt 402.34. C 59.70%, H 4.51%, O 35.79%. From Iceland moss, Cetraria islandica (L.) Ach., Parmeliaceae. Isoln: Schnedermann, Knopp, Ann. 55, 144 (1845). Structure: Asahina, Asano, Ber. 66, 893 (1933).



Very bitter prisms from alcohol or acetic acid. Bitterness threshold 1:50,000. Practically insol in hot water, petr ether, benzene, ether, or in cold methanol, alc, acetone and acetic acid. Sol in aq solns of alkalies or their carbonates forming a vellow soln that turns brown on standing.

2017. Cetraxate. 4-[[[4-(Aminomethyl)cyclohexyl]carbonyl]oxylbenzenepropanoic acid; p-hydroxyhydrocinnamic acid trans-(4-aminomethyl)cyclohexanecarboxylate; tranexamic acid p-(2-carboxyethyl)phenyl ester. C₁₇H₁₃NO₄; mol wt 305.38. C 66.86%, H 7.59%, N 4.59%, O 20.96%. Deriv of tranexamic acid, q.v. Prepn: O. Atsuji et al., J. Med. Chem. 15, 247 (1972); S. Kitahara, Japan. Kokai 73 75547 (1973 to Daiichi), C.A. 80, 59727x (1974). Mechanism of action: Y. Suzuki et al., Japan. J. Pharmacol. 29, 829 (1979), C.A. 92, 88029 (1980). Anti-ulcer effects in rats: T. Hashizume et al., Arch. Int. Pharmacodyn. Ther. 240, 314 (1979). Clinical study: A. Ishimori et al., Arzneimittel-Forsch. 29, 1625 (1979); S. Yamagata, K. Miura, *ibid.* 33, 1191 (1983).



Crystals from methanol, melts over a range of $200-280^\circ$. Hydrochloride, $C_{17}H_{24}CINO_4$, *DV-1006*, *Neuer*. Crystals from methanol/ether, mp 238-240°. THERAP CAT: Anti-ulcerative.

2018. Cetrimonium Bromide. N,N,N-Trimethyl-1-hexadecanaminium bromide; hexadecyltrimethylammonium bromide; cetyltrimethylammonium bromide; Bromat; Cetab; Cetavlon; Cetylamine; C.T.A.B.; Lissolamine V; Micol; Quamonium. C₁₉H₄₂BrN; mol wt 364.48. C 62.61% H 11.62%, Br 21.93%, N 3.84%. [CH₃(CH₂)₁₅N(CH₃)]Br. Prepd from cetyl bromide and trimethylamine: Shelton et al., J. Am. Chem. Soc. 68, 753 (1946). Toxicity and pharmacology: B. Isomaa, K. Bjondahl, Acta Pharmacol. Toxicol. 47, 17 (1980).

Crystals, mp 237-243°. Soluble in about 10 parts water. Freely sol in alc; sparingly sol in acetone. Practically insol

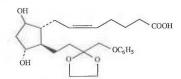
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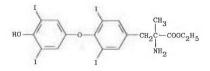
Etiproston

3827. Etiproston. [1R-(1α(Z), 2β(E), 3α, 5α]]-7-[3, 5-Di-**3827.** Etiproston. [1R-(1 α (Z),2 β (E),3 α ,5 α]]-7-[3,5-Di-hydroxy-2-[2-[2-(phenoxymethyl)-1,3-dioxolan-2-yl]ethen-yl]cyclopentyl]-5-heptenoic acid; (5Z,13E)-(8R,9S,11R,12R)-9,11-dihydroxy-15,15-ethylenedioxy-16-phenoxy-17,18,-19,20-tetranorprostadienoic acid; 15-deoxy-15,15-ethylene-dioxy-16-phenoxy-17,18,19,20-tetranorprostaglandin F_{2c}; Prostavet. C₂₄H₃₂O₇; mol wt 432.51. C 66.65%, H 7.46%, O 25.89%. Prostaglandin F₂, analog with estrus cycle synchro-nizing activity. Prepn: W. Skuballa et al., Ger. pat. 2,434,-133; eidem, U.S. pat. 4,088,775 (1976, 1978 both to Schering AG); and biological activity: W. Skuballa et al., J. Med. Chem. 21, 443 (1978). Chem. 21, 443 (1978).



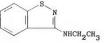
Colorless oil. THERAP CAT (VET): Luteolytic.

3828. Etiroxate. O-(4-Hydroxy-3,5-diiodophenyl)-3,5-3828. Etiroxate. O-(4-Hydroxy-3,5-diiodophenyl)-3,5-diiodo- α -methyltyrosine ethyl ester; D,L- α -methylthyroxine ethyl ester; CG 635. C₁₈H₁₇I₄NO₄; mol wt 818.95. C 26.40%, H 2.09%, I 61.98%, N 1.71%, O 7.82%. Deriv of thyroxine, q.v. Prepn: Neth. pat. Appl. 6,614,150 corresp to H. Kummer, R. Beckmann, U.S. pat. 3,930,017 (1967, 1975 both to Grünenthal). Animal studies: R. Beckmann, Arz-neimittel-Forsch. 29, 499 (1979). Effect on iodine metabo-lism in man: D. Emrich, *ibid.* 27, 422 (1977). Use in hyper-lipoproteinemia: H. Banz, F. P. Gall, Fortschr. Med. 97, 1942 (1979); eidem, Med. Klin. 75, 51 (1980).



Cryst from ethanol, mp 156-157°. Hydrochloride, $C_{18}H_{18}ClI_4NO_4$, *Skleronorm*. THERAP CAT: Antihyperlipoproteinemic.

3829. Etisazol. N-Ethyl-1,2-benzisothiazol-3-amine: **38.29.** Etisazol. *N-Ethyl-1,2-benzisothiazol-3-amine*; 3-(ethylamino)-1,2-benzisothiazole; Netrosylla. $C_9H_{10}N_2S$; mol wt 178.24. C 60.64%, H 5.66%, N 15.71%, S 17.99%. Prepd by the reaction of diphenyldisulfide-2,2'-dicarbonyl dichloride with ethylamine, followed by treatment with PCl₅ and ammonia: Boeshagen, *Ber*, **99**, 2566 (1966). Chemistry studies: Geiger *et al.*, *ibid.* **102**, 1961 (1969); Boeshagen *et al.*, *ibid.* **103**, 3166 (1970).

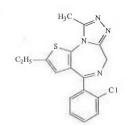


mp 78°

Hydrochloride, C₉ H_{11} ClN₂S, BAY VA 5387, Ectimar. Crystals from ethanol, mp 171°. THERAP CAT (VET): Antifungal.

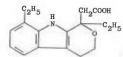
3830. Etizolam. 4-(2-Chlorophenyl)-2-ethyl-9-methyl-6H-thieno[3,2-f][1,2,4]triazolo[4,3-a][1,4]diazepine; 1-meth-yl-6-o-chlorophenyl-8-ethyl-4H-s-triazolo[3,4-c]thieno-[2,3-e]-1,4-diazepine; Y-7131; Depas. $C_{17}H_{15}ClN_4S$; mol wt 342.85. C 59.56%, H 4.41%, Cl 10.34%, N 16.34%, S 9.35%, Prepn: M. Nakanishi et al., Ger. pat. 2,229,845; eidem, U.S. pat. 3,904,641 (1972, 1973 both to Yoshitomi). Pharmacol-owy and toxicity exidence. T. Townsori et al. Americanic ogy and toxicity studies: T. Tsumagari et al., Arzneimittel-Forsch. 28, 1158 (1978). Effect on monoamine metabolism in brain: M. Setoguchi et al., ibid. 1165; on rage responses in cats: T. Fukuda, T. Tsumagari, Japan. J. Pharmacol. 33, 885 (1983).

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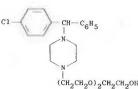
Crystals from toluene, mp 147-148°. LD_{50} in male, female rats, male, female mice (mg/kg): 3619, 3509, 4358, 4258 orally; 865, 825, 830, 783 i.p.; > 5000 s.c. (Tsumagari). THERAP CAT: Anxiolytic.

3831. Etodolac. 1,8-Diethyl-1,3,4,9-tetrahydropyrano-[3,4-b]indole-1-acetic acid; etodolic acid; AY -24236; Edo-lan; Lodine; Ramodar; Ultradol; Zedolac. C₁₇H₂₁NO₃; moj wt 287.37. C 71.05%, H 7.37%, N 4.88%, O 16.70%. Prepn: C. A. Demerson et al., Ger. pat. 2,226,340; eidem, U.S. pat. 3,843,681 (1973, 1974 both to Am. Home Products); eidem, J. Med. Chem. 19, 391 (1976). Anti-inflammatory and anal-gesic properties: R. R. Martel, J. Klicius, Can. J. Physiol. Pharmacol. 54, 245 (1976). Metabolic disposition in animals and man: M. N. Cayen et al., Drug. Metab. Rev. 12, 339 (1981); E. S. Ferdinandi et al., Xenobiotica 16, 153 (1986). Clinical comparison with sulindac in rheumatoid arthritis-3831. Etodolac. 1,8-Diethyl-1,3,4,9-tetrahydropyrano-Clinical comparison with sulindac in rheumatoid arthritis: G. Jacob et al., Curr. Ther. Res. 37, 1124 (1985).



Crystals from hexane/chloroform, mp 145-148°. THERAP CAT: Anti-inflammatory; analgesic.

3832. Etodroxizine. 2-[2-[2-[4-[(4-Chlorophenyl)-phenylmethyl]-1-piperazinyl]ethoxy]ethoxy]ethanol; 1-(pphenylmethyl]-1-piperazinyl]ethoxy]ethoxy]ethanol; 1-(p-chlorobenzhydryl) -4 - [2-[2-(2-hydroxyethoxy)ethoxy] ethyl]piperazine; 1-(p-chloro- α -phenylbenzyl)-4-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]diethylenediamine; hydro-chlorbenzethylamine. C₂₃H₃₁ClN₂O₃; mol wt 418.98. C 65.93%, H 7.46%, Cl 8.46%, N 6.69%, O 11.46%. Prepn: Morren, Brit, pat. 817,231 (1959). GC determn in plasma: R. Pentz, A. Schutt, Arch. Toxicol. 39, 225 (1978). Clinical evaluations in insomnia: R. Loire, A. Perrin, Lyon Med. 219, 1795 (1968); S. Fedeli, Bruxelle Med. Belg, 48, 517 (1968). Toxicology: M. Giurgea, J. Puigdevall, Proc. Eur. Soc. Study Drug Toxicity 9, 134 (1968).



Liquid, bp_{0.01} 250°. Dimaleate, $C_{31}H_{39}ClN_2O_{11}$, *Indunox, Drimyl*, LD₅₀ orally in rats: 920 mg/kg (Giurgea, Puigdevall).

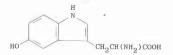
THERAP CAT: Hypnotic.

3833. Etofenamate. 2-[[3-(Trifluoromethyl)phenyl]amino]benzoic acid 2-(2-hydroxyethoxy)ethyl ester; N-(α, α, α nopoenzoic acid 2-(2-hydroxyethoxy)ethyl ester; N-(α, α, α' trifluoro-m-tolyl)anthranilic acid 2-(2-hydroxyethoxy)ethyl ester; B 577; TV 485; Bayrogel; Rheumon gel; Traumon Gel. C₁₈H₁₈F₃NO₄; mol wt 369.35. C 58.54%, H 4.91%, F 15.43%, N 3.79%, O 17.33%. Percutaneously active anti-phlogistic agent. Prepn: K. H. Boltze *et al.*, Ger, pat. 1,-**939,112** corresp to U.S. pat. **3,692,818** (1971, 1972 both to Troponwerke). Series of articles on chemistry, analysis, bio-

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Hygromycin

4784. 5-Hydroxytryptophan. 5-HTP. $C_{11}H_{12}N_2O_3$; mol wt 220.22. C 59.99%, H 5.49%, N 12.72%, O 21.80%. Precursor of serotonin. Synthesis from 5-benzyloxyindole: Ek, Witkop, J. Am. Chem. Soc. **76**, 5579 (1954); Shaw, Morris, Biochem. Prepns. **9**, 92 (1962); from 5-benzyloxytryptophan: Frangatos, Chubb, Can. J. Chem. **37**, 1374 (1959); Franga-tos, Can. pat. **619,472** (1961 to Frank W. Horner); Ash, **Brit**, pat. **845,034** (1960 to May & Baker); from tryptophan: Renson et al., Biochem. Biophys. Res. Commun. **6**, 20 (1961). Renson et al., Biochem. Biophys. Res. Commun. 6, 20 (1961). Prepn of 5-hydroxy-L and D-tryptophan: A. J. Morris, M. D. Armstrong, J. Org. Chem. 22, 306 (1957). Crystal and molecular structure of DL-form: Wakahara et al., Tetrahe-dron Letters 1970, 3003. Use of L-5HTP in treatment of myoclonus, a neuromuscular disease: M. H. Van Woert, D. Rosenbaum, Adv. Neurol. 26, 107 (1979); L. J. Thal et al., Ann. Neurol. 7, 570 (1980). Orphan drug under develop-ment by Bolar. Review: M. H. Van Woert, Orphan Drugs, F. E. Karch, Ed. (Marcel Dekker, New York, 1982) pp F. E. Karch, Ed. (Marcel Dekker, New York, 1982) pp 13-31.



DL-Form, *Prétonine*. Minute rods or needles from etha-nol, dec 298-300°. uv max (H_2O at pH 6.0): 278 nm. Soly in water at 5°: 1.0 g/100 ml; at 100°: 5.5 g/100 ml. Soly in 50% boiling alc: 2.5 g/100 ml. Aq solns are stable at low pH.

L-Form, oxitriptan, L-5HTP, Levothym, Quietim, Tript-Oh. Crystals, $[\alpha]_{20}^{20} - 32.5^{\circ}$ (H₂O); $[\alpha]_{20}^{20} + 16.0^{\circ}$ (4N HCl). D-Form, crystals, $[\alpha]_{20}^{20} + 32.2^{\circ}$ (H₂O).

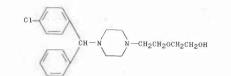
THERAP CAT: L-Form as antidepressant; antiepileptic.

4785. Hydroxyurea. Hydroxycarbamide; Hydrea; Lita-lir. $CH_4N_2O_2$; mol wt 76.06. C 15.79%, H 5.30%, N 36.84%, O 42.07%. H₂NCONHOH. Prepn from hydroxyl-amine HCl and KCN: Hantzsch, Ann. 299, 99 (1898). Al-ternate route: Graham, U.S. pat. 2,705,727 (1955 to du Pont).

Needles from alc, mp 133-136°. Freely sol in water, hot alcohol.

THERAP CAT: Antineoplastic.

4786. Hydroxyzine. 2-[2-[4-[(4-Chlorophenyl)phenyl-4786. Hydroxyzine. 2-[2-[4-[(4-Chlorophenyl)phenyl-methyl]-1-piperazinyl]ethoxylethanol; 1-(p-chloro- α -phenyl-benzyl)-4-(2-hydroxyethoxyethyl)piperazine; 1-(p-chlorodi-phenylmethyl)-4-[2-(2-hydroxyethoxy)ethyl]piperazine; N-(4-chlorobenzhydryl)-N'-(hydroxyethyloxyethyl)pipera zine; 1-(p-chlorobenzhydryl)-4-[2-(2-hydroxyethoxy)ethyl]-diethylenediamine; UCB 4492; Tran-Q; Tranquizine. C₁₁-H₂₇ClN₂O₂; mol wt 374.92. C 67.28%, H 7.26%, Cl 9.46%, N 7.47%, O 8.54%. H₁ receptor antagonist. Outline of commercial prepn: Chem. Week 79(5), 70 (Aug. 4, 1956); Morren, U.S, pat. 2,899,436 (1959 to UCB). Pharmacology and metabolism:, Cannizaro, Boll. Chim. Farm, 104, 39 Morren, U.S. pat. 2,899,436 (1959 to UCB). Pharmacology and metabolism: Cannizaro, Boll. Chim. Farm. 104, 39 (1965); Close et al., Ind. Chim. Belge 33, 94 (1968); eidem, Proc. Eur. Soc. Study Drug Toxicity 9, 144 (1968); S. F. Pong, C. L. Huang, J. Pharm. Sci. 63, 1527 (1974). Pharma-cokinetics and antihistaminic activity: F. E. R. Simons et al., J. Allergy Clin. Immunol. 73, 69 (1984); S. Ting et al., ibid. 75, 63 (1985). Clinical trials of efficacy in allergic rhinitis: L. Wong et al., ibid. 67, 223 (1981); as anti-emetic: R. McKenzie et al., Anesth. Analg. 60, 783 (1981); as pre-surgical sedative: G. Wallace, L. J. Mindlin, ibid. 63, 571 (1984). Toxicity data: E. I. Goldenthal, *Toxicol. Appl. Pharmacol.* 18, 185 (1971). Comprehensive description: J. Tsau, N. DeAngelis in Analytical Profiles of Drug Substances Vol. 7, K. Florey, Ed. (Academic Press, New York, 1978) pp 319-



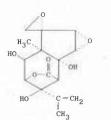
4789

Dihydrochloride, $C_{21}H_{29}Cl_3N_2O_2$, Alamon, Atarax, Aterax, Durrax, Orgatrax, Quiess, Vistaril Parenteral. Crystals, mp 193°. Bitter taste. Soly in mg/ml: water <700; chloroform 60; acetone 2; ether < 0.1. Solns are unstable to intense uv light. LD₅₀ in rats (mg/kg): 126 i.p.; 950 orally (Goldenthal).

Pamoate, $C_{44}H_{43}ClN_2O_8$, Equipose, Masmoran, Paxistil, Vistaril Pamoate. Crystals. Practically insol in water. THERAP CAT: Anxiolytic. Antihistaminic.

THERAP CAT (VET): Has been used as a tranquilizer.

4787. Hyenanchin. Hexahydro-1b, 6, 8-trihydroxy-6a-4/61. Hyenanchin. Hexanyaro-10, 6,8-trinyaroxy-6a-methyl-8-(1-methylethenyl)spiro[2,5-methano-7H-oxireno-[3,4]cyclopent[1,2-d]oxepin-7,2'-oxiran]-3(2H)-one; hyae-nanchin; hyenancin; mellitoxin. $C_{15}H_{18}O_7$; mol wt 310.29. C 58.06%, H 5.85%, O 36.09%. Isolated from fruit of Hyae-nanche globosa Lamb., Euphorbiaceae: Henry, J. Chem. Soc. 117, 1619 (1920). Structure and identity with mellitoxin: Jommi et al., Chim. Ind. (Milan) 46, 549 (1964), C.A. 61, 5607 (1964). 5697 (1964).



Crystals, mp 225-235°. Soly in water at 15°: 1.18%; more sol in hot water; sparingly sol in alcohol, acetone, ethyl ace-tate. $[\alpha]_{15}^{15} + 14.7^{\circ}$ (water).

4788. Hygrine. (R)-1-(1-Methyl-2-pyrrolidinyl)-2-prop-anone; 2-acetonyl-1-methylpyrrolidine; N-methyl-2-aceto-nylpyrrolidine. $C_8H_{15}NO$; mol wt 141.21. C 68.04%, H 10.71%, N 9.92%, O 11.33%. Occurs in leaves of Erythroxylon coca Lam., Erythroxylaceae of diverse origin: Lieber-mann, Ber. 22, 677 (1889). Synthesis: Galinovsky et al., Monatsh. 82, 551 (1951); Lukes et al., Coll. Czech. Chem. Commun. 24, 2433 (1959); Leonard, Cook, J. Am. Chem. Soc. 81, 5627 (1959). Enzymatic synthesis: Tuppy, Falta-ous, Monatsh. 91, 167 (1960). Stereochemistry: Galinovsky et al., ibid. 84, 798 (1953). Absolute configuration: Lukes et al., Coll. Czech. Chem. Commun. 25, 483 (1960).



Liquid. bp₁₁ 76.5°; bp₁₄ 81°. n_D^{20} 1.4555. Sol in alcohol, chloroform, dil acids; slightly sol in water. Picrate, C₁₄H₁₈N₄O₉, crystals from alc, mp 149-151°. Oxime, C₄H₁₆N₂O, crystals from ether, mp 123-124°. Styphnate, C₁₄H₁₈N₄O₉, crystals from ethanol, mp 137°. Reineckate, C₁₂H₂₁CrN₇OS₄, needles from methanol, mp

249-251°.

4789. Hygromycin. 5-Deoxy-5-[[3-[4-[(6-deoxy- β -D-arabino-hexofuranos-5-ulos-1-yl)oxy]-3-hydroxyphenyl]-2methyl-1-oxo-2-propenyl]amino]-1,2-O-methylene-D-neoinositol; homomycin; hygromycin A; 1703-18B; St-4331. $C_{23}H_{29}NO_{12}$; mol wt 511.47. C 54.01%, H 5.71%, N 2.74%, O 37.54%. Antibiotic substance produced by *Streptomyces* 0 37.54%. Antibiotic substance produced by *Streptomyces* hygroscopicus (Jensen) Waksman & Henrici, from forest soil near Indianapolis, Ind: R. L. Mann *et al.*, *Antibiot.* &

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